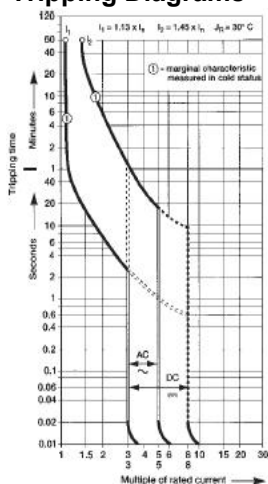


## Miniature Circuit Breakers, SH 200 Series, Resin Type

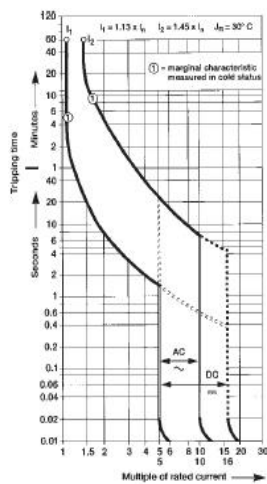
Compact Home

|                                    |                                                       |                                                         | SH 200 T                                                 | SH 200 L      | SH 200 |        |
|------------------------------------|-------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|---------------|--------|--------|
| Mechanical Features                | Toggle                                                | black sealable in On-Off position                       |                                                          |               |        |        |
|                                    | Mechanical Life/Operations                            | 20000                                                   |                                                          |               |        |        |
|                                    | Protection Degree/Operations                          | Housing                                                 | IP4X                                                     |               |        |        |
|                                    |                                                       | Terminals                                               | IP2X                                                     |               |        |        |
|                                    | Mechanical Shock Resistance                           | 30 g - 2 shocks - duration 11 ms                        |                                                          |               |        |        |
|                                    | Resistance to Vibrations acc. to IEC 60060-2-6        | 5 g - 20 cycles at frequency 5...150...5 Hz with 0.8xIn |                                                          |               |        |        |
|                                    | Tropicalization                                       | Humid Heat                                              | 28 cycles with 55/95...100                               |               |        |        |
|                                    | According to IEC/EN 60068-2                           | Constant Climatic Conditions °C/RH                      | 23/28 - 40/93 - 55/20                                    |               |        |        |
|                                    |                                                       | Variable Climatic Conditions                            | 25/95 - 40/95                                            |               |        |        |
|                                    |                                                       | Reference Temperature for Setting of Thermal Element    | °C                                                       | 30            |        |        |
| Electrical Features                | Ambient Temperature (with Daily Averages ≤ +35°C IEC) | °C                                                      | -25...+55                                                |               |        |        |
|                                    | Storage Temperature                                   | °C                                                      | -40...+70                                                |               |        |        |
|                                    | Standards                                             | IEC/EN 60898                                            |                                                          |               |        |        |
|                                    | Poles                                                 | 1, 2, 3, 4, 1+NA, 3+NA                                  |                                                          |               |        |        |
|                                    | Rated Current, In                                     | A                                                       | 6-63                                                     |               |        |        |
|                                    | Rated Voltage, Ue                                     | IEC, 1P, 1P+N                                           | V                                                        | 230           |        |        |
|                                    |                                                       | IEC, 2P, 3P, 4P, 3P+N                                   | V                                                        | 230/400       |        |        |
|                                    | Insulation Voltage, Ui                                |                                                         | V                                                        | 250           |        |        |
|                                    | Maximum Operating Voltage, Ub Max                     | IEC AC                                                  | V                                                        | 254/440       |        |        |
|                                    | Minimum Operating Voltage, Ub Min                     |                                                         | V                                                        | 12VAC - 12VDC |        |        |
|                                    | Rated Frequency                                       |                                                         | Hz                                                       | 50...60       |        |        |
|                                    | Rated Breaking Capacity                               | Ultimate Icn                                            | A                                                        | 3000          | 4500   | 6000   |
|                                    | Rated Impulse Withstand Voltage, Uimp                 |                                                         | kV                                                       | 4             |        |        |
|                                    | Dielectric Strength at Power Frequency for 1 Min      |                                                         | kV                                                       | 2.5           |        |        |
|                                    | Overvoltage Category                                  |                                                         |                                                          | III           |        |        |
|                                    | Pollution Degree                                      |                                                         |                                                          | 2             |        |        |
|                                    | Installation                                          | Thermomagnetic Release Characteristic                   | B: 3 In ≤ Im ≤ 5 In<br>C: 5In ≤ Im ≤ 10 In               | •<br>•        | •<br>• | •<br>• |
|                                    |                                                       | Terminal Type                                           |                                                          | Cage Terminal |        |        |
| Terminal Size Top/Bottom for Cable |                                                       | IEC                                                     | mm <sup>2</sup>                                          | 25/25         |        |        |
|                                    |                                                       | UL/CSA                                                  | AWG                                                      | 18-4          |        |        |
| Tightening Torque                  |                                                       | IEC                                                     | N*m                                                      | 2.5           |        |        |
|                                    |                                                       | UL/CSA                                                  | in-lbs.                                                  | 22            |        |        |
| Tool                               |                                                       |                                                         | Nr. 2 Pozidriv                                           |               |        |        |
| Mounting                           |                                                       |                                                         | On DIN Rail EN 60715 (35mm) by Means of fast Clip Device |               |        |        |
| Mounting Position                  |                                                       |                                                         | Optional                                                 |               |        |        |
| Connection                         |                                                       |                                                         | From Top and Bottom                                      |               |        |        |
| Dimensions and Weight              | Pole Dimensions, H x D x W                            | mm                                                      | 85 x 69 x 17.5                                           |               |        |        |
|                                    | Pole Weight                                           | g                                                       | 125                                                      |               |        |        |

## Tripping Diagrams



Tripping characteristic B  
according to Din VDE 0641 part 11  
In=6...63A  
SH 200T/SH 200L/SH 200



Tripping characteristic C  
according to Din VDE 0641 part 11  
In=6...63A  
SH 200T/SH 200L/SH 200

# Miniature Circuit Breakers, SH 200 Series, Resin Type

## SH 200 B Characteristic

Applications: Buildings, both residential and commercial;

Standard: IEC/EN 60898;

Function: Protection and control of the circuits against overloads and short-circuits, protection for resistive and inductive loads with low inrush current;

I<sub>cn</sub>=6kA;

|                                                                                    | Number of Poles                       | Rated Current, In | Type Code   | Order Code          | bbn     | Weight | Units/Pack |
|------------------------------------------------------------------------------------|---------------------------------------|-------------------|-------------|---------------------|---------|--------|------------|
|    | 1                                     | 6                 | SH 201-B 6  | 2CDS 211 001 R 0065 | 63058 0 | 0.125  | 12/120     |
|                                                                                    |                                       | 10                | SH 201-B 10 | 2CDS 211 001 R 0105 | 63061 0 | 0.125  | 12/120     |
|                                                                                    |                                       | 13                | SH 201-B 13 | 2CDS 211 001 R 0135 | 63063 4 | 0.125  | 12/120     |
|                                                                                    |                                       | 16                | SH 201-B 16 | 2CDS 211 001 R 0165 | 63065 8 | 0.125  | 12/120     |
|                                                                                    |                                       | 20                | SH 201-B 20 | 2CDS 211 001 R 0205 | 63067 2 | 0.125  | 12/120     |
|                                                                                    |                                       | 25                | SH 201-B 25 | 2CDS 211 001 R 0255 | 63069 6 | 0.125  | 12/120     |
|                                                                                    |                                       | 32                | SH 201-B 32 | 2CDS 211 001 R 0325 | 63071 9 | 0.125  | 12/120     |
|                                                                                    | U <sub>Bmax</sub><br>440VAC<br>60VDC  | 40                | SH 201-B 40 | 2CDS 211 001 R 0405 | 63073 3 | 0.125  | 12/120     |
|                                                                                    |                                       | 50                | SH 201-B 50 | 2CDS 211 001 R 0505 | 63076 4 | 0.125  | 12/120     |
|                                                                                    |                                       | 63                | SH 201-B 63 | 2CDS 211 001 R 0635 | 63078 6 | 0.125  | 12/120     |
|   | 2                                     | 6                 | SH 202-B 6  | 2CDS 212 001 R 0065 | 63104 4 | 0.250  | 6/60       |
|                                                                                    |                                       | 10                | SH 202-B 10 | 2CDS 212 001 R 0105 | 63107 5 | 0.250  | 6/60       |
|                                                                                    |                                       | 13                | SH 202-B 13 | 2CDS 212 001 R 0135 | 63109 9 | 0.250  | 6/60       |
|                                                                                    |                                       | 16                | SH 202-B 16 | 2CDS 212 001 R 0165 | 63111 2 | 0.250  | 6/60       |
|                                                                                    |                                       | 20                | SH 202-B 20 | 2CDS 212 001 R 0205 | 63113 6 | 0.250  | 6/60       |
|                                                                                    |                                       | 25                | SH 202-B 25 | 2CDS 212 001 R 0255 | 63115 0 | 0.250  | 6/60       |
|                                                                                    |                                       | 32                | SH 202-B 32 | 2CDS 212 001 R 0325 | 63117 4 | 0.250  | 6/60       |
|                                                                                    | U <sub>Bmax</sub><br>440VAC<br>125VDC | 40                | SH 202-B 40 | 2CDS 212 001 R 0405 | 63119 8 | 0.250  | 6/60       |
|                                                                                    |                                       | 50                | SH 202-B 50 | 2CDS 212 001 R 0505 | 63120 6 | 0.250  | 6/60       |
|                                                                                    |                                       | 63                | SH 202-B 63 | 2CDS 212 001 R 0635 | 63121 4 | 0.250  | 6/60       |
|  | 3                                     | 6                 | SH 203-B 6  | 2CDS 213 001 R 0065 | 63127 3 | 0.375  | 4/40       |
|                                                                                    |                                       | 10                | SH 203-B 10 | 2CDS 213 001 R 0105 | 63130 3 | 0.375  | 4/40       |
|                                                                                    |                                       | 13                | SH 203-B 13 | 2CDS 213 001 R 0135 | 63132 7 | 0.375  | 4/40       |
|                                                                                    |                                       | 16                | SH 203-B 16 | 2CDS 213 001 R 0165 | 63134 1 | 0.375  | 4/40       |
|                                                                                    |                                       | 20                | SH 203-B 20 | 2CDS 213 001 R 0205 | 63136 5 | 0.375  | 4/40       |
|                                                                                    |                                       | 25                | SH 203-B 25 | 2CDS 213 001 R 0255 | 63138 9 | 0.375  | 4/40       |
|                                                                                    |                                       | 32                | SH 203-B 32 | 2CDS 213 001 R 0325 | 63140 2 | 0.375  | 4/40       |
|                                                                                    | U <sub>Bmax</sub><br>440VAC           | 40                | SH 203-B 40 | 2CDS 213 001 R 0405 | 63142 6 | 0.375  | 4/40       |
|                                                                                    |                                       | 50                | SH 203-B 50 | 2CDS 213 001 R 0505 | 63144 0 | 0.375  | 4/40       |
|                                                                                    |                                       | 63                | SH 203-B 63 | 2CDS 213 001 R 0635 | 63146 4 | 0.375  | 4/40       |
|  | 4                                     | 6                 | SH 204-B 6  | 2CDS 214 001 R 0065 | 63173 0 | 0.500  | 3/30       |
|                                                                                    |                                       | 10                | SH 204-B 10 | 2CDS 214 001 R 0105 | 63176 1 | 0.500  | 3/30       |
|                                                                                    |                                       | 13                | SH 204-B 13 | 2CDS 214 001 R 0135 | 63178 5 | 0.500  | 3/30       |
|                                                                                    |                                       | 16                | SH 204-B 16 | 2CDS 214 001 R 0165 | 63180 8 | 0.500  | 3/30       |
|                                                                                    |                                       | 20                | SH 204-B 20 | 2CDS 214 001 R 0205 | 63182 2 | 0.500  | 3/30       |
|                                                                                    |                                       | 25                | SH 204-B 25 | 2CDS 214 001 R 0255 | 63184 6 | 0.500  | 3/30       |
|                                                                                    |                                       | 32                | SH 204-B 32 | 2CDS 214 001 R 0325 | 63186 0 | 0.500  | 3/30       |
|                                                                                    | U <sub>Bmax</sub><br>440VAC<br>125VDC | 40                | SH 204-B 40 | 2CDS 214 001 R 0405 | 63188 4 | 0.500  | 3/30       |
|                                                                                    |                                       | 50                | SH 204-B 50 | 2CDS 214 001 R 0505 | 63190 2 | 0.500  | 3/30       |
|                                                                                    |                                       | 63                | SH 204-B 63 | 2CDS 214 001 R 0635 | 63192 6 | 0.500  | 3/30       |

# Miniature Circuit Breakers, SH 200 Series, Resin Type

## SH 200 C Characteristic

Applications: Buildings, both residential and commercial;

Standard: IEC/EN 60898;

Function: Protection and control of the circuits against overloads and short-circuits, protection for resistive and inductive loads with low inrush current;

Icn=6kA;

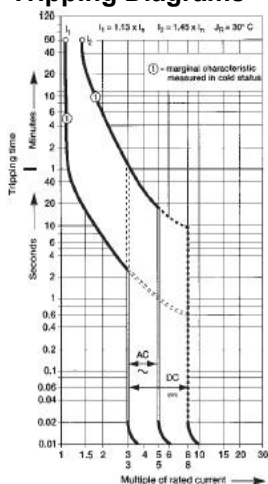
|                                                                                    | Number of Poles                       | Rated Current, In | Type Code   | Order Code          | bbn     | Weight | Units/Pack |
|------------------------------------------------------------------------------------|---------------------------------------|-------------------|-------------|---------------------|---------|--------|------------|
|    | 1                                     | 6                 | SH 201-C 6  | 2CDS 211 001 R 0064 | 63057 3 | 0.125  | 12/120     |
|                                                                                    |                                       | 10                | SH 201-C 10 | 2CDS 211 001 R 0104 | 63060 3 | 0.125  | 12/120     |
|                                                                                    |                                       | 13                | SH 201-C 13 | 2CDS 211 001 R 0134 | 63062 7 | 0.125  | 12/120     |
|                                                                                    |                                       | 16                | SH 201-C 16 | 2CDS 211 001 R 0164 | 63064 1 | 0.125  | 12/120     |
|                                                                                    |                                       | 20                | SH 201-C 20 | 2CDS 211 001 R 0204 | 63066 5 | 0.125  | 12/120     |
|                                                                                    |                                       | 25                | SH 201-C 25 | 2CDS 211 001 R 0254 | 63068 9 | 0.125  | 12/120     |
|                                                                                    |                                       | 32                | SH 201-C 32 | 2CDS 211 001 R 0324 | 63070 2 | 0.125  | 12/120     |
|                                                                                    | U <sub>Bmax</sub><br>440VAC<br>60VDC  | 40                | SH 201-C 40 | 2CDS 211 001 R 0404 | 63072 6 | 0.125  | 12/120     |
|                                                                                    |                                       | 50                | SH 201-C 50 | 2CDS 211 001 R 0504 | 63075 0 | 0.125  | 12/120     |
|                                                                                    |                                       | 63                | SH 201-C 63 | 2CDS 211 001 R 0634 | 63077 4 | 0.125  | 12/120     |
|   | 2                                     | 6                 | SH 202-C 6  | 2CDS 212 001 R 0064 | 63103 7 | 0.250  | 6/60       |
|                                                                                    |                                       | 10                | SH 202-C 10 | 2CDS 212 001 R 0104 | 63106 8 | 0.250  | 6/60       |
|                                                                                    |                                       | 13                | SH 202-C 13 | 2CDS 212 001 R 0134 | 63108 2 | 0.250  | 6/60       |
|                                                                                    |                                       | 16                | SH 202-C 16 | 2CDS 212 001 R 0164 | 63110 5 | 0.250  | 6/60       |
|                                                                                    |                                       | 20                | SH 202-C 20 | 2CDS 212 001 R 0204 | 63112 9 | 0.250  | 6/60       |
|                                                                                    |                                       | 25                | SH 202-C 25 | 2CDS 212 001 R 0254 | 63114 3 | 0.250  | 6/60       |
|                                                                                    |                                       | 32                | SH 202-C 32 | 2CDS 212 001 R 0324 | 63116 7 | 0.250  | 6/60       |
|                                                                                    | U <sub>Bmax</sub><br>440VAC<br>125VDC | 40                | SH 202-C 40 | 2CDS 212 001 R 0404 | 63118 1 | 0.250  | 6/60       |
|                                                                                    |                                       | 50                | SH 202-C 50 | 2CDS 212 001 R 0504 | 63119 5 | 0.250  | 6/60       |
|                                                                                    |                                       | 63                | SH 202-C 63 | 2CDS 212 001 R 0634 | 63120 9 | 0.250  | 6/60       |
|  | 3                                     | 6                 | SH 203-C 6  | 2CDS 213 001 R 0064 | 63057 3 | 0.375  | 4/40       |
|                                                                                    |                                       | 10                | SH 203-C 10 | 2CDS 213 001 R 0104 | 63060 3 | 0.375  | 4/40       |
|                                                                                    |                                       | 13                | SH 203-C 13 | 2CDS 213 001 R 0134 | 63062 7 | 0.375  | 4/40       |
|                                                                                    |                                       | 16                | SH 203-C 16 | 2CDS 213 001 R 0164 | 63064 1 | 0.375  | 4/40       |
|                                                                                    |                                       | 20                | SH 203-C 20 | 2CDS 213 001 R 0204 | 63066 5 | 0.375  | 4/40       |
|                                                                                    |                                       | 25                | SH 203-C 25 | 2CDS 213 001 R 0254 | 63068 9 | 0.375  | 4/40       |
|                                                                                    |                                       | 32                | SH 203-C 32 | 2CDS 213 001 R 0324 | 63070 2 | 0.375  | 4/40       |
|                                                                                    | U <sub>Bmax</sub><br>440VAC           | 40                | SH 203-C 40 | 2CDS 213 001 R 0404 | 63072 6 | 0.375  | 4/40       |
|                                                                                    |                                       | 50                | SH 203-C 50 | 2CDS 213 001 R 0504 | 63075 0 | 0.375  | 4/40       |
|                                                                                    |                                       | 63                | SH 203-C 63 | 2CDS 213 001 R 0634 | 63077 4 | 0.375  | 4/40       |
|  | 4                                     | 6                 | SH 204-C 6  | 2CDS 214 001 R 0064 | 63057 3 | 0.500  | 3/30       |
|                                                                                    |                                       | 10                | SH 204-C 10 | 2CDS 214 001 R 0104 | 63060 3 | 0.500  | 3/30       |
|                                                                                    |                                       | 13                | SH 204-C 13 | 2CDS 214 001 R 0134 | 63062 7 | 0.500  | 3/30       |
|                                                                                    |                                       | 16                | SH 204-C 16 | 2CDS 214 001 R 0164 | 63064 1 | 0.500  | 3/30       |
|                                                                                    |                                       | 20                | SH 204-C 20 | 2CDS 214 001 R 0204 | 63066 5 | 0.500  | 3/30       |
|                                                                                    |                                       | 25                | SH 204-C 25 | 2CDS 214 001 R 0254 | 63068 9 | 0.500  | 3/30       |
|                                                                                    |                                       | 32                | SH 204-C 32 | 2CDS 214 001 R 0324 | 63070 2 | 0.500  | 3/30       |
|                                                                                    | U <sub>Bmax</sub><br>440VAC<br>125VDC | 40                | SH 204-C 40 | 2CDS 214 001 R 0404 | 63072 6 | 0.500  | 3/30       |
|                                                                                    |                                       | 50                | SH 204-C 50 | 2CDS 214 001 R 0504 | 63075 0 | 0.500  | 3/30       |
|                                                                                    |                                       | 63                | SH 204-C 63 | 2CDS 214 001 R 0634 | 63077 4 | 0.500  | 3/30       |

## Miniature Circuit Breakers, SH 200 Series, Thermoplastic Type

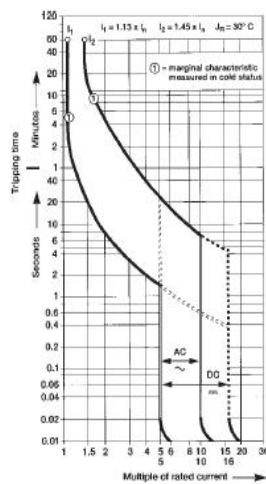
Compact Home

|                       |                                                      |                                                         | SH 200 T                                                 | SH 200 L        | SH 200 |        |
|-----------------------|------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|-----------------|--------|--------|
| Mechanical Features   | Toggle                                               | black sealable in On-Off position                       |                                                          |                 |        |        |
|                       | Mechanical Life/Operations                           | 20000                                                   |                                                          |                 |        |        |
|                       | Protection Degree/Operations                         | Housing                                                 | IP4X                                                     |                 |        |        |
|                       |                                                      | Terminals                                               | IP2X                                                     |                 |        |        |
|                       | Mechanical Shock Resistance                          | 30 g - 2 shocks - duration 11 ms                        |                                                          |                 |        |        |
|                       | Resistance to Vibrations acc. to IEC 60060-2-6       | 5 g - 20 cycles at frequency 5...150...5 Hz with 0.8xIn |                                                          |                 |        |        |
|                       | Tropicalization                                      | Humid Heat                                              | 28 cycles with 55/95...100                               |                 |        |        |
|                       | According to IEC/EN 60068-2                          | Constant Climatic Conditions °C/RH                      | 23/28 - 40/93 - 55/20                                    |                 |        |        |
|                       | Variable Climatic Conditions                         | 25/95 - 40/95                                           |                                                          |                 |        |        |
| Electrical Features   | Reference Temperature for Setting of Thermal Element | °C                                                      | 30                                                       |                 |        |        |
|                       | Ambient Temperature (with Daily Averages ≤ +35°C IEC | °C                                                      | -25...+55                                                |                 |        |        |
|                       | Storage Temperature                                  | °C                                                      | -40...+70                                                |                 |        |        |
|                       | Standards                                            | IEC/EN 60898                                            |                                                          |                 |        |        |
|                       | Poles                                                | 1, 2, 3, 4, 1+NA, 3+NA                                  |                                                          |                 |        |        |
|                       | Rated Current, In                                    | A                                                       | 6-63                                                     |                 |        |        |
|                       | Rated Voltage, Ue                                    | IEC, 1P, 1P+N                                           | V                                                        | 230             |        |        |
|                       |                                                      | IEC, 2P, 3P, 4P, 3P+N                                   | V                                                        | 230/400         |        |        |
|                       | Insulation Voltage, Ui                               |                                                         | V                                                        | 250             |        |        |
|                       | Maximum Operating Voltage, Ub Max                    | IEC AC                                                  | V                                                        | 254/440         |        |        |
|                       | Minimum Operating Voltage, Ub Min                    |                                                         | V                                                        | 12VAC - 12VDC   |        |        |
|                       | Rated Frequency                                      |                                                         | Hz                                                       | 50...60         |        |        |
|                       | Rated Breaking Capacity                              | Ultimate Icn                                            | A                                                        | 3000            | 4500   | 6000   |
|                       | Rated Impulse Withstand Voltage, Uimp                |                                                         | kV                                                       | 4               |        |        |
|                       | Dielectric Strength at Power Frequency for 1 Min     |                                                         | kV                                                       | 2.5             |        |        |
|                       | Overvoltage Category                                 |                                                         |                                                          | III             |        |        |
|                       | Pollution Degree                                     |                                                         |                                                          | 2               |        |        |
|                       | Installation                                         | Thermomagnetic Release Characteristic                   | B: 3 In ≤ Im ≤ 5 In<br>C: 5In ≤ Im ≤ 10 In               | •<br>•          | •<br>• | •<br>• |
|                       |                                                      | Terminal Type                                           |                                                          | Cage Terminal   |        |        |
|                       |                                                      | Terminal Size Top/Bottom for Cable                      | IEC                                                      | mm <sup>2</sup> | 25/25  |        |
|                       |                                                      | UL/CSA                                                  | AWG                                                      | 18-4            |        |        |
| Tightening Torque     |                                                      | IEC                                                     | N*m                                                      | 2.5             |        |        |
|                       |                                                      | UL/CSA                                                  | in-lbs.                                                  | 22              |        |        |
| Tool                  |                                                      |                                                         | Nr. 2 Pozidriv                                           |                 |        |        |
| Mounting              |                                                      |                                                         | On DIN Rail EN 60715 (35mm) by Means of fast Clip Device |                 |        |        |
| Mounting Position     |                                                      |                                                         | Optional                                                 |                 |        |        |
| Connection            |                                                      |                                                         | From Top and Bottom                                      |                 |        |        |
| Dimensions and Weight | Pole Dimensions, H x D x W                           | mm                                                      | 85 x 69 x 17.5                                           |                 |        |        |
|                       | Pole Weight                                          | g                                                       | 125                                                      |                 |        |        |

## Tripping Diagrams



Tripping characteristic B  
according to Din VDE 0641 part 11  
In=6...63A  
SH 200T/SH 200L/SH 200



Tripping characteristic C  
according to Din VDE 0641 part 11  
In=6...63A  
SH 200T/SH 200L/SH 200

# Miniature Circuit Breakers, SH 200 Series, Thermoplastic Type

## SH 200 B Characteristic

Applications: Buildings, both residential and commercial;

Standard: IEC/EN 60898;

Function: Protection and control of the circuits against overloads and short-circuits, protection for resistive and inductive loads with low inrush current;

Icn=6kA;

|                                                                                    | Number of Poles                       | Rated Current, In | Type Code   | Order Code          | bbn     | Weight | Units/Pack |
|------------------------------------------------------------------------------------|---------------------------------------|-------------------|-------------|---------------------|---------|--------|------------|
|    | 1                                     | 6                 | SH 201-B 6  | 2CDS 211 001 R 0065 | 63058 0 | 0.115  | 12/120     |
|                                                                                    |                                       | 10                | SH 201-B 10 | 2CDS 211 001 R 0105 | 63061 0 | 0.115  | 12/120     |
|                                                                                    |                                       | 13                | SH 201-B 13 | 2CDS 211 001 R 0135 | 63063 4 | 0.115  | 12/120     |
|                                                                                    |                                       | 16                | SH 201-B 16 | 2CDS 211 001 R 0165 | 63065 8 | 0.115  | 12/120     |
|                                                                                    |                                       | 20                | SH 201-B 20 | 2CDS 211 001 R 0205 | 63067 2 | 0.115  | 12/120     |
|                                                                                    |                                       | 25                | SH 201-B 25 | 2CDS 211 001 R 0255 | 63069 6 | 0.115  | 12/120     |
|                                                                                    |                                       | 32                | SH 201-B 32 | 2CDS 211 001 R 0325 | 63071 9 | 0.115  | 12/120     |
|                                                                                    |                                       | 40                | SH 201-B 40 | 2CDS 211 001 R 0405 | 63073 3 | 0.115  | 12/120     |
|                                                                                    | U <sub>Bmax</sub><br>440VAC<br>60VDC  | 50                | SH 201-B 50 | 2CDS 211 001 R 0505 | 63076 4 | 0.115  | 12/120     |
|                                                                                    |                                       | 63                | SH 201-B 63 | 2CDS 211 001 R 0635 | 63078 6 | 0.115  | 12/120     |
|   | 2                                     | 6                 | SH 202-B 6  | 2CDS 212 001 R 0065 | 63104 4 | 0.230  | 6/60       |
|                                                                                    |                                       | 10                | SH 202-B 10 | 2CDS 212 001 R 0105 | 63107 5 | 0.230  | 6/60       |
|                                                                                    |                                       | 13                | SH 202-B 13 | 2CDS 212 001 R 0135 | 63109 9 | 0.230  | 6/60       |
|                                                                                    |                                       | 16                | SH 202-B 16 | 2CDS 212 001 R 0165 | 63111 2 | 0.230  | 6/60       |
|                                                                                    |                                       | 20                | SH 202-B 20 | 2CDS 212 001 R 0205 | 63113 6 | 0.230  | 6/60       |
|                                                                                    |                                       | 25                | SH 202-B 25 | 2CDS 212 001 R 0255 | 63115 0 | 0.230  | 6/60       |
|                                                                                    |                                       | 32                | SH 202-B 32 | 2CDS 212 001 R 0325 | 63117 4 | 0.230  | 6/60       |
|                                                                                    |                                       | 40                | SH 202-B 40 | 2CDS 212 001 R 0405 | 63119 8 | 0.230  | 6/60       |
|                                                                                    | U <sub>Bmax</sub><br>440VAC<br>125VDC | 50                | SH 202-B 50 | 2CDS 212 001 R 0505 | 63120 6 | 0.230  | 6/60       |
|                                                                                    |                                       | 63                | SH 202-B 63 | 2CDS 212 001 R 0635 | 63121 4 | 0.230  | 6/60       |
|  | 3                                     | 6                 | SH 203-B 6  | 2CDS 213 001 R 0065 | 63127 3 | 0.345  | 4/40       |
|                                                                                    |                                       | 10                | SH 203-B 10 | 2CDS 213 001 R 0105 | 63130 3 | 0.345  | 4/40       |
|                                                                                    |                                       | 13                | SH 203-B 13 | 2CDS 213 001 R 0135 | 63132 7 | 0.345  | 4/40       |
|                                                                                    |                                       | 16                | SH 203-B 16 | 2CDS 213 001 R 0165 | 63134 1 | 0.345  | 4/40       |
|                                                                                    |                                       | 20                | SH 203-B 20 | 2CDS 213 001 R 0205 | 63136 5 | 0.345  | 4/40       |
|                                                                                    |                                       | 25                | SH 203-B 25 | 2CDS 213 001 R 0255 | 63138 9 | 0.345  | 4/40       |
|                                                                                    |                                       | 32                | SH 203-B 32 | 2CDS 213 001 R 0325 | 63140 2 | 0.345  | 4/40       |
|                                                                                    |                                       | 40                | SH 203-B 40 | 2CDS 213 001 R 0405 | 63142 6 | 0.345  | 4/40       |
|                                                                                    | U <sub>Bmax</sub><br>440VAC           | 50                | SH 203-B 50 | 2CDS 213 001 R 0505 | 63144 0 | 0.345  | 4/40       |
|                                                                                    |                                       | 63                | SH 203-B 63 | 2CDS 213 001 R 0635 | 63146 4 | 0.345  | 4/40       |
|  | 4                                     | 6                 | SH 204-B 6  | 2CDS 214 001 R 0065 | 63173 0 | 0.460  | 3/30       |
|                                                                                    |                                       | 10                | SH 204-B 10 | 2CDS 214 001 R 0105 | 63176 1 | 0.460  | 3/30       |
|                                                                                    |                                       | 13                | SH 204-B 13 | 2CDS 214 001 R 0135 | 63178 5 | 0.460  | 3/30       |
|                                                                                    |                                       | 16                | SH 204-B 16 | 2CDS 214 001 R 0165 | 63180 8 | 0.460  | 3/30       |
|                                                                                    |                                       | 20                | SH 204-B 20 | 2CDS 214 001 R 0205 | 63182 2 | 0.460  | 3/30       |
|                                                                                    |                                       | 25                | SH 204-B 25 | 2CDS 214 001 R 0255 | 63184 6 | 0.460  | 3/30       |
|                                                                                    |                                       | 32                | SH 204-B 32 | 2CDS 214 001 R 0325 | 63186 0 | 0.460  | 3/30       |
|                                                                                    |                                       | 40                | SH 204-B 40 | 2CDS 214 001 R 0405 | 63188 4 | 0.460  | 3/30       |
|                                                                                    | U <sub>Bmax</sub><br>440VAC<br>125VDC | 50                | SH 204-B 50 | 2CDS 214 001 R 0505 | 63190 2 | 0.460  | 3/30       |
|                                                                                    |                                       | 63                | SH 204-B 63 | 2CDS 214 001 R 0635 | 63192 6 | 0.460  | 3/30       |

# Miniature Circuit Breakers, SH 200 Series, Thermoplastic Type

## SH 200 C Characteristic

Applications: Buildings, both residential and commercial;

Standard: IEC/EN 60898;

Function: Protection and control of the circuits against overloads and short-circuits, protection for resistive and inductive loads with low inrush current;

Icn=6kA;

|                                                                                    | Number of Poles                       | Rated Current, In | Type Code   | Order Code          | bbn     | Weight | Units/Pack |
|------------------------------------------------------------------------------------|---------------------------------------|-------------------|-------------|---------------------|---------|--------|------------|
|    | 1                                     | 6                 | SH 201-C 6  | 2CDS 211 001 R 0064 | 63057 3 | 0.115  | 12/120     |
|                                                                                    |                                       | 10                | SH 201-C 10 | 2CDS 211 001 R 0104 | 63060 3 | 0.115  | 12/120     |
|                                                                                    |                                       | 13                | SH 201-C 13 | 2CDS 211 001 R 0134 | 63062 7 | 0.115  | 12/120     |
|                                                                                    |                                       | 16                | SH 201-C 16 | 2CDS 211 001 R 0164 | 63064 1 | 0.115  | 12/120     |
|                                                                                    |                                       | 20                | SH 201-C 20 | 2CDS 211 001 R 0204 | 63066 5 | 0.115  | 12/120     |
|                                                                                    |                                       | 25                | SH 201-C 25 | 2CDS 211 001 R 0254 | 63068 9 | 0.115  | 12/120     |
|                                                                                    |                                       | 32                | SH 201-C 32 | 2CDS 211 001 R 0324 | 63070 2 | 0.115  | 12/120     |
|                                                                                    |                                       | 40                | SH 201-C 40 | 2CDS 211 001 R 0404 | 63072 6 | 0.115  | 12/120     |
|                                                                                    | U <sub>Bmax</sub><br>440VAC<br>60VDC  | 50                | SH 201-C 50 | 2CDS 211 001 R 0504 | 63075 0 | 0.115  | 12/120     |
|                                                                                    |                                       | 63                | SH 201-C 63 | 2CDS 211 001 R 0634 | 63077 4 | 0.115  | 12/120     |
|   | 2                                     | 6                 | SH 202-C 6  | 2CDS 212 001 R 0064 | 63103 7 | 0.230  | 6/60       |
|                                                                                    |                                       | 10                | SH 202-C 10 | 2CDS 212 001 R 0104 | 63106 8 | 0.230  | 6/60       |
|                                                                                    |                                       | 13                | SH 202-C 13 | 2CDS 212 001 R 0134 | 63108 2 | 0.230  | 6/60       |
|                                                                                    |                                       | 16                | SH 202-C 16 | 2CDS 212 001 R 0164 | 63110 5 | 0.230  | 6/60       |
|                                                                                    |                                       | 20                | SH 202-C 20 | 2CDS 212 001 R 0204 | 63112 9 | 0.230  | 6/60       |
|                                                                                    |                                       | 25                | SH 202-C 25 | 2CDS 212 001 R 0254 | 63114 3 | 0.230  | 6/60       |
|                                                                                    |                                       | 32                | SH 202-C 32 | 2CDS 212 001 R 0324 | 63116 7 | 0.230  | 6/60       |
|                                                                                    |                                       | 40                | SH 202-C 40 | 2CDS 212 001 R 0404 | 63118 1 | 0.230  | 6/60       |
|                                                                                    | U <sub>Bmax</sub><br>440VAC<br>125VDC | 50                | SH 202-C 50 | 2CDS 212 001 R 0504 | 63119 5 | 0.230  | 6/60       |
|                                                                                    |                                       | 63                | SH 202-C 63 | 2CDS 212 001 R 0634 | 63120 9 | 0.230  | 6/60       |
|  | 3                                     | 6                 | SH 203-C 6  | 2CDS 213 001 R 0064 | 63057 3 | 0.345  | 4/40       |
|                                                                                    |                                       | 10                | SH 203-C 10 | 2CDS 213 001 R 0104 | 63060 3 | 0.345  | 4/40       |
|                                                                                    |                                       | 13                | SH 203-C 13 | 2CDS 213 001 R 0134 | 63062 7 | 0.345  | 4/40       |
|                                                                                    |                                       | 16                | SH 203-C 16 | 2CDS 213 001 R 0164 | 63064 1 | 0.345  | 4/40       |
|                                                                                    |                                       | 20                | SH 203-C 20 | 2CDS 213 001 R 0204 | 63066 5 | 0.345  | 4/40       |
|                                                                                    |                                       | 25                | SH 203-C 25 | 2CDS 213 001 R 0254 | 63068 9 | 0.345  | 4/40       |
|                                                                                    |                                       | 32                | SH 203-C 32 | 2CDS 213 001 R 0324 | 63070 2 | 0.345  | 4/40       |
|                                                                                    |                                       | 40                | SH 203-C 40 | 2CDS 213 001 R 0404 | 63072 6 | 0.345  | 4/40       |
|                                                                                    | U <sub>Bmax</sub><br>440VAC           | 50                | SH 203-C 50 | 2CDS 213 001 R 0504 | 63075 0 | 0.345  | 4/40       |
|                                                                                    |                                       | 63                | SH 203-C 63 | 2CDS 213 001 R 0634 | 63077 4 | 0.345  | 4/40       |
|  | 4                                     | 6                 | SH 204-C 6  | 2CDS 214 001 R 0064 | 63057 3 | 0.460  | 3/30       |
|                                                                                    |                                       | 10                | SH 204-C 10 | 2CDS 214 001 R 0104 | 63060 3 | 0.460  | 3/30       |
|                                                                                    |                                       | 13                | SH 204-C 13 | 2CDS 214 001 R 0134 | 63062 7 | 0.460  | 3/30       |
|                                                                                    |                                       | 16                | SH 204-C 16 | 2CDS 214 001 R 0164 | 63064 1 | 0.460  | 3/30       |
|                                                                                    |                                       | 20                | SH 204-C 20 | 2CDS 214 001 R 0204 | 63066 5 | 0.460  | 3/30       |
|                                                                                    |                                       | 25                | SH 204-C 25 | 2CDS 214 001 R 0254 | 63068 9 | 0.460  | 3/30       |
|                                                                                    |                                       | 32                | SH 204-C 32 | 2CDS 214 001 R 0324 | 63070 2 | 0.460  | 3/30       |
|                                                                                    |                                       | 40                | SH 204-C 40 | 2CDS 214 001 R 0404 | 63072 6 | 0.460  | 3/30       |
|                                                                                    | U <sub>Bmax</sub><br>440VAC<br>125VDC | 50                | SH 204-C 50 | 2CDS 214 001 R 0504 | 63075 0 | 0.460  | 3/30       |
|                                                                                    |                                       | 63                | SH 204-C 63 | 2CDS 214 001 R 0634 | 63077 4 | 0.460  | 3/30       |

**Miniature Circuit Breakers, C60N**

Intended for use within equipment where branch circuit protection is already provided or not needed.

- Range from 6 to 63A;
- 10k AIR @120/240VAC, 5k AIR @480Y/277;
- Suitable for reverse feeding;
- DIN mounting for easy installation;
- A wide range of electrical and mechanical accessories;

- Trip-free mechanism
- Positive indication of contact disconnect

|   | Use                     | Magnetic Release        |
|---|-------------------------|-------------------------|
| B | For sensitive equipment | 3.2-4.8 x ampere rating |
| C | For typical loads       | 7-10 x ampere rating    |
| D | For high inrush         | 10-14 x ampere rating   |



1P



2P



3P



4P

| Rating, A                                                        | 1P      | 2P      | 3P      | 4P      |
|------------------------------------------------------------------|---------|---------|---------|---------|
| B Curve-magnetic Setting Between 3.2 and 4.8 Times Ampere Rating |         |         |         |         |
| 6                                                                | MG24114 | MG24129 | MG24144 | MG24159 |
| 10                                                               | MG24116 | MG24131 | MG24146 | MG24161 |
| 16                                                               | MG24118 | MG24133 | MG24148 | MG24163 |
| 20                                                               | MG24119 | MG24134 | MG24149 | MG24164 |
| 25                                                               | MG24120 | MG24135 | MG24150 | MG24165 |
| 32                                                               | MG24121 | MG24136 | MG24151 | MG24166 |
| 40                                                               | MG24122 | MG24137 | MG24152 | MG24167 |
| 50                                                               | MG24123 | MG24138 | MG24153 | MG24168 |
| 63                                                               | MG24124 | MG24139 | MG24154 | MG24169 |
| C Curve-magnetic Setting Between 7 and 10 Times Ampere Rating    |         |         |         |         |
| 6                                                                | MG24430 | MG24447 | MG24464 | MG24481 |
| 10                                                               | MG24432 | MG24449 | MG24466 | MG24483 |
| 16                                                               | MG24434 | MG24451 | MG24468 | MG24485 |
| 20                                                               | MG24435 | MG24452 | MG24469 | MG24486 |
| 25                                                               | MG24436 | MG24453 | MG24470 | MG24487 |
| 32                                                               | MG24437 | MG24454 | MG24471 | MG24488 |
| 40                                                               | MG24438 | MG24455 | MG24472 | MG24489 |
| 50                                                               | MG24439 | MG24456 | MG24473 | MG24490 |
| 63                                                               | MG24440 | MG24457 | MG24474 | MG24491 |

**Miniature Circuit Breakers, NC100H**

Bimetals are used to provide adequate overload protection ■ Auxiliary switch (OF)

and can withstand high inrush due to motor starting or other ■ Alarm switch (SD)

transients without nuisance tripping, bimetals prevent circuit

breaker from reclosing before a cool-down time for loads, Several Tripping curves are available to match high speed magnetic trip device is used to provide short-circuit the level of protection needed:

|   | Use                 | Magnetic Release        |
|---|---------------------|-------------------------|
| B | For computers etc   | 3.2-4.8 x ampere rating |
| C | For general purpose | 7-10 x ampere rating    |
| D | For motors etc      | 10-14 x ampere rating   |

| Rating, A                                                        | 1P      | 2P      | 3P      | 4P      |
|------------------------------------------------------------------|---------|---------|---------|---------|
| B Curve-magnetic Setting Between 3.2 and 4.8 Times Ampere Rating |         |         |         |         |
| 63                                                               | MG27208 | MG27219 | MG27230 | MG27241 |
| 80                                                               | MG27209 | MG27220 | MG27231 | MG27242 |
| 100                                                              | MG27210 | MG27221 | MG27232 | MG27243 |
| 125                                                              | MG27211 | MG27222 | MG27233 | MG27244 |
| C Curve-magnetic Setting Between 7 and 10 Times Ampere Rating    |         |         |         |         |
| 63                                                               | MG27252 | MG27263 | MG27274 | MG27285 |
| 80                                                               | MG27253 | MG27264 | MG27275 | MG27286 |
| 100                                                              | MG27254 | MG27265 | MG27276 | MG27287 |
| 125                                                              | MG27255 | MG27266 | MG27277 | MG27288 |
| B Curve-magnetic Setting Between 3.2 and 4.8 Times Ampere Rating |         |         |         |         |
| 63                                                               | MG27296 | MG27307 | MG27318 | MG27329 |
| 80                                                               | MG27297 | MG27308 | MG27319 | MG27330 |
| 100                                                              | MG27298 | MG27309 | MG27320 | MG27331 |



1P



2P



3P



iC60N/1P



iC60N/2P

## Miniature Circuit Breakers, iC60N

iC60N circuit breakers are multi-standard circuit breakers which combine the following functions:

- ☐ Circuit protection against short-circuit currents;
- ☐ Circuit protection against overload currents;
- ☐ Suitable for industrial isolation according to IEC 60947-2 standard;
- ☐ Fault tripping indication by a red mechanical indicator in circuit breaker front face;

### Technical Data

Alternating Current, AC, 50/60Hz

Breaking Capacity, Icu, according to IEC 60947-2

| Voltage, Ue      |            |             |             |      | Service breaking capacity, Ics |
|------------------|------------|-------------|-------------|------|--------------------------------|
| Ph/N, 1P         | 12 to 60V  | 100 to 133V | 200 to 240V | -    | 50% of Icu<br>50% of Icu       |
| Ph/N, 2P, 3P, 4P | 12 to 133V | 220 to 240V | 380 to 415V | 440V |                                |
| Rating, In       | 6 to 40A   | 24kA        | 18kA        | 9kA  |                                |
|                  | 50/63A     | 24kA        | -           | 9kA  | 6kA                            |

### Category Numbers of iC60N

|            | 1P       |          | 2P       |          | 3P       |          | 4P       |          |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Rating, In | B Curve  | C Curve  | B Curve  | C Curve  | B Curve  | C Curve  | B Curve  | C Curve  |
| 6A         | A9F53106 | A9F54106 | A9F53206 | A9F54206 | A9F53306 | A9F54306 | A9F53406 | A9F54406 |
| 10A        | A9F53110 | A9F54110 | A9F53210 | A9F54210 | A9F53310 | A9F54310 | A9F53410 | A9F54410 |
| 16A        | A9F53116 | A9F54116 | A9F53216 | A9F54216 | A9F53316 | A9F54316 | A9F53416 | A9F54416 |
| 20A        | A9F53120 | A9F54120 | A9F53220 | A9F54220 | A9F53320 | A9F54320 | A9F53420 | A9F54420 |
| 25A        | A9F53125 | A9F54125 | A9F53225 | A9F54225 | A9F53325 | A9F54325 | A9F53425 | A9F54425 |
| 32A        | A9F53132 | A9F54132 | A9F53232 | A9F54232 | A9F53332 | A9F54332 | A9F53432 | A9F54432 |
| 40A        | A9F53140 | A9F54140 | A9F53240 | A9F54240 | A9F53340 | A9F54340 | A9F53440 | A9F54440 |
| 50A        | A9F53150 | A9F54150 | A9F53250 | A9F54250 | A9F53350 | A9F54350 | A9F53450 | A9F54450 |
| 63A        | A9F53163 | A9F54163 | A9F53263 | A9F54263 | A9F53363 | A9F54363 | A9F53463 | A9F54463 |

## Miniature Circuit Breakers, C120N

C120N circuit breakers are multi-standard circuit breakers which combine the following functions:

- ☐ Circuit protection against short-circuit currents;
- ☐ Circuit protection against overload currents;
- ☐ Suitable for industrial isolation according to IEC 60947-2 standard;
- ☐ Fault tripping indication by adding auxiliaries;

### Technical Data

Alternating Current, AC, 50/60Hz

Breaking Capacity, Icu, according to IEC 60947-2

| Voltage, Ue |            |             |             |      | Service breaking capacity, Ics |
|-------------|------------|-------------|-------------|------|--------------------------------|
| Type        | 12 to 130V | 220 to 240V | 380 to 415V | 440V | 50% of Icu                     |
| 1P          | 12 to 130V | 220 to 240V | 380 to 415V | 440V |                                |
| Rating, In  | 63 to 125A | 18kA        | 9kA         | 3kA  |                                |
| 2P, 3P, 4P  | 12 to 130V | 220 to 240V | 380 to 415V | 440V | 50% of Icu                     |
| Rating, In  | 63 to 125A | -           | 18kA        | 9kA  |                                |

### Category Numbers of iC120N

|            | 1P       |          | 2P       |          | 3P       |          | 4P       |          |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Rating, In | B Curve  | C Curve  | B Curve  | C Curve  | B Curve  | C Curve  | B Curve  | C Curve  |
| 80A        | A9N18402 | A9N18446 | A9N18413 | A9N18457 | A9N18424 | A9N18468 | A9N18435 | A9N18479 |
| 100A       | A9N18403 | A9N18447 | A9N18414 | A9N18458 | A9N18425 | A9N18469 | A9N18436 | A9N18480 |
| 125A       | A9N18404 | A9N18448 | A9N18415 | A9N18459 | A9N18426 | A9N18470 | A9N18437 | A9N18481 |



DPN



iDPN

## Miniature Circuit Breakers, DPN and iDPN

iDPN circuit breakers are designed for protection against short-circuit and overload current, for the control and disconnection of final distribution circuits in service sector, agricultural and industrial applications, in TT earthing system or with multiple earthed neutral requiring neutral cutoff its protective devices.

### Category Numbers of iDPN

| Rating, In | 6A       | 10A      | 13A      | 16A      | 20A      | 25A      | 32A      | 40A      |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|
| B Curve    | A9N17516 | A9N17517 | A9N17518 | A9N17519 | A9N17520 | A9N17521 | A9N17522 | A9N17523 |
| C Curve    | A9N21555 | A9N21556 | A9N21557 | A9N21558 | A9N21559 | A9N21560 | A9N21561 | A9N21562 |

**QOvs Miniature Circuit Breakers**

- Black in color
- Instantaneous trip level type C
- Indication of tripped circuit breaker on overload or short circuit is by location of the handle in the OFF position & trip status window

In compliance with specifications:

- BS EN 60898, IEC 60898 - Miniature Circuit Breakers, NS EN 60947-3: 1992

Additional safety requirements for disconnectors and switch disconnectors are referred to in BS 7671

**Technical Data**

|                                            |                        |                                     |                             |               |
|--------------------------------------------|------------------------|-------------------------------------|-----------------------------|---------------|
| Insulation voltage, $U_i$                  | 500VAC                 | Rated breaking capacity, $I_{cn}$   | 1P, 240VAC                  | 6,000A        |
| Operational voltage, $U_e$                 | 240/415VAC             |                                     | 2P/3P, 240/415VAC           | 10,000A       |
| Rated impulse withstand voltage, $U_{mip}$ | 4kV as per IEC 60898-1 | Service breaking capacity, $I_{cs}$ |                             | 75% $I_n$     |
| Reference temperature                      | 40°C                   | Degree of protection                | Device in modular enclosure | IP40          |
| Operating frequency                        | 50/60Hz                | Endurance, O-C                      | Mechanical                  | 20,000 cycles |
| Pollution degree                           | 3                      |                                     | Electrical                  | 4,000 cycles  |
| Magnetic tripping, Curve C                 | 5 to 10 $I_n$          |                                     |                             |               |

**Selection Table**  $I_{cn}$ : 6kA, Type C, Instantaneous trip, 5 $I_n$  to 10 $I_n$ 

| Rated Current, A | 1P        | 2P        | 3P        | Terminal Capacity     |
|------------------|-----------|-----------|-----------|-----------------------|
| 10               | QO110VSC6 | QO210VSC6 | QO310VSC6 | 1-25mm <sup>2</sup>   |
| 16               | QO116VSC6 | QO216VSC6 | QO316VSC6 |                       |
| 20               | QO120VSC6 | QO220VSC6 | QO320VSC6 |                       |
| 25               | QO125VSC6 | QO225VSC6 | QO325VSC6 |                       |
| 32               | QO132VSC6 | QO232VSC6 | QO332VSC6 |                       |
| 40               | QO140VSC6 | QO240VSC6 | QO340VSC6 | 2.5-33mm <sup>2</sup> |
| 50               | QO150VSC6 | QO250VSC6 | QO350VSC6 |                       |
| 63               | QO163VSC6 | QO263VSC6 | QO363VSC6 |                       |

QOVS132VSC6

 $I_{cn}$ : 10kA, Type C, Instantaneous trip, 5 $I_n$  to 10 $I_n$ 

| Rated Current, A | 1P         | 2P         | 3P         | Terminal Capacity     |
|------------------|------------|------------|------------|-----------------------|
| 10               | QO110VSC10 | QO210VSC10 | QO310VSC10 | 1-25mm <sup>2</sup>   |
| 16               | QO116VSC10 | QO216VSC10 | QO316VSC10 |                       |
| 20               | QO120VSC10 | QO220VSC10 | QO320VSC10 |                       |
| 25               | QO125VSC10 | QO225VSC10 | QO325VSC10 |                       |
| 32               | QO132VSC10 | QO232VSC10 | QO332VSC10 |                       |
| 40               | QO140VSC10 | QO240VSC10 | QO340VSC10 | 2.5-33mm <sup>2</sup> |
| 50               | QO150VSC10 | QO250VSC10 | QO350VSC10 |                       |
| 63               | QO163VSC10 | QO263VSC10 | QO363VSC10 |                       |

QOVS232VSC10

**Dimensions, mm and Weight, g**

| Poles | A    | B    | C    | D    | E    | Weight |
|-------|------|------|------|------|------|--------|
| 1P    | 78.3 | 18.7 | 58.8 | 51.4 | 86.3 | 104    |
| 2P    | 78.3 | 37.4 | 58.8 | 51.4 | 86.3 | 208    |
| 3P    | 78.3 | 56.1 | 58.8 | 51.4 | 86.3 | 312    |

QOVS332VSC10

## Domae Miniature Circuit Breakers

Domae Miniature Circuit Breakers combine the following functions:

- Short circuit protection
- Overload protection

Domae Miniature Circuit Breakers are designed for all housing and residential applications.

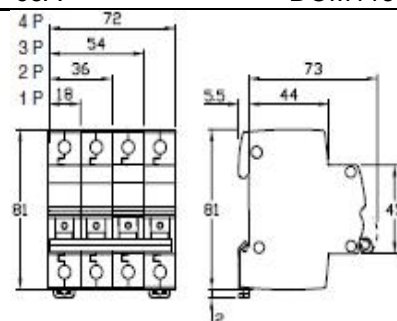
Descriptions:

- Current ratings: 6, 10, 16, 20, 25, 32, 40, 50, 63A;
- C curve: suitable for household applications;
- Breaking capacity: 6kA at 240/415VAC as per IEC 60898;
- Operational voltage: 240/415VAC
- Limitation class: 3
- 2-position handle: On/Off with I/O indicator;
- Clamping screw: screw head 5mm blade or PZ2 recessed;
- Terminal capacity: 25mm<sup>2</sup> max terminals with guards for rigid copper cables;
- Quality mark and approval VDE
- Marking zone: 18x12mm used labels;
- Identification of household range

Selection Table of Domae Miniature Circuit Breakers

|                                                                                                 | Type              | Width in 9mm Module | Rated Current, In | Reference |
|-------------------------------------------------------------------------------------------------|-------------------|---------------------|-------------------|-----------|
| <br>DOM11342  | Domae 1P, Curve C | 2                   | 6A                | DOM11340  |
|                                                                                                 |                   |                     | 10A               | DOM11341  |
|                                                                                                 |                   |                     | 16A               | DOM11342  |
|                                                                                                 |                   |                     | 20A               | DOM11343  |
|                                                                                                 |                   |                     | 25A               | DOM11344  |
|                                                                                                 |                   |                     | 32A               | DOM11345  |
|                                                                                                 |                   |                     | 40A               | DOM11446  |
|                                                                                                 |                   |                     | 50A               | DOM11335  |
| <br>DOM11232 | Domae 2P, Curve C | 4                   | 63A               | DOM11336  |
|                                                                                                 |                   |                     | 6A                | DOM11230  |
|                                                                                                 |                   |                     | 10A               | DOM11231  |
|                                                                                                 |                   |                     | 16A               | DOM11232  |
|                                                                                                 |                   |                     | 20A               | DOM11233  |
|                                                                                                 |                   |                     | 25A               | DOM11234  |
|                                                                                                 |                   |                     | 32A               | DOM11235  |
|                                                                                                 |                   |                     | 40A               | DOM11236  |
| <br>DOM11349 | Domae 3P, Curve C | 6                   | 50A               | DOM11237  |
|                                                                                                 |                   |                     | 63A               | DOM11238  |
|                                                                                                 |                   |                     | 6A                | DOM11347  |
|                                                                                                 |                   |                     | 10A               | DOM11348  |
|                                                                                                 |                   |                     | 16A               | DOM11349  |
|                                                                                                 |                   |                     | 20A               | DOM11350  |
|                                                                                                 |                   |                     | 25A               | DOM11351  |
|                                                                                                 |                   |                     | 32A               | DOM11352  |
|                                                                                                 |                   |                     | 40A               | DOM11353  |
|                                                                                                 |                   |                     | 50A               | DOM11337  |
|                                                                                                 |                   |                     | 63A               | DOM11338  |

Dimensions of Domae Miniature Circuit Breakers, mm

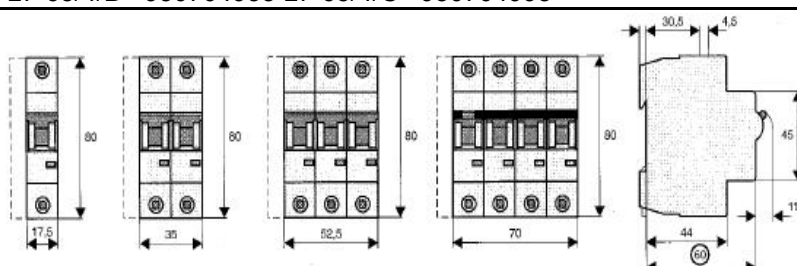


## Miniature Circuit Breakers L7

- Twin purpose terminals, Lift/Open mouthed
  - High selectivity between MCB and back-up fuse due to low let through energy
  - Switch position indicator red-green
  - Switching toggle in rated current color
  - Rated breaking capacity as per IEC/EN 60898: 6kA/10kA
  - Characteristic D for industrial applications
- Note: All L7-MCBs are supplied in standard cardboard box, please take into account packing units cardboard box/ship ping box

|                                                                                              | Rated Current, In | Designation & Code |           | Designation & Code |           | Designation & Code |           | Units/Pack |
|----------------------------------------------------------------------------------------------|-------------------|--------------------|-----------|--------------------|-----------|--------------------|-----------|------------|
| <br>L7, 1P   | <b>1-Pole</b>     | Characteristic B   |           | Characteristic C   |           | Characteristic D   |           |            |
|                                                                                              | 6A                | L7-6/1/B           | 950700124 | L7-6/1/C           | 950700184 | L7-6/1/D           | 952700104 | 12/120     |
|                                                                                              | 10A               | L7-10/1/B          | 950700126 | L7-10/1/C          | 950700186 | L7-10/1/D          | 952700106 | 12/120     |
|                                                                                              | 13A               | L7-13/1/B          | 950700127 | L7-13/1/C          | 950700187 | L7-13/1/D          | 952700107 | 12/120     |
|                                                                                              | 16A               | L7-16/1/B          | 950700129 | L7-16/1/C          | 950700189 | L7-16/1/D          | 952700109 | 12/120     |
|                                                                                              | 20A               | L7-20/1/B          | 950700130 | L7-20/1/C          | 950700190 | L7-20/1/D          | 952700110 | 12/120     |
|                                                                                              | 25A               | L7-25/1/B          | 950700131 | L7-25/1/C          | 950700191 | L7-25/1/D          | 952700111 | 12/120     |
|                                                                                              | 32A               | L7-32/1/B          | 950700132 | L7-32/1/C          | 950700192 | L7-32/1/D          | 952700112 | 12/120     |
|                                                                                              | 40A               | L7-40/1/B          | 950700133 | L7-40/1/C          | 950700193 | L7-40/1/D          | 952700113 | 12/120     |
|                                                                                              | 50A               | L7-50/1/B          | 950700134 | L7-50/1/C          | 950700194 | -                  | -         | 12/120     |
|                                                                                              | 63A               | L7-63/1/B          | 950700135 | L7-63/1/C          | 950700195 | -                  | -         | 12/120     |
| <br>L7, 2P   | <b>2-pole</b>     | L7-6/2/B           |           | L7-6/2/C           |           | L7-6/2/D           |           | 6/60       |
|                                                                                              | 6A                | L7-10/2/B          |           | L7-10/2/C          |           | L7-10/2/D          |           | 6/60       |
|                                                                                              | 10A               | L7-13/2/B          |           | L7-13/2/C          |           | L7-13/2/D          |           | 6/60       |
|                                                                                              | 13A               | L7-16/2/B          |           | L7-16/2/C          |           | L7-16/2/D          |           | 6/60       |
|                                                                                              | 16A               | L7-20/2/B          |           | L7-20/2/C          |           | L7-20/2/D          |           | 6/60       |
|                                                                                              | 20A               | L7-25/2/B          |           | L7-25/2/C          |           | L7-25/2/D          |           | 6/60       |
|                                                                                              | 25A               | L7-32/2/B          |           | L7-32/2/C          |           | L7-32/2/D          |           | 6/60       |
|                                                                                              | 32A               | L7-40/2/B          |           | L7-40/2/C          |           | L7-40/2/D          |           | 6/60       |
|                                                                                              | 40A               | L7-50/2/B          |           | L7-50/2/C          |           | L7-50/2/D          |           | 6/60       |
|                                                                                              | 50A               | L7-63/2/B          |           | L7-63/2/C          |           | L7-63/2/D          |           | 6/60       |
|                                                                                              | 63A               |                    |           |                    |           |                    |           | 6/60       |
| <br>L7, 3P | <b>3-pole</b>     | L7-6/3/B           |           | L7-6/3/C           |           | L7-6/3/D           |           | 4/40       |
|                                                                                              | 6A                | L7-10/3/B          |           | L7-10/3/C          |           | L7-10/3/D          |           | 4/40       |
|                                                                                              | 10A               | L7-13/3/B          |           | L7-13/3/C          |           | L7-13/3/D          |           | 4/40       |
|                                                                                              | 13A               | L7-16/3/B          |           | L7-16/3/C          |           | L7-16/3/D          |           | 4/40       |
|                                                                                              | 16A               | L7-20/3/B          |           | L7-20/3/C          |           | L7-20/3/D          |           | 4/40       |
|                                                                                              | 20A               | L7-25/3/B          |           | L7-25/3/C          |           | L7-25/3/D          |           | 4/40       |
|                                                                                              | 25A               | L7-32/3/B          |           | L7-32/3/C          |           | L7-32/3/D          |           | 4/40       |
|                                                                                              | 32A               | L7-40/3/B          |           | L7-40/3/C          |           | L7-40/3/D          |           | 4/40       |
|                                                                                              | 40A               | L7-50/3/B          |           | L7-50/3/C          |           | L7-50/3/D          |           | 4/40       |
|                                                                                              | 50A               | L7-63/3/B          |           | L7-63/3/C          |           | L7-63/3/D          |           | 4/40       |
|                                                                                              | 63A               |                    |           |                    |           |                    |           | 4/40       |
|                                                                                              | <b>4-pole</b>     | L7-6/4/B           |           | L7-6/4/C           |           | L7-6/4/D           |           | 3/30       |
|                                                                                              | 6A                | L7-10/4/B          |           | L7-10/4/C          |           | L7-10/4/D          |           | 3/30       |
|                                                                                              | 10A               | L7-13/4/B          |           | L7-13/4/C          |           | L7-13/4/D          |           | 3/30       |
|                                                                                              | 13A               | L7-16/4/B          |           | L7-16/4/C          |           | L7-16/4/D          |           | 3/30       |
|                                                                                              | 16A               | L7-20/4/B          |           | L7-20/4/C          |           | L7-20/4/D          |           | 3/30       |
|                                                                                              | 20A               | L7-25/4/B          |           | L7-25/4/C          |           | L7-25/4/D          |           | 3/30       |
|                                                                                              | 25A               | L7-32/4/B          |           | L7-32/4/C          |           | L7-32/4/D          |           | 3/30       |
|                                                                                              | 32A               | L7-40/4/B          |           | L7-40/4/C          |           | L7-40/4/D          |           | 3/30       |
|                                                                                              | 40A               | L7-50/4/B          |           | L7-50/4/C          |           | L7-50/4/D          |           | 3/30       |
|                                                                                              | 50A               | L7-63/4/B          |           | L7-63/4/C          |           | L7-63/4/D          |           | 3/30       |
|                                                                                              | 63A               |                    |           |                    |           |                    |           | 3/30       |

Dimensions, mm



## Miniature Circuit Breakers PL4

- High-quality miniature circuit breakers for commercial and residential applications;
- Contact position indicator red and green;
- Guide for secure terminal connection;
- 3-position DIN rail clip, permits removal from existing busbar system;
- Comprehensive range of accessories suitable for subsequent installation;
- Rated breaking capacity 4.5kA according to IEC/EN 60898-1;

### Miniature Circuit Breakers PL4, 4.5kA

|                                                                                           | Characteristic B  |                    |        | Characteristic C   |        | Units/Pack |
|-------------------------------------------------------------------------------------------|-------------------|--------------------|--------|--------------------|--------|------------|
|                                                                                           | Rated Current, In | Designation & Code |        | Designation & Code |        |            |
| <br>1P   | 1-pole            |                    |        |                    |        |            |
|                                                                                           | 6A                | PL4-B6/1           | 293113 | PL4-C6/1           | 293122 | 12/120     |
|                                                                                           | 8A                | PL4-B8/1           | 164718 | PL4-C8/1           | 164753 | 12/120     |
|                                                                                           | 10A               | PL4-B10/1          | 293114 | PL4-C10/1          | 239123 | 12/120     |
|                                                                                           | 13A               | PL4-B13/1          | 164709 | PL4-C13/1          | 164726 | 12/120     |
|                                                                                           | 16A               | PL4-B16/1          | 293115 | PL4-C16/1          | 293124 | 12/120     |
|                                                                                           | 20A               | PL4-B20/1          | 293116 | PL4-C20/1          | 293125 | 12/120     |
|                                                                                           | 25A               | PL4-B25/1          | 293117 | PL4-C25/1          | 293126 | 12/120     |
|                                                                                           | 32A               | PL4-B32/1          | 293118 | PL4-C32/1          | 293127 | 12/120     |
|                                                                                           | 40A               | PL4-B40/1          | 293119 | PL4-C40/1          | 293128 | 12/120     |
|                                                                                           | 50A               | PL4-B50/1          | 293120 | PL4-C50/1          | 293129 | 12/120     |
|                                                                                           | 63A               | PL4-B63/1          | 293121 | PL4-C63/1          | 293130 | 12/120     |
| <br>2P  | 2-pole            |                    |        |                    |        |            |
|                                                                                           | 6A                | PL4-B6/2           | 293131 | PL4-C6/2           | 293140 | 6/60       |
|                                                                                           | 8A                | PL4-B8/2           | 164783 | PL4-C8/2           | 164800 | 6/60       |
|                                                                                           | 10A               | PL4-B10/2          | 293132 | PL4-C10/2          | 293141 | 6/60       |
|                                                                                           | 13A               | PL4-B13/2          | 164775 | PL4-C13/2          | 164792 | 6/60       |
|                                                                                           | 16A               | PL4-B16/2          | 293133 | PL4-C16/2          | 293142 | 6/60       |
|                                                                                           | 20A               | PL4-B20/2          | 293134 | PL4-C20/2          | 293143 | 6/60       |
|                                                                                           | 25A               | PL4-B25/2          | 293135 | PL4-C25/2          | 293144 | 6/60       |
|                                                                                           | 32A               | PL4-B32/2          | 293136 | PL4-C32/2          | 293145 | 6/60       |
|                                                                                           | 40A               | PL4-B40/2          | 293137 | PL4-C40/2          | 293146 | 6/60       |
|                                                                                           | 50A               | PL4-B50/2          | 293138 | PL4-C50/2          | 293147 | 6/60       |
|                                                                                           | 63A               | PL4-B63/2          | 293139 | PL4-C63/2          | 293148 | 6/60       |
| <br>3P | 3-pole            |                    |        |                    |        |            |
|                                                                                           | 6A                | PL4-B6/3           | 293149 | PL4-C6/3           | 293158 | 4/40       |
|                                                                                           | 8A                | PL4-B8/3           | 164848 | PL4-C8/3           | 164865 | 4/40       |
|                                                                                           | 10A               | PL4-B10/3          | 293150 | PL4-C10/3          | 293159 | 4/40       |
|                                                                                           | 13A               | PL4-B13/3          | 164840 | PL4-C13/3          | 164857 | 4/40       |
|                                                                                           | 16A               | PL4-B16/3          | 293151 | PL4-C16/3          | 293160 | 4/40       |
|                                                                                           | 20A               | PL4-B20/3          | 293152 | PL4-C20/3          | 293161 | 4/40       |
|                                                                                           | 25A               | PL4-B25/3          | 293153 | PL4-C25/3          | 293162 | 4/40       |
|                                                                                           | 32A               | PL4-B32/3          | 293154 | PL4-C32/3          | 293163 | 4/40       |
|                                                                                           | 40A               | PL4-B40/3          | 293155 | PL4-C40/3          | 293164 | 4/40       |
|                                                                                           | 50A               | PL4-B50/3          | 293156 | PL4-C50/3          | 293165 | 4/40       |
|                                                                                           | 63A               | PL4-B63/3          | 293157 | PL4-C63/3          | 293166 | 4/40       |
| <br>4P | 4-pole            |                    |        |                    |        |            |
|                                                                                           | 6A                | PL4-B6/4           | 166458 | PL4-C6/4           | 166484 | 3/30       |
|                                                                                           | 8A                | PL4-B8/4           | 166460 | PL4-C8/4           | 166486 | 3/30       |
|                                                                                           | 10A               | PL4-B10/4          | 166442 | PL4-C10/4          | 166468 | 3/30       |
|                                                                                           | 13A               | PL4-B13/4          | 166444 | PL4-C13/4          | 166470 | 3/30       |
|                                                                                           | 16A               | PL4-B16/4          | 166446 | PL4-C16/4          | 166472 | 3/30       |
|                                                                                           | 20A               | PL4-B20/4          | 166449 | PL4-C20/4          | 166475 | 3/30       |
|                                                                                           | 25A               | PL4-B25/4          | 166450 | PL4-C25/4          | 166476 | 3/30       |
|                                                                                           | 32A               | PL4-B32/4          | 166453 | PL4-C32/4          | 166479 | 3/30       |
|                                                                                           | 40A               | PL4-B40/4          | 166455 | PL4-C40/4          | 166481 | 3/30       |
|                                                                                           | 50A               | PL4-B50/4          | 166457 | PL4-C50/4          | 188483 | 3/30       |
|                                                                                           | 63A               | PL4-B63/4          | 166459 | PL4-C63/4          | 166485 | 3/30       |

Explanation PL4 P=xPole, L=MCB, 4=4.5kA

## Miniature Circuit Breakers PL6

- High-quality miniature circuit breakers for commercial and residential applications;
- Contact position indicator red and green;
- Guide for secure terminal connection;
- 3-position DIN rail clip, permits removal from existing busbar system;
- Comprehensive range of accessories suitable for subsequent installation;
- Rated breaking capacity 6kA according to IEC/EN 60898-1;

| Miniature Circuit Breakers PL6, 6kA                                                      |                   |                    |        |                    |        |                    |        |            |
|------------------------------------------------------------------------------------------|-------------------|--------------------|--------|--------------------|--------|--------------------|--------|------------|
|                                                                                          | Rated Current, In | Designation & Code |        | Designation & Code |        | Designation & Code |        | Units/Pack |
|                                                                                          |                   | Characteristic B   |        | Characteristic C   |        | Characteristic D   |        |            |
| <br>1P   | <b>1-Pole</b>     |                    |        |                    |        |                    |        |            |
|                                                                                          | 6A                | PL6-B6/1           | 286518 | PL6-C6/1           | 286530 | PL6-D6/1           | 286542 | 12/120     |
|                                                                                          | 8A                | PL6-B8/1           | 164745 | PL6-C8/1           | 164759 | PL6-D8/1           | 164770 | 12/120     |
|                                                                                          | 10A               | PL6-B10/1          | 286519 | PL6-C10/1          | 286531 | PL6-D10/1          | 286543 | 12/120     |
|                                                                                          | 13A               | PL6-B13/1          | 286520 | PL6-C13/1          | 286532 | PL6-D13/1          | 286544 | 12/120     |
|                                                                                          | 16A               | PL6-B16/1          | 286521 | PL6-C16/1          | 286533 | PL6-D16/1          | 286545 | 12/120     |
|                                                                                          | 20A               | PL6-B20/1          | 286522 | PL6-C20/1          | 286534 | PL6-D20/1          | 286546 | 12/120     |
|                                                                                          | 25A               | PL6-B25/1          | 286523 | PL6-C25/1          | 286535 | PL6-D25/1          | 286547 | 12/120     |
|                                                                                          | 32A               | PL6-B32/1          | 286524 | PL6-C32/1          | 286536 | PL6-D32/1          | 286548 | 12/120     |
|                                                                                          | 40A               | PL6-B40/1          | 286525 | PL6-C40/1          | 286537 | PL6-D40/1          | 286549 | 12/120     |
|                                                                                          | 50A               | PL6-B50/1          | 286526 | PL6-C50/1          | 286538 | -                  | -      | -          |
|                                                                                          | 63A               | PL6-B63/1          | 286527 | PL6-C63/1          | 286539 | -                  | -      | -          |
| <br>2P  | <b>2-pole</b>     |                    |        |                    |        |                    |        |            |
|                                                                                          | 6A                | PL6-B6/2           | 286552 | PL6-C6/2           | 286564 | PL6-D6/2           | 286576 | 6/60       |
|                                                                                          | 8A                | PL6-B8/2           | 164810 | PL6-C8/2           | 164824 | PL6-D8/2           | 164835 | 6/60       |
|                                                                                          | 10A               | PL6-B10/2          | 286553 | PL6-C10/2          | 286565 | PL6-D10/2          | 286577 | 6/60       |
|                                                                                          | 13A               | PL6-B13/2          | 286554 | PL6-C13/2          | 286566 | PL6-D13/2          | 286578 | 6/60       |
|                                                                                          | 16A               | PL6-B16/2          | 286555 | PL6-C16/2          | 286567 | PL6-D16/2          | 286579 | 6/60       |
|                                                                                          | 20A               | PL6-B20/2          | 286556 | PL6-C20/2          | 286568 | PL6-D20/2          | 286580 | 6/60       |
|                                                                                          | 25A               | PL6-B25/2          | 286557 | PL6-C25/2          | 286569 | PL6-D25/2          | 286581 | 6/60       |
|                                                                                          | 32A               | PL6-B32/2          | 286558 | PL6-C32/2          | 286570 | PL6-D32/2          | 286582 | 6/60       |
|                                                                                          | 40A               | PL6-B40/2          | 286559 | PL6-C40/2          | 286571 | PL6-D40/2          | 286583 | 6/60       |
|                                                                                          | 50A               | PL6-B50/2          | 286560 | PL6-C50/2          | 286572 | -                  | -      | -          |
|                                                                                          | 63A               | PL6-B63/2          | 286561 | PL6-C63/2          | 286573 | -                  | -      | -          |
| <br>3P | <b>3-pole</b>     |                    |        |                    |        |                    |        |            |
|                                                                                          | 6A                | PL6-B6/3           | 286586 | PL6-C6/3           | 286598 | PL6-D6/3           | 286610 | 4/40       |
|                                                                                          | 8A                | PL6-B8/3           | 164875 | PL6-C8/3           | 164889 | PL6-D8/3           | 164900 | 4/40       |
|                                                                                          | 10A               | PL6-B10/3          | 286587 | PL6-C10/3          | 286599 | PL6-D10/3          | 286611 | 4/40       |
|                                                                                          | 13A               | PL6-B13/3          | 286588 | PL6-C13/3          | 286600 | PL6-D13/3          | 286612 | 4/40       |
|                                                                                          | 16A               | PL6-B16/3          | 286589 | PL6-C16/3          | 286601 | PL6-D16/3          | 286613 | 4/40       |
|                                                                                          | 20A               | PL6-B20/3          | 286590 | PL6-C20/3          | 286602 | PL6-D20/3          | 286614 | 4/40       |
|                                                                                          | 25A               | PL6-B25/3          | 286591 | PL6-C25/3          | 286603 | PL6-D25/3          | 286615 | 4/40       |
|                                                                                          | 32A               | PL6-B32/3          | 286592 | PL6-C32/3          | 286604 | PL6-D32/3          | 286616 | 4/40       |
|                                                                                          | 40A               | PL6-B40/3          | 286593 | PL6-C40/3          | 286605 | PL6-D40/3          | 286617 | 4/40       |
|                                                                                          | 50A               | PL6-B50/3          | 286594 | PL6-C50/3          | 286606 | -                  | -      | 4/40       |
|                                                                                          | 63A               | PL6-B63/3          | 286595 | PL6-C63/3          | 286607 | -                  | -      | 4/40       |
| <br>4P | <b>4-pole</b>     |                    |        |                    |        |                    |        |            |
|                                                                                          | 6A                | PL6-B6/4           | 166505 | PL6-C6/4           | 166531 | PL6-D6/4           | 166550 | 3/30       |
|                                                                                          | 8A                | PL6-B8/4           | 166507 | PL6-C8/4           | 166533 | PL6-D8/4           | 166554 | 3/30       |
|                                                                                          | 10A               | PL6-B10/4          | 166490 | PL6-C10/4          | 166515 | PL6-D10/4          | 166538 | 3/30       |
|                                                                                          | 13A               | PL6-B13/4          | 166492 | PL6-C13/4          | 166517 | PL6-D13/4          | 166540 | 3/30       |
|                                                                                          | 16A               | PL6-B16/4          | 166494 | PL6-C16/4          | 166519 | PL6-D16/4          | 166542 | 3/30       |
|                                                                                          | 20A               | PL6-B20/4          | 166497 | PL6-C20/4          | 166522 | PL6-D20/4          | 166545 | 3/30       |
|                                                                                          | 25A               | PL6-B25/4          | 166498 | PL6-C25/4          | 166523 | PL6-D25/4          | 166546 | 3/30       |
|                                                                                          | 32A               | PL6-B32/4          | 166500 | PL6-C32/4          | 166526 | PL6-D32/4          | 166549 | 3/30       |
|                                                                                          | 40A               | PL6-B40/4          | 166502 | PL6-C40/4          | 166528 | PL6-D40/4          | 166551 | 3/30       |
|                                                                                          | 50A               | PL6-B50/4          | 166504 | PL6-C50/4          | 166530 | -                  | -      | -          |
|                                                                                          | 63A               | PL6-B63/4          | 166506 | PL6-C63/4          | 166532 | -                  | -      | -          |

Explanation PL6 P=xPole, L=MCB, 6=6kA

## Miniature Circuit Breakers PL7

- High-quality miniature circuit breakers for commercial and residential applications;
- Contact position indicator red and green;
- Guide for secure terminal connection;
- 3-position DIN rail clip, permits removal from existing busbar system;
- Comprehensive range of accessories suitable for subsequent installation;
- Rated breaking capacity 10kA according to IEC/EN 60898-1;

### Miniature Circuit Breakers PL7, 10kA

|                                                                                          | Rated Current, In | Designation & Code |        | Designation & Code |        | Designation & Code |        | Units/Pack |
|------------------------------------------------------------------------------------------|-------------------|--------------------|--------|--------------------|--------|--------------------|--------|------------|
|                                                                                          |                   | Characteristic B   |        | Characteristic C   |        | Characteristic D   |        |            |
| <br>1P   | <b>1-Pole</b>     |                    |        |                    |        |                    |        |            |
|                                                                                          | 6A                | PL7-B6/1           | 262673 | PL7-C6/1           | 262701 | PL7-D6/1           | 262713 | 12/120     |
|                                                                                          | 8A                | PL7-B8/1           | 165057 | PL7-C8/1           | 165065 | PL7-D8/1           | 165076 | 12/120     |
|                                                                                          | 10A               | PL7-B10/1          | 262674 | PL7-C10/1          | 262702 | PL7-D10/1          | 262714 | 12/120     |
|                                                                                          | 13A               | PL7-B13/1          | 262675 | PL7-C13/1          | 262703 | PL7-D13/1          | 262715 | 12/120     |
|                                                                                          | 16A               | PL7-B16/1          | 262676 | PL7-C16/1          | 262704 | PL7-D16/1          | 262716 | 12/120     |
|                                                                                          | 20A               | PL7-B20/1          | 262677 | PL7-C20/1          | 262705 | PL7-D20/1          | 262717 | 12/120     |
|                                                                                          | 25A               | PL7-B25/1          | 262678 | PL7-C25/1          | 262706 | PL7-D25/1          | 262718 | 12/120     |
|                                                                                          | 32A               | PL7-B32/1          | 262679 | PL7-C32/1          | 262707 | PL7-D32/1          | 262719 | 12/120     |
|                                                                                          | 40A               | PL7-B40/1          | 262690 | PL7-C40/1          | 262708 | PL7-D40/1          | 262720 | 12/120     |
|                                                                                          | 50A               | PL7-B50/1          | 262691 | PL7-C50/1          | 262709 | -                  | -      | -          |
|                                                                                          | 63A               | PL7-B63/1          | 262692 | PL7-C63/1          | 262710 | -                  | -      | -          |
| <br>2P  | <b>2-pole</b>     |                    |        |                    |        |                    |        |            |
|                                                                                          | 6A                | PL7-B6/2           | 262761 | PL7-C6/2           | 263356 | PL7-D6/2           | 263368 | 6/60       |
|                                                                                          | 8A                | PL7-B8/2           | 165088 | PL7-C8/2           | 165100 | PL7-D8/2           | 165109 | 6/60       |
|                                                                                          | 10A               | PL7-B10/2          | 262762 | PL7-C10/2          | 263357 | PL7-D10/2          | 263369 | 6/60       |
|                                                                                          | 13A               | PL7-B13/2          | 262764 | PL7-C13/2          | 263358 | PL7-D13/2          | 263380 | 6/60       |
|                                                                                          | 16A               | PL7-B16/2          | 262765 | PL7-C16/2          | 263359 | PL7-D16/2          | 263381 | 6/60       |
|                                                                                          | 20A               | PL7-B20/2          | 262766 | PL7-C20/2          | 263360 | PL7-D20/2          | 263382 | 6/60       |
|                                                                                          | 25A               | PL7-B25/2          | 262767 | PL7-C25/2          | 263361 | PL7-D25/2          | 263383 | 6/60       |
|                                                                                          | 32A               | PL7-B32/2          | 262768 | PL7-C32/2          | 263362 | PL7-D32/2          | 263384 | 6/60       |
|                                                                                          | 40A               | PL7-B40/2          | 262769 | PL7-C40/2          | 263363 | PL7-D40/2          | 263385 | 6/60       |
|                                                                                          | 50A               | PL7-B50/2          | 263350 | PL7-C50/2          | 263364 | -                  | -      | -          |
|                                                                                          | 63A               | PL7-B63/2          | 263351 | PL7-C63/2          | 263365 | -                  | -      | -          |
| <br>3P | <b>3-pole</b>     |                    |        |                    |        |                    |        |            |
|                                                                                          | 6A                | PL7-B6/3           | 263386 | PL7-C6/3           | 263406 | PL7-D6/3           | 263418 | 4/40       |
|                                                                                          | 8A                | PL7-B8/3           | 165120 | PL7-C8/3           | 165132 | PL7-D8/3           | 165143 | 4/40       |
|                                                                                          | 10A               | PL7-B10/3          | 263387 | PL7-C10/3          | 263407 | PL7-D10/3          | 263419 | 4/40       |
|                                                                                          | 13A               | PL7-B13/3          | 263388 | PL7-C13/3          | 263408 | PL7-D13/3          | 263420 | 4/40       |
|                                                                                          | 16A               | PL7-B16/3          | 263389 | PL7-C16/3          | 263409 | PL7-D16/3          | 263421 | 4/40       |
|                                                                                          | 20A               | PL7-B20/3          | 263390 | PL7-C20/3          | 263410 | PL7-D20/3          | 263422 | 4/40       |
|                                                                                          | 25A               | PL7-B25/3          | 263391 | PL7-C25/3          | 263411 | PL7-D25/3          | 263423 | 4/40       |
|                                                                                          | 32A               | PL7-B32/3          | 263392 | PL7-C32/3          | 263412 | PL7-D32/3          | 263424 | 4/40       |
|                                                                                          | 40A               | PL7-B40/3          | 263393 | PL7-C40/3          | 263413 | PL7-D40/3          | 263425 | 4/40       |
|                                                                                          | 50A               | PL7-B50/3          | 263400 | PL7-C50/3          | 263414 | -                  | -      | -          |
|                                                                                          | 63A               | PL7-B63/3          | 263401 | PL7-C63/3          | 263415 | -                  | -      | -          |
| <br>4P | <b>4-pole</b>     |                    |        |                    |        |                    |        |            |
|                                                                                          | 6A                | PL7-B6/4           | 165163 | PL7-C6/4           | 165188 | PL7-D6/4           | 165210 | 3/30       |
|                                                                                          | 8A                | PL7-B8/4           | 165165 | PL7-C8/4           | 165190 | PL7-D8/4           | 165211 | 3/30       |
|                                                                                          | 10A               | PL7-B10/4          | 165147 | PL7-C10/4          | 165173 | PL7-D10/4          | 165195 | 3/30       |
|                                                                                          | 13A               | PL7-B13/4          | 165149 | PL7-C13/4          | 165175 | PL7-D13/4          | 165197 | 3/30       |
|                                                                                          | 16A               | PL7-B16/4          | 165151 | PL7-C16/4          | 107329 | PL7-D16/4          | 165199 | 3/30       |
|                                                                                          | 20A               | PL7-B20/4          | 165154 | PL7-C20/4          | 165179 | PL7-D20/4          | 165202 | 3/30       |
|                                                                                          | 25A               | PL7-B25/4          | 165155 | PL7-C25/4          | 165180 | PL7-D25/4          | 165203 | 3/30       |
|                                                                                          | 32A               | PL7-B32/4          | 165158 | PL7-C32/4          | 165183 | PL7-D32/4          | 165206 | 3/30       |
|                                                                                          | 40A               | PL7-B40/4          | 165160 | PL7-C40/4          | 165185 | PL7-D40/4          | 165208 | 3/30       |
|                                                                                          | 50A               | PL7-B50/4          | 165162 | PL7-C50/4          | 165187 | PL7-D50/4          | -      | -          |
|                                                                                          | 63A               | PL7-B63/4          | 165164 | PL7-C63/4          | 165189 | PL7-D63/4          | -      | -          |

Explanation PL7 P=xPole, L=MCB, 7=10kA

## Miniature Circuit Breakers PLN4, PLN6

- Top-quality miniature circuit breakers 1P+N with a width of 1 module unit requiring little space for installation;
- Contact position indicator red and green;
- Guide for secure terminal connection;
- Comprehensive range of accessories suitable for subsequent installation;
- Rated currents up to 40A;
- Tripping characteristics B, C
- Rated breaking capacity 4.5/6kA according to IEC/EN 60898-1;

| Miniature Circuit Breakers PLN4 |                  |                |                   | MW |
|---------------------------------|------------------|----------------|-------------------|----|
| 4.5kA, 1+N-pole                 |                  |                |                   |    |
| Rated Current, In, A            | Type Designation | Article Number | Units Per Package |    |
| <b>Characteristic B</b>         |                  |                |                   |    |
| 6                               | PLN4-B6/1N       | 263179         | 12/120            |    |
| 10                              | PLN4-B10/1N      | 263180         | 12/120            |    |
| 13                              | PLN4-B13/1N      | 263181         | 12/120            |    |
| 16                              | PLN4-B16/1N      | 263182         | 12/120            |    |
| 20                              | PLN4-B20/1N      | 263183         | 12/120            |    |
| 25                              | PLN4-B25/1N      | 263184         | 12/120            |    |
| 32                              | PLN4-B32/1N      | 263185         | 12/120            |    |
| 40                              | PLN4-B40/1N      | 263186         | 12/120            |    |



|                         |             |        |        |  |
|-------------------------|-------------|--------|--------|--|
| <b>Characteristic C</b> |             |        |        |  |
| 6                       | PLN4-C6/1N  | 263189 | 12/120 |  |
| 10                      | PLN4-C10/1N | 263190 | 12/120 |  |
| 13                      | PLN4-C13/1N | 263191 | 12/120 |  |
| 16                      | PLN4-C16/1N | 263192 | 12/120 |  |
| 20                      | PLN4-C20/1N | 263193 | 12/120 |  |
| 25                      | PLN4-C25/1N | 263194 | 12/120 |  |
| 32                      | PLN4-C32/1N | 263195 | 12/120 |  |
| 40                      | PLN4-C40/1N | 263196 | 12/120 |  |

| Miniature Circuit Breakers PLN6 |                  |                |                   | MW |
|---------------------------------|------------------|----------------|-------------------|----|
| 6kA, 1+N-pole                   |                  |                |                   |    |
| Rated Current, In, A            | Type Designation | Article Number | Units Per Package |    |
| <b>Characteristic B</b>         |                  |                |                   |    |
| 6                               | PLN6-B6/1N       | 263161         | 12/120            |    |
| 10                              | PLN6-B10/1N      | 263162         | 12/120            |    |
| 13                              | PLN6-B13/1N      | 263163         | 12/120            |    |
| 16                              | PLN6-B16/1N      | 263164         | 12/120            |    |
| 20                              | PLN6-B20/1N      | 263165         | 12/120            |    |
| 25                              | PLN6-B25/1N      | 263166         | 12/120            |    |
| 32                              | PLN6-B32/1N      | 263167         | 12/120            |    |
| 40                              | PLN6-B40/1N      | 263168         | 12/120            |    |



|                         |             |        |        |  |
|-------------------------|-------------|--------|--------|--|
| <b>Characteristic C</b> |             |        |        |  |
| 6                       | PLN6-C6/1N  | 263171 | 12/120 |  |
| 10                      | PLN6-C10/1N | 263172 | 12/120 |  |
| 13                      | PLN6-C13/1N | 263173 | 12/120 |  |
| 16                      | PLN6-C16/1N | 263174 | 12/120 |  |
| 20                      | PLN6-C20/1N | 263175 | 12/120 |  |
| 25                      | PLN6-C25/1N | 263176 | 12/120 |  |
| 32                      | PLN6-C32/1N | 263177 | 12/120 |  |
| 40                      | PLN6-C40/1N | 263178 | 12/120 |  |

Explanation of PLN

P=xPole, LN=MCB, 1P+N, 1MU, 4=4.5kA, 6=6kA

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## Miniature Circuit Breakers PLS..., PLZ...

### Technical Data

#### Mechanical

|                |                                                               |
|----------------|---------------------------------------------------------------|
| Frame Size:    | 45mm                                                          |
| Device Height: | 80mm                                                          |
| Device Width:  | 17.5mm per pole                                               |
| Mounting:      | Quick fastening with 3 lock-in positions on DIN rail IEC60715 |

Degree of protection IP20

Upper and lower terminals Open mouthed/lift terminals

Terminal protection Finger and hand touch safe

Terminal capacity: 1-25mm<sup>2</sup>

Terminal fastening 2-2.4 Nm

Busbar thickness: 0.8-2.0 mm

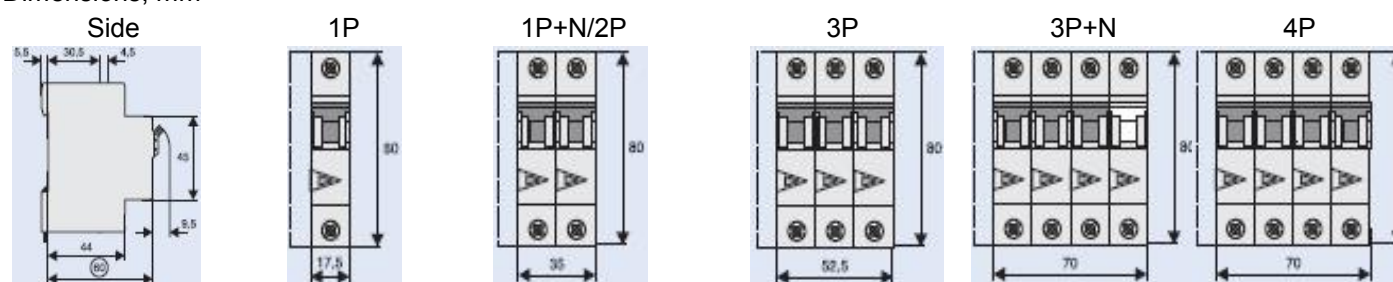
Mounting: Independent of position

Line voltage connection Optional, above/below

#### Features:

- High selectivity between MCB and back-up fuse due to low let-through energy;
- Compatible with standard busbar;
- Twin-purpose terminal above and below;
- Busbar positioning optionally above or below;
- Meets the requirements of insulation co-ordination distance between contacts  $\geq 4\text{mm}$ , for secure isolation;
- Suitable for applications up to 48VDC;

#### Dimensions, mm



#### Connection diagrams



#### Explanation PLS..., PLZ...

P=xPole, LS, LZ=MCB

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#### Electrical

Design according to:

Current test marks as printed onto the device IEC/EN 60898-1

Rated Voltage AC: 230/400V

DC: 48V per pole

Rated frequency: 50/60Hz

Rated breaking capacity according to IEC

PLS4, PLZ4, PL4 4.5kA

PLS6, PLZ6, PL6 6.0kA

PLSM, PLZM, PL7 10kA

Characteristic: B, C, D

Rated peak withstand voltage, Uimp: 4kV

Selective class: 3

Endurance Electrical:  $\geq 4,000$  Cycles

#### Accessories:

Auxiliary switch for su ZP-IHK 286052

sequent installation: ZP-NHK 248437

Remote control & automatic

switching device Z-FW/LP 248296

Shunt trip release: ZP-ASA/..., 24843 248439

Undervoltage release: Z-USA/..., 24828 248291

Switching Interlock: Z-IS/SPE-1TE 274418

## Miniature Circuit Breakers PLS4, PLZ4

- High-quality miniature circuit breakers for commercial and residential applications;
- Contact position indicator red and green;
- Guide for secure terminal connection;
- 3-position DIN rail clip, permits removal from existing busbar system;
- Comprehensive range of accessories suitable for subsequent installation;
- Rated breaking capacity 4.5kA according to IEC/EN 60898-1;

### Miniature Circuit Breakers PLS4, 4.5kA



PLS4/1P

|                             | Characteristic B   |        | Characteristic C   |        |            |
|-----------------------------|--------------------|--------|--------------------|--------|------------|
| Rated Current, In<br>1-pole | Designation & Code |        | Designation & Code |        | Units/Pack |
| 6A                          | PLS4-B6            | 243150 | PLS4-C6            | 243176 | 12/120     |
| 8A                          | PLS4-B8            | 243151 | PLS4-C8            | 243177 | 12/120     |
| 10A                         | PLS4-B10           | 243152 | PLS4-C10           | 243178 | 12/120     |
| 13A                         | PLS4-B13           | 243154 | PLS4-C13           | 243180 | 12/120     |
| 16A                         | PLS4-B16           | 243156 | PLS4-C16           | 243182 | 12/120     |
| 20A                         | PLS4-B20           | 243157 | PLS4-C20           | 243183 | 12/120     |
| 25A                         | PLS4-B25           | 243158 | PLS4-C25           | 243184 | 12/120     |
| 32A                         | PLS4-B32           | 243159 | PLS4-C32           | 243185 | 12/120     |
| 40A                         | PLS4-B40           | 243160 | PLS4-C40           | 243186 | 12/120     |
| 50A                         | PLS4-B50           | 243161 | PLS4-C50           | 243187 | 12/120     |
| 63A                         | PLS4-B63           | 243162 | PLS4-C63           | 243188 | 12/120     |



PLZ4/1N

|                      |             |        |             |        |      |
|----------------------|-------------|--------|-------------|--------|------|
| <b>1+N-pole, 2MU</b> |             |        |             |        |      |
| 6A                   | PLZ4-B6/1N  | 243198 | PLZ4-C6/1N  | 243224 | 6/60 |
| 8A                   | PLZ4-B8/1N  | 243199 | PLZ4-C8/1N  | 243225 | 6/60 |
| 10A                  | PLZ4-B10/1N | 243200 | PLZ4-C10/1N | 243226 | 6/60 |
| 13A                  | PLZ4-B13/1N | 243202 | PLZ4-C13/1N | 243228 | 6/60 |
| 16A                  | PLZ4-B16/1N | 243204 | PLZ4-C16/1N | 243230 | 6/60 |
| 20A                  | PLZ4-B20/1N | 243205 | PLZ4-C20/1N | 243231 | 6/60 |
| 25A                  | PLZ4-B25/1N | 243206 | PLZ4-C25/1N | 243232 | 6/60 |
| 32A                  | PLZ4-B32/1N | 243207 | PLZ4-C32/1N | 243233 | 6/60 |
| 40A                  | PLZ4-B40/1N | 243208 | PLZ4-C40/1N | 243234 | 6/60 |
| 50A                  | PLZ4-B50/1N | 243209 | PLZ4-C50/1N | 243235 | 6/60 |
| 63A                  | PLZ4-B63/1N | 243210 | PLZ4-C63/1N | 243236 | 6/60 |



PLS4/2P

|               |            |        |            |        |      |
|---------------|------------|--------|------------|--------|------|
| <b>2-pole</b> |            |        |            |        |      |
| 6A            | PLS4-B6/2  | 243246 | PLS4-C6/2  | 243272 | 6/60 |
| 8A            | PLS4-B8/2  | 243247 | PLS4-C8/2  | 243273 | 6/60 |
| 10A           | PLS4-B10/2 | 243248 | PLS4-C10/2 | 243274 | 6/60 |
| 13A           | PLS4-B13/2 | 243250 | PLS4-C13/2 | 243276 | 6/60 |
| 16A           | PLS4-B16/2 | 243252 | PLS4-C16/2 | 243278 | 6/60 |
| 20A           | PLS4-B20/2 | 243253 | PLS4-C20/2 | 243279 | 6/60 |
| 25A           | PLS4-B25/2 | 243254 | PLS4-C25/2 | 243280 | 6/60 |
| 32A           | PLS4-B32/2 | 243255 | PLS4-C32/2 | 243281 | 6/60 |
| 40A           | PLS4-B40/2 | 243256 | PLS4-C40/2 | 243282 | 6/60 |
| 50A           | PLS4-B50/2 | 243257 | PLS4-C50/2 | 243283 | 6/60 |
| 63A           | PLS4-B63/2 | 243258 | PLS4-C63/2 | 243284 | 6/60 |



PLS4/3P

|               |            |        |            |        |      |
|---------------|------------|--------|------------|--------|------|
| <b>3-pole</b> |            |        |            |        |      |
| 6A            | PLS4-B6/3  | 243294 | PLS4-C6/3  | 243320 | 4/40 |
| 8A            | PLS4-B8/3  | 243295 | PLS4-C8/3  | 243321 | 4/40 |
| 10A           | PLS4-B10/3 | 243296 | PLS4-C10/3 | 243322 | 4/40 |
| 13A           | PLS4-B13/3 | 243298 | PLS4-C13/3 | 243324 | 4/40 |
| 16A           | PLS4-B16/3 | 243300 | PLS4-C16/3 | 243326 | 4/40 |
| 20A           | PLS4-B20/3 | 243301 | PLS4-C20/3 | 243327 | 4/40 |
| 25A           | PLS4-B25/3 | 243302 | PLS4-C25/3 | 243328 | 4/40 |
| 32A           | PLS4-B32/3 | 243303 | PLS4-C32/3 | 243329 | 4/40 |
| 40A           | PLS4-B40/3 | 243304 | PLS4-C40/3 | 243330 | 4/40 |
| 50A           | PLS4-B50/3 | 243305 | PLS4-C50/3 | 243331 | 4/40 |
| 63A           | PLS4-B63/3 | 243306 | PLS4-C63/3 | 243332 | 4/40 |

Explanation PLS4, PLZ4

P=xPole, LS, LZ=MCB, 4=4.5kA

## Miniature Circuit Breakers PLS6, PLZ6

- High-quality miniature circuit breakers for commercial and residential applications;
- Contact position indicator red and green;
- Guide for secure terminal connection;
- 3-position DIN rail clip, permits removal from existing busbar system;
- Comprehensive range of accessories suitable for subsequent installation;
- Rated breaking capacity 6kA according to IEC/EN 60898-1;

### Miniature Circuit Breakers PLS6/PLZ6, 6kA

| Miniature Circuit Breakers (MCB) Type PLS6, PLZ6, PLS6/2P, PLS6/3P                            |                                      |                  |        |                    |        |                    |        |            |
|-----------------------------------------------------------------------------------------------|--------------------------------------|------------------|--------|--------------------|--------|--------------------|--------|------------|
|                                                                                               | Rated Current, In Designation & Code |                  |        | Designation & Code |        | Designation & Code |        | Units/Pack |
|                                                                                               | Type                                 | Characteristic B |        | Characteristic C   |        | Characteristic D   |        |            |
| <br>PLS6/1P   | <b>1-pole</b>                        |                  |        |                    |        |                    |        |            |
|                                                                                               | 6A                                   | PLS6-B6          | 242649 | PLS6-C6            | 242675 | PLS6-D6            | 242698 | 12/120     |
|                                                                                               | 8A                                   | PLS6-B8          | 242650 | PLS6-C8            | 242676 | PLS6-D8            | 242699 | 12/120     |
|                                                                                               | 10A                                  | PLS6-B10         | 242651 | PLS6-C10           | 242677 | PLS6-D10           | 242700 | 12/120     |
|                                                                                               | 13A                                  | PLS6-B13         | 242653 | PLS6-C13           | 242679 | PLS6-D13           | 242702 | 12/120     |
|                                                                                               | 16A                                  | PLS6-B16         | 242655 | PLS6-C16           | 242681 | PLS6-D16           | 242704 | 12/120     |
|                                                                                               | 20A                                  | PLS6-B20         | 242656 | PLS6-C20           | 242682 | PLS6-D20           | 242705 | 12/120     |
|                                                                                               | 25A                                  | PLS6-B25         | 242657 | PLS6-C25           | 242683 | PLS6-D25           | 242706 | 12/120     |
|                                                                                               | 32A                                  | PLS6-B32         | 242658 | PLS6-C32           | 242684 | PLS6-D32           | 242707 | 12/120     |
|                                                                                               | 40A                                  | PLS6-B40         | 242659 | PLS6-C40           | 242685 | PLS6-D40           | 242708 | 12/120     |
|                                                                                               | 50A                                  | PLS6-B50         | 242660 | PLS6-C50           | 242686 | -                  | -      | -          |
|                                                                                               | 63A                                  | PLS6-B63         | 242661 | PLS6-C63           | 242687 | -                  | -      | -          |
| <br>PLZ6/1N  | <b>1+N-pole, 2MU</b>                 |                  |        |                    |        |                    |        |            |
|                                                                                               | 6A                                   | PLZ6-B6/1N       | 242779 | PLZ6-C6/1N         | 242805 | PLZ6-D6/1N         | 242828 | 6/60       |
|                                                                                               | 8A                                   | PLZ6-B8/1N       | 242780 | PLZ6-C8/1N         | 242806 | PLZ6-D8/1N         | 242829 | 6/60       |
|                                                                                               | 10A                                  | PLZ6-B10/1N      | 242781 | PLZ6-C10/1N        | 242807 | PLZ6-D10/1N        | 242830 | 6/60       |
|                                                                                               | 13A                                  | PLZ6-B13/1N      | 242783 | PLZ6-C13/1N        | 242809 | PLZ6-D13/1N        | 242832 | 6/60       |
|                                                                                               | 16A                                  | PLZ6-B16/1N      | 242785 | PLZ6-C16/1N        | 242811 | PLZ6-D16/1N        | 242834 | 6/60       |
|                                                                                               | 20A                                  | PLZ6-B20/1N      | 242786 | PLZ6-C20/1N        | 242812 | PLZ6-D20/1N        | 242835 | 6/60       |
|                                                                                               | 25A                                  | PLZ6-B25/1N      | 242787 | PLZ6-C25/1N        | 242813 | PLZ6-D25/1N        | 242836 | 6/60       |
|                                                                                               | 32A                                  | PLZ6-B32/1N      | 242788 | PLZ6-C32/1N        | 242814 | PLZ6-D32/1N        | 242837 | 6/60       |
|                                                                                               | 40A                                  | PLZ6-B40/1N      | 242789 | PLZ6-C40/1N        | 242815 | PLZ6-D40/1N        | 242838 | 6/60       |
|                                                                                               | 50A                                  | PLZ6-B50/1N      | 242790 | PLZ6-C50/1N        | 242816 | -                  | -      | -          |
|                                                                                               | 63A                                  | PLZ6-B63/1N      | 242791 | PLZ6-C63/1N        | 242817 | -                  | -      | -          |
| <br>PLS6/2P | <b>2-pole</b>                        |                  |        |                    |        |                    |        |            |
|                                                                                               | 6A                                   | PLS6-B6/2        | 242848 | PLS6-C6/2          | 242874 | PLS6-D6/2          | 242897 | 6/60       |
|                                                                                               | 8A                                   | PLS6-B8/2        | 242849 | PLS6-C8/2          | 242875 | PLS6-D8/2          | 242898 | 6/60       |
|                                                                                               | 10A                                  | PLS6-B10/2       | 242850 | PLS6-C10/2         | 242876 | PLS6-D10/2         | 242899 | 6/60       |
|                                                                                               | 13A                                  | PLS6-B13/2       | 242852 | PLS6-C13/2         | 242878 | PLS6-D13/2         | 242901 | 6/60       |
|                                                                                               | 16A                                  | PLS6-B16/2       | 242854 | PLS6-C16/2         | 242880 | PLS6-D16/2         | 242903 | 6/60       |
|                                                                                               | 20A                                  | PLS6-B20/2       | 242855 | PLS6-C20/2         | 242881 | PLS6-D20/2         | 242904 | 6/60       |
|                                                                                               | 25A                                  | PLS6-B25/2       | 242856 | PLS6-C25/2         | 242882 | PLS6-D25/2         | 242905 | 6/60       |
|                                                                                               | 32A                                  | PLS6-B32/2       | 242857 | PLS6-C32/2         | 242883 | PLS6-D32/2         | 242906 | 6/60       |
|                                                                                               | 40A                                  | PLS6-B40/2       | 242858 | PLS6-C40/2         | 242884 | PLS6-D40/2         | 242907 | 6/60       |
|                                                                                               | 50A                                  | PLS6-B50/2       | 242859 | PLS6-C50/2         | 242885 | -                  | -      | -          |
|                                                                                               | 63A                                  | PLS6-B63/2       | 242860 | PLS6-C63/2         | 242886 | -                  | -      | -          |
| <br>PLS6/3P | <b>3-pole</b>                        |                  |        |                    |        |                    |        |            |
|                                                                                               | 6A                                   | PLS6-B6/3        | 242917 | PLS6-C6/3          | 242943 | PLS6-D6/3          | 242966 | 4/40       |
|                                                                                               | 8A                                   | PLS6-B8/3        | 242918 | PLS6-C8/3          | 242944 | PLS6-D8/3          | 242967 | 4/40       |
|                                                                                               | 10A                                  | PLS6-B10/3       | 242919 | PLS6-C10/3         | 242945 | PLS6-D10/3         | 242968 | 4/40       |
|                                                                                               | 13A                                  | PLS6-B13/3       | 242921 | PLS6-C13/3         | 242947 | PLS6-D13/3         | 242970 | 4/40       |
|                                                                                               | 16A                                  | PLS6-B16/3       | 242923 | PLS6-C16/3         | 242949 | PLS6-D16/3         | 242972 | 4/40       |
|                                                                                               | 20A                                  | PLS6-B20/3       | 242924 | PLS6-C20/3         | 242950 | PLS6-D20/3         | 242973 | 4/40       |
|                                                                                               | 25A                                  | PLS6-B25/3       | 242925 | PLS6-C25/3         | 242951 | PLS6-D25/3         | 242974 | 4/40       |
|                                                                                               | 32A                                  | PLS6-B32/3       | 242926 | PLS6-C32/3         | 242952 | PLS6-D32/3         | 242975 | 4/40       |
|                                                                                               | 40A                                  | PLS6-B40/3       | 242927 | PLS6-C40/3         | 242953 | PLS6-D40/3         | 242976 | 4/40       |
|                                                                                               | 50A                                  | PLS6-B50/3       | 242928 | PLS6-C50/3         | 242954 | -                  | -      | -          |
|                                                                                               | 63A                                  | PLS6-B63/3       | 242929 | PLS6-C63/3         | 242955 | -                  | -      | -          |

Explanation PLS6, PLZ6 P=xPole, LS, LZ=MCB, 6=6kA

## Miniature Circuit Breakers PLS6, PLZ6

| Miniature Circuit Breakers PLS6/PLZ6, 6kA                                                     |                   |                    |        |                    |        |                    |        |            |
|-----------------------------------------------------------------------------------------------|-------------------|--------------------|--------|--------------------|--------|--------------------|--------|------------|
|                                                                                               | Rated Current, In | Designation & Code |        | Designation & Code |        | Designation & Code |        | Units/Pack |
|                                                                                               | Type              | Characteristic B   |        | Characteristic C   |        | Characteristic D   |        |            |
| <br>PLS6/3P+N | <b>3+N-pole</b>   |                    |        |                    |        |                    |        |            |
|                                                                                               | 6A                | PLS6-B6/3N         | 242986 | PLS6-C6/3N         | 243012 | PLS6-D6/3N         | 243035 | 3/30       |
|                                                                                               | 8A                | PLS6-B8/3N         | 242987 | PLS6-C8/3N         | 243013 | PLS6-D8/3N         | 243036 | 3/30       |
|                                                                                               | 10A               | PLS6-B10/3N        | 242988 | PLS6-C10/3N        | 243014 | PLS6-D10/3N        | 243037 | 3/30       |
|                                                                                               | 13A               | PLS6-B13/3N        | 242990 | PLS6-C13/3N        | 242016 | PLS6-D13/3N        | 243039 | 3/30       |
|                                                                                               | 16A               | PLS6-B16/3N        | 242992 | PLS6-C16/3N        | 242018 | PLS6-D16/3N        | 243041 | 3/30       |
|                                                                                               | 20A               | PLS6-B20/3N        | 242993 | PLS6-C20/3N        | 242019 | PLS6-D20/3N        | 243042 | 3/30       |
|                                                                                               | 25A               | PLS6-B25/3N        | 242994 | PLS6-C25/3N        | 242020 | PLS6-D25/3N        | 243043 | 3/30       |
|                                                                                               | 32A               | PLS6-B32/3N        | 242995 | PLS6-C32/3N        | 242021 | PLS6-D32/3N        | 243044 | 3/30       |
|                                                                                               | 40A               | PLS6-B40/3N        | 242996 | PLS6-C40/3N        | 242022 | PLS6-D40/3N        | 243045 | 3/30       |
|                                                                                               | 50A               | PLS6-B50/3N        | 242997 | PLS6-C50/3N        | 242023 | -                  | -      | -          |
|                                                                                               | 63A               | PLS6-B63/3N        | 242998 | PLS6-C63/3N        | 242024 | -                  | -      | -          |
| <br>PLS6/4P   | <b>4-pole</b>     |                    |        |                    |        |                    |        |            |
|                                                                                               | 6A                | PLS6-B6/4          | 243055 | PLS6-C6/4          | 243081 | PLS6-D6/4          | 243104 | 3/30       |
|                                                                                               | 8A                | PLS6-B8/4          | 243056 | PLS6-C8/4          | 243082 | PLS6-D8/4          | 243105 | 3/30       |
|                                                                                               | 10A               | PLS6-B10/4         | 243057 | PLS6-C10/4         | 243083 | PLS6-D10/4         | 243106 | 3/30       |
|                                                                                               | 13A               | PLS6-B13/4         | 243059 | PLS6-C13/4         | 243085 | PLS6-D13/4         | 243108 | 3/30       |
|                                                                                               | 16A               | PLS6-B16/4         | 243061 | PLS6-C16/4         | 243087 | PLS6-D16/4         | 243110 | 3/30       |
|                                                                                               | 20A               | PLS6-B20/4         | 243062 | PLS6-C20/4         | 243088 | PLS6-D20/4         | 243111 | 3/30       |
|                                                                                               | 25A               | PLS6-B25/4         | 243063 | PLS6-C25/4         | 243089 | PLS6-D25/4         | 243112 | 3/30       |
|                                                                                               | 32A               | PLS6-B32/4         | 243064 | PLS6-C32/4         | 243090 | PLS6-D32/4         | 243113 | 3/30       |
|                                                                                               | 40A               | PLS6-B40/4         | 243065 | PLS6-C40/4         | 243091 | PLS6-D40/4         | 243114 | 3/30       |
|                                                                                               | 50A               | PLS6-B50/4         | 243066 | PLS6-C50/4         | 243092 | -                  | -      | -          |
|                                                                                               | 63A               | PLS6-B63/4         | 243067 | PLS6-C63/4         | 243093 | -                  | -      | -          |

Explanation PLS6, PLZ6

P=xPole, LS, LZ=MCB, 6=6kA

## Miniature Circuit Breakers PLSM, PLZM

- High-quality miniature circuit breakers for commercial and residential applications;
- Contact position indicator red and green;
- Guide for secure terminal connection;
- 3-position DIN rail clip, permits removal from existing busbar system;
- Comprehensive range of accessories suitable for subsequent installation;
- Rated breaking capacity 10kA according to IEC/EN 60898-1;

Rated breaking capacity 10kA according to IEC 60898-1

| Miniature Circuit Breakers PLSM/PLZM, 10kA                                                    |                   |                    |             |                    |             |                    |        |            |
|-----------------------------------------------------------------------------------------------|-------------------|--------------------|-------------|--------------------|-------------|--------------------|--------|------------|
| <br>PLSM/1P | Rated Current, In | Designation & Code |             | Designation & Code |             | Designation & Code |        | Units/Pack |
|                                                                                               | Type              | Characteristic B   |             | Characteristic C   |             | Characteristic D   |        |            |
| <br>PLZM/1N | 1-pole            |                    |             |                    |             |                    |        |            |
|                                                                                               | 6                 | PLSM-B6            | 242174      | PLSM-C6            | 242200      | PLSM-D6            | 242223 | 12/120     |
|                                                                                               | 8                 | PLSM-B8            | 242175      | PLSM-C8            | 242201      | PLSM-D8            | 242224 | 12/120     |
|                                                                                               | 10                | PLSM-B10           | 242176      | PLSM-C10           | 242202      | PLSM-D10           | 242225 | 12/120     |
|                                                                                               | 13                | PLSM-B13           | 242178      | PLSM-C13           | 242204      | PLSM-D13           | 242227 | 12/120     |
|                                                                                               | 16                | PLSM-B16           | 242180      | PLSM-C16           | 242206      | PLSM-D16           | 242229 | 12/120     |
|                                                                                               | 20                | PLSM-B20           | 242181      | PLSM-C20           | 242207      | PLSM-D20           | 242230 | 12/120     |
|                                                                                               | 25                | PLSM-B25           | 242182      | PLSM-C25           | 242208      | PLSM-D25           | 242231 | 12/120     |
|                                                                                               | 32                | PLSM-B32           | 242183      | PLSM-C32           | 242209      | PLSM-D32           | 242232 | 12/120     |
|                                                                                               | 40                | PLSM-B40           | 242184      | PLSM-C40           | 242210      | PLSM-D40           | 242233 | 12/120     |
|                                                                                               | 50                | PLSM-B50           | 242185      | PLSM-C50           | 242211      | -                  | -      | -          |
|                                                                                               | 63                | PLSM-B63           | 242186      | PLSM-C63           | 242212      | -                  | -      | -          |
| 1+N-pole, 2MU                                                                                 |                   |                    |             |                    |             |                    |        |            |
| 6                                                                                             | PLZM-B6/1N        | 242304             | PLZM-C6/1N  | 242330             | PLZM-D6/1N  | 242353             | 6/60   |            |
| 8                                                                                             | PLZM-B8/1N        | 242305             | PLZM-C8/1N  | 242331             | PLZM-D8/1N  | 242354             | 6/60   |            |
| 10                                                                                            | PLZM-B10/1N       | 242306             | PLZM-C10/1N | 242332             | PLZM-D10/1N | 242355             | 6/60   |            |
| 13                                                                                            | PLZM-B13/1N       | 242308             | PLZM-C13/1N | 242334             | PLZM-D13/1N | 242357             | 6/60   |            |

Explanation PLSM, PLZM

P=xPole, LS, LZ=MCB, M=10kA

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## Miniature Circuit Breakers PLSM, PLZM

## Miniature Circuit Breakers PLSM/PLZM, 10kA

|                                                                                               | Rated Current, In Designation & Code |                  |        | Designation & Code |        | Designation & Code |        | Units/Pack |
|-----------------------------------------------------------------------------------------------|--------------------------------------|------------------|--------|--------------------|--------|--------------------|--------|------------|
| <br>PLZM/1N   | Type                                 | Characteristic B |        | Characteristic C   |        | Characteristic D   |        |            |
|                                                                                               | 16                                   | PLZM-B16/1N      | 242310 | PLZM-C16/1N        | 242336 | PLZM-D16/1N        | 242359 | 6/60       |
|                                                                                               | 20                                   | PLZM-B20/1N      | 242311 | PLZM-C20/1N        | 242337 | PLZM-D20/1N        | 242360 | 6/60       |
|                                                                                               | 25                                   | PLZM-B25/1N      | 242312 | PLZM-C25/1N        | 242338 | PLZM-D25/1N        | 242361 | 6/60       |
|                                                                                               | 32                                   | PLZM-B32/1N      | 242313 | PLZM-C32/1N        | 242339 | PLZM-D32/1N        | 242362 | 6/60       |
|                                                                                               | 40                                   | PLZM-B40/1N      | 242314 | PLZM-C40/1N        | 242340 | PLZM-D40/1N        | 242363 | 6/60       |
|                                                                                               | 50                                   | PLZM-B50/1N      | 242315 | PLZM-C50/1N        | 242341 | -                  | -      | -          |
|                                                                                               | 63                                   | PLZM-B63/1N      | 242316 | PLZM-C63/1N        | 242342 | -                  | -      | -          |
| <br>PLSM/2P   | <b>2-pole</b>                        |                  |        |                    |        |                    |        |            |
|                                                                                               | 6                                    | PLSM-B6/2        | 242373 | PLSM-C6/2          | 242399 | PLSM-D6/2          | 242422 | 6/60       |
|                                                                                               | 8                                    | PLSM-B8/2        | 242374 | PLSM-C8/2          | 242400 | PLSM-D8/2          | 242423 | 6/60       |
|                                                                                               | 10                                   | PLSM-B10/2       | 242375 | PLSM-C10/2         | 242401 | PLSM-D10/2         | 242424 | 6/60       |
|                                                                                               | 13                                   | PLSM-B13/2       | 242377 | PLSM-C13/2         | 242403 | PLSM-D13/2         | 242426 | 6/60       |
|                                                                                               | 16                                   | PLSM-B16/2       | 242379 | PLSM-C16/2         | 242405 | PLSM-D16/2         | 242428 | 6/60       |
|                                                                                               | 20                                   | PLSM-B20/2       | 242380 | PLSM-C20/2         | 242406 | PLSM-D20/2         | 242429 | 6/60       |
|                                                                                               | 25                                   | PLSM-B25/2       | 242381 | PLSM-C25/2         | 242407 | PLSM-D25/2         | 242430 | 6/60       |
|                                                                                               | 32                                   | PLSM-B32/2       | 242382 | PLSM-C32/2         | 242408 | PLSM-D32/2         | 242431 | 6/60       |
|                                                                                               | 40                                   | PLSM-B40/2       | 242383 | PLSM-C40/2         | 242409 | PLSM-D40/2         | 242432 | 6/60       |
|                                                                                               | 50                                   | PLSM-B50/2       | 242384 | PLSM-C50/2         | 242410 | -                  | -      | -          |
|                                                                                               | 63                                   | PLSM-B63/2       | 242385 | PLSM-C63/2         | 242411 | -                  | -      | -          |
| <br>PLSM/3P  | <b>3-pole</b>                        |                  |        |                    |        |                    |        |            |
|                                                                                               | 6                                    | PLSM-B6/3        | 242442 | PLSM-C6/3          | 242468 | PLSM-D6/3          | 242491 | 4/40       |
|                                                                                               | 8                                    | PLSM-B8/3        | 242443 | PLSM-C8/3          | 242469 | PLSM-D8/3          | 242492 | 4/40       |
|                                                                                               | 10                                   | PLSM-B10/3       | 242444 | PLSM-C10/3         | 242470 | PLSM-D10/3         | 242493 | 4/40       |
|                                                                                               | 13                                   | PLSM-B13/3       | 242446 | PLSM-C13/3         | 242472 | PLSM-D13/3         | 242495 | 4/40       |
|                                                                                               | 16                                   | PLSM-B16/3       | 242448 | PLSM-C16/3         | 242474 | PLSM-D16/3         | 242497 | 4/40       |
|                                                                                               | 20                                   | PLSM-B20/3       | 242449 | PLSM-C20/3         | 242475 | PLSM-D20/3         | 242498 | 4/40       |
|                                                                                               | 25                                   | PLSM-B25/3       | 242450 | PLSM-C25/3         | 242476 | PLSM-D25/3         | 242499 | 4/40       |
|                                                                                               | 32                                   | PLSM-B32/3       | 242451 | PLSM-C32/3         | 242477 | PLSM-D32/3         | 242500 | 4/40       |
|                                                                                               | 40                                   | PLSM-B40/3       | 242452 | PLSM-C40/3         | 242478 | PLSM-D40/3         | 242501 | 4/40       |
|                                                                                               | 50                                   | PLSM-B50/3       | 242453 | PLSM-C50/3         | 242479 | -                  | -      | -          |
|                                                                                               | 63                                   | PLSM-B63/3       | 242454 | PLSM-C63/3         | 242480 | -                  | -      | -          |
| <br>PLSM/3N | <b>3+N-pole</b>                      |                  |        |                    |        |                    |        |            |
|                                                                                               | 6                                    | PLSM-B6/3N       | 242511 | PLSM-C6/3N         | 242537 | PLSM-D6/3N         | 242560 | 4/40       |
|                                                                                               | 8                                    | PLSM-B8/3N       | 242512 | PLSM-C8/3N         | 242538 | PLSM-D8/3N         | 242561 | 4/40       |
|                                                                                               | 10                                   | PLSM-B10/3N      | 242513 | PLSM-C10/3N        | 242539 | PLSM-D10/3N        | 242562 | 4/40       |
|                                                                                               | 13                                   | PLSM-B13/3N      | 242515 | PLSM-C13/3N        | 242541 | PLSM-D13/3N        | 242564 | 4/40       |
|                                                                                               | 16                                   | PLSM-B16/3N      | 242517 | PLSM-C16/3N        | 242543 | PLSM-D16/3N        | 242566 | 4/40       |
|                                                                                               | 20                                   | PLSM-B20/3N      | 242518 | PLSM-C20/3N        | 242544 | PLSM-D20/3N        | 242567 | 4/40       |
|                                                                                               | 25                                   | PLSM-B25/3N      | 242519 | PLSM-C25/3N        | 242545 | PLSM-D25/3N        | 242568 | 4/40       |
|                                                                                               | 32                                   | PLSM-B32/3N      | 242520 | PLSM-C32/3N        | 242546 | PLSM-D32/3N        | 242569 | 4/40       |
|                                                                                               | 40                                   | PLSM-B40/3N      | 242521 | PLSM-C40/3N        | 242547 | PLSM-D40/3N        | 242570 | 3/30       |
|                                                                                               | 50                                   | PLSM-B50/3N      | 242522 | PLSM-C50/3N        | 242548 | -                  | -      | -          |
|                                                                                               | 63                                   | PLSM-B63/3N      | 242523 | PLSM-C63/3N        | 242549 | -                  | -      | -          |
| <br>PLSM/4P | <b>4-pole</b>                        |                  |        |                    |        |                    |        |            |
|                                                                                               | 6                                    | PLSM-B6/4        | 242580 | PLSM-C6/4          | 242606 | PLSM-D6/4          | 242629 | 3/30       |
|                                                                                               | 8                                    | PLSM-B8/4        | 242581 | PLSM-C8/4          | 242607 | PLSM-D8/4          | 242630 | 3/30       |
|                                                                                               | 10                                   | PLSM-B10/4       | 242582 | PLSM-C10/4         | 242608 | PLSM-D10/4         | 242631 | 3/30       |
|                                                                                               | 13                                   | PLSM-B13/4       | 242584 | PLSM-C13/4         | 242610 | PLSM-D13/4         | 242633 | 3/30       |
|                                                                                               | 16                                   | PLSM-B16/4       | 242586 | PLSM-C16/4         | 242612 | PLSM-D16/4         | 242635 | 3/30       |
|                                                                                               | 20                                   | PLSM-B20/4       | 242587 | PLSM-C20/4         | 242613 | PLSM-D20/4         | 242636 | 3/30       |
|                                                                                               | 25                                   | PLSM-B25/4       | 242588 | PLSM-C25/4         | 242614 | PLSM-D25/4         | 242637 | 3/30       |
|                                                                                               | 32                                   | PLSM-B32/4       | 242589 | PLSM-C32/4         | 242615 | PLSM-D32/4         | 242638 | 3/30       |
|                                                                                               | 40                                   | PLSM-B40/4       | 242590 | PLSM-C40/4         | 242616 | PLSM-D40/4         | 242639 | 3/30       |
|                                                                                               | 50                                   | PLSM-B50/4       | 242591 | PLSM-C50/4         | 242617 | -                  | -      | -          |
|                                                                                               | 63                                   | PLSM-B63/4       | 242592 | PLSM-C63/4         | 242618 | -                  | -      | -          |

Explanation PLSM, PLZM

P=xPole, LS, LZ=MCB, M=10kA

## Miniature Circuit Breakers PLHT

- High-quality miniature circuit breakers for commercial and residential applications;
- Contact position indicator red and green;
- Accessories suitable for subsequent installation;
- Rated currents up to 125A, B, C and D characteristics;
- Rated breaking capacity up to 25kA according to EN/IEC 60947-2;



PLHT/1P



PLHT/2P



PLHT/3P



PLHT/4P

| Miniature Circuit Breakers PLHT |                  |                |            | MW |
|---------------------------------|------------------|----------------|------------|----|
| Rated Current, In               | Type Designation | Article Number | Units/Pack |    |
| Charcteristic B                 |                  |                |            |    |
| 1-pole                          |                  |                |            |    |
| 80A                             | PLHT-B80         | 247978         | 12/120     |    |
| 100A                            | PLHT-B100        | 247979         | 12/120     |    |
| 125A                            | PLHT-B125        | 247980         | 12/120     |    |
| 2-pole                          |                  |                |            |    |
| 80A                             | PLHT-B80/2       | 248004         | 6/60       |    |
| 100A                            | PLHT-B100/2      | 248005         | 6/60       |    |
| 125A                            | PLHT-B125/2      | 248006         | 6/60       |    |
| 3-pole                          |                  |                |            |    |
| 80A                             | PLHT-B80/3       | 248030         | 4/40       |    |
| 100A                            | PLHT-B100/3      | 248031         | 4/40       |    |
| 125A                            | PLHT-B125/3      | 248032         | 4/40       |    |
| 4-pole                          |                  |                |            |    |
| 80A                             | PLHT-B80/4       | 248042         | 3/30       |    |
| 100A                            | PLHT-B100/4      | 248043         | 3/30       |    |
| 125A                            | PLHT-B125/4      | 248044         | 3/30       |    |
| Charcteristic C                 |                  |                |            |    |
| 1-pole                          |                  |                |            |    |
| 80A                             | PLHT-C80         | 247987         | 12/120     |    |
| 100A                            | PLHT-C100        | 247988         | 12/120     |    |
| 125A                            | PLHT-C125        | 247989         | 12/120     |    |
| 2-pole                          |                  |                |            |    |
| 80A                             | PLHT-C80/2       | 248013         | 6/60       |    |
| 100A                            | PLHT-C100/2      | 248014         | 6/60       |    |
| 125A                            | PLHT-C125/2      | 248015         | 6/60       |    |
| 3-pole                          |                  |                |            |    |
| 80A                             | PLHT-C80/3       | 248039         | 4/40       |    |
| 100A                            | PLHT-C100/3      | 248040         | 4/40       |    |
| 125A                            | PLHT-C125/3      | 248041         | 4/40       |    |
| 4-pole                          |                  |                |            |    |
| 80A                             | PLHT-C80/4       | 248091         | 3/30       |    |
| 100A                            | PLHT-C100/4      | 248092         | 3/30       |    |
| 125A                            | PLHT-C125/4      | 248093         | 3/30       |    |
| Charcteristic D                 |                  |                |            |    |
| 1-pole                          |                  |                |            |    |
| 80A                             | PLHT-D80         | 247996         | 12/120     |    |
| 100A                            | PLHT-D100        | 247997         | 12/120     |    |
| 2-pole                          |                  |                |            |    |
| 80A                             | PLHT-D80/2       | 248022         | 6/60       |    |
| 100A                            | PLHT-D100/2      | 248023         | 6/60       |    |
| 3-pole                          |                  |                |            |    |
| 80A                             | PLHT-D80/3       | 248048         | 4/40       |    |
| 100A                            | PLHT-D100/3      | 248049         | 4/40       |    |
| 4-pole                          |                  |                |            |    |
| 80A                             | PLHT-D80/4       | 248100         | 3/30       |    |
| 125A                            | PLHT-D125/4      | 248101         | 3/30       |    |

Explanation PLHT

P=xPole, LH=High-quality MCB, T=Ultimate short circuit breaking capacity 10, 15, 25kA

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**MCBs DX-E 6000 -6kA**

thermal magnetic MCBs from 6A to 63A



Conform to IEC60898-1;

Breaking Capacity: 6000-IEC60898-1, 400VAC; 6kA-IEC60947-2, 400VAC;

Do not accept add-on modules;

**MCBs DX-E 6000 -6kA, B Curve**

| Modules                       | Nominal Rating, In | Category Number | Quantity/Pack |
|-------------------------------|--------------------|-----------------|---------------|
| <b>Single Pole 230/400VAC</b> |                    |                 |               |
| 6                             |                    | 0 032 66        | 12/120        |
| 10                            |                    | 0 032 68        | 12/120        |
| 13                            |                    | 0 032 69        | 12/120        |
| 16                            |                    | 0 032 70        | 12/120        |
| 20                            |                    | 0 032 71        | 12/120        |
| 25                            |                    | 0 032 72        | 12/120        |
| 32                            |                    | 0 032 73        | 12/120        |
| 40                            |                    | 0 032 74        | 12/120        |
| 50                            |                    | 0 032 75        | 12/120        |
| 63                            |                    | 0 032 76        | 12/120        |
| <b>2-Pole 230/400VAC</b>      |                    |                 |               |
| 6                             |                    | 0 033 08        | 6/60          |
| 10                            |                    | 0 033 10        | 6/60          |
| 13                            |                    | 0 033 11        | 6/60          |
| 16                            |                    | 0 033 12        | 6/60          |
| 20                            |                    | 0 033 13        | 6/60          |
| 25                            |                    | 0 033 14        | 6/60          |
| 32                            |                    | 0 033 15        | 6/60          |
| 40                            |                    | 0 033 16        | 6/60          |
| 50                            |                    | 0 033 17        | 6/60          |
| 63                            |                    | 0 033 18        | 6/60          |
| <b>3-Pole 230/400VAC</b>      |                    |                 |               |
| 6                             |                    | 0 033 22        | 4/40          |
| 10                            |                    | 0 033 24        | 4/40          |
| 13                            |                    | 0 033 25        | 4/40          |
| 16                            |                    | 0 033 26        | 4/40          |
| 20                            |                    | 0 033 27        | 4/40          |
| 25                            |                    | 0 033 28        | 4/40          |
| 32                            |                    | 0 033 29        | 4/40          |
| 40                            |                    | 0 033 30        | 4/40          |
| 50                            |                    | 0 033 31        | 4/40          |
| 63                            |                    | 0 033 32        | 4/40          |
| <b>4-Pole 230/400VAC</b>      |                    |                 |               |
| 6                             |                    | 0 033 68        | 3/30          |
| 10                            |                    | 0 033 70        | 3/30          |
| 13                            |                    | 0 033 71        | 3/30          |
| 16                            |                    | 0 033 72        | 3/30          |
| 20                            |                    | 0 033 73        | 3/30          |
| 25                            |                    | 0 033 74        | 3/30          |
| 32                            |                    | 0 033 75        | 3/30          |
| 40                            |                    | 0 033 76        | 3/30          |
| 50                            |                    | 0 033 77        | 3/30          |
| 63                            |                    | 0 033 78        | 3/30          |

**Single Pole 230/400VAC**

|    |          |        |
|----|----------|--------|
| 6  | 0 032 66 | 12/120 |
| 10 | 0 032 68 | 12/120 |
| 13 | 0 032 69 | 12/120 |
| 16 | 0 032 70 | 12/120 |
| 20 | 0 032 71 | 12/120 |
| 25 | 0 032 72 | 12/120 |
| 32 | 0 032 73 | 12/120 |
| 40 | 0 032 74 | 12/120 |
| 50 | 0 032 75 | 12/120 |
| 63 | 0 032 76 | 12/120 |

**2-Pole 230/400VAC**

|    |          |      |
|----|----------|------|
| 6  | 0 033 08 | 6/60 |
| 10 | 0 033 10 | 6/60 |
| 13 | 0 033 11 | 6/60 |
| 16 | 0 033 12 | 6/60 |
| 20 | 0 033 13 | 6/60 |
| 25 | 0 033 14 | 6/60 |
| 32 | 0 033 15 | 6/60 |
| 40 | 0 033 16 | 6/60 |
| 50 | 0 033 17 | 6/60 |
| 63 | 0 033 18 | 6/60 |

**3-Pole 230/400VAC**

|    |          |      |
|----|----------|------|
| 6  | 0 033 22 | 4/40 |
| 10 | 0 033 24 | 4/40 |
| 13 | 0 033 25 | 4/40 |
| 16 | 0 033 26 | 4/40 |
| 20 | 0 033 27 | 4/40 |
| 25 | 0 033 28 | 4/40 |
| 32 | 0 033 29 | 4/40 |
| 40 | 0 033 30 | 4/40 |
| 50 | 0 033 31 | 4/40 |
| 63 | 0 033 32 | 4/40 |

**4-Pole 230/400VAC**

|    |          |      |
|----|----------|------|
| 6  | 0 033 68 | 3/30 |
| 10 | 0 033 70 | 3/30 |
| 13 | 0 033 71 | 3/30 |
| 16 | 0 033 72 | 3/30 |
| 20 | 0 033 73 | 3/30 |
| 25 | 0 033 74 | 3/30 |
| 32 | 0 033 75 | 3/30 |
| 40 | 0 033 76 | 3/30 |
| 50 | 0 033 77 | 3/30 |
| 63 | 0 033 78 | 3/30 |

**MCBs DX-E 6000 -6kA, C Curve**

| Modules                       | Nominal Rating, In | Category Number | Quantity/Pack |
|-------------------------------|--------------------|-----------------|---------------|
| <b>Single Pole 230/400VAC</b> |                    |                 |               |
| 6                             |                    | 0 033 82        | 12/120        |
| 10                            |                    | 0 033 84        | 12/120        |
| 13                            |                    | 0 033 85        | 12/120        |
| 16                            |                    | 0 033 86        | 12/120        |
| 20                            |                    | 0 033 87        | 12/120        |
| 25                            |                    | 0 033 88        | 12/120        |
| 32                            |                    | 0 033 89        | 12/120        |
| 40                            |                    | 0 033 90        | 12/120        |
| 50                            |                    | 0 033 91        | 12/120        |
| 63                            |                    | 0 033 92        | 12/120        |
| <b>2-Pole 230/400VAC</b>      |                    |                 |               |
| 6                             |                    | 0 034 29        | 6/60          |
| 10                            |                    | 0 034 31        | 6/60          |
| 13                            |                    | 0 034 32        | 6/60          |
| 16                            |                    | 0 034 33        | 6/60          |
| 20                            |                    | 0 034 34        | 6/60          |
| 25                            |                    | 0 034 35        | 6/60          |
| 32                            |                    | 0 034 36        | 6/60          |
| 40                            |                    | 0 034 37        | 6/60          |
| 50                            |                    | 0 034 38        | 6/60          |
| 63                            |                    | 0 034 39        | 6/60          |
| <b>3-Pole 230/400VAC</b>      |                    |                 |               |
| 6                             |                    | 0 034 47        | 4/40          |
| 10                            |                    | 0 034 49        | 4/40          |
| 13                            |                    | 0 034 50        | 4/40          |
| 16                            |                    | 0 034 51        | 4/40          |
| 20                            |                    | 0 034 52        | 4/40          |
| 25                            |                    | 0 034 53        | 4/40          |
| 32                            |                    | 0 034 54        | 4/40          |
| 40                            |                    | 0 034 55        | 4/40          |
| 50                            |                    | 0 034 56        | 4/40          |
| 63                            |                    | 0 034 57        | 4/40          |
| <b>4-Pole 230/400VAC</b>      |                    |                 |               |
| 6                             |                    | 0 034 89        | 3/30          |
| 10                            |                    | 0 034 91        | 3/30          |
| 13                            |                    | 0 034 92        | 3/30          |
| 16                            |                    | 0 034 93        | 3/30          |
| 20                            |                    | 0 034 94        | 3/30          |
| 25                            |                    | 0 034 95        | 3/30          |
| 32                            |                    | 0 034 96        | 3/30          |
| 40                            |                    | 0 034 97        | 3/30          |
| 50                            |                    | 0 034 98        | 3/30          |
| 63                            |                    | 0 034 99        | 3/30          |

**Single Pole 230/400VAC**

|    |          |        |
|----|----------|--------|
| 6  | 0 033 82 | 12/120 |
| 10 | 0 033 84 | 12/120 |
| 13 | 0 033 85 | 12/120 |
| 16 | 0 033 86 | 12/120 |
| 20 | 0 033 87 | 12/120 |
| 25 | 0 033 88 | 12/120 |
| 32 | 0 033 89 | 12/120 |
| 40 | 0 033 90 | 12/120 |
| 50 | 0 033 91 | 12/120 |
| 63 | 0 033 92 | 12/120 |

**2-Pole 230/400VAC**

|    |          |      |
|----|----------|------|
| 6  | 0 034 29 | 6/60 |
| 10 | 0 034 31 | 6/60 |
| 13 | 0 034 32 | 6/60 |
| 16 | 0 034 33 | 6/60 |
| 20 | 0 034 34 | 6/60 |
| 25 | 0 034 35 | 6/60 |
| 32 | 0 034 36 | 6/60 |
| 40 | 0 034 37 | 6/60 |
| 50 | 0 034 38 | 6/60 |
| 63 | 0 034 39 | 6/60 |

**3-Pole 230/400VAC**

|    |          |      |
|----|----------|------|
| 6  | 0 034 47 | 4/40 |
| 10 | 0 034 49 | 4/40 |
| 13 | 0 034 50 | 4/40 |
| 16 | 0 034 51 | 4/40 |
| 20 | 0 034 52 | 4/40 |
| 25 | 0 034 53 | 4/40 |
| 32 | 0 034 54 | 4/40 |
| 40 | 0 034 55 | 4/40 |
| 50 | 0 034 56 | 4/40 |
| 63 | 0 034 57 | 4/40 |

**4-Pole 230/400VAC**

|    |          |      |
|----|----------|------|
| 6  | 0 034 89 | 3/30 |
| 10 | 0 034 91 | 3/30 |
| 13 | 0 034 92 | 3/30 |
| 16 | 0 034 93 | 3/30 |
| 20 | 0 034 94 | 3/30 |
| 25 | 0 034 95 | 3/30 |
| 32 | 0 034 96 | 3/30 |
| 40 | 0 034 97 | 3/30 |
| 50 | 0 034 98 | 3/30 |
| 63 | 0 034 99 | 3/30 |

**MCBs DX<sup>3</sup>, 6000**

thermal magnetic MCBs from 6A to 63A



Conform to IEC60898-1;

Breaking Capacity: 6000-IEC60898-1, 400VAC; 6kA-IEC60947-2, 400VAC;

Do not accept add-on modules;

**MCBs DX<sup>3</sup>, 6000, B Curve**

| Modules                       | Nominal Rating, In | Category Number | Quantity/Pack |
|-------------------------------|--------------------|-----------------|---------------|
| <b>Single Pole 230/400VAC</b> |                    |                 |               |
| 6                             |                    | 4 074 29        | 12/120        |
| 10                            |                    | 4 074 30        | 12/120        |
| 16                            |                    | 4 074 32        | 12/120        |
| 20                            |                    | 4 074 33        | 12/120        |
| 25                            |                    | 4 074 34        | 12/120        |
| 32                            |                    | 4 074 35        | 12/120        |
| 40                            |                    | 4 074 36        | 12/120        |
| 50                            |                    | 4 074 37        | 12/120        |
| 63                            |                    | 4 074 38        | 12/120        |
| <b>2-Pole 230/400VAC</b>      |                    |                 |               |
| 6                             |                    | 4 075 06        | 6/60          |
| 10                            |                    | 4 075 07        | 6/60          |
| 16                            |                    | 4 075 09        | 6/60          |
| 20                            |                    | 4 075 10        | 6/60          |
| 25                            |                    | 4 075 11        | 6/60          |
| 32                            |                    | 4 075 12        | 6/60          |
| 40                            |                    | 4 075 13        | 6/60          |
| 50                            |                    | 4 075 14        | 6/60          |
| 63                            |                    | 4 075 15        | 6/60          |
| <b>3-Pole 230/400VAC</b>      |                    |                 |               |
| 6                             |                    | 4 075 58        | 4/40          |
| 10                            |                    | 4 075 59        | 4/40          |
| 16                            |                    | 4 075 61        | 4/40          |
| 20                            |                    | 4 075 62        | 4/40          |
| 25                            |                    | 4 075 63        | 4/40          |
| 32                            |                    | 4 075 64        | 4/40          |
| 40                            |                    | 4 075 65        | 4/40          |
| 50                            |                    | 4 075 66        | 4/40          |
| 63                            |                    | 4 075 67        | 4/40          |
| <b>4-Pole 230/400VAC</b>      |                    |                 |               |
| 6                             |                    | 4 076 21        | 3/30          |
| 10                            |                    | 4 076 22        | 3/30          |
| 16                            |                    | 4 076 24        | 3/30          |
| 20                            |                    | 4 076 25        | 3/30          |
| 25                            |                    | 4 076 26        | 3/30          |
| 32                            |                    | 4 076 27        | 3/30          |
| 40                            |                    | 4 076 28        | 3/30          |
| 50                            |                    | 4 076 29        | 3/30          |
| 63                            |                    | 4 076 30        | 3/30          |

**MCBs DX<sup>3</sup>, 6000, C Curve**

| Modules                       | Nominal Rating, In | Category Number | Quantity/Pack |
|-------------------------------|--------------------|-----------------|---------------|
| <b>Single Pole 230/400VAC</b> |                    |                 |               |
| 6                             |                    | 4 076 66        | 12/120        |
| 10                            |                    | 4 076 68        | 12/120        |
| 16                            |                    | 4 076 70        | 12/120        |
| 20                            |                    | 4 076 71        | 12/120        |
| 25                            |                    | 4 076 72        | 12/120        |
| 32                            |                    | 4 076 73        | 12/120        |
| 40                            |                    | 4 076 74        | 12/120        |
| 50                            |                    | 4 076 75        | 12/120        |
| 63                            |                    | 4 076 76        | 12/120        |
| <b>2-Pole 230/400VAC</b>      |                    |                 |               |
| 6                             |                    | 4 077 96        | 6/60          |
| 10                            |                    | 4 077 98        | 6/60          |
| 16                            |                    | 4 078 00        | 6/60          |
| 20                            |                    | 4 078 01        | 6/60          |
| 25                            |                    | 4 078 02        | 6/60          |
| 32                            |                    | 4 078 03        | 6/60          |
| 40                            |                    | 4 078 04        | 6/60          |
| 50                            |                    | 4 078 05        | 6/60          |
| 63                            |                    | 4 078 06        | 6/60          |
| <b>3-Pole 230/400VAC</b>      |                    |                 |               |
| 6                             |                    | 4 078 55        | 4/40          |
| 10                            |                    | 4 078 57        | 4/40          |
| 16                            |                    | 4 078 59        | 4/40          |
| 20                            |                    | 4 078 60        | 4/40          |
| 25                            |                    | 4 078 61        | 4/40          |
| 32                            |                    | 4 078 62        | 4/40          |
| 40                            |                    | 4 078 63        | 4/40          |
| 50                            |                    | 4 078 64        | 4/40          |
| 63                            |                    | 4 078 65        | 4/40          |
| <b>4-Pole 230/400VAC</b>      |                    |                 |               |
| 6                             |                    | 4 079 24        | 3/30          |
| 10                            |                    | 4 079 26        | 3/30          |
| 16                            |                    | 4 079 28        | 3/30          |
| 20                            |                    | 4 079 29        | 3/30          |
| 25                            |                    | 4 079 30        | 3/30          |
| 32                            |                    | 4 079 31        | 3/30          |
| 40                            |                    | 4 079 32        | 3/30          |
| 50                            |                    | 4 079 33        | 3/30          |
| 63                            |                    | 4 079 34        | 3/30          |

**MCBs RX<sup>3</sup>, 6000**

thermal magnetic MCBs from 6A to 63A



Conform to IEC60898-1;

Breaking Capacity: 6000-IEC60898-1, 400VAC; 6kA-IEC60947-2, 400VAC;

Do not accept add-on modules;

**MCBs RX<sup>3</sup>, 6000, B Curve**

Modules Nominal Rating, In Category Number Quantity/Pack

**Single Pole 230/400VAC**

|    |          |        |
|----|----------|--------|
| 6  | 4 022 70 | 12/120 |
| 10 | 4 022 71 | 12/120 |
| 13 | -        | -      |
| 16 | 4 022 72 | 12/120 |
| 20 | 4 022 73 | 12/120 |
| 25 | 4 022 74 | 12/120 |
| 32 | 4 022 75 | 12/120 |
| 40 | 4 022 76 | 12/120 |
| 50 | 4 022 77 | 12/120 |
| 63 | 4 022 78 | 12/120 |

**2-Pole 230/400VAC**

|    |          |      |
|----|----------|------|
| 6  | 4 022 80 | 6/60 |
| 10 | 4 022 81 | 6/60 |
| 13 | -        | -    |
| 16 | 4 022 82 | 6/60 |
| 20 | 4 022 83 | 6/60 |
| 25 | 4 022 84 | 6/60 |
| 32 | 4 022 85 | 6/60 |
| 40 | 4 022 86 | 6/60 |
| 50 | 4 022 87 | 6/60 |
| 63 | 4 022 88 | 6/60 |

**3-Pole 230/400VAC**

|    |          |      |
|----|----------|------|
| 6  | 4 022 90 | 4/40 |
| 10 | 4 022 91 | 4/40 |
| 13 | -        | -    |
| 16 | 4 022 92 | 4/40 |
| 20 | 4 022 93 | 4/40 |
| 25 | 4 022 94 | 4/40 |
| 32 | 4 022 95 | 4/40 |
| 40 | 4 022 96 | 4/40 |
| 50 | 4 022 97 | 4/40 |
| 63 | 4 022 98 | 4/40 |

**4-Pole 230/400VAC**

|    |          |      |
|----|----------|------|
| 6  | 4 023 00 | 3/30 |
| 10 | 4 023 01 | 3/30 |
| 13 | -        | -    |
| 16 | 4 023 02 | 3/30 |
| 20 | 4 023 03 | 3/30 |
| 25 | 4 023 04 | 3/30 |
| 32 | 4 023 05 | 3/30 |
| 40 | 4 023 06 | 3/30 |
| 50 | 4 023 07 | 3/30 |
| 63 | 4 023 08 | 3/30 |

**MCBs RX<sup>3</sup>, 6000, C Curve**

Modules Nominal Rating, In Category Number Quantity/Pack

**Single Pole 230/400VAC**

|    |          |        |
|----|----------|--------|
| 6  | 4 023 10 | 12/120 |
| 10 | 4 023 11 | 12/120 |
| 13 | 4 023 12 | 12/120 |
| 16 | 4 023 13 | 12/120 |
| 20 | 4 023 14 | 12/120 |
| 25 | 4 023 15 | 12/120 |
| 32 | 4 023 16 | 12/120 |
| 40 | 4 023 17 | 12/120 |
| 50 | 4 023 18 | 12/120 |
| 63 | 4 023 19 | 12/120 |

**2-Pole 230/400VAC**

|    |          |      |
|----|----------|------|
| 6  | 4 023 21 | 6/60 |
| 10 | 4 023 22 | 6/60 |
| 13 | 4 023 23 | 6/60 |
| 16 | 4 023 24 | 6/60 |
| 20 | 4 023 25 | 6/60 |
| 25 | 4 023 26 | 6/60 |
| 32 | 4 023 27 | 6/60 |
| 40 | 4 023 28 | 6/60 |
| 50 | 4 023 29 | 6/60 |
| 63 | 4 023 30 | 6/60 |

**3-Pole 230/400VAC**

|    |          |      |
|----|----------|------|
| 6  | 4 023 32 | 4/40 |
| 10 | 4 023 33 | 4/40 |
| 13 | 4 023 34 | 4/40 |
| 16 | 4 023 35 | 4/40 |
| 20 | 4 023 36 | 4/40 |
| 25 | 4 023 37 | 4/40 |
| 32 | 4 023 38 | 4/40 |
| 40 | 4 023 39 | 4/40 |
| 50 | 4 023 40 | 4/40 |
| 63 | 4 023 41 | 4/40 |

**4-Pole 230/400VAC**

|    |          |      |
|----|----------|------|
| 6  | 4 023 43 | 3/30 |
| 10 | 4 023 44 | 3/30 |
| 13 | 4 023 45 | 3/30 |
| 16 | 4 023 46 | 3/30 |
| 20 | 4 023 47 | 3/30 |
| 25 | 4 023 48 | 3/30 |
| 32 | 4 023 49 | 3/30 |
| 40 | 4 023 50 | 3/30 |
| 50 | 4 023 51 | 3/30 |
| 63 | 4 023 52 | 3/30 |

## MCBs TX<sup>3</sup>, 6000

**thermal magnetic MCBs from 6A to 63A, C curve**



Conform to IEC 60898-1:

Compatible with prong-type supply busbars:

Breaking capacity: 6000-IEC 60898-1, 6kA-IEC 60947-2;

Can be equipped with DX3 signalling and remote tripping auxiliaries:

| Modules                | Nominal Rating, In | Category Number | Quantity/Pack |
|------------------------|--------------------|-----------------|---------------|
| Single Pole 230/400VAC |                    |                 |               |
| 6                      | 4 035 74           | 12/120          |               |
| 10                     | 4 035 75           | 12/120          |               |
| 16                     | 4 035 76           | 12/120          |               |
| 20                     | 4 035 77           | 12/120          |               |
| 25                     | 4 035 78           | 12/120          |               |
| 32                     | 4 035 79           | 12/120          |               |
| 40                     | 4 035 80           | 12/120          |               |
| 50                     | 4 035 81           | 12/120          |               |
| 63                     | 4 035 82           | 12/120          |               |
| 2-Pole 230/400VAC      |                    |                 |               |
| 6                      | 4 036 04           | 6/60            |               |
| 10                     | 4 036 05           | 6/60            |               |
| 16                     | 4 036 06           | 6/60            |               |
| 20                     | 4 036 07           | 6/60            |               |
| 25                     | 4 036 08           | 6/60            |               |
| 32                     | 4 036 09           | 6/60            |               |
| 40                     | 4 036 10           | 6/60            |               |
| 50                     | 4 036 11           | 6/60            |               |
| 63                     | 4 036 12           | 6/60            |               |
| 3-Pole 230/400VAC      |                    |                 |               |
| 6                      | 4 036 14           | 4/40            |               |
| 10                     | 4 036 15           | 4/40            |               |
| 16                     | 4 036 16           | 4/40            |               |
| 20                     | 4 036 17           | 4/40            |               |
| 25                     | 4 036 18           | 4/40            |               |
| 32                     | 4 036 19           | 4/40            |               |
| 40                     | 4 036 20           | 4/40            |               |
| 50                     | 4 036 21           | 4/40            |               |
| 63                     | 4 036 22           | 4/40            |               |
| 4-Pole 230/400VAC      |                    |                 |               |
| 6                      | 4 036 24           | 3/30            |               |
| 10                     | 4 036 25           | 3/30            |               |
| 16                     | 4 036 26           | 3/30            |               |
| 20                     | 4 036 27           | 3/30            |               |
| 25                     | 4 036 28           | 3/30            |               |
| 32                     | 4 036 29           | 3/30            |               |
| 40                     | 4 036 30           | 3/30            |               |
| 50                     | 4 036 31           | 3/30            |               |
| 63                     | 4 036 32           | 3/30            |               |

### RCCBs TX3-Residual Current Circuit Breakers

**from 25A to 63A, AC and A types**



Conform to IEC61008-1:

Compatible with prong-type supply busbars:

- AC type: detect AC component faults;
- A type: detect AC and DC component faults;

Do not accept add-on modules:

| Modules                                                   | In, A | Sensitivity, mA | Category Number | Quantity/Pack |
|-----------------------------------------------------------|-------|-----------------|-----------------|---------------|
| <b>2-pole 230VAC, AC Type</b>                             |       |                 |                 |               |
|                                                           | 25    | 30              | 4 030 00        | 1/60          |
|                                                           | 40    | 30              | 4 030 01        | 1/60          |
|                                                           | 63    | 30              | 4 030 02        | 1/60          |
|                                                           | 25    | 300             | 4 030 38        | 1/60          |
|                                                           | 40    | 300             | 4 030 39        | 1/60          |
|                                                           | 63    | 300             | 4 030 40        | 1/60          |
| <b>2-pole 230VAC, A Type</b>                              |       |                 |                 |               |
|                                                           | 25    | 30              | 4 030 35        | 1/60          |
|                                                           | 40    | 30              | 4 030 36        | 1/60          |
| <b>4-pole 400VAC, AC Type, Neutral on Left-Hand Side</b>  |       |                 |                 |               |
|                                                           | 25    | 30              | 4 030 04        | 1/30          |
|                                                           | 40    | 30              | 4 030 05        | 1/30          |
|                                                           | 63    | 30              | 4 030 06        | 1/30          |
| <b>4-pole 400VAC, AC Type, Neutral on Right-Hand Side</b> |       |                 |                 |               |
|                                                           | 25    | 30              | 4 030 08        | 1/30          |
|                                                           | 40    | 30              | 4 030 09        | 1/30          |
|                                                           | 63    | 30              | 4 030 10        | 1/30          |
|                                                           | 25    | 300             | 4 030 42        | 1/30          |
|                                                           | 40    | 300             | 4 030 43        | 1/30          |
|                                                           | 63    | 300             | 4 030 44        | 1/30          |

**MCBs DNX and DNX<sup>3</sup>, 3000**

thermal magnetic MCBs from 6A to 32A, C curve



Conform to IEC 60898-1;

Compatible with prong-type supply busbars:

Breaking capacity: 3000-IEC 60898-1, 230VAC;

Do not accept auxiliaries, and RCD add-on modules

| Modules                                                   | Nominal Rating, In | Category Number | Quantity/Pack |
|-----------------------------------------------------------|--------------------|-----------------|---------------|
| <b>Single Pole + N, 230VAC, Neutral on Left-Hand Side</b> |                    |                 |               |
| 6                                                         |                    | 4 194 96        | 12/120        |
| 10                                                        |                    | 4 194 97        | 12/120        |
| 16                                                        |                    | 4 194 99        | 12/120        |
| 20                                                        |                    | 4 195 00        | 12/120        |
| 25                                                        |                    | 4 195 01        | 12/120        |
| 32                                                        |                    | 4 195 02        | 12/120        |

**N****RCCBs RX<sup>3</sup>-Residual Current Circuit Breakers**

from 25A to 63A, AC and A types



Conform to IEC61008-1;

Compatible with prong-type supply busbars:

●AC type: detect AC component faults;

●A type: detect AC and DC component faults;

Do not accept add-on modules;

| Modules                       | In, A | Sensitivity, mA | Category Number | Quantity/Pack |
|-------------------------------|-------|-----------------|-----------------|---------------|
| <b>2-pole 230VAC, AC Type</b> |       |                 |                 |               |
| 25                            | 30    |                 | 4 020 24        | 1/60          |
| 40                            | 30    |                 | 4 020 25        | 1/60          |
| 63                            | 30    |                 | 4 020 26        | 1/60          |
| 80                            | 30    |                 | 4 020 27        | 1/60          |
| 25                            | 100   |                 | 4 020 28        | 1/60          |
| 40                            | 100   |                 | 4 020 29        | 1/60          |
| 63                            | 100   |                 | 4 020 30        | 1/60          |
| 25                            | 300   |                 | 4 020 32        | 1/60          |
| 40                            | 300   |                 | 4 020 33        | 1/60          |
| 63                            | 300   |                 | 4 020 34        | 1/60          |

**2-pole 230VAC, A Type**

|    |    |  |          |      |
|----|----|--|----------|------|
| 25 | 30 |  | 4 020 36 | 1/60 |
| 40 | 30 |  | 4 020 37 | 1/60 |
| 63 | 30 |  | 4 020 38 | 1/60 |

**4-pole 400VAC, AC Type, Neutral on Right-Hand Side**

|    |     |  |          |      |
|----|-----|--|----------|------|
| 25 | 30  |  | 4 020 62 | 1/30 |
| 40 | 30  |  | 4 020 63 | 1/30 |
| 63 | 30  |  | 4 020 64 | 1/30 |
| 25 | 100 |  | 4 020 66 | 1/30 |
| 40 | 100 |  | 4 020 67 | 1/30 |
| 63 | 100 |  | 4 020 68 | 1/30 |
| 25 | 300 |  | 4 020 70 | 1/30 |
| 40 | 300 |  | 4 020 71 | 1/30 |
| 63 | 300 |  | 4 020 72 | 1/30 |

**4-pole 400VAC, A Type, Neutral on Right-Hand Side**

|    |    |  |          |      |
|----|----|--|----------|------|
| 25 | 30 |  | 4 020 74 | 1/30 |
| 40 | 30 |  | 4 020 75 | 1/30 |
| 63 | 30 |  | 4 020 76 | 1/30 |

## Miniature Circuit Breakers, BH-D6 and BH-DN

### Features:

1. All models fully comply with IEC regulations
2. Units can be mounted on a standard 35mm IEC rail
3. High current-limiting performance
4. Compliance with IP2X protecting rating
5. All models are compatible with reverse connection

### Technical Data of BH-D6



BH-D6/1P



BH-D6/2P



BH-D6/3P

|                                 |                                            |              |       |     |
|---------------------------------|--------------------------------------------|--------------|-------|-----|
| Type                            | BH-D6                                      |              |       |     |
| Number of Poles                 | 1                                          | 2            | 3     | 4   |
| Instantaneous Tripping          | Type B, C, D                               |              |       |     |
| Type of Overcurrent Release     | Thermal-magnetic                           |              |       |     |
| Rated Insulation Voltage, $U_i$ | 440V                                       |              |       |     |
| Rated Current $I_n$ , A         | 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A |              |       |     |
| Rated Short-circuit Capacity    | IEC60898-1, $I_{cn}$ , AC                  | 230          | 6kA   | -   |
|                                 |                                            | 230/400      | 6kA   | -   |
| Number of Operating Cycles      | Without Current                            | 8,000        | -     | -   |
|                                 |                                            | With Current | 8,000 | -   |
| Dimensions, mm                  | a                                          | 18           | 36    | 54  |
|                                 | b                                          | 87           |       | 72  |
|                                 | c                                          | 44           |       |     |
|                                 | ca                                         | 70           |       |     |
| Mounting                        | IEC35mm Rail                               |              |       |     |
| Applicable Wire Size            | 1-25mm <sup>2</sup>                        |              |       |     |
| Terminal Connection             | Solderless                                 |              |       |     |
| Weight                          | g                                          | 135          | 270   | 405 |
| Accessories, Optional           | Alarm Switch, AL                           | ○            |       |     |
|                                 | Auxiliary Switch, AX                       | ○            |       |     |
|                                 | Shunt Trip, SHT                            | ○            |       |     |

### Outer Dimensions of BH-D6

#### Side View



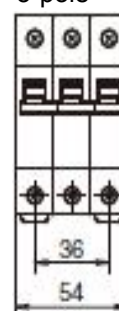
#### 1-pole



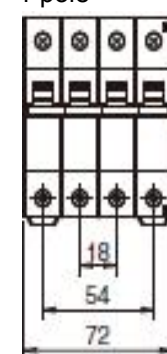
#### 2-pole



#### 3-pole



#### 4-pole



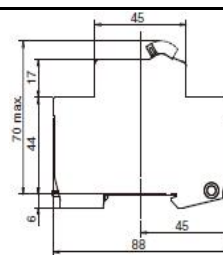
### Technical Data of BH-DN



BH-DN

|                                 |                                  |
|---------------------------------|----------------------------------|
| Type                            | BH-DN                            |
| Number of Poles                 | 2 (1+N)                          |
| Instantaneous Tripping          | Type C                           |
| Type of Overcurrent Release     | Thermal-magnetic                 |
| Rated Insulation Voltage, $U_i$ | 230V                             |
| Rated Current $I_n$ , A         | 6A, 10A, 16A, 20A                |
| Rated Short-circuit Capacity    | IEC60898-1, $I_{cn}$ 230AC 4.5kA |

### Outer Dimensions of BH-DN



**Miniature Circuit Breakers MT60**

MT60 Miniature Circuit Breakers meet any requirements for protection against overcurrent and short circuit for all domestic commercial and industrial application.

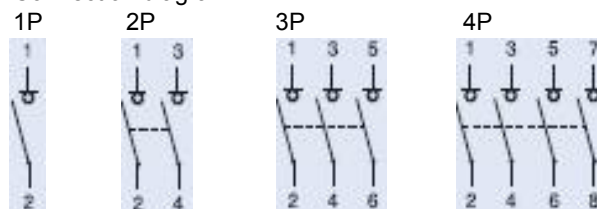
Selection Table of MT60 Miniature Circuit Breakers

|                                                                                                 | In              | Designation & Code |            | Designation & Code |           | Designation & Code |           | Units/Pack |
|-------------------------------------------------------------------------------------------------|-----------------|--------------------|------------|--------------------|-----------|--------------------|-----------|------------|
|                                                                                                 | Type            | Characteristic B   |            | Characteristic C   |           | Characteristic D   |           |            |
| <br>GW 92 006   | <b>1-pole</b>   |                    |            |                    |           |                    |           |            |
|                                                                                                 | 6A              | MT60-B6            | GW 92 205  | MT60-C6            | GW 92 005 | MT60-D6            | GW 92 405 | 12/120     |
|                                                                                                 | 10A             | MT60-B10           | GW 92 206  | MT60-C10           | GW 92 006 | MT60-D10           | GW 92 406 | 12/120     |
|                                                                                                 | 16A             | MT60-B16           | GW 92 207  | MT60-C16           | GW 92 007 | MT60-D16           | GW 92 407 | 12/120     |
|                                                                                                 | 20A             | MT60-B20           | GW 92 208  | MT60-C20           | GW 92 008 | MT60-D20           | GW 92 408 | 12/120     |
|                                                                                                 | 25A             | MT60-B25           | GW 92 209  | MT60-C25           | GW 92 009 | MT60-D25           | GW 92 409 | 12/120     |
|                                                                                                 | 32A             | MT60-B32           | GW 92 210  | MT60-C32           | GW 92 010 | MT60-D32           | GW 92 410 | 12/120     |
|                                                                                                 | 40A             | MT60-B40           | GW 92 211  | MT60-C40           | GW 92 011 | MT60-D40           | GW 92 411 | 12/120     |
|                                                                                                 | 50A             | MT60-B50           | GW 92 212  | MT60-C50           | GW 92 012 | -                  | -         | -          |
| 63A                                                                                             | MT60-B63        | GW 92 213          | MT60-C63   | GW 92 013          | -         | -                  | -         |            |
| <br>GW 92 027   | <b>1-pole+N</b> |                    |            |                    |           |                    |           |            |
|                                                                                                 | 6A              | -                  | -          | MT60-C6/N          | GW 92 025 | -                  | -         | 6/60       |
|                                                                                                 | 10A             | -                  | -          | MT60-C10/N         | GW 92 026 | -                  | -         | 6/60       |
|                                                                                                 | 16A             | -                  | -          | MT60-C16/N         | GW 92 027 | -                  | -         | 6/60       |
|                                                                                                 | 20A             | -                  | -          | MT60-C20/N         | GW 92 028 | -                  | -         | 6/60       |
|                                                                                                 | 25A             | -                  | -          | MT60-C25/N         | GW 92 029 | -                  | -         | 6/60       |
|                                                                                                 | 32A             | -                  | -          | MT60-C32/N         | GW 92 030 | -                  | -         | 6/60       |
|                                                                                                 | 40A             | -                  | -          | MT60-C40/N         | GW 92 031 | -                  | -         | 6/60       |
|                                                                                                 | 50A             | -                  | -          | MT60-C50/N         | GW 92 032 | -                  | -         | 6/60       |
| 63A                                                                                             | -               | -                  | MT60-C63/N | GW 92 033          | -         | -                  | 6/60      |            |
| <br>GW 92 046 | <b>2-pole</b>   |                    |            |                    |           |                    |           |            |
|                                                                                                 | 6A              | MT60-B6/2          | GW 92 245  | MT60-C6/2          | GW 92 045 | MT60-D6/2          | GW 92 445 | 6/60       |
|                                                                                                 | 10A             | MT60-B10/2         | GW 92 246  | MT60-C10/2         | GW 92 046 | MT60-D10/2         | GW 92 446 | 6/60       |
|                                                                                                 | 16A             | MT60-B16/2         | GW 92 247  | MT60-C16/2         | GW 92 047 | MT60-D16/2         | GW 92 447 | 6/60       |
|                                                                                                 | 20A             | MT60-B20/2         | GW 92 248  | MT60-C20/2         | GW 92 048 | MT60-D20/2         | GW 92 448 | 6/60       |
|                                                                                                 | 25A             | MT60-B25/2         | GW 92 249  | MT60-C25/2         | GW 92 049 | MT60-D25/2         | GW 92 449 | 6/60       |
|                                                                                                 | 32A             | MT60-B32/2         | GW 92 250  | MT60-C32/2         | GW 92 050 | MT60-D32/2         | GW 92 450 | 6/60       |
|                                                                                                 | 40A             | MT60-B40/2         | GW 92 251  | MT60-C40/2         | GW 92 051 | MT60-D40/2         | GW 92 451 | 6/60       |
|                                                                                                 | 50A             | MT60-B50/2         | GW 92 252  | MT60-C50/2         | GW 92 052 | -                  | -         | -          |
| 63A                                                                                             | MT60-B63/2      | GW 92 253          | MT60-C63/2 | GW 92 053          | -         | -                  | -         |            |
| <br>GW 92 067 | <b>3-pole</b>   |                    |            |                    |           |                    |           |            |
|                                                                                                 | 6A              | MT60-B6/3          | GW 92 265  | MT60-C6/3          | GW 92 065 | MT60-D6/3          | GW 92 465 | 4/40       |
|                                                                                                 | 10A             | MT60-B10/3         | GW 92 266  | MT60-C10/3         | GW 92 066 | MT60-D10/3         | GW 92 466 | 4/40       |
|                                                                                                 | 16A             | MT60-B16/3         | GW 92 267  | MT60-C16/3         | GW 92 067 | MT60-D16/3         | GW 92 467 | 4/40       |
|                                                                                                 | 20A             | MT60-B20/3         | GW 92 268  | MT60-C20/3         | GW 92 068 | MT60-D20/3         | GW 92 468 | 4/40       |
|                                                                                                 | 25A             | MT60-B25/3         | GW 92 269  | MT60-C25/3         | GW 92 069 | MT60-D25/3         | GW 92 469 | 4/40       |
|                                                                                                 | 32A             | MT60-B32/3         | GW 92 270  | MT60-C32/3         | GW 92 070 | MT60-D32/3         | GW 92 470 | 4/40       |
|                                                                                                 | 40A             | MT60-B40/3         | GW 92 271  | MT60-C40/3         | GW 92 071 | MT60-D40/3         | GW 92 471 | 4/40       |
|                                                                                                 | 50A             | MT60-B50/3         | GW 92 272  | MT60-C50/3         | GW 92 072 | -                  | -         | -          |
| 63A                                                                                             | MT60-B63/3      | GW 92 273          | MT60-C63/3 | GW 92 073          | -         | -                  | -         |            |
| <br>GW 92 090 | <b>4-pole</b>   |                    |            |                    |           |                    |           |            |
|                                                                                                 | 6A              | MT60-B6/4          | GW 92 285  | MT60-C6/4          | GW 92 085 | MT60-D6/4          | GW 92 485 | 4/40       |
|                                                                                                 | 10A             | MT60-B10/4         | GW 92 286  | MT60-C10/4         | GW 92 086 | MT60-D10/4         | GW 92 486 | 4/40       |
|                                                                                                 | 16A             | MT60-B16/4         | GW 92 287  | MT60-C16/4         | GW 92 087 | MT60-D16/4         | GW 92 487 | 4/40       |
|                                                                                                 | 20A             | MT60-B20/4         | GW 92 288  | MT60-C20/4         | GW 92 088 | MT60-D20/4         | GW 92 488 | 4/40       |
|                                                                                                 | 25A             | MT60-B25/4         | GW 92 289  | MT60-C25/4         | GW 92 089 | MT60-D25/4         | GW 92 489 | 4/40       |
|                                                                                                 | 32A             | MT60-B32/4         | GW 92 290  | MT60-C32/4         | GW 92 090 | MT60-D32/4         | GW 92 490 | 4/40       |
|                                                                                                 | 40A             | MT60-B40/4         | GW 92 291  | MT60-C40/4         | GW 92 091 | MT60-D40/4         | GW 92 491 | 4/40       |
|                                                                                                 | 50A             | MT60-B50/4         | GW 92 292  | MT60-C50/4         | GW 92 092 | -                  | -         | -          |
| 63A                                                                                             | MT60-B63/4      | GW 92 293          | MT60-C63/4 | GW 92 093          | -         | -                  | -         |            |

## Main Load Disconnect Switch (Isolator), IS

- Load circuit breaker with isolating function
- Design according to IEC/EN60947-3
- Highly wear resistant contacts
- Quick make, black toggle
- Terminal capacity 50mm<sup>2</sup>
- Compatible busbars with switchgear series xPoles by use of the mouth terminal in combination with standard fork busbar

Connection diagram



### Technical Data

|                                                     |                                                                 |       |       |       |       |       |       |        |        |
|-----------------------------------------------------|-----------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|
| Disconnect Switch                                   | IS-16                                                           | IS-20 | IS-25 | IS-32 | IS-40 | IS-63 | IS-80 | IS-100 | IS-125 |
| Mounting                                            | Quick-fastening with 2 lock-in positions on DIN rail, IEC/60715 |       |       |       |       |       |       |        |        |
| Degree of protection, built-in                      | IP40                                                            |       |       |       |       |       |       |        |        |
| Terminal protection                                 | Finger and hand touch safe according to BGV A3                  |       |       |       |       |       |       |        |        |
| Terminals                                           | Twin-purpose terminals                                          |       |       |       |       |       |       |        |        |
| Terminal capacity                                   | 2.5 to 50mm <sup>2</sup>                                        |       |       |       |       |       |       |        |        |
| Busbar thickness                                    | 0.8 to 1.0mm                                                    |       |       |       |       |       |       |        |        |
| Fastening torque of screws                          | 2.5 to 5.0Nm                                                    |       |       |       |       |       |       |        |        |
| Function                                            | Irrespective of the position of installation                    |       |       |       |       |       |       |        |        |
| Design according to                                 | IEC/EN 60947-3                                                  |       |       |       |       |       |       |        |        |
| Rated voltage                                       | 240/450VAC                                                      |       |       |       |       |       |       |        |        |
| Frequency                                           | 50/60Hz                                                         |       |       |       |       |       |       |        |        |
| Number of poles                                     | 1, 2, 3, 4-pole                                                 |       |       |       |       |       |       |        |        |
| Rated current, 240/415V, AC23A                      | 16A                                                             | 20A   | 25A   | 32A   | 40A   | 63A   | 80A   | 100A   | 125A   |
| Rated insulation voltage, U <sub>i</sub>            | 690V                                                            |       |       |       |       |       |       |        |        |
| Rated peak withstand voltage, U <sub>imp</sub>      | 6kV                                                             |       |       |       |       |       |       |        |        |
| Rated short-time withstand current, I <sub>cw</sub> | 2kA                                                             |       |       |       |       |       |       |        |        |
| Rated short-time making capacity, I <sub>cm</sub>   | 2.8kA                                                           |       |       |       |       |       |       |        |        |

### Selection Table

|                                                                                               | Rated Current, I <sub>n</sub> | Poles | Type Designation | Article Number | Units/Pack |
|-----------------------------------------------------------------------------------------------|-------------------------------|-------|------------------|----------------|------------|
| <br>IS-20/1 | 16A                           | 1     | IS-16/1          | 276254         | 12/120     |
|                                                                                               |                               | 2     | IS-16/2          | 276255         | 6/60       |
|                                                                                               |                               | 3     | IS-16/3          | 276256         | 4/40       |
|                                                                                               |                               | 4     | IS-16/4          | 276257         | 3/30       |
| <br>IS-32/1 | 20A                           | 1     | IS-20/1          | 276258         | 12/120     |
|                                                                                               |                               | 2     | IS-20/2          | 276259         | 6/60       |
|                                                                                               |                               | 3     | IS-20/3          | 276260         | 4/40       |
|                                                                                               |                               | 4     | IS-20/4          | 276261         | 3/30       |
| <br>IS-40/1 | 25A                           | 1     | IS-25/1          | 276262         | 12/120     |
|                                                                                               |                               | 2     | IS-25/2          | 276263         | 6/60       |
|                                                                                               |                               | 3     | IS-25/3          | 276264         | 4/40       |
|                                                                                               |                               | 4     | IS-25/4          | 276265         | 3/30       |
| <br>IS-50/1 | 32A                           | 1     | IS-32/1          | 276266         | 12/120     |
|                                                                                               |                               | 2     | IS-32/2          | 276267         | 6/60       |
|                                                                                               |                               | 3     | IS-32/3          | 276268         | 4/40       |
|                                                                                               |                               | 4     | IS-32/4          | 276269         | 3/30       |
|                                                                                               | 40A                           | 1     | IS-40/1          | 276270         | 12/120     |
|                                                                                               |                               | 2     | IS-40/2          | 276271         | 6/60       |
|                                                                                               |                               | 3     | IS-40/3          | 276272         | 4/40       |
|                                                                                               |                               | 4     | IS-40/4          | 276273         | 3/30       |
|                                                                                               | 63A                           | 1     | IS-63/1          | 276274         | 12/120     |
|                                                                                               |                               | 2     | IS-63/2          | 276275         | 6/60       |
|                                                                                               |                               | 3     | IS-63/3          | 276276         | 4/40       |
|                                                                                               |                               | 4     | IS-63/4          | 276277         | 3/30       |
|                                                                                               | 80A                           | 1     | IS-80/1          | 276278         | 12/120     |
|                                                                                               |                               | 2     | IS-80/2          | 276279         | 6/60       |
|                                                                                               |                               | 3     | IS-80/3          | 276280         | 4/40       |
|                                                                                               |                               | 4     | IS-80/4          | 276281         | 3/30       |
|                                                                                               | 100A                          | 1     | IS-100/1         | 276282         | 12/120     |
|                                                                                               |                               | 2     | IS-100/2         | 276283         | 6/60       |
|                                                                                               |                               | 3     | IS-100/3         | 276284         | 4/40       |
|                                                                                               |                               | 4     | IS-100/4         | 276285         | 3/30       |
|                                                                                               | 125A                          | 1     | IS-125/1         | 276286         | 12/120     |
|                                                                                               |                               | 2     | IS-125/2         | 276287         | 6/60       |
|                                                                                               |                               | 3     | IS-125/3         | 276288         | 4/40       |
|                                                                                               |                               | 4     | IS-125/4         | 276289         | 3/30       |

**Isolating Switches DX<sup>3</sup>-IS**

from 16A to 125A



AC 22 A according to IEC 60947-3;

Double breaking contacts;

Can be equipped with 1 DX<sup>3</sup> signalling auxiliary;

| Modules              | In, A | Category Number | Quantity/Pack |
|----------------------|-------|-----------------|---------------|
| <b>1-pole 250VAC</b> |       |                 |               |
| 16                   |       | 4 064 00        | 12/120        |
| 20                   |       | 4 064 01        | 12/120        |
| 32                   |       | 4 064 03        | 12/120        |
| 40                   |       | 4 064 11        | 12/120        |
| 63                   |       | 4 064 12        | 12/120        |
| 100                  |       | 4 064 23        | 12/120        |
| <b>2-pole 400VAC</b> |       |                 |               |
| 16                   |       | 4 064 31        | 6/60          |
| 20                   |       | 4 064 32        | 6/60          |
| 32                   |       | 4 064 33        | 6/60          |
| 40                   |       | 4 064 40        | 6/60          |
| 63                   |       | 4 064 41        | 6/60          |
| 100                  |       | 4 064 49        | 6/60          |
| 125                  |       | 4 064 50        | 6/60          |
| <b>3-pole 400VAC</b> |       |                 |               |
| 20                   |       | 4 064 57        | 4/40          |
| 32                   |       | 4 064 59        | 4/40          |
| 40                   |       | 4 064 60        | 4/40          |
| 63                   |       | 4 064 61        | 4/40          |
| 100                  |       | 4 064 69        | 4/40          |
| 125                  |       | 4 064 70        | 4/40          |
| <b>4-pole 400VAC</b> |       |                 |               |
| 20                   |       | 4 064 77        | 3/30          |
| 32                   |       | 4 064 79        | 3/30          |
| 40                   |       | 4 064 80        | 3/30          |
| 63                   |       | 4 064 81        | 3/30          |
| 100                  |       | 4 064 89        | 3/30          |
| 125                  |       | 4 064 90        | 3/30          |

**RCBOs DX<sup>3</sup> 6000**

residual current breakers with overload protection, 6-63A



Conform to IEC 61009-1;

Breaking Capacity, 6000-IEC 61009-1;

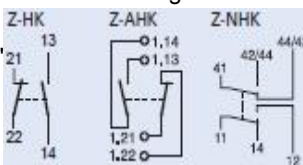
Enhanced immunity to unwanted tripping in disturbed environment

| Modules                                 | In, A | Sensitivity, mA | Category Number | Quantity/Pack |
|-----------------------------------------|-------|-----------------|-----------------|---------------|
| <b>Single pole + N, 230VAC, AC Type</b> |       |                 |                 |               |
| 16                                      | 10    |                 | 4 109 93        | 1/60          |
| 6                                       | 30    |                 | 4 109 99        | 1/60          |
| 10                                      | 30    |                 | 4 110 00        | 1/60          |
| 16                                      | 30    |                 | 4 110 02        | 1/60          |
| 20                                      | 30    |                 | 4 110 03        | 1/60          |
| 25                                      | 30    |                 | 4 110 04        | 1/60          |
| 32                                      | 30    |                 | 4 110 05        | 1/60          |
| 40                                      | 30    |                 | 4 110 06        | 1/60          |
| <b>Single pole + N, 230VAC, A Type</b>  |       |                 |                 |               |
| 16                                      | 10    |                 | 4 110 41        | 1/60          |
| 6                                       | 30    |                 | 4 110 47        | 1/60          |
| 10                                      | 30    |                 | 4 110 48        | 1/60          |
| 16                                      | 30    |                 | 4 110 50        | 1/60          |
| 20                                      | 30    |                 | 4 110 51        | 1/60          |
| 25                                      | 30    |                 | 4 110 52        | 1/60          |
| 32                                      | 30    |                 | 4 110 53        | 1/60          |
| 40                                      | 30    |                 | 4 110 54        | 1/60          |

## Auxiliary Switch ZP-IHK, ZP-WHK, Tripping Signal Switch ZP-NHK

- Design according to IEC/EN 62019
- No screws required, can be snapped onto PL, PLS, PKNM subsequently
- ZP-IHK, ZP-WHK: can be snapped on additionally 1 time onto itself
- The specified minimum voltages are per contact, take into account particularly in case of series connection
- Contact material and design particularly suitable for extra low voltage, contact function with relative movement.
- ZP-NHK: The function of one of the two change-over contacts can be switched from "auxiliary switch" to "tripping signal switch"
- Tripping signal contact transmits message of electric tripping, not mechanical switch-off
- Test key for contact function "electrical tripping"
- ZP-NHK: The "service button" is used to check whether or not the auxiliary switch is correctly wired in tripping-signal-switch position, activating "service button" will mechanically simulate an electrical switch-off, so the mechanism for electrical switch-off will disengage and can be checked, the main switchgear (MCB, combined MCB/RCD or RCD...) connected to ZP-NHK auxiliary switch does not need to trip as well during an inspection through the service button.

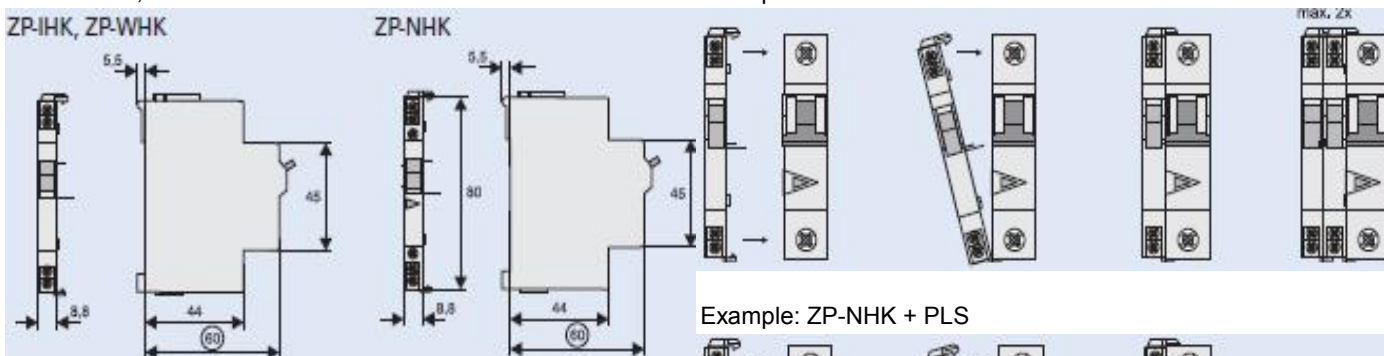
Connection diagrams



### Technical Data

|                                                            |                                                |                        |                        |
|------------------------------------------------------------|------------------------------------------------|------------------------|------------------------|
| Auxiliary Switch, Tripping Signal Switch                   | ZP-IHK                                         | ZP-WHK                 | ZP-NHK                 |
| Tripping indicator "electrical tripping"                   | -                                              | -                      | blue/white             |
| Frame size                                                 | 45mm                                           | 45mm                   | 45mm                   |
| Device height                                              | 80mm                                           | 80mm                   | 80mm                   |
| Device width                                               | 8.8mm, 0.5MU                                   | 8.8mm, 0.5MU           | 8.8mm, 0.5MU           |
| Degree of protection, built-in                             | IP40                                           | IP40                   | IP40                   |
| Terminal protection                                        | Finger and hand touch safe according to BGV A3 |                        |                        |
| Terminals                                                  | Lift terminals                                 | Lift terminals         | Lift terminals         |
| Terminal capacity                                          | 0.5-2.5mm <sup>2</sup>                         | 0.5-2.5mm <sup>2</sup> | 0.5-2.5mm <sup>2</sup> |
| Terminal screws                                            | M4, Pozidrive Z2                               | M4, Pozidrive Z2       | M4, Pozidrive Z0       |
| Fastening torque of terminal screws                        | Maximum 1.2Nm                                  | Maximum 1.2Nm          | Maximum 1.2Nm          |
| Can be mounted from the left onto                          | MCB                                            | PL, PLS, PLZ           | PL, PLS, PLZ           |
|                                                            | RCD/MCB                                        | PKNM                   | PKNM                   |
|                                                            | Accessories                                    | ZP-A40, ZP-ASA, Z-MS   | ZP-A40, ZP-ASA, Z-MS   |
| Contact function                                           | 1NO + 1NC                                      | 1NC                    | 2NO                    |
| Rated voltage                                              | 250V                                           | 250V                   | 250V                   |
| Frequency                                                  | 50/60Hz                                        | 50/60Hz                | 50/60Hz                |
| Rated current                                              | 6A                                             | 6A                     | 4A                     |
| Rated thermal current, I <sub>th</sub>                     | 6A                                             | 6A                     | 4A                     |
| Rated operational current in category AC13, I <sub>e</sub> | 3A/250VAC                                      | 3A/250VAC              | 3A/250VAC              |
| Rated operational current in category AC15, I <sub>e</sub> | 2A/250VAC                                      | 2A/250VAC              | 2A/250VAC              |
| Rated operational current in category DC12, I <sub>e</sub> | 0.5A/110VDC                                    | 0.5A/110VDC            | 0.5A/110VDC            |
| Rated insulation voltage, U <sub>i</sub>                   | 250VAC                                         | 250VAC                 | 250VAC                 |
| Minimum operational voltage per contact, U <sub>min</sub>  | 5VDC                                           | 5VDC                   | 5VDC                   |
| Minimum operational current, I <sub>min</sub>              | 10mA, DC                                       | 10mA, DC               | 10mA, DC               |
| Rated peak withstand voltage, U <sub>imp</sub>             | 2.5kV                                          | 2.5kV                  | 2.5kV                  |

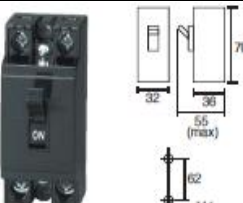
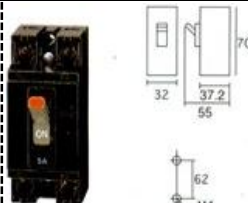
### Dimensions, mm



## Safety Breaker and Earth Leakage Breaker, HB and BJS Type

Complete range of products with a compact design.

### Safety Breaker HB and S-HB Type

|                      |                                                                                   |          |          |          |          |                   |                                                                                     |                   |         |          |          |  |
|----------------------|-----------------------------------------------------------------------------------|----------|----------|----------|----------|-------------------|-------------------------------------------------------------------------------------|-------------------|---------|----------|----------|--|
| Dimensions, mm       |  |          |          |          |          |                   |  |                   |         |          |          |  |
| Appearance           | <b>Safety Breaker, HB Type:</b>                                                   |          |          |          |          |                   | <b>S-HB Type</b>                                                                    |                   |         |          |          |  |
| Mounting Pitch, mm   |                                                                                   |          |          |          |          |                   |                                                                                     |                   |         |          |          |  |
| Type                 | BS11106TV                                                                         | BS1110TV | BS1111TV | BS1112TV | BS1113TV | BS2022TV          | BS2023TV                                                                            | BS220TV           | BS230TV | BS2202TV | BS2302TV |  |
| Poles & Elements     | 2P1E                                                                              |          |          |          |          | 2P2E              |                                                                                     | 2P1E              |         | 2P2E     |          |  |
| Rated Current, In    | 6A                                                                                | 10A      | 15A      | 20A      | 30A      | 20A               | 30A                                                                                 | 20A               | 30A     | 20A      | 30A      |  |
| Rated Voltage, Ue    | AC240V, 1.0kA (6A), 1.5kA (10, 15, 20, 30A)                                       |          |          |          |          | AC120/240V, 1.5kA |                                                                                     | AC240/415V, 2.5kA |         |          |          |  |
| Tripping Mechanism   | Terminal Method Operation                                                         |          |          |          |          |                   |                                                                                     |                   |         |          |          |  |
| Arc Quenching Method | Natural Quenching                                                                 |          |          |          |          |                   |                                                                                     |                   |         |          |          |  |
| Interrupting Time    | 10ms (100%)                                                                       |          |          |          |          |                   | 5ms (50%)                                                                           |                   |         |          |          |  |
| Passage of Short     | 23x10 <sup>3</sup> A <sup>2</sup> Sec (100%)                                      |          |          |          |          |                   | 5.7x10 <sup>3</sup> A <sup>2</sup> Sec (25%)                                        |                   |         |          |          |  |
| Weight               | 0.07kg                                                                            |          |          |          |          | 0.08kg            |                                                                                     | 0.09kg            |         | 0.11kg   |          |  |
| Application          | Air Conditioner, Water Pump, Water Heater                                         |          |          |          |          |                   |                                                                                     |                   |         |          |          |  |

1. Use 20A for normal current branch circuits, and 30A for high capacity dedicated circuits;
2. Use 15A or less for machine protection, after consideration of its characteristic: inrush current and usual currents;
3. The data in capacity mentioned above are just for your reference, which are Panasonic's experimental ones;

### Earth Leakage Breaker BJS Type

|                                     |                                                                                     |            |                                                                                      |          |          |          |          |          |          |          |          |
|-------------------------------------|-------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Dimensions, mm                      |  |            |  |          |          |          |          |          |          |          |          |
| Appearance                          |  |            |   |          |          |          |          |          |          |          |          |
| Mounting Pitch, mm                  | 62                                                                                  |            | 62                                                                                   |          |          |          |          |          |          |          |          |
| Type                                | BJS30208A2                                                                          | BJS30308A2 | BJS15125                                                                             | BJS15225 | BJS15325 | BJS20125 | BJS20225 | BJS20325 | BJS30125 | BJS30225 | BJS30325 |
| Poles & Elements                    | 2P0E                                                                                |            | 2P2E                                                                                 |          |          |          |          |          |          |          |          |
| Rated Current, In                   | 30A                                                                                 |            | 15A                                                                                  |          |          | 20A      |          |          | 30A      |          |          |
| Rated Voltage, Ue                   | AC120-240V                                                                          |            | AC100-240V                                                                           |          |          |          |          |          |          |          |          |
| Rated Operating Current             | 15mA                                                                                | 30mA       | 10mA                                                                                 | 15mA     | 30mA     | 10mA     | 15mA     | 30mA     | 10mA     | 15mA     | 30mA     |
| Rated Non-operating Current         | 7.5mA                                                                               | 15mA       | 6mA                                                                                  | 7.5mA    | 15mA     | 6mA      | 7.5mA    | 15mA     | 6mA      | 7.5mA    | 15mA     |
| Rated Short-time Current            | 1.5kA                                                                               |            |                                                                                      |          |          |          |          |          |          |          |          |
| Phase & Wiring Configuration        | 1Ø2W                                                                                |            | 1Ø2W, 1Ø3W                                                                           |          |          |          |          |          |          |          |          |
| Operating Time                      | Within 0.1 Second                                                                   |            |                                                                                      |          |          |          |          |          |          |          |          |
| Handle Type                         | Standard                                                                            |            | -                                                                                    |          |          |          |          |          |          |          |          |
| Connecting Method                   | For direct installation of electrical wiring                                        |            |                                                                                      |          |          |          |          |          |          |          |          |
| Weight                              | 0.1kg                                                                               |            | 0.09kg                                                                               |          |          |          |          |          |          |          |          |
| Overload Current Tripping Mechanism | None                                                                                |            | Thermal Operation                                                                    |          |          |          |          |          |          |          |          |
| Application                         | Water Heater, Refrigerator, Fleezer                                                 |            |                                                                                      |          |          |          |          |          |          |          |          |

1. Rated short-time current means that although short-circuit protection is not possible, the internal circuitry and conductors can withstand 1.5kA for 0.02 seconds;
2. Ambient temperature range for usage: -10°C to +50°C;
3. Disconnect electrical wiring before measuring insulation resistance between wires;

Safety Breakers BSB1

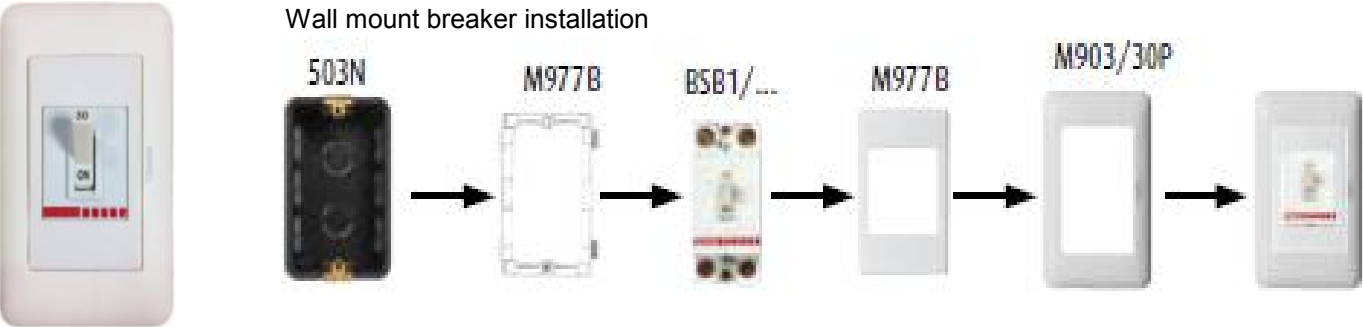
Safety breakers BSB1 are the ideal solution for protection of your appliances, they provide high reliability with aesthetic look, protect all kinds of home appliances against thermal overload with ratings from 10A to 30A. Available flush mounted safety breakers in Matix coverplates and Magic advance coverplates, and surface mounted safety breaker in plastic backbox.

Selection Table of BSB1 Safety Breakers

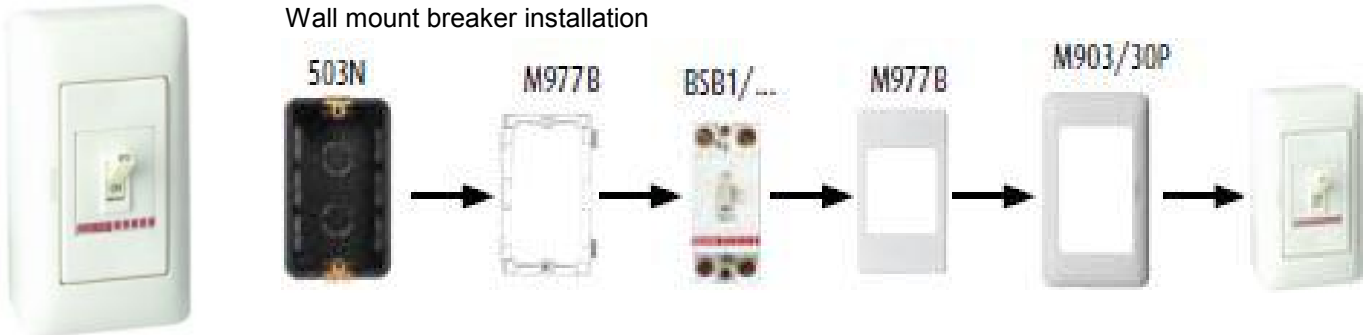
|                                                                                   |                                                                                   |                                                                                   |                                  |         |         |         |         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------|---------|---------|---------|---------|
|  |  |  | Safety Breakers                  | BSB1/10 | BSB1/15 | BSB1/20 | BSB1/30 |
|                                                                                   |                                                                                   |                                                                                   | Poles and Elements               | 2P1E    | 2P1E    | 2P1E    | 2P1E    |
|                                                                                   |                                                                                   |                                                                                   | Rated Current, In                | 10A     | 15A     | 20A     | 30A     |
|                                                                                   |                                                                                   |                                                                                   | Rated Voltage, Ue                | 220VAC  | 220VAC  | 220VAC  | 220VAC  |
|                                                                                   |                                                                                   |                                                                                   | Rated Short Circuit Current, Icu | 1.5kA   | 1.5kA   | 1.5kA   | 1.5kA   |
|                                                                                   |                                                                                   |                                                                                   | Weight                           | 0.10kg  | 0.10kg  | 0.10kg  | 0.10kg  |

BSB1/10      BSB1/15      BSB1/30

A flush-mouned safety breaker with plastic cover plate, M903/30P  
Wall mount breaker installation



A surface-mouned safety breaker with plastic cover plate, M977B  
Wall mount breaker installation



A plastic mini-box, surface-mounted safety breaker with new design, M978P  
Wall mount breaker installation



## Disjoncteur Dismatic

**New circuit breaker and switch combination for protection of air-conditioning systems.**

Design engineers today are trying to systematically reduce individual components, this is a key factor of cost-efficient design.

Normally less components also means more space which is enabled by the design of compact products, in order to support Design Engineers in their search for parts reduction, E-T-A offers a combination of circuit breakers and switches, these are thermal circuit breakers providing overcurrent protection and serve as an On/Off switch for devices, machinery and equipment at the same time, E-T-A is the world market leader in circuit protection and offers a wide range of circuit breaker and switch combinations, it does not only include various designs and actuating methods, but also a wealth of color, marking and illumination options.



The new installation frame "Dismatic" made by Legrand

### **New: type 3130 with push button operation**

The latest model in the circuit breaker/switch combination range of E-T-A is the single pole thermal circuit breaker type 3130 with push button operation, the design was initiated by our French customer Legrand who uses E-T-A's circuit breakers in installation frames of On/Off switches for air-conditioning systems, the 3130 provides overcurrent protection for the installation cables leading from the switch frame to the air-conditioning system, in the event of an overcurrent the E-T-A circuit breaker trips, goes into Off position and reliably disconnects the air-conditioning system and its cables from the supply network. Another feature of type 3130 with push button operation is a new option for electrical connection: it can be ordered with 45° angled screw terminals with M4 screws and clamping piece, this makes the 3130 a valuable and highly suitable component for installation technology.

### **A Choice of applications**

E-T-A circuit breaker and switch combinations are suited for a wide range of applications due to their robust and reliable design, including medical equipments, professional tools, household appliances and gardening tools, for example in France, E-T-A products are used by manufacturers of floor sanding machines and concrete vibrators, another application field is sailing yachts where the E-T-A circuit breakers are installed in central dashboards, they serve for switching on and off of all loads on board such as bilge pump the anchor light of interior lights, at the same time they protect cables and loads against possible damages caused by overheating in the event of overcurrents.



New E-T-A circuit breaker version type 3130 with two push buttons

**Diruptor Range 7000**

## Technical Data

|                                         |                                                                                   |                                |      |      |                                                                                   |      |                      |  |                                                                                   |                |      |                         |                                                                                     |  |         |      |                                                                                     |      |  |  |             |           |  |  |  |
|-----------------------------------------|-----------------------------------------------------------------------------------|--------------------------------|------|------|-----------------------------------------------------------------------------------|------|----------------------|--|-----------------------------------------------------------------------------------|----------------|------|-------------------------|-------------------------------------------------------------------------------------|--|---------|------|-------------------------------------------------------------------------------------|------|--|--|-------------|-----------|--|--|--|
| Range                                   | 7000                                                                              |                                |      |      |                                                                                   |      |                      |  |                                                                                   |                |      |                         |                                                                                     |  |         |      |                                                                                     |      |  |  |             |           |  |  |  |
| Mounting                                | 0                                                                                 | Plug-in                        |      |      |                                                                                   | 1    | Flush Mounting 2     |  |                                                                                   |                | 2    | Flush Mounting Threaded |                                                                                     |  |         | 3    | Snap on DIN Rail                                                                    |      |  |  | 5           | Push-push |  |  |  |
|                                         | 9                                                                                 | Plug in base for Print Circuit |      |      |                                                                                   |      | Screws on Front Face |  |                                                                                   |                |      | Collar on Front Face    |                                                                                     |  |         | 7    | Asymetrical Symetrical                                                              |      |  |  |             |           |  |  |  |
|                                         |  |                                |      |      |  |      |                      |  |  |                |      |                         |  |  |         |      |  |      |  |  |             |           |  |  |  |
| Number of Poles                         | 1                                                                                 | 2                              | 3    | 4    | 1                                                                                 | 2    | 3                    |  |                                                                                   | 1              | 2    | 3                       | 4                                                                                   |  | 1       | 2    | 3                                                                                   | 4    |  |  | 1           |           |  |  |  |
| Standard Connections                    | 0                                                                                 | 7                              | 9    | 409  | 101-104-204-409                                                                   |      |                      |  |                                                                                   | 101-104-204    |      |                         |                                                                                     |  | 402-413 |      |                                                                                     |      |  |  | 101-104-409 |           |  |  |  |
|                                         |                                                                                   |                                |      | 909  | 463-514(2)-909                                                                    |      |                      |  |                                                                                   | 409-463-514(2) |      |                         |                                                                                     |  |         |      |                                                                                     |      |  |  |             |           |  |  |  |
| Rated Voltages                          | 230/400VAC, 72VDC                                                                 |                                |      |      |                                                                                   |      |                      |  |                                                                                   |                |      |                         |                                                                                     |  |         |      |                                                                                     |      |  |  |             |           |  |  |  |
| <b>Release Characteristics</b>          |                                                                                   |                                |      |      |                                                                                   |      |                      |  |                                                                                   |                |      |                         |                                                                                     |  |         |      |                                                                                     |      |  |  |             |           |  |  |  |
| Thermal                                 | 0.04                                                                              | 0.04                           | 0.04 | 0.04 | 0.04                                                                              | 0.04 | 0.04                 |  |                                                                                   | 0.04           | 0.04 | 0.04                    | 0.04                                                                                |  | 0.04    | 0.04 | 0.04                                                                                | 0.04 |  |  | 0.04        |           |  |  |  |
| Rated Current, A                        | 20                                                                                | 20                             | 20   | 20   | 40                                                                                | 32   | 32                   |  |                                                                                   | 40             | 32   | 32                      | 32                                                                                  |  | 40      | 32   | 32                                                                                  | 32   |  |  | 40          |           |  |  |  |
| Thermal-magnetic                        | 0.10                                                                              | 0.10                           | 0.10 | 0.10 | 0.10                                                                              | 0.10 | 0.10                 |  |                                                                                   | 0.10           | 0.10 | 0.10                    | 0.10                                                                                |  | 0.10    | 0.10 | 0.10                                                                                | 0.10 |  |  | 0.10        |           |  |  |  |
| Rated Current, A                        | 20                                                                                | 20                             | 20   | 20   | 40                                                                                | 32   | 32                   |  |                                                                                   | 40             | 32   | 32                      | 32                                                                                  |  | 40      | 32   | 32                                                                                  | 32   |  |  | 40          |           |  |  |  |
| Magnetic Only (1)                       | 14A eff. 20A, AC Maxi                                                             |                                |      |      |                                                                                   |      |                      |  |                                                                                   |                |      |                         |                                                                                     |  |         |      |                                                                                     |      |  |  |             |           |  |  |  |
| Rated Current, A (1)                    |                                                                                   |                                |      |      |                                                                                   |      |                      |  |                                                                                   |                |      |                         |                                                                                     |  |         |      |                                                                                     |      |  |  |             |           |  |  |  |
| Mixed Poles                             | -                                                                                 | ■                              | ■    | ■    | -                                                                                 | ■    | ■                    |  |                                                                                   | -              | ■    | ■                       | ■                                                                                   |  | -       | ■    | ■                                                                                   | ■    |  |  | -           |           |  |  |  |
| Special Characteristics                 | ■                                                                                 | ■                              | ■    | ■    | ■                                                                                 | ■    | ■                    |  |                                                                                   | ■              | ■    | ■                       | ■                                                                                   |  | ■       | ■    | ■                                                                                   | ■    |  |  | ■           |           |  |  |  |
| Number of Electrical Cycles             | 8000                                                                              |                                |      |      | 8000                                                                              |      |                      |  |                                                                                   |                | 8000 |                         |                                                                                     |  |         | 8000 |                                                                                     |      |  |  |             | 8000      |  |  |  |
| Breaking Capacity                       | Up to 1500A, AC/1500A, DC48V(56V)/800A, DC72V(90V)                                |                                |      |      |                                                                                   |      |                      |  |                                                                                   |                |      |                         |                                                                                     |  |         |      |                                                                                     |      |  |  |             |           |  |  |  |
| Tropicalization                         | ■                                                                                 | ■                              | ■    | ■    | ■                                                                                 | ■    | ■                    |  |                                                                                   | ■              | ■    | ■                       | ■                                                                                   |  | ■       | ■    | ■                                                                                   | ■    |  |  | ■           |           |  |  |  |
| Compensation                            | ■                                                                                 | ■                              | ■    | ■    | ■                                                                                 | ■    | ■                    |  |                                                                                   | ■              | ■    | ■                       | ■                                                                                   |  | ■       | ■    | ■                                                                                   | ■    |  |  | ■           |           |  |  |  |
| Adjustment at 60°C                      | ■                                                                                 | ■                              | ■    | ■    | ■                                                                                 | ■    | ■                    |  |                                                                                   | ■              | ■    | ■                       | ■                                                                                   |  | ■       | ■    | ■                                                                                   | ■    |  |  | ■           |           |  |  |  |
| Special Contacts, thermal only          | ■                                                                                 | ■                              | ■    | ■    | ■                                                                                 | ■    | ■                    |  |                                                                                   | ■              | ■    | ■                       | ■                                                                                   |  | ■       | ■    | ■                                                                                   | ■    |  |  | ■           |           |  |  |  |
| Special Adjustment for Magnetic Release | ■                                                                                 | ■                              | ■    | ■    | ■                                                                                 | ■    | ■                    |  |                                                                                   | ■              | ■    | ■                       | ■                                                                                   |  | ■       | ■    | ■                                                                                   | ■    |  |  | ■           |           |  |  |  |
| Outside Control of Release              | On Request                                                                        |                                |      |      |                                                                                   |      |                      |  |                                                                                   |                |      |                         |                                                                                     |  |         |      |                                                                                     |      |  |  |             |           |  |  |  |
| <b>Auxiliary Contacts</b>               |                                                                                   |                                |      |      |                                                                                   |      |                      |  |                                                                                   |                |      |                         |                                                                                     |  |         |      |                                                                                     |      |  |  |             |           |  |  |  |
| Normally Open                           | ■                                                                                 | ■                              | ■    | ■    | ■                                                                                 | ■    | ■                    |  |                                                                                   | ■              | ■    | ■                       | ■                                                                                   |  | ■       | ■    | ■                                                                                   | ■    |  |  | ■           |           |  |  |  |
| Normally Closed                         | ■                                                                                 | ■                              | ■    | ■    | ■                                                                                 | ■    | ■                    |  |                                                                                   | ■              | ■    | ■                       | ■                                                                                   |  | ■       | ■    | ■                                                                                   | ■    |  |  | ■           |           |  |  |  |
| Changeover                              | ■                                                                                 | ■                              | ■    | ■    | ■                                                                                 | ■    | ■                    |  |                                                                                   | ■              | ■    | ■                       | ■                                                                                   |  | ■       | ■    | ■                                                                                   | ■    |  |  | ■           |           |  |  |  |
| Marking                                 | ■                                                                                 | ■                              | ■    | ■    | ■                                                                                 | ■    | ■                    |  |                                                                                   | ■              | ■    | ■                       | ■                                                                                   |  | ■       | ■    | ■                                                                                   | ■    |  |  | ■           |           |  |  |  |
| Raised Base                             | ■                                                                                 | ■                              | ■    | ■    | -                                                                                 | -    | -                    |  |                                                                                   | -              | -    | -                       | -                                                                                   |  | -       | -    | -                                                                                   | -    |  |  | -           |           |  |  |  |
| Base for Print Circuit                  | ■                                                                                 | ■                              | ■    | ■    | -                                                                                 | -    | -                    |  |                                                                                   | ■              | ■    | ■                       | ■                                                                                   |  | -       | -    | -                                                                                   | -    |  |  | ■           |           |  |  |  |
| Base for Rail DIN                       | ■                                                                                 | ■                              | ■    | ■    | -                                                                                 | -    | -                    |  |                                                                                   | ■              | ■    | ■                       | ■                                                                                   |  | -       | -    | -                                                                                   | -    |  |  | -           |           |  |  |  |
| Waterproof Cap                          | ■                                                                                 | ■                              | ■    | ■    | ■                                                                                 | ■    | ■                    |  |                                                                                   | ■              | ■    | ■                       | ■                                                                                   |  | ■       | ■    | ■                                                                                   | ■    |  |  | ■           |           |  |  |  |

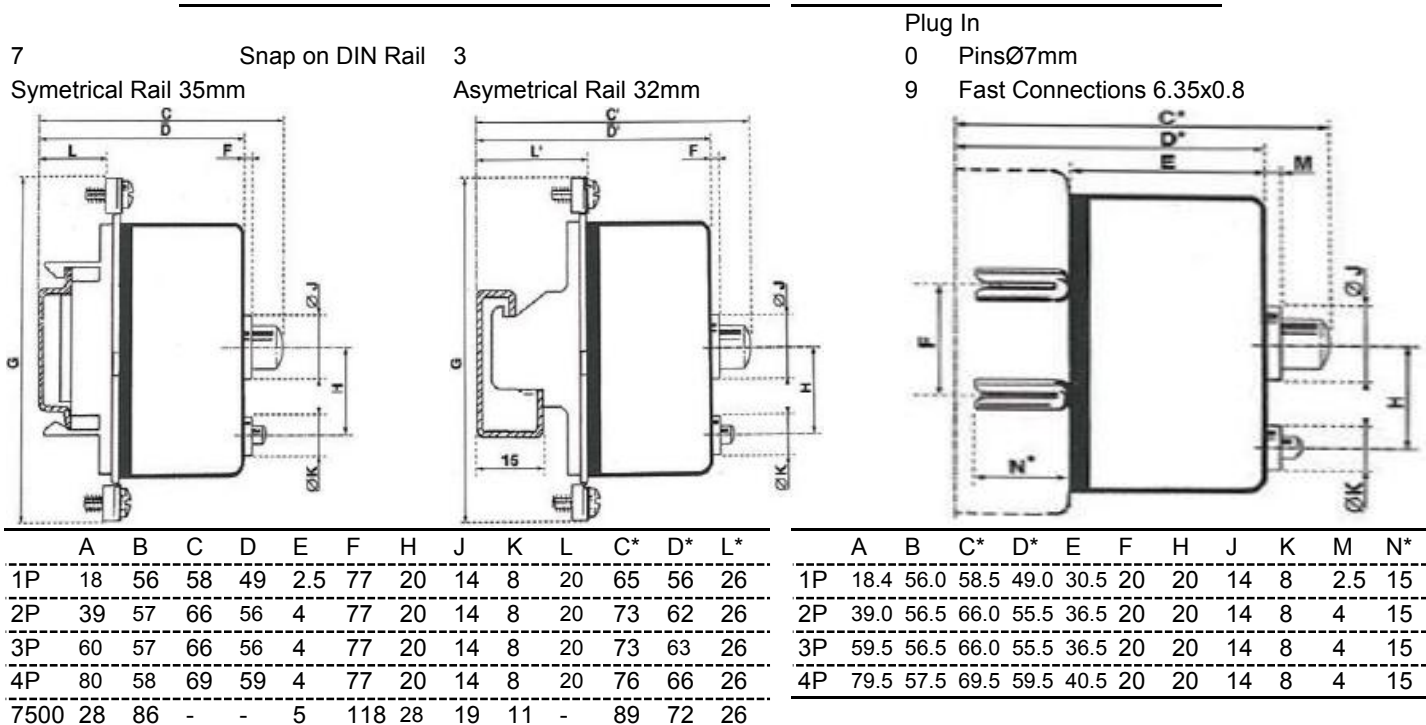
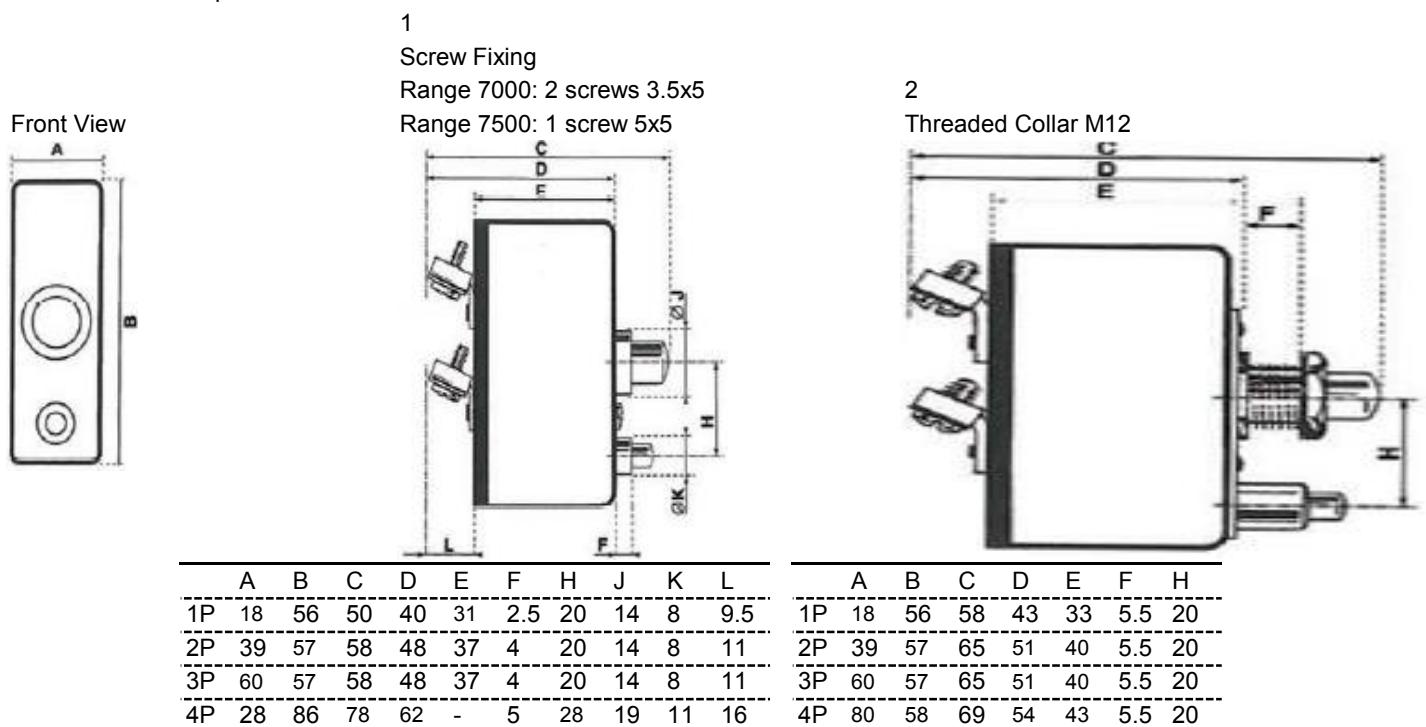
**Diruptor Range Option HP and 7500**

## Technical Data

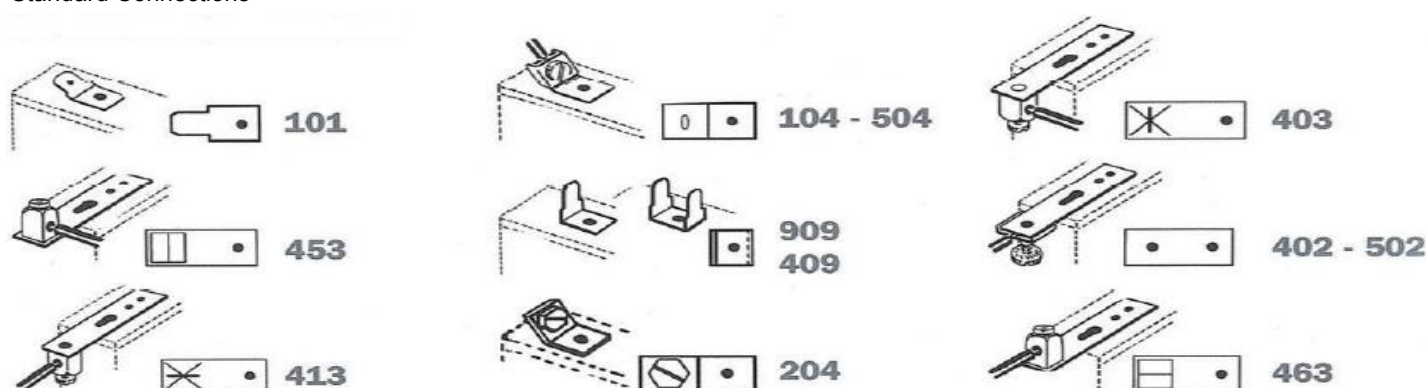
| Range                                   | Option HP                                                                         |    |    |    |                                                                                   |    |    |                 |                                                                                   |    |    |       |                                                                                     |    |    |    | 7500                                                                                |     |  |  |
|-----------------------------------------|-----------------------------------------------------------------------------------|----|----|----|-----------------------------------------------------------------------------------|----|----|-----------------|-----------------------------------------------------------------------------------|----|----|-------|-------------------------------------------------------------------------------------|----|----|----|-------------------------------------------------------------------------------------|-----|--|--|
| Mounting                                | 0 Plug-in                                                                         |    |    |    | 1 Flush Mounting 2                                                                |    |    |                 | 2 Flush Mounting Threaded                                                         |    |    |       | 3 Snap on DIN Rail                                                                  |    |    |    | 1 Flush Mounting 1                                                                  |     |  |  |
|                                         | 9 Plug in base for Print Circuit                                                  |    |    |    | Screws on Front Face                                                              |    |    |                 | Collar on Front Face                                                              |    |    |       | 7 Asymetrical Symetrical                                                            |    |    |    | Screw on Front Face                                                                 |     |  |  |
|                                         |                                                                                   |    |    |    |                                                                                   |    |    |                 |                                                                                   |    |    |       |                                                                                     |    |    |    | 3 Asymetrical                                                                       |     |  |  |
|                                         |                                                                                   |    |    |    |                                                                                   |    |    |                 |                                                                                   |    |    |       |                                                                                     |    |    |    | 7 Symetrical                                                                        |     |  |  |
|                                         |  |    |    |    |  |    |    |                 |  |    |    |       |  |    |    |    |  |     |  |  |
| Number of Poles                         | 1                                                                                 | 2  | 3  | 4  | 1                                                                                 | 2  | 3  |                 | 1                                                                                 | 2  | 3  | 4     | 1                                                                                   | 2  | 3  | 4  |                                                                                     | 1   |  |  |
| Standard Connections                    | 0                                                                                 | 7  | 0  | 9  | 4                                                                                 | 0  | 9  | 101-104-463-514 | 101-104-409-514                                                                   | 4  | 0  | 2-413 | 502-504                                                                             |    |    |    |                                                                                     |     |  |  |
| Rated Voltages                          | 230/400VAC,30VDC                                                                  |    |    |    |                                                                                   |    |    |                 |                                                                                   |    |    |       |                                                                                     |    |    |    |                                                                                     |     |  |  |
| Release Characteristics                 |                                                                                   |    |    |    |                                                                                   |    |    |                 |                                                                                   |    |    |       |                                                                                     |    |    |    |                                                                                     |     |  |  |
| Thermal                                 | -                                                                                 | -  | -  | -  | -                                                                                 | -  | -  |                 |                                                                                   |    |    |       |                                                                                     |    |    |    |                                                                                     | 2   |  |  |
| Rated Current, A                        |                                                                                   |    |    |    |                                                                                   |    |    |                 |                                                                                   |    |    |       |                                                                                     |    |    |    |                                                                                     | 100 |  |  |
| Thermal-magnetic                        | 2                                                                                 | 2  | 2  | 2  | 2                                                                                 | 2  | 2  | 2               | 2                                                                                 | 2  | 2  | 2     | 2                                                                                   | 2  | 2  | 2  | 2                                                                                   | 2   |  |  |
| Rated Current, A                        | 20                                                                                | 20 | 20 | 20 | 40                                                                                | 32 | 32 | 40              | 32                                                                                | 32 | 32 | 40    | 32                                                                                  | 32 | 32 | 40 | 32                                                                                  | 70  |  |  |
| Magnetic Only (1)                       | -                                                                                 |    |    |    | -                                                                                 |    |    | -               |                                                                                   |    |    | -     |                                                                                     |    |    | -  |                                                                                     | -   |  |  |
| Rated Current, A (1)                    |                                                                                   |    |    |    |                                                                                   |    |    |                 |                                                                                   |    |    |       |                                                                                     |    |    |    |                                                                                     |     |  |  |
| Mixed Poles                             | -                                                                                 | ■  | ■  | ■  | -                                                                                 | ■  | ■  | -               | ■                                                                                 | ■  | ■  | -     | ■                                                                                   | ■  | ■  | ■  | -                                                                                   | -   |  |  |
| Special Characteristics                 | ■                                                                                 | ■  | ■  | ■  | ■                                                                                 | ■  | ■  | ■               | ■                                                                                 | ■  | ■  | ■     | ■                                                                                   | ■  | ■  | ■  | ■                                                                                   | ■   |  |  |
| Number of Electrical Cycles             | 8000                                                                              |    |    |    | 8000                                                                              |    |    |                 | 8000                                                                              |    |    |       | 8000                                                                                |    |    |    | 8000                                                                                |     |  |  |
| Breaking Capacity                       | 6kA, AC                                                                           |    |    |    |                                                                                   |    |    |                 |                                                                                   |    |    |       |                                                                                     |    |    |    |                                                                                     |     |  |  |
| Tropicalization                         | ■                                                                                 | ■  | ■  | ■  | ■                                                                                 | ■  | ■  | ■               | ■                                                                                 | ■  | ■  | ■     | ■                                                                                   | ■  | ■  | ■  | ■                                                                                   | ■   |  |  |
| Compensation                            | -                                                                                 | -  | -  | -  | -                                                                                 | -  | -  | -               | -                                                                                 | -  | -  | -     | -                                                                                   | -  | -  | -  | -                                                                                   | -   |  |  |
| Adjustment at 60°C                      | ■                                                                                 | ■  | ■  | ■  | ■                                                                                 | ■  | ■  | ■               | ■                                                                                 | ■  | ■  | ■     | ■                                                                                   | ■  | ■  | ■  | ■                                                                                   | ■   |  |  |
| Special Contacts, thermal only          | -                                                                                 | -  | -  | -  | -                                                                                 | -  | -  | -               | -                                                                                 | -  | -  | -     | -                                                                                   | -  | -  | -  | -                                                                                   | -   |  |  |
| Special Adjustment for Magnetic Release | ■                                                                                 | ■  | ■  | ■  | ■                                                                                 | ■  | ■  | ■               | ■                                                                                 | ■  | ■  | ■     | ■                                                                                   | ■  | ■  | ■  | ■                                                                                   | ■   |  |  |
| Outside Control of Release              | On Request                                                                        |    |    |    |                                                                                   |    |    |                 |                                                                                   |    |    |       |                                                                                     |    |    |    |                                                                                     |     |  |  |
| Auxiliary Contacts                      |                                                                                   |    |    |    |                                                                                   |    |    |                 |                                                                                   |    |    |       |                                                                                     |    |    |    |                                                                                     |     |  |  |
| Normally Open                           | -                                                                                 | -  | -  | -  | -                                                                                 | -  | -  | -               | -                                                                                 | -  | -  | -     | -                                                                                   | -  | -  | -  | -                                                                                   | -   |  |  |
| Normally Closed                         | -                                                                                 | -  | -  | -  | -                                                                                 | -  | -  | -               | -                                                                                 | -  | -  | -     | -                                                                                   | -  | -  | -  | -                                                                                   | -   |  |  |
| Changeover                              | -                                                                                 | -  | -  | -  | -                                                                                 | -  | -  | -               | -                                                                                 | -  | -  | -     | -                                                                                   | -  | -  | -  | -                                                                                   | ■   |  |  |
| Marking                                 | ■                                                                                 | ■  | ■  | ■  | ■                                                                                 | ■  | ■  | ■               | ■                                                                                 | ■  | ■  | ■     | ■                                                                                   | ■  | ■  | ■  | ■                                                                                   | ■   |  |  |
| Raised Base                             | ■                                                                                 | ■  | ■  | ■  | -                                                                                 | -  | -  | -               | -                                                                                 | -  | -  | -     | -                                                                                   | -  | -  | -  | -                                                                                   | -   |  |  |
| Base for Print Circuit                  | ■                                                                                 | ■  | ■  | ■  | -                                                                                 | -  | -  | -               | -                                                                                 | -  | -  | -     | -                                                                                   | -  | -  | -  | -                                                                                   | -   |  |  |
| Base for Rail DIN                       | ■                                                                                 | -  | -  | -  | -                                                                                 | -  | -  | -               | -                                                                                 | -  | -  | -     | -                                                                                   | -  | -  | -  | -                                                                                   | -   |  |  |
| Waterproof Cap                          | ■                                                                                 | ■  | ■  | ■  | ■                                                                                 | ■  | ■  | ■               | ■                                                                                 | ■  | ■  | ■     | ■                                                                                   | ■  | ■  | ■  | ■                                                                                   | -   |  |  |

# Diruptor Range 7000, Option HP and 7500

Dimensions of Diruptor



Standard Connections



**Diruptor Range 7000, Option HP and 7500**

How to find your reference

| 7 Range Poles                   |                                                                                                                    | Control Mounting Connection System |                                  | Rated Current Curve Option Option |                                               |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------|-----------------------------------|-----------------------------------------------|
| Code                            | Poles                                                                                                              | Code                               | Control System                   | Model                             | Mounting                                      |
| 1                               | 1 Pole                                                                                                             | 0                                  | Without Button/Shunt for Neutral | 0                                 | Plug-in                                       |
| 2                               | 2 Pole                                                                                                             | 1                                  | Without Trip Button              | 1                                 | Flush mounting, 2 screws on front face        |
| 3                               | 3 Pole                                                                                                             | 2                                  | With Trip Button                 | 2                                 | Flush Mounting, threaded collar on front face |
| 4                               | 4 Pole                                                                                                             |                                    |                                  | 3                                 | Snap on DIN                                   |
| 5                               | Range 7500, 1 Pole                                                                                                 |                                    |                                  | 5                                 | Push-push, threaded collar on front face      |
| 9                               | Accessories                                                                                                        |                                    |                                  | 6                                 | Without fixation                              |
|                                 |                                                                                                                    |                                    |                                  | 7                                 | Snap on DIN symetrical rail                   |
|                                 |                                                                                                                    |                                    |                                  | 9                                 | Plu-in base for print circuit                 |
| Code Standard Connection        |                                                                                                                    |                                    |                                  |                                   |                                               |
|                                 | 1, 2, 5: Flush mounting models                                                                                     |                                    |                                  |                                   |                                               |
| 101                             | Fast connection (male), 6.35x0.8 at 45 <sup>0</sup> , In≤15A                                                       |                                    |                                  |                                   |                                               |
| 104                             | Terminals at 60 <sup>0</sup> screws with clamps for cable up to 1x6mm <sup>2</sup> , In≤20A                        |                                    |                                  |                                   |                                               |
| 204                             | Terminals at 60 <sup>0</sup> , HS M4 screws for cable up to 1x6mm <sup>2</sup> , In>20A                            |                                    |                                  |                                   |                                               |
| 409                             | Fast connection (male), 6.35x0.8 at 90 <sup>0</sup>                                                                |                                    |                                  |                                   |                                               |
| 453                             | Down pillar type terminals, transversal hole, In≤40A                                                               |                                    |                                  |                                   |                                               |
| 463                             | Down pillar type terminals, longitudinal hole, In≤40A                                                              |                                    |                                  |                                   |                                               |
| 504                             | Terminals at 60 <sup>0</sup> , screws with clamps, range 7500                                                      |                                    |                                  |                                   |                                               |
| 514                             | Terminals, screws with clamps, 1 at 60 <sup>0</sup> , 1 to 90 <sup>0</sup> , for cable from 6 to 16mm <sup>2</sup> |                                    |                                  |                                   |                                               |
|                                 | 3, 7: Snap on DIN rail models                                                                                      |                                    |                                  |                                   |                                               |
| 402                             | Flat terminals, screws with clamps, In≤20A                                                                         |                                    |                                  |                                   |                                               |
| 413                             | Up pillar type terminals, longitudinal hole, In≤40A                                                                |                                    |                                  |                                   |                                               |
| 502                             | Flat terminals, screws with clamps, range 7500                                                                     |                                    |                                  |                                   |                                               |
|                                 | 6: Without fixation models, terminals design on request                                                            |                                    |                                  |                                   |                                               |
|                                 | 9: Plug-in base for circuit print                                                                                  |                                    |                                  |                                   |                                               |
| 409                             | Fast connections (male), 6.35x0.8 at 90 <sup>0</sup>                                                               |                                    |                                  |                                   |                                               |
| 909                             | Fast double connections (male), 6.35x0.8, at 90 <sup>0</sup> , In>20A                                              |                                    |                                  |                                   |                                               |
|                                 | 0: Plug-in                                                                                                         |                                    |                                  |                                   |                                               |
| 707                             | Pins Ø7.2mm between axes, range 7000                                                                               |                                    |                                  |                                   |                                               |
| Code Option                     |                                                                                                                    |                                    |                                  |                                   |                                               |
|                                 | 7000 Range                                                                                                         |                                    |                                  |                                   |                                               |
|                                 | Auxiliary contacts                                                                                                 |                                    |                                  |                                   |                                               |
| 01                              | NC: Normally closed, soldered connections                                                                          |                                    |                                  |                                   |                                               |
| 02                              | NO: Normally open, soldered connections                                                                            |                                    |                                  |                                   |                                               |
| 81                              | NC: Normally closed, 2.8x0.5 connections                                                                           |                                    |                                  |                                   |                                               |
| 82                              | NO: Normally open, 2.8x0.5 connections                                                                             |                                    |                                  |                                   |                                               |
| 84                              | Changeover, 2.8x0.5, 3 connections                                                                                 |                                    |                                  |                                   |                                               |
|                                 | Others                                                                                                             |                                    |                                  |                                   |                                               |
| 05                              | Special contacts for high peak of current, thermal release only                                                    |                                    |                                  |                                   |                                               |
| 20                              | Temperature compensation, thermal: 2-30A, thermal-magnetic: 3-20A                                                  |                                    |                                  |                                   |                                               |
| 42                              | Special adjustment for magnetic release                                                                            |                                    |                                  |                                   |                                               |
| 44                              | Red pushbutton "On"                                                                                                |                                    |                                  |                                   |                                               |
| 47                              | Trip button off,flush mounting from threaded collar                                                                |                                    |                                  |                                   |                                               |
| 48                              | Winded binetallic strip for motor protection                                                                       |                                    |                                  |                                   |                                               |
| 69                              | Knurled nut and counter nut for drilling 14.5mm                                                                    |                                    |                                  |                                   |                                               |
| 70                              | Power contacts delivered with shunt                                                                                |                                    |                                  |                                   |                                               |
| 71                              | Nuts for threaded collar delivered separately                                                                      |                                    |                                  |                                   |                                               |
| 72                              | Diruptor with connectors 104, delivered without screw and clamp                                                    |                                    |                                  |                                   |                                               |
| 73                              | Flush mounting Diruptor, top screws delivered separately                                                           |                                    |                                  |                                   |                                               |
| Code Option                     |                                                                                                                    |                                    |                                  |                                   |                                               |
|                                 | 7500 Range                                                                                                         |                                    |                                  |                                   |                                               |
| 52                              | Special adjustment for magnetic release                                                                            |                                    |                                  |                                   |                                               |
| 53                              | Changeover auxiliary contact                                                                                       |                                    |                                  |                                   |                                               |
| 55                              | Power contacts delivered with shunt                                                                                |                                    |                                  |                                   |                                               |
|                                 | 7000/7500 Range                                                                                                    |                                    |                                  |                                   |                                               |
| 10                              | Reinforced tropicalization                                                                                         |                                    |                                  |                                   |                                               |
| 40                              | Wihtou lock                                                                                                        |                                    |                                  |                                   |                                               |
| 41                              | Individual checking for shocks                                                                                     |                                    |                                  |                                   |                                               |
| Example: 7 2 2 7 402 15 C 82 10 |                                                                                                                    |                                    |                                  |                                   |                                               |
| Diruptor Range 7                |                                                                                                                    |                                    |                                  |                                   |                                               |
| ■                               | 2 Poles                                                                                                            |                                    |                                  |                                   |                                               |
| ■                               | With trip button off                                                                                               |                                    |                                  |                                   |                                               |
| ■                               | Snap on symetrical DIN rail                                                                                        |                                    |                                  |                                   |                                               |
| ■                               | Flat terminals with clamps                                                                                         |                                    |                                  |                                   |                                               |
| ■                               | 15A                                                                                                                |                                    |                                  |                                   |                                               |
| ■                               | Curve C                                                                                                            |                                    |                                  |                                   |                                               |
| ■                               | Auxiliary contact NO                                                                                               |                                    |                                  |                                   |                                               |
| ■                               | Reinforced tropicalization                                                                                         |                                    |                                  |                                   |                                               |