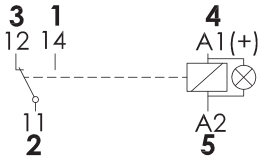
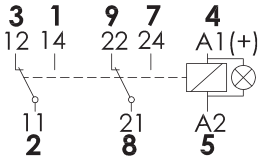
RFS1 Relay 1 contact

Wiring diagram RFS1

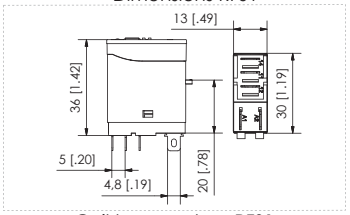


RFS2 Relay 2 contacts

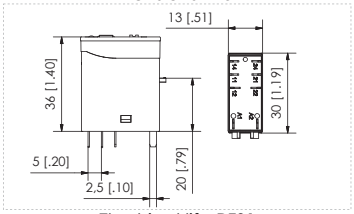
Wiring diagram RFS2



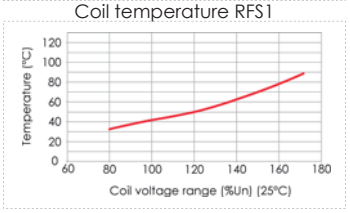
Dimensions RFS1



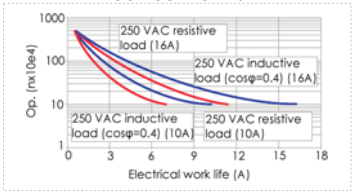
Dimensions RFS2



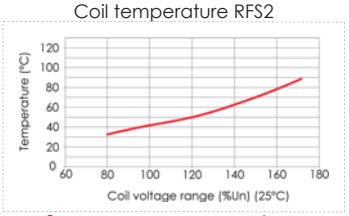
Coil temperature RFS1



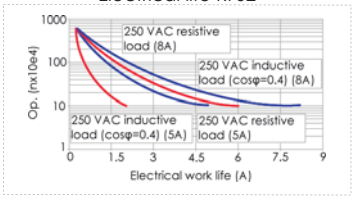
Electrical life RFS1



Coil temperature RFS2



Electrical life RFS2



Features

Industrial interface relay for general applications. Available in 1 & 2 change-over contacts with max. current 10 A - 250VAC1/30VDC1 and 5 A - 250 VAC1/30VDC1.
Coil nominal power 0,53 W(DC) & 1,1 VAC.
Available with or without LED for AC/DC relays.
Diode only available in DC.
Insulation: IEC61810-1 - 2,5 Kv/3.
Pollution degree 2.
Socket 187 (4,75 mm)terminals.
Protection class: IP40
Approvals: CE, UL.
European Patent.

Coil ratings

Nominal voltage VDC	**6**	**12**	**24**	**48**	**115**	
Resistance (Ω ±10%)	68	270	1,1K	4,1K	22,4K	
Nominal voltage VAC	**6**	**12**	**24**	**48**	**120**	**230**
Resistance (Ω ±10%)	16	63	240	1,06K	5,37K	21,18K

Coil values at 25°C

	VDC	VAC 50HZ
Operating range	0,75-1,1 Un	0,8 -1,1 Un
Max. drop-out voltage	≥10% Un	≥30% Un

Contacts

Contact arrangement: 1C and 2C.
Maximum contact power (230BAC1 / 28 VDC1):
1C: 2.500VA / 300W
2C: 1.250VA / 150W
Maximum voltage: 250VAC / 220VDC.
Maximum current: 10A and 5A. (250AC1/30DC1)
Maximum breaking capacity: 110V DC ---> 0,4A
220V DC ---> 0,15-0,20A

Contact resistance: ≤50 mΩ.
Contact material: Silver alloy (m +Ag+ Hi).

Specifications RM

Electrical life	$\geq 10^5$ cycles
Mechanical life	$\geq 10^7$ cycles
Insulation resistance	≤1000MΩ(500VDC)
Operation time	≤20ms
Operation frequency	1200op/h at nominal load
Release time	≤10ms
Dielectric strength at 1mA	5.000VAC/min(between coil and contacts) 1.000VAC/min(between contacts)
Vibration resistance	10 - 55Hz (Double width 1,5mm)
Shock resistance	10g
Room temperature	-40 °C +65 °C
Room humidity	35% -85% RH
Armospheric pressure	86 - 106 KPa
Weight	22gr
Pack units	10

References RF relays

Example: Relay RF. 2 contacts, 230VAC coil voltage, with LED, and with diode.

RF S 2 0 L 230 AC D 0

Product series
RF: RF relays series

Type
S: change-over
standard for all models

Contacts number
1: 1 contacts
2: 2 contacts

Contact material
0: silver alloy

Led
N: without led
L: with led

Coil voltage
006: 6V
012: 12V
024: 24V
048: 48V
060: 60V
115: 115V (only DC)
120: 120V (only AC)
230: 230V (only AC)

Coil version
AC: VAC voltage
DC: VDC voltage

Circuit connect to coil
0: without circuit
D: with diode (only DC)

Series features
0: without special feature

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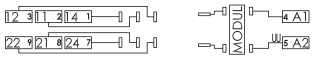
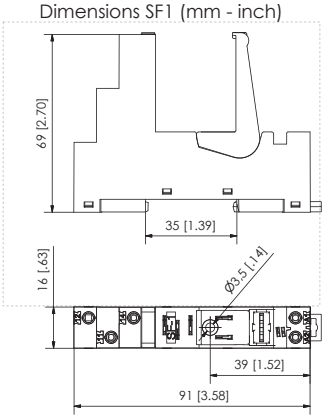
SF1 Socket
Wiring diagram SF1

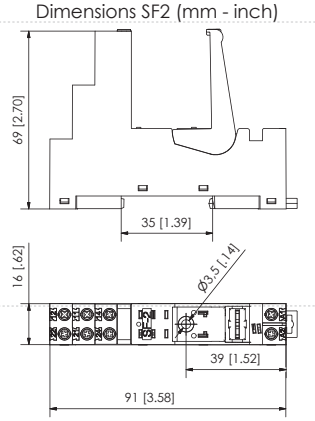
SF2 Socket
Wiring diagram SF2



Dimensions SF1 (mm - inch)



Dimensions SF2 (mm - inch)



Features

Interface I/O (Input/Output).
Interchangeable marked labels option, and clip integrated
DIN rail (35 mm, T35) or panel mount (EN 60715).
Connection Bridges for A2 terminals.
Industrial faston or PCB relay mount.
3-position clip for subjection to DIN Rail.
DIN/EN sequential numbering (optional).
According to IEC/EN61810.

Specifications SFB10–SFR10, SFB20–SFR20

The SF sockets are produced in 2 versions with or without MF-series module insertion (see the modules pages).

Nominal load	1C;16A (250V); 2C: 8A (250V)
Dielectric strenght	2,5KV
Max. screw torque	1,2Nm
Screws	M3 Steel. Pozi drive
Quick Clamp	Stainless steel
Wire in lets capacity: solid wire	$4mm^2$ or 2 x $2,25mm^2$
Wire in lets capacity: multi-core	22 – 14 AWG
Protection class:	IP20
Room Humidity	-40º to 70º
Weight	49gr
Pack units	10

References

Reference	Contacts	Connection
SFB10D010	1	Screw terminals (Faston or PCB)
SFR10D010	1	Quick Clamp (Faston or PCB)
SFC11C110	1	Pin terminals (Faston)
SFB20D010	2	Screw terminals (Faston or PCB)
SFR20D010	2	Quick Clamp (Faston or PCB)
SFC21C110	2	Pin terminals (Faston)

Accessories for relays

Mechanical indication and a wide window.
3-sequential-position test button (free, check, lock).
Colours for an easier identification of coil voltage
(DC blue, AC red).
Technical information and coil voltage in frontal part, laser printed.
Interchangeable marking labels.
They can be easily interchanged or replaced, enabling the relays and sockets identification.
Connection bridges allow the connection of A2 coil terminal contacts in the Q & F series, thus reducing wiring time and effort.

AFE

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