A close-up photograph of several electrical relays and circuit boards, primarily in shades of grey, orange, and blue, arranged in a grid-like pattern.

GENERAL CATALOGUE

2014

www.relaygo.com



INDEX OF CONTENT

General information	4/5
Quality certificate	6/7
Coding keys	8
Coil circuits	9
Application index	10
Special relays	11

RM	RP	RQ	RF
RM2010 14/15	RP2010 38/39	RQ1010 46/47	RF1010 62/63
RM2014 14/15	RP3010 38/39	RQ2010 46/47	RF1010NN7 62/63
RM2117 14/15	RP3014 38/39	RQ2010NN7 46/47	RF1014 62/63
SMB20 16/17	RP1015 40/41	RQ2014 48/49	RF1217 64/65
SMW20F 16/17	RP1016 40/41	RQ2021 48/49	RF1222 64/65
SMP20F 16/17	RP2016 40/41	RQ2117 48/49	RS1614 64/65
SMT20 16/17	RP2019 42/43	RQ1018 50/51	RS1714 66/67
RM3010 18/19	SPT30 42/43	RQ1015 50/51	RS1814 66/67
RM3014 18/19	SPW30F 42/43	SQB20 52/53	RS1914 66/67
RM3117 18/19	SPP30X 42/43	SQB20I 52/53	SFB10 68/69
RM2112 20/21	SPP30F 42/43	SQW20F 52/53	SFR10 68/69
RM3113 20/21		SQP20X 52/53	SFP10X 68/69
RM1015 20/21		SQP20F 52/53	RF2110 70/71
RM1016 22/23		SQR10 54/55	RF2114 70/71
RM2019 22/23		RQ4110 56/57	RF2110NN7 70/71
SMB30 24/25		RQ2112 56/57	SFB20 72/73
SMB30P 24/25		RQ2119 56/57	SFP20X 72/73
SMB30S 24/25		SQW40F 58/59	
MM1 26/27		SQP40X 58/59	
MM2 26/27		SQP40F 58/59	
SMT30 28/29		SQB40 58/59	
SMW30F 28/29			
SMP30F 28/29			
TM 30			
TMB 30			
TMS 30			
TMA 31			
TMD 31			
TMC 31			
RM4010 32/33			
RM2015 32/33			
RM3019 32/33			
SMT40 34/35			
SMW40F 34/35			
SMP40X 34/35			
SMP40F 34/35			

RR

RR3010 76/77
RR2010 76/77
RR2117 76/77

GENERAL INFORMATION

RelayGo is a Spanish company specialized in relays, sockets and industrial automation equipment manufacturing. Our factory, with 50 years' experience in manufacturing, is supplying more than **60 countries** with exceptional quality and range recognition worldwide. Our factory is an integrated one, all productive processes, from R&D to customer service, delivering a perfectly made product, fully warranted, making **RelayGo** relays the most recognized in the market.

More than 100 wide experienced professionals in relay manufacturing operate **RelayGo**, with exclusive processes and know-how, a factory with more than 4,000

square meters in Alcorcón – Madrid – Spain, more than 5 million relay capacity per year.

We meet our customer needs, seeking for solutions and creating new products to support our customers in their industrial automation and application needs, whereas our product and technology is required.



CONTACTS

The contacts are made of Silver and Nickel alloys (AgNi) and silver tin oxide (AgSnO₂). Other alloys on request. Depending on the model, a 0,2 µm or 10 µm gold-plating is added to ensure high conductivity and allow switching low level loads in corrosive ambient.

The distance between contacts (GAP) and the speed of contacts opening will determinate arch length and duration. In VAC a 0,5 mm gap is enough to eliminate the arch. In VDC is critical to manage contact distance (GAP) depending on the current and voltage. See the tables for each relay "Maximum VDC current", as well as special DC applications.

We manufacture different contacts:

Contacts in series: Two or three contacts in series are equivalent to multiply the GAP increasing VDC cut.

Contacts in parallels: Cannot switch higher loads but increases current stability and reliability.

Twin contacts: The blade is divided into two parts, each with its own contact, both contacts press down each on their own independent fixed contacts. This system is particularly good for reliably switching at very low levels (increasing MTBF).

Double break contacts: The double break contact arrangement is equivalent to two contacts connected in series. The maximum intensity supported corresponds to only one contact. This system allows for higher DC

operating voltages.

This system prolongs contact life by inhibiting or reducing the arch. In parallel RC suppressors or varistors can be connected. In VDC applications with inductive loads, a diode must be placed inverse, in parallel (Free-Wheeling).

Typical contact RM and RQ series resistance is 50mΩ. This resistance depends on materials used, pressure among them and contamination.

Maximum voltages are referred to contacts poles and between contacts and coil, complying with EN 60947/4/5 and VDE 0110 established maximum values, considering pollution, insulation material quality, shape, position and dimensions.

Maximum current is referred to each model, considering stable conduction (I_{th}) in VAC

Maximum power indicated is the maximum switching value contacts can support. This value can be limited and not always meet the maximum power obtained by multiplying maximum voltage with maximum current.

COILS

The coils are molded in polybutylene with fiberglass (130° C). Enamelled wires of Class F specification are used (155° C).

They are always verified, 100%, considering quality tolerances.

They are wound on automatic precision winding machines, with the number of turns and wire tension accurately regulated and monitored.

Coil resistance is measured at 20° C and is regulated within ± 10% of specified value. They can be reviewed in each model specification table.

We can produce every specific voltage coil our customers require meeting their specifications.

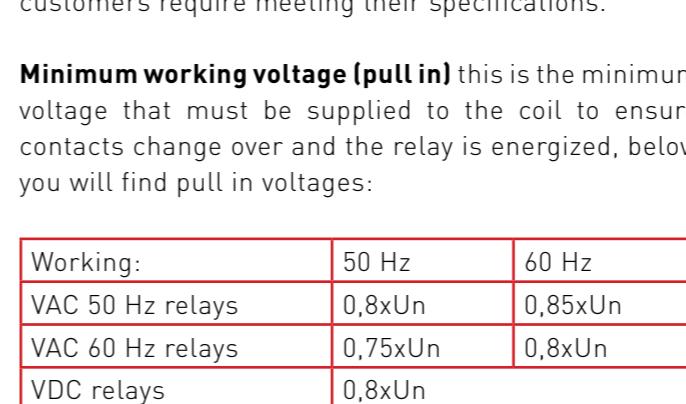
VDC relays: ≥ 10% de Un

VAC relays: ≥ 15% de Un

The ambient temperature has an influence on the coil resistance and on its thermal dissipation capacity. Blue curve represents the variations of the pull in voltage [% Un] in relation with the ambient temperature (T). Red curve indicates the maximum values of the voltage applied (Ub) to the coil in relation with the nominal voltage (Un) at the ambient temperature (T).

Working:	50 Hz	60 Hz
VAC 50 Hz relays	0,8xUn	0,85xUn
VAC 60 Hz relays	0,75xUn	0,8xUn
VDC relays	0,8xUn	

Minimum working voltage (pull in) this is the minimum voltage that must be supplied to the coil to ensure contacts change over and the relay is energized, below you will find pull in voltages:



Maximum release voltage (drop out) this is the maximum voltage at which the contacts change over and NO contacts close without any vibration. The values of voltage specified are those at or below which the relay must drop out.



QUALITY CERTIFICATE

ISO 9000 RELAYGO



Design, production and sales of industrial relays, sockets and accessories. Sales of regulation and control devices for electrical installations.

ISO 14000 in process.

All of our products are compliant with the 2002/95/EC RoHS directive, restrictions on such hazardous materials.

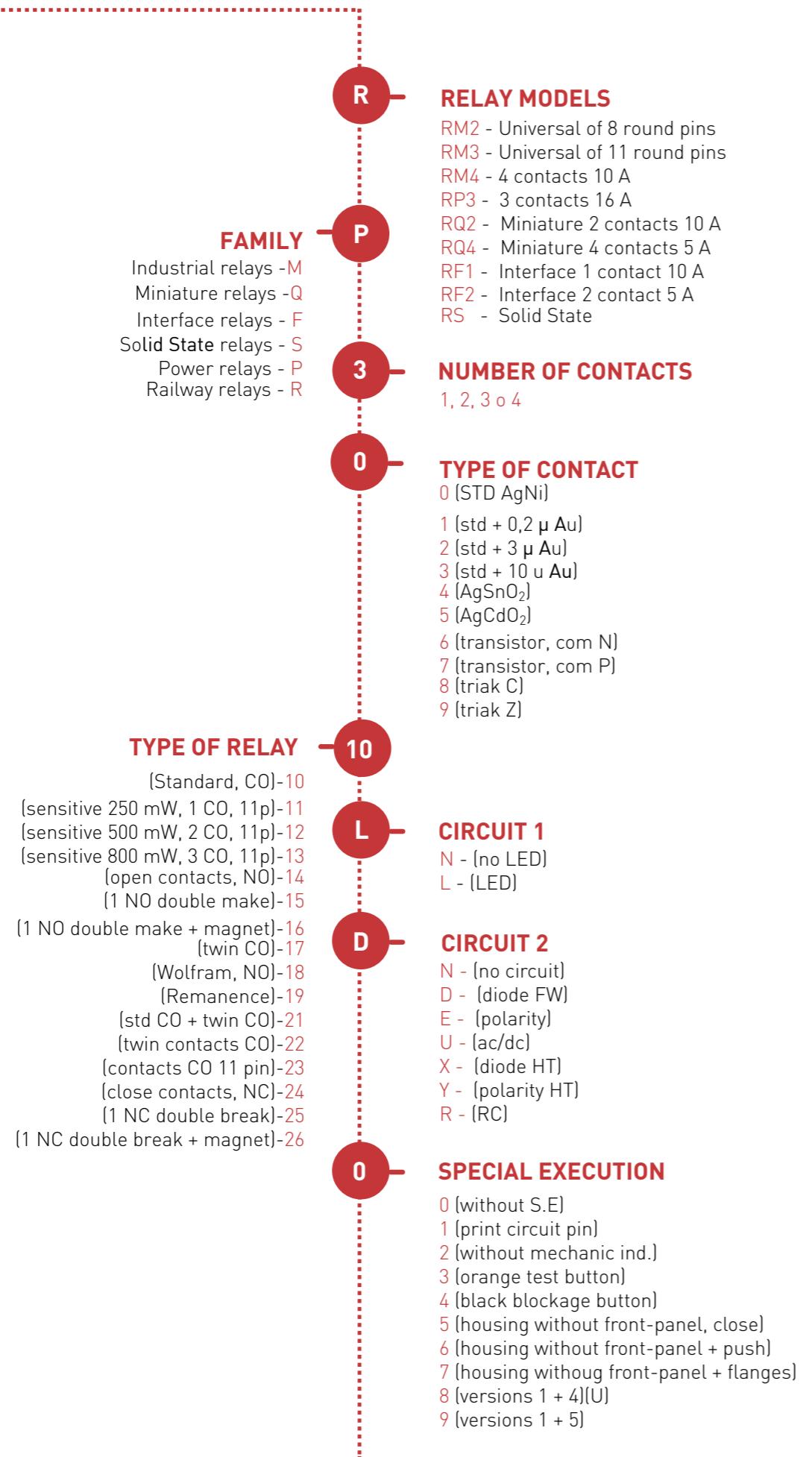


APPROVAL TABLE

Canada	In process	Organism: CSA Norm: C 22.2; UL 508
China	In process	Organism: CQC Norm: GB14048.5-2001
Russia	In process	Organism: CU United Register of Certification bodies
United Kingdom	Lloyd's In process	Organism: LLoyd's Register of Shipping
U.S.A	us	Organism: UL Norm: C 22.2; UL 508 UL 60947-1 UL 60947-4-1A



CODING KEYS

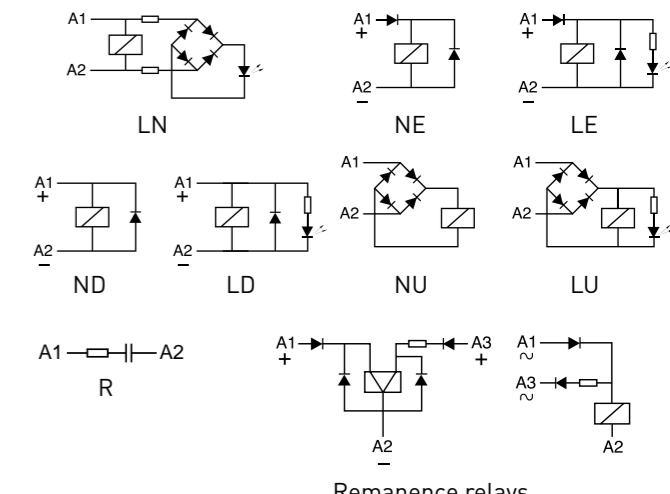


COIL CIRCUIT ACCESORIES

Resistor and Capacitor - R

No Led available.
Available only in RM.
Only AC coils.

Circuit Scheme



RF RELAYS

Led no polarity - L

Bridge rectifier parallel coil \leftarrow 12 VDC / VAC
Bridge rectifier serial coil \rightarrow 12 VDC / VAC

Led A+ polarity (optional) - LE

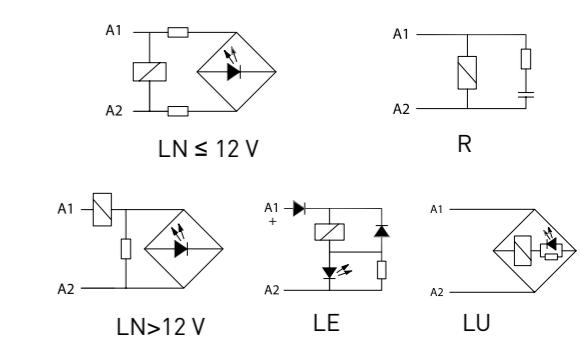
All VDC voltages, polarity and freewheel diodes.

Led no polarity only in 24 and 48 VDC (optional) - LU

Bridge rectifier for VAC/VDC relays.

Resistor and Capacitor - R

No Led available.
Available for VAC coils VAC pulse RC protection.



Note: RelayGo Components S.L. retains the right to make changes to this document without notice and does not accept any liability for errors.

INDEX

APPLICATIONS INDEX

Relay applications are countless and diverse in every aspect of our daily lives and we use them consistently, directly or indirectly in any human activity.

Therefore, we will highlight certain non-exclusive applications.

Specific applications are arranged in general application groups.



POWER INDUSTRIAL

- Single phase AC motor (≤ 1 CV) RM2010, RM3010, RQ2010
- Three phase AC motor (≤ 2 CV) RP3010
- DC motor RM2014, RM3014, RM1015, RM1016, RM2015, RP3014, RP1015, RP1016, RP2016



INDUSTRIAL AUTOMATION

- Industrial Panels RM2010, RM3010, RM4010, RQ2010, RQ4110, RF1010, RF2110
- Production Process RM3010, RP3010
- Welding Process RQ1010, RQ1018, RQ2014
- Electro-valves RQ2010, RF1010, RS...



PROCESS CONTROL

- Low current and voltage switching ... RM2117, RQ2117, RQ2021, RQ2112, RQ4110, RF1217
- PLC Drivers RQ4110, RF1010, RF1217, RF2110
- Small DC motors RM2014, RM3014, RF1014, RS16, RS17
- Inductive, capacitive or photocells sensors RF1217, RF2110



CLIMATE CONTROL

- AC resistive load RM2010, RM3010, RP3010, RQ2010, RQ1018.
- Cryogenic equipment control RM3010, RP3010, RQ2010
- Compressor switching RP3010

INTELLIGENT BUILDINGS

- Elevators/Lifts RM2010, RM3010, RP3010, RQ2010
- Escalator RP3010
- Mechanical walkways RP3010
- Automatic doors RM2010, RQ2010
- Alarm systems RQ2112, RQ2119, RF1010, RF2110, RM2019

SMART LIGHTING

- Fluorescent lighting RQ1018, RS18
- Filament lamps RQ1018, RS19
- LED lights RQ2010, RF1010, RS16, RS18, RS19

RAILWAYS EN 60077; EN 61373 APPROVALS

- Two contacts RR2010, RR2117
- Three contacts RR3010
- Four contacts RR4010

POWER PLANTS

- Wind power generators RM4010, RQ2117, RQ4110
- Thermal stations RM3010, RP3010
- Nuclear plants Ask for it

HOME AUTOMATION

- Access control RM2117, RQ2117, RQ2021, RQ2112, RQ4110, RF1217
- Alarms RQ2119, RF1010, RF2110, RM2019
- Climate control RM3010, RP3010, RQ2010
- Smart lighting RQ2010, RF1010, RS16, RS17, RS18, RS19

Some relays models have multiple applications, please contact us to find the most suitable relay for your application, considering housing characteristics and space.

SPECIAL RELAYS

10 - GENERAL PURPOSE RELAYS

Used in applications like as automation, pneumatic, heating appliances, signaling, as an input or output interface. Change-over contacts. NO/NC Isolation: 1000 Vrms. Gap: 0,5 mm.
Max Nominal Load
16 A @ 230 V AC1 16 A @ 30 V DC1
0,5 A @ 110 V DC1 0,2 A @ 220 V DC1

15 - DOUBLE MAKE RELAYS

These relays are designed to support high VDC loads, Voltages between 110 and 220 V DC. 3,3 mm open contact gap. Isolation between contacts: 2000 Vrms. Maximum DC load is shown in specification tables. Available in RM, RQ and RP series.

11 - SENSITIVE RELAYS, 250 mW

Sensitive coil. One Change-Over contact.

12 - SENSITIVE RELAYS, 500 mW

Sensitive coil. Two Change-Over contacts.

13 - SENSITIVE RELAYS, 800 mW

Sensitive coil. Three change-over contacts, DC coil. Available in RM and RQ series. Gold contacts 0,2 or 10 μ Au. Operation range:
Relays 250 mW: 0,8 ... 2,5 Un
Relays 500 mW: 0,8 ... 1,7 Un
Relays 800 mW: 0,8 ... 1,4 Un

21 - POWER CONTACT AND TWIN CONTACT SIGNAL RELAY

In one single relay we combine the power of a standard unit (10) and the twin contact reliability (17). Specifically designed for feedback applications requirements.

RS - SOLID STATE RELAY

Switching electronic relay, quick and long life relay (non-mechanical parts). Different models for different applications, AC current (VAC) and DC current (VDC).

17 - TWIN CONTACT RELAYS

Low currents switching applications. High operational reliability. Change-over contacts. Contact Isolation NO/NC: 1000 Vrms
Gap: 0,5 mm
Gold contacts flash 0,2 μ Au or 10 μ Au (optional)
Max load: 6 A @ 230 V AC-1
Min load: 1 mA @ 5 V DC long life

19 - REMANENCE RELAYS

High remanence magnetic circuit, allows the relay to latch when the current applied flows through the coil in a direction and unlatches if the current flows in the opposite direction. Electronic circuitry is added inside the relay, with diodes and precise resistances to control and protect against transitory pulses. One winding VAC coil and two winding VDC coil. All coils withstand permanent connection for operation on release the coils needs 50 ms minimum pulse.

18 - HIGH INRUSH RELAYS

Two open contacts, one silver and the other tungsten acting in parallel, separated each other, tungsten contact connect and disconnect, while silver keeps switched. This relay is used to switch fluorescent and incandescent lamps as well as VDC inductive loads only available in RQ Max Load:
6 A @ 230 V AC5a/b (Lamps)
10 A @ 230 V AC15 1,5 A @ 110 V DC1

RR - RAILWAYS RELAY

Designed to satisfy the most demanding Railway needs, extensive voltage range, vibration and crash requirements.

14 - OPEN CONTACTS RELAYS

Separating contacts, increases contact gap and improves VDC cut.
Gap: 1,5 mm (RQ Series); 1,7 mm (RM and RP series). Contact Isolation NO: 2000 Vrms
Max load: 16 A @ 230 V AC1
1,2 A @ 110 V DC1; 0,4 A @ 220 V DC1

16 - MAGNETIC BLOW OUT RELAY

These versions are similar to 15 types, however they have the addition of a powerful magnet which "blows out" the arc generated when the contacts are opened, therefore quench-ing the arcing quickly and increasing the contact life. Avoiding priming and contact welding.
Max Load: 10 A @ 220 V DC1
2 A @ 220 V DC13

SPECIFICATIONS

Model specifications for each model refers to typical values of "new" Relays at 20 °C complying with EN 60947

TABLES

Electrical life tables and maximum VDC current show the typical result of exhaustive tests performed at ambient temperature (20°C) and 1200 op/hour frequency and under permanent connection. Measured values can slightly differ from working conditions.

OVERVOLTAGE RANGE

A maximum over-voltage of 110% Un is permissible at the coil, with rated current through the contacts at an ambient temperature of 60° C.

SPECIAL APPLICATIONS RELAYS

RelayGo offers collaboration to effectively and efficiently support specific requirements and applications, as well as develop new specifications and non-standard models.



RM

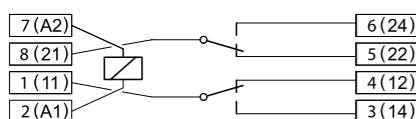
SM industrial sockets

SMB20 SMW20 SMP20 SMT20

SMB20 – 2 POLES, RAIL DIN



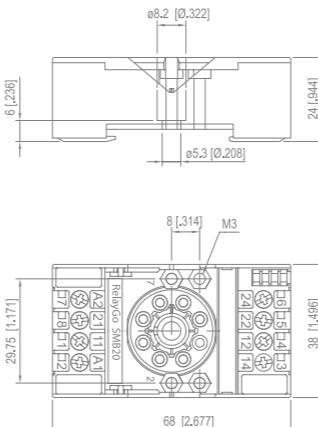
Connection diagram



Socket for octal relays, with clip and marking label

10 A / 300 V

Dimensions mm [in]



Specifications

Rated load 10 A / 300 V

Insulation

Test voltage, (Vrms/ 1 min.)

Contacts/coils 2,5 kV

All terminals/DIN rail 2,5 kV

Terminal/terminal 25 kV

Cross-section of connecting wire

Single-wire 4 mm² or 2 x 2,25 mm²

Multi-wire 22 - 14 AWG

Cable with tip 4 mm²

Max. screw torque 1,2 Nm

Screw dimensions M3, Pozi

Retaining clip plastic integrated

Socket for RM relays

8 pin plug-in relays RM2010, RM2014, RM2117

Mounting in rail DIN and panel
Coding label
Numeration EN/DIN

According to the norm EN 60947-1 and IEC 61810-1

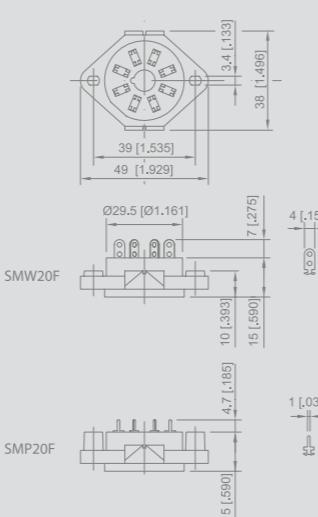
SMW20F – 2 POLES, PANEL MOUNTING,
SOLDERING WITH CABLES



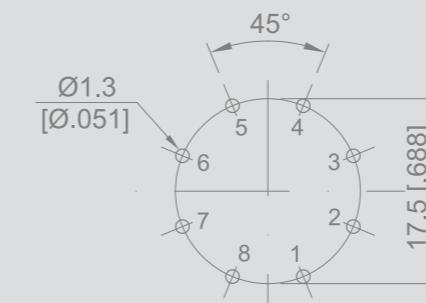
SMP20F – 2 POLES, PRINTED CIRCUIT,
MOUNTABLE WITH SCREW M3



Dimensions mm [in]



PCB mounting



Socket for RM relays

Socket for RM 8 pin plug-in relays RM2010, RM2014, RM2117

Specifications

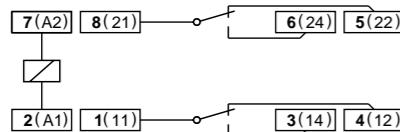
Rated load 10 A / 300 V
Isolation (terminal/terminal) 2,5 kV



SMT20 – 2 POLES, RAIL DIN



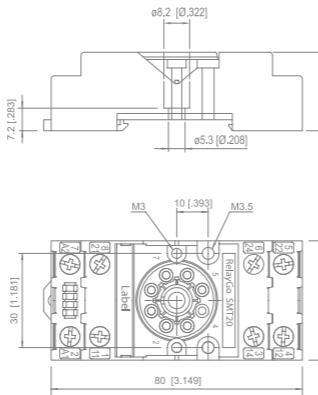
Connection diagram



Socket for octal relays, with clip and marking label

10 A / 300 V

Dimensions mm [in]



Specifications

Rated load 10 A / 300 V

Insulation

Test voltage, (Vrms/ 1 min.)

Contacts/coils 2,5 kV

All terminals/DIN rail 2,5 kV

Terminal/terminal 25 kV

Cross-section of connecting wire

Single-wire 4 mm² or 2 x 2,25 mm²

Multi-wire 22 - 14 AWG

Cable with tip 4 mm²

Max. screw torque 1,2 Nm

Screw dimensions M3, Pozi

Retaining clip plastic integrated

Socket for RM relays

8 pin plug-in relays RM2010, RM2014, RM2117

Mounting in rail DIN and panel
Coding label
Numeration EN/DIN

According to the norm EN 60947-1 and IEC 61810-1

SM industrial sockets

SMB30

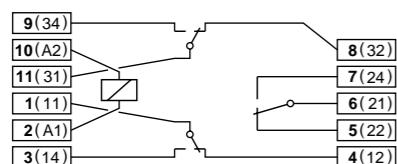
SMB30D
01

SMB30D
02

SMB30 - 3 POLES, RAIL DIN



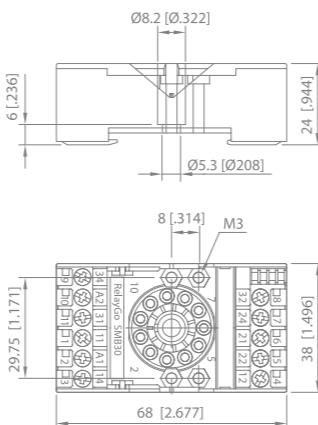
Connection diagram



Socket for undecal relays, with clip and marking label

10 A / 250 V

Dimensions mm [in]



Specifications

Rated load 10 A / 250 V

Insulation

Test voltage, (Vrms/ 1 min.)
Contacts/coils 2,5 kV
All terminals/DIN rail 2,5 kV
Terminal/terminal 25 kV

Cross-section of connecting wire

Single-wire 4 mm² or 2 x 2,25 mm²
Multi-wire 22 - 14 AWG
Cable with tip 4 mm²
Max. screw torque 1,2 Nm
Screw dimensions M3, Pozi
Retaining clip plastic integrated
Weight 55 gr



Socket for RM relays

Socket for RM 11 pin plug-in relays RM3010, RM3014, RM3117, RM2112, RM3113, RM1015, RM1016, RM2019

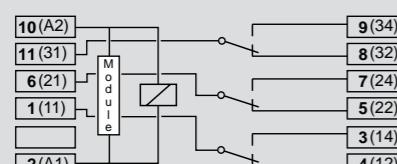
Mounting in rail DIN and panel
Coding label.
Numeration EN/DIN

According to the norm EN 60947-1 and IEC 61810-1

SMB30P - 3 POLES, RAIL DIN, PLUG-IN MODULES MM1, PARALLEL



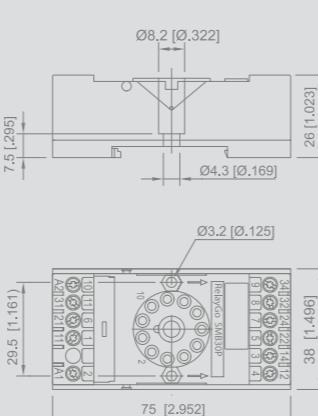
Connection diagram



Accessories of the coil for plug-in module to the socket

10 A / 250 V

Dimensions mm [in]



Specifications

Rated load 10 A / 250 V

Insulation

Test voltage, (Vrms/ 1 min.)
Contacts/coils 2,5 kV
All terminals/DIN rail 2,5 kV
Terminal/terminal 25 kV

Cross-section of connecting wire

Single-wire 4 mm² or 2 x 2,25 mm²
Multi-wire 22 - 14 AWG
Cable with tip 4 mm²
Max. screw torque 1,2 Nm
Screw dimensions M3, Pozi
Retaining clip plastic integrated
Weight 55 gr



Socket for RM relays

Socket for RM 11 pin plug-in relays RM3010, RM3014, RM3117, RM2112, RM3113, RM1015, RM1016, RM2019

Mounting in rail DIN and panel
Coding label.
Numeration EN/DIN

According to the norm EN 60947-1 and IEC 61810-1

MM1

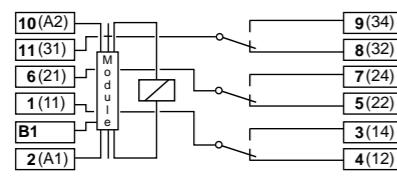
Parallel module for the socket SMB30P



SMB30S - 3 POLES, RAIL DIN PLUG-IN MODULES MM2, SERIES



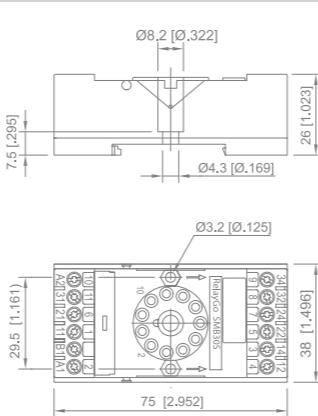
Connection diagram



Accessories of the coil for plug-in module to the socket

10 A / 300 V

Dimensions mm [in]



Specifications

Rated load 10 A / 250 V

Insulation

Test voltage, (Vrms/ 1 min.)
Contacts/coils 2,5 kV
All terminals/DIN rail 2,5 kV
Terminal/terminal 25 kV

Cross-section of connecting wire

Single-wire 4 mm² or 2 x 2,25 mm²
Multi-wire 22 - 14 AWG
Cable with tip 4 mm²
Max. screw torque 1,2 Nm
Screw dimensions M3, Pozi
Retaining clip plastic integrated
Weight 55 gr



Socket for RM relays

Socket for RM 11 pin plug-in relays RM3010, RM3014, RM3117, RM2112, RM3113, RM1015, RM1016, RM2019

Mounting in rail DIN and panel
Coding label.
Numeration EN/DIN

According to the norm EN 60947-1 and IEC 61810-1

MM2

Serie module for the socket SMB30S.



MM modules for sockets

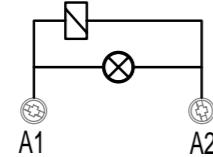
MM1

MM2

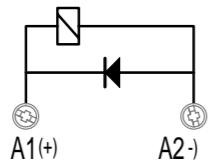
MM1 - MODULES FOR SOCKET SMB30P



Pilot LED
MM1L / 24 VAC/VDC
MM1L / 48 VAC/VDC
MM1L / 110 ... 125 VAC/VDC
MM1L / 200 ... 230 VAC/VDC



Freewheeling diode
MM1ND / 12 ... 60 VDC
MM1ND / 12 ... 250 VDC

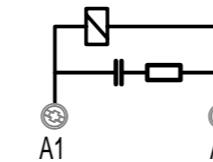
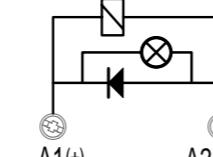


In parallel with the coil

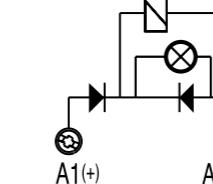
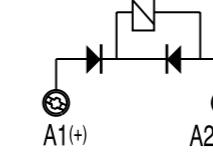
MM2 - MODULES FOR SOCKET SMB30S



Freewheeling and
polarity diode
MM2NE / 12 ... 60 VDC
MM2NE / 12 ... 250 VDC



Freewheeling, polarity
and LED diode
MM2LE / 24 VDC
MM2LE / 48 VDC
MM2LE / 110 ... 125 VDC
MM2LE / 200 ... 230 VDC



In serie with the coil



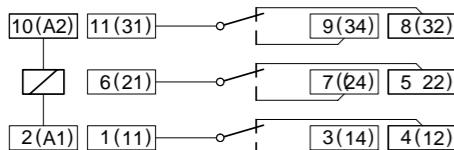
SM industrial sockets

SMT30 SMW30F SMP30F

SMT30 - 3 POLES, RAIL DIN



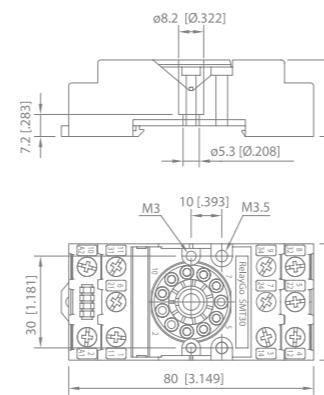
Connection diagram



Socket for undecal relays, with clip and marking label

10 A / 250 V

Dimensions mm [in]



Specifications

Rated load 10 A / 250 V

Insulation

Test voltage, (Vrms/ 1 min.)

Contacts/coils 2,5 kV

All terminals/DIN rail 2,5 kV

Terminal/terminal 2,5 kV

Cross-section of connecting wire

Single-wire 4 mm² or 2 x 2,25 mm²

Multi-wire 22 - 14 AWG

Cable with tip 4 mm²

Max. screw torque 1,2 Nm

Screw dimensions M3, Pozi

Retaining clip plastic integrated

Weight 55 gr



Socket for RM relays

Socket for RM 11 pin plug-in relays RM3010, RM3014, RM3117, RM2112, RM3113, RM1015, RM1016, RM2019

Mounting in rail DIN and panel

Coding label.

Numeration EN/DIN

According to the norm EN 60947-1 and IEC 61810-1

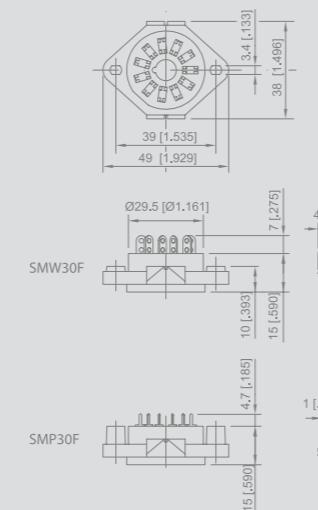
SMW30F - 3 POLES, PANEL MOUNTING, SOLDERING WITH CABLES



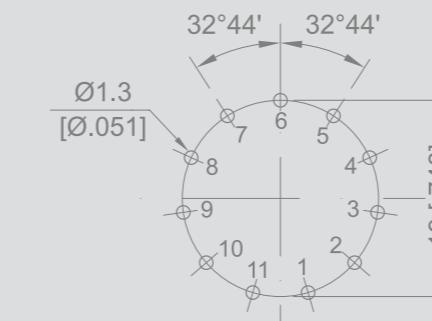
SMP30F - 3 POLES, PRINTED CIRCUIT, MOUNTABLE WITH SCREW M3



Dimensions mm [in]



PCB mounting



Socket for RM relays

Socket for RM 11 pin plug-in relays RM3010, RM3014, RM3117, RM2112, RM3113, RM1015, RM1016, RM2019

Specifications

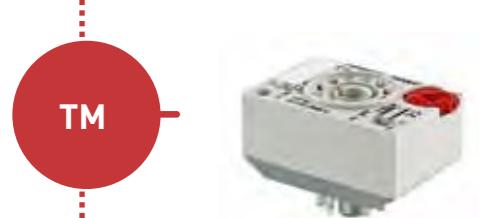
Rated load 10 A / 250 V

Insulation (terminal/terminal) 2,5 kV



TM timers

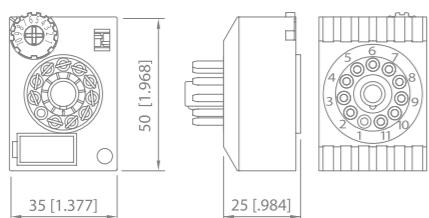
TMA TMB TMC TMD TMS



TM timers plug into the sockets timing 8 and 11 pin relays.
RM2 & RM3. These relays plug into the timer.

TM

Dimensions mm [in]

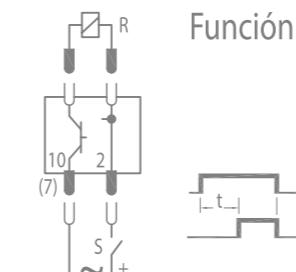


Specifications

Repetition accuracy.....	+0,5 % /20 ms.
Voltage variations.....	1ms/volt
Ambient temperature.....	-0,25% /K
Reset time	<150 ms.
Reset time	<200 ms.
Operation time.....	VAC/VDC 80/50 ms.
Ambient temperature.....	-10°C...+60°C
Protection	IEC 255.4
Material PC Lexan or similar	
Protection degree	IP40
Weight.....	35 g

TMA - ON DELAY

Connection diagram



Función A

The count is initiated when S is closed. The relay is activated when the time (t) is achieved

Types TMA2 and TMA3 with time scale 0,2 sec - 30 min.

TMA2L 12 ... 60 V
TMA2H 61... 240 V

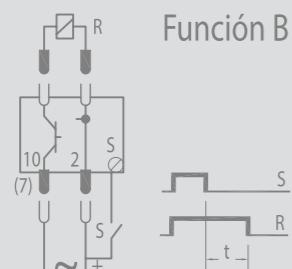
TMA3L 12 ... 60 V
TMA3H 61... 240 V

TM

TMB - INTERVAL IN OFF-IMPULSE

The count is initiated when S is opened. The relay is deactivated when time t is reached.

Connection diagram



Función B

Types TMB2 and TMB3 with time scale 0,2 sec - 30 min.

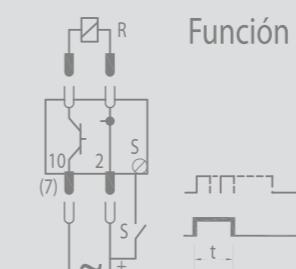
TMB2L 12 ... 60 V
TMB2H 61... 240 V

TMB3L 12 ... 60 V
TMB3H 61... 240 V

TMD - IMPULSE-ON INTERVAL

The relay is activated with a closing pulse in S and deactivated when the time (t) is reached

Connection diagram



Función D

Types TMD2 and TMD3 with time scale 0,2 sec - 30 min.

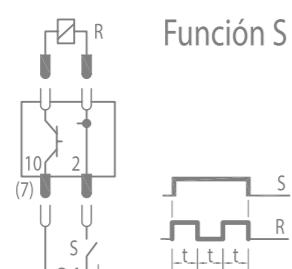
TMD2L 12 ... 60 V
TMD2H 61... 240 V

TMD3L 12 ... 60 V
TMD3H 61... 240 V

TMS - CYCLIC

The relay is activated intermittently in time cycles (t) when S is closed. First cycle ON

Connection diagram



Función S

Types TMS2 and TMS3 with time scale 0,2 sec - 30 min.

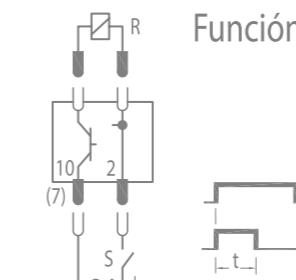
TMS2L 12 ... 60 V
TMS2H 61... 240 V

TMS3L 12 ... 60 V
TMS3H 61... 240 V

TMC - ONE SHOT DELAY

The relay is activated when S is closed and deactivated when the time (t) is reached

Connection diagram



Función C

Types TMC2 and TMC3 with time scale 0,2 sec - 30 min.

TMC2L 12 ... 60 V
TMC2H 61... 240 V

TMC3L 12 ... 60 V
TMC3H 61... 240 V

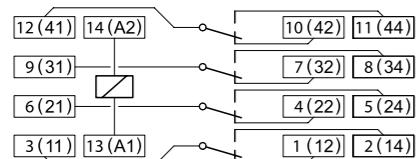
SM industrial sockets

SMT40 SMT40 SMP40X SMP40F

SMT40 - 4 POLES, RAIL DIN



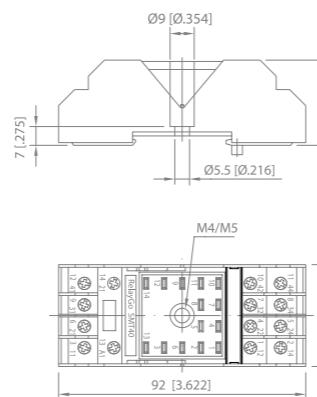
Connection diagram



Socket for RM4 relay, with clip and marking label

10 A / 250 V

Dimensions mm [in]



Specifications

Rated load 10 A / 250 V

Insulation

Test voltage, [Vrms / 1 min.]

Contacts/coils 2,5 kV

All terminals/DIN rail 2,5 kV

Terminal/terminal 25 kV

Cross-section of connecting wire

Single-wire 4 mm² or 2 x 2,25 mm²

Multi-wire 22 - 14 AWG

Cable with tip 4 mm²

Max. screw torque 1,2 Nm

Screw dimensions M3, Pozi

Retaining clip plastic integrated



Socket for RM relays

Socket for RM, 14 born plug-in relays RM3010, RM3014, RM3117, RM2112, RM3113, RM1015, RM1016, RM2019

Mounting in rail DIN and panel

Coding label.

Numeration EN/DIN

According to the norm EN 60947-1 and IEC 61810-1

SMW40F - 4 POLES, PANEL MOUNTING, SOLDERING WITH CABLES



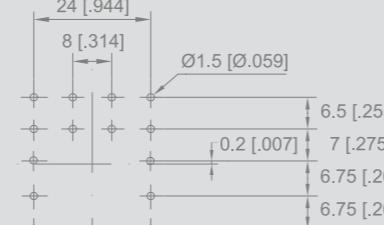
SMP40X - 4 POLES, PRINTED CIRCUIT



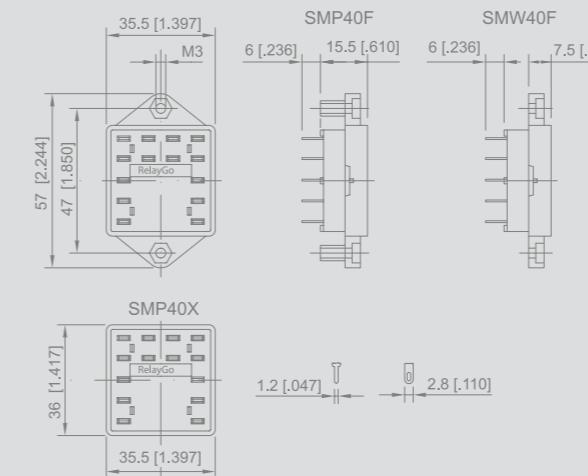
SMP40F - 4 POLES, PRINTED CIRCUIT, MOUNTABLE WITH SCREW M3



PCB mounting



Dimensions mm [in]



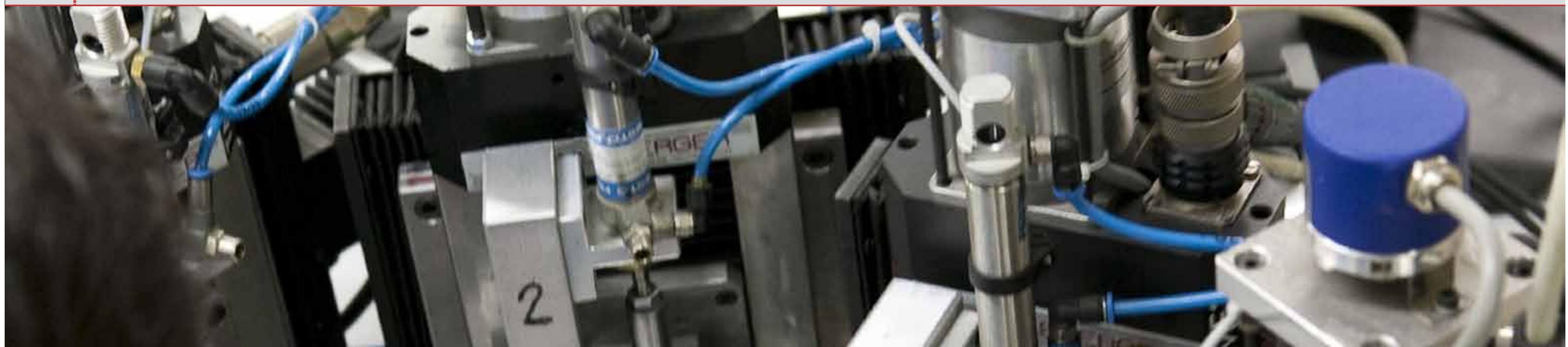
Socket for RM relays

Socket for RM, 14 born plug-in relays RM4010, RM2015, RM3019

Specifications

Rated load 10 A / 250 V

Insulation (terminal/terminal) 2,5 kV





RP

RP/SP power relays and sockets

RM2019

SPT30

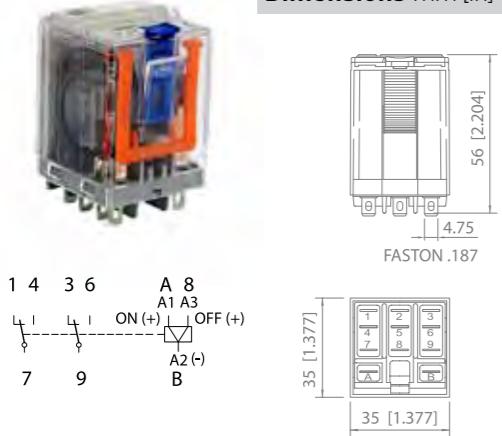
SPW30

SPP30X

SPP30F

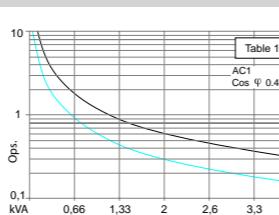
RP2019 – **2 CHANGE-OVER CONTACTS, REMANENCE, 9 FASTON, DPDT**

Dimensions mm [in]

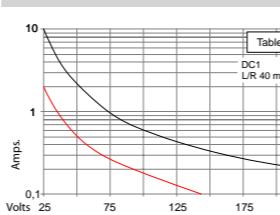


Magnetic remanence 10 A 400 V AC1 10 A 30 V DC1
0,2 A 250 V Ind 0,5 A 110 V DC1

Electric life, ops x 10⁶



Maxim load in VDC



Standard types

AC 50 Hz, (60 Hz): 24, 48, 115, (120), 230, (240)
RP2019NN
DC: 12, 24, 48, 110, 125
RP2019NN
Sockets: SPT30D, SPW30F, SPP30X, SPP30F

Contacts

Max.switching current..... 10 A
Max.peak inrush current, 20ms..... 30 A
Max. Switching voltage..... 400 V
Max. VAC load (table 1)..... 4 kVA
Max. VDC load..... see (table 2)
Contact material..... AgNi (std)

Insulation

Contact

Open contact..... 2000 V
Contact/contact..... 4 kV
Contact/coil..... 4 kV

Insulation resistance at 500 V..... >3G Ω
Insulation, EN 61810-1..... 4 kV / 3



IEC 61810 EN 60947

Specifications

Pick-up time/bounce time..... 50 ms.
Ambient temperature,operation/storage..... -40°C (no ice) 60°C/80°C
Mechanical life ops..... VAC:10 Mill./VDC:20 Mill
VDC voltage endurance at rated load..... >100.000 ops.
Switching frequency at rated load..... 1200/h.
Protection class..... IP40 / RT1
Weight..... 90 g.

Coils

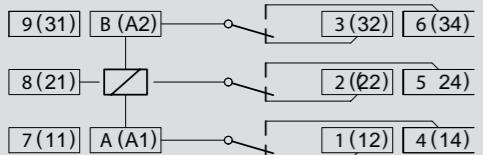
Pick-up voltage..... 1,5 VA/W
Release voltage..... 0,5 VA/W

VAC	ON mA	OFF mA	VDC	ON mA	OFF mA
24	75	12	12	125	41
48	38	6	24	63	21
115	16	2,5	48	31	10
230	8	1,3	110	14	4,5

SPT30 – **3 POLES, RAIL DIN**



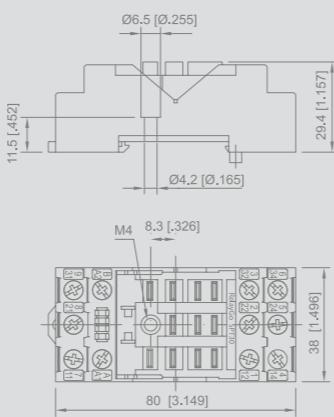
Connection diagram



Socket for 11 faston relays, with clip and marking label

16 A / 400 V

Dimensions mm [in]



Specifications

Rated load..... 10 A / 400 V

Insulation

Test voltage, (Vrms/ 1 min.)
Contacts/coils..... 4 kV
All terminals/DIN rail..... 4 kV
Terminal/terminal..... 4 kV

Cross-section of connecting wire

Single-wire..... 4 mm² or 2 x 2,25 mm²
Multi-wire..... 22 - 14 AWG
Cable with tip..... 4 mm²
Max. screw torque..... 1,2 Nm
Screw dimensions..... M3, Pozi
Retaining clip plastic integrated



Socket for RP relays

Socket for RP, 11 pin plug-in relays RP2010, RP3010, RP3014, RP1015, RP1016, RP2016, RP2019

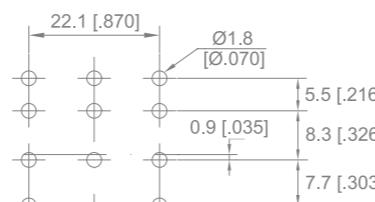
Mounting in rail DIN and panel
Coding label.
Numeration EN/DIN

According to the norm EN 60947-1 and IEC 61810-1

SPW30F – **3 POLES, PANEL MOUNTING, SOLDERING WITH CABLES**



PCB mounting



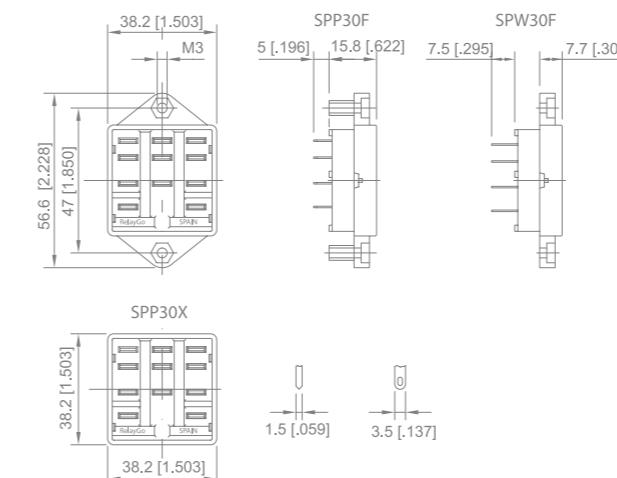
SPP30X – **3 POLES, PRINTED CIRCUIT**



SPP30F – **3 POLES, PRINTED CIRCUIT, MOUNTABLE WITH SCREW M3**



Dimensions mm [in]



Socket for RP relays

Socket for RP, 11 pin plug-in relays RP2010, RP3010, RP3014, RP1015, RP1016, RP2016, RP2019

Specifications

Rated load..... 16 A / 400 V
Insulation (terminal/terminal)..... 4 kV





RQ

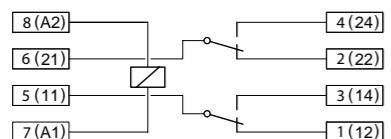
SQ miniature relays sockets

SQB20 SQB20D 10 SQW20 SQP20X SQP20F

SQB20 - 2 POLE, RAIL DIN



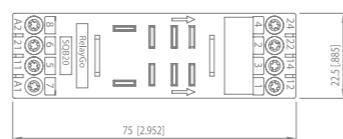
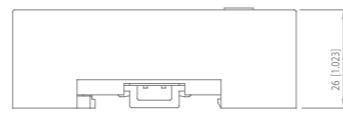
Connection diagram



Socket for RQ relays, with clip and marking label

10 A / 250 V

Dimensions mm [in]



Specifications

Rated load 16 A / 250 V

Insulation

Test voltage, (Vrms/ 1 min.)

Contacts/coils 2,5 kV

All terminals/DIN rail 2,5 kV

Terminal/terminal 25 kV

Cross-section of connecting wire

Single-wire 4 mm² ó 2 x 2,25 mm²

Multi-wire 22 - 14 AWG

Cable with tip 4 mm²

Max. screw torque 1,2 Nm

Screw dimensions M3, Pozi

Retaining clip plastic integrated

Socket for RQ relays

Socket for RQ,2 poles plug-in relays RQ2010, RQ2010NN7, RQ2014, RQ2021, RQ2117, RQ1018, RQ1015

Mounting in rail DIN and panel
Coding label.
Numeration EN/DIN

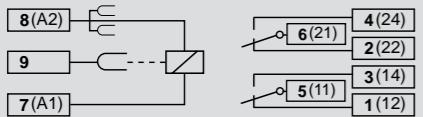
According to the norm EN 60947-1 and IEC 61810-1



SQB20I 10 - 2 POLES, RAIL DIN, LOGICAL DISPOSITION IN- OUT



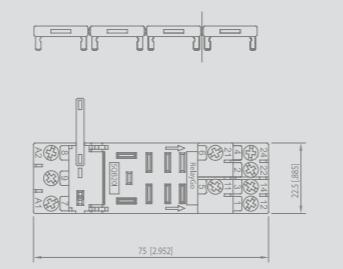
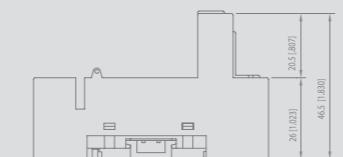
Connection diagram



Socket for RQ relays, with clip and marking label

10 A / 250 V

Dimensions mm [in]



Specifications

Rated load 10 A / 250 V

Insulation

Test voltage, (Vrms/ 1 min.)

Contacts/coils 2,5 kV

All terminals/DIN rail 2,5 kV

Terminal/terminal 2,5 kV

Cross-section of connecting wire

Single-wire 4 mm² or 2 x 2,25 mm²

Multi-wire 22 - 14 AWG

Cable with tip 4 mm²

Max. screw torque 1,2 Nm

Screw dimensions M3, Pozi

Retaining clip plastic integrated

Socket for RQ relays

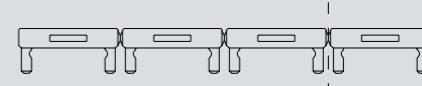
Socket for RQ,2 poles plug-in relays RQ2010, RQ2010NN7, RQ2014, RQ2021, RQ2117, RQ1018, RQ1015

Mounting in rail DIN and panel
Coding label.
Numeration EN/DIN

According to the norm EN 60947-1 and IEC 61810-1

Accessories

Coil bridge BQ14 for socket SQB20I



SQW20F - 2 POLES, PANEL MOUNTING, SOLDERING WITH CABLES



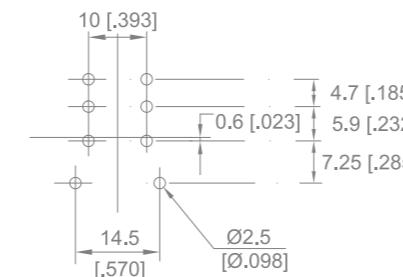
SQP20X - 2 POLES, PRINTED CIRCUIT



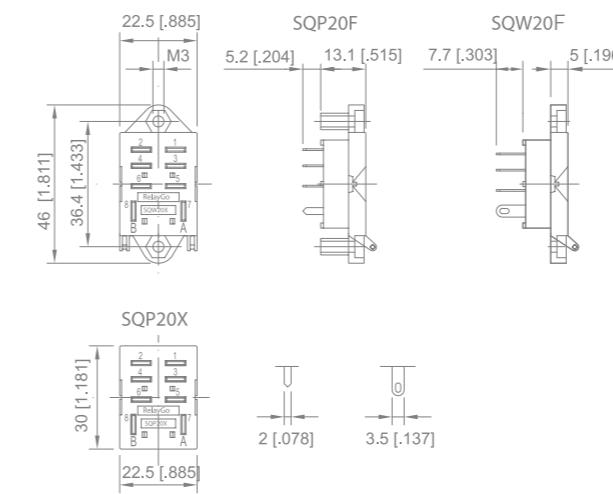
SQP20F - 2 POLES, PRINTED CIRCUIT, MOUNTABLE WITH SCREW M3



PCB mounting



Dimensions mm [in]



Socket for RQ relays

Socket for RQ, 2 poles plug-in relays RQ2010, RQ2010NN7, RQ2014, RQ2021, RQ2117, RQ1018, RQ1015

Specifications

Rated load 10 A / 250 V

Insulation (terminal/terminal) 2,5 kV

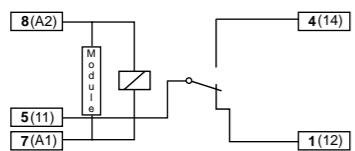


SQ miniature relays sockets

SQR10 - 1 POLE, RAIL DIN



Connection diagram

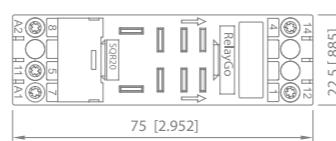
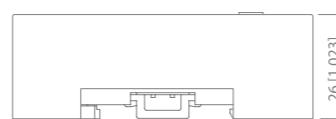


Socket for RQ1010 relays, with clip and marking label

16 A / 250 V

Dimensions mm [in]

SQR10 para RQ1010 (16A) relés



Specifications

Rated load 16 A / 250 V

Insulation

Test voltage, (Vrms/ 1 min.)

Contacts/coils 2,5 kV
All terminals/DIN rail 2,5 kV
Terminal/terminal 2,5 kV

Cross-section of connecting wire

Single-wire 4 mm² or 2 x 2,25 mm²
Multi-wire 22 - 14 AWG
Cable with tip 4 mm²
Max. screw torque 1,2 Nm
Screw dimensions M3, Pozi
Retaining clip plastic integrated



Socket for RQ1010 relays

Socket for RQ, 1 pole plug-in relays RQ1010

Mounting in rail DIN and panel
Coding label
Numeration EN/DIN

According to the norm EN 60947-1 and IEC 61810-1



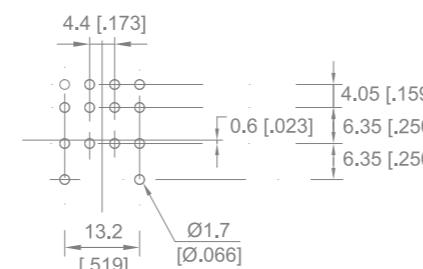
SQ miniature relays sockets



SQW40F - 4 POLES, PANEL MOUNTING , SOLDERING WITH CABLES



PCB mounting



SQP40X - 4 POLES, PRINTED CIRCUIT



SQP40F - 4 POLES, PRINTED CIRCUIT, MOUNTABLE WITH SCREW M3



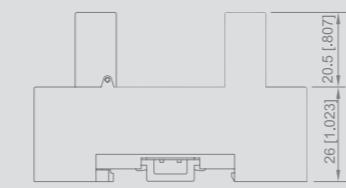
SQB40 - 4 POLES, RAIL DIN



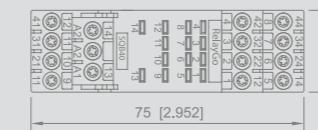
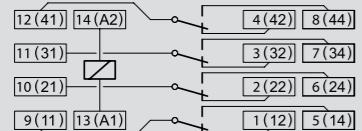
Socket for RQ4 relays, with clip and marking label

10 A / 250 V

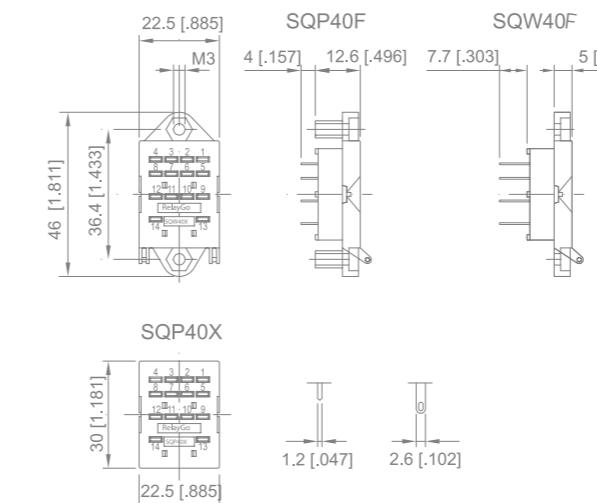
Dimensions mm [in]



Connection diagram



Dimensions mm [in]



Socket for RQ relays

Socket for RQ, four / two poles plug-in relays RQ4110, RQ2112, RQ2119

Specifications

Rated load 6 A / 250 V
Insulation (terminal/terminal) 2,5 kV



Socket for RQ relays

Socket for RQ, four / two poles plug-in relays RQ4110, RQ2112, RQ2119

According to the norm EN 60947-1 and IEC 61810-1



Specifications

Rated load 6 A / 250 V

Insulation

Test voltage, (Vrms/ 1 min.)
Contacts/coils 2,5 kV
All terminals/DIN rail 2,5 kV
Terminal/terminal 2,5 kV

Cross-section of connecting wire

Single-wire 4 mm² or 2 x 2,25 mm²
Multi-wire 22 - 14 AWG
Cable with tip 4 mm²
Screw dimensions M3, Pozi
Max. screw torque 1,2 Nm
Retaining clip plastic integrated





RF

RF/RS interface relays and solid state relays

RF1217

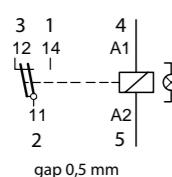
RF1222

RS1614

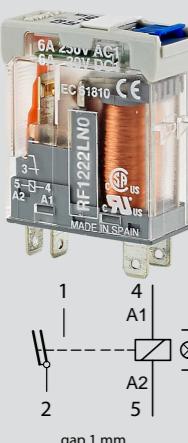
RF1217 – 1 TWIN CHANGE-OVER CONTACT, 5 FASTON, SPDT



1 TWIN CHANGE-OVER
CONTACT, 5 FASTON, SPDT



RF1222 – 1 TWIN CHANGE-OVER CONTACT, NO, 4 FASTON, SPST



1 TWIN CHANGE-OVER
CONTACT, NO, 4 FASTON, SPST



gap 1 mm

RS1614 – SOLID STATE RELAY, VDC

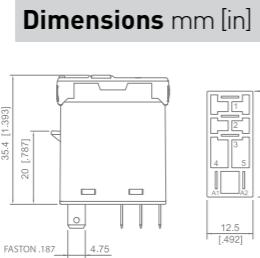


SOLID STATE RELAY, VDC

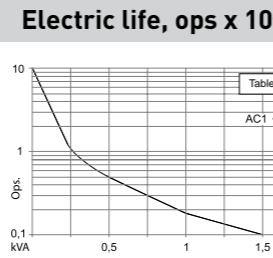


Low signal 6 A 250 V AC-1 0,5 A 110 V DC-1
6 A 30 V DC-1 0,2 A 220 V DC-1

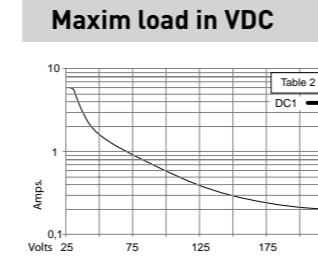
Dimensions mm [in]



Electric life, ops x 10⁶



Maxim load in VDC



Standard types

AC 50 Hz, [60 Hz]: 24, 48, 115, [120], 230, [240]
RF1217NN, RF1217LN, RF1217NR
DC: 12, 24, 48, 110
RF1217NN, RF1217LN, RF1217LE
AC/DC:RF1217LU
Sockets: SFB10D, SFR10D, SFP10X

Contacts

Max.switching current 6 A
Max.peak inrush current, 20ms 15 A
Max. Switching voltage 250 V
Max. VAC load (table 1) 1,5 kVA
Max. VDC load see (table 2)
Contact material AgNi + 3 µ Au [std], AgNi + 10 µ Au

Insulation

Contact
Open contact 1000 V
Contact/coil 5 kV
Insulation resistance at 500 V >3G Ω
Insulation, EN 61810-1 4 kV / 3



Specifications

Pick-up time/bounce time 10 ms / 1 ms
Release time/bounce time 5 ms / ≤ 3 ms
Ambient temperature,operation/storage -40°C (no ice)70°C/80°C
Mechanical life ops VAC:10 Mill./VDC:20 Mill
VDC voltage endurance at rated load >100.000 ops.
Switching frequency at rated load 1200/h.
Protection class IP40 / RT1
Weight 21 g.

Coils

Pick-up voltage < 0,8 x Un
Release voltage >0,1 x Un
Nominal power 1,1 VA (VAC) / 0,7 W (VDC)

VAC	Ω	mA	VDC	Ω	mA
24	290	45	12	224	53
48	1.200	23	24	742	32
115	7.300	9,5	48	3.500	13,7
230	28.800	4,7	110	19.900	5,5

Specifications

Pick-up time/bounce time 10 ms / 1 ms
Release time/bounce time 5 ms / ≤ 3 ms
Ambient temperature,operation/storage -40°C (no ice)70°C/80°C
Mechanical life ops VAC:10 Mill./VDC:20 Mill
VDC voltage endurance at rated load >100.000 ops.
Switching frequency at rated load 1200/h.
Protection class IP40 / RT1
Weight 21 g.

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48	1.200	23	24	742	32
115	7.300	9,5	48	3.500	13,7
230	28.800	4,7	110	19.900	5,5

Contacts

Max.switching current 6 A
Max.peak inrush current, 20ms 15 A
Max. Switching voltage 250 V
Max. VAC load (table 1) 1,5 kVA
Max. VDC load see (table 2)
Contact material AgNi + 3 µ Au [std], AgNi + 10 µ Au

Insulation

Contact
Open contact 2000 V
Contact/coil 5 kV
Insulation resistance at 500 V >3G Ω
Insulation, EN 61810-1 4 kV / 3



Entrance without polarity

Turn-on voltage 5...32 Vdc
Release voltage < 2,5 Vdc
Input current 3+1 mA
Stabilised current regulator Yes
Input voltage protection IEC-1000-4-5 level 1



IEC 61810 EN 60947

Specifications

Test voltage between input/output 4 KV / 1 min
Turn-on delay 1 ms
Release delay max. 2 ms
Ambient temperature operation 60°C
Ambient temperature storage 100°C
Weight 28 g.

RS solid state relays

RS1714

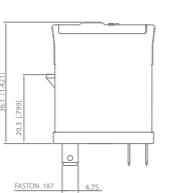
RS1814

RS1914

RS1714 - SOLID STATE RELAY, VDC

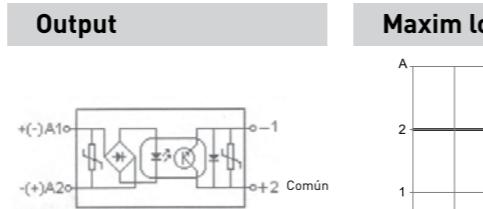


Dimensions mm [in]

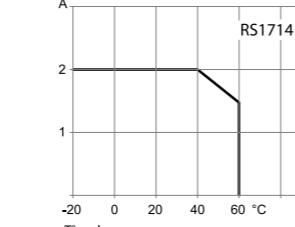


Connection of inductive and resistive loads in VDC, positive common
2 A 5 ... 50 VDC

Output



Maxim load



Standard types

Sockets: SFB10D, SFR10D, SFP10X

Entrance without polarity

Input voltage	5...32 Vdc
Release voltage	< 2,5 Vdc
Input current	3+1 mA
Stabilised current regulator	Yes
Input voltage protection	IEC-1000-4-5 level 1

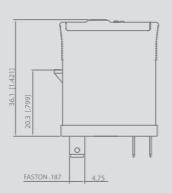


IEC 61810 EN 60947

RS1814 - SOLID STATE RELAY, VAC

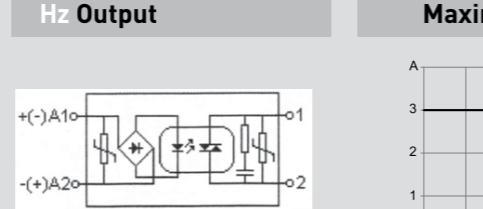


Dimensions mm [in]

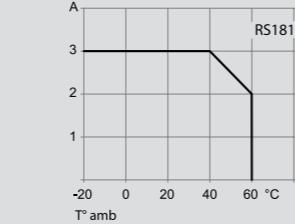


Connection of inductive loads in VAC, one open contact
3 A 24 ... 250 V AC, 50/60

Hz Output



Maxim load



Standard types

Sockets: SFB10D, SFR10D, SFP10X

Entrance without polarity

Input voltage	5...32 Vdc
Release voltage	< 2,5 Vdc
Input current	5...15 mA
Stabilised current regulator	Yes
Input voltage protection	IEC-1000-4-5 level 1

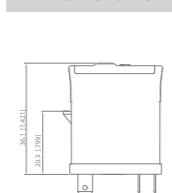


IEC 61810 EN 60947

RS1914 - SOLID STATE RELAY, VAC

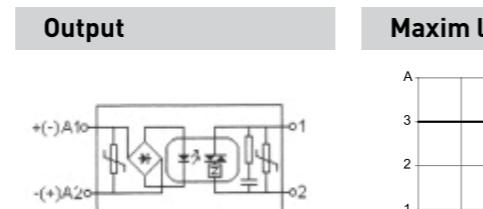


Dimensions mm [in]

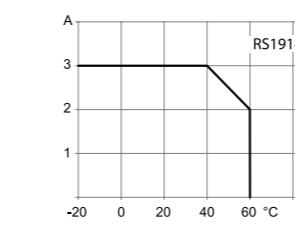


Connection of resistive and lamp loads in VAC, zero crossing, one open contact 3 A 24 ... 250 V AC, 50/60 Hz

Output



Maxim load



Tipos estándar

Sockets: SFB10D, SFR10D, SFP10X

Entrance without polarity

Input voltage	5...32 Vdc
Release voltage	< 2,5 Vdc
Input current	5...15 mA
Stabilised current regulator	Yes
Input voltage protection	IEC-1000-4-5 level 1



IEC 61810 EN 60947

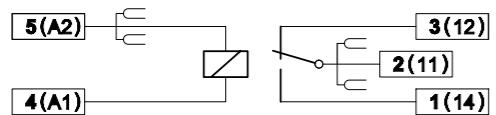
SF interface relays sockets

SFB10 SFR10 SFP10X

SFB10 - 1 POLE, RAIL DIN

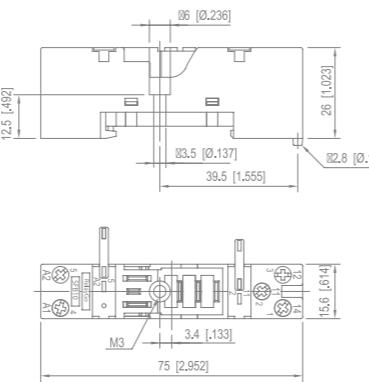


Connection diagram



Sockets for RF relays of a change-over pole.
Rail Din or panel mounting

Dimensions mm [in]



Specifications

Rated load 10 A / 250 V

Insulation

Test voltage, (Vrms/ 1 min.)
Contacts/coils 5 kV
All terminals/DIN rail 5 kV
Maxim strength of pressing in bornes 1,2 Nm
Cable multi-thread capacity 22 - 14 AWG
Capacity of the solid or pointers thread 4 mm² or 2 x 2,25 mm²
Approximate weight 28 g
Fastening clip integrated
Identification label

Other aspects

Tinned hard brass terminals
Zinc screws
Integrated clip. It allows to remove the label



Socket for RF relays

In/out socket of borns "in line" for relays RF1010, RF1010NN7, RF1014, RF1410, RF1514, RF1217, RF1222, RS1614, RS1714, RS1814, RS1914

Accessories

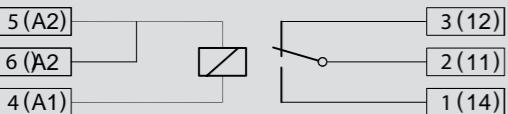
Coil bridge BF14
Integrated clip
Mounting in rail din
Maxim current through the bridge 10 A



SFR10 - 1 POLE, RAIL DIN, REINFORCED, IN/OUT FOR INTERFACE

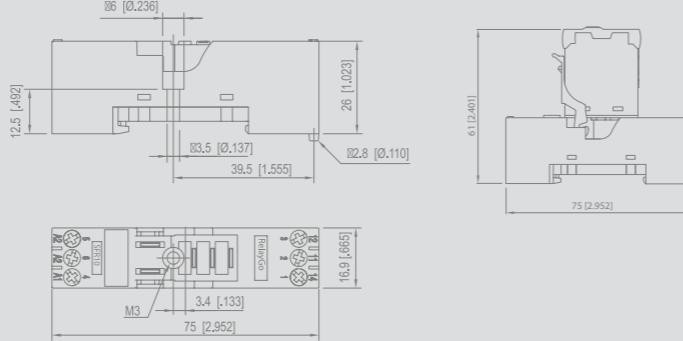


Connection diagram



Socket in/out for RF relays of a change-over pole

Dimensions mm [in]



Specifications

Rated load 16 A / 250 V

Insulation

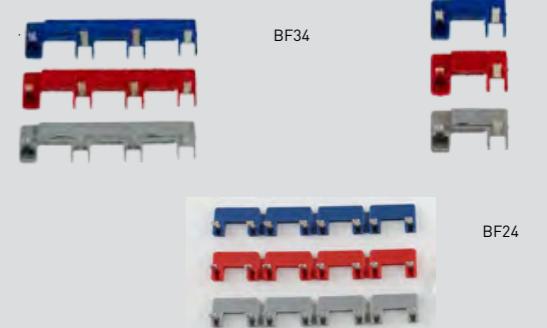
Test voltage, (Vrms/ 1 min.)
Contacts/coils 5 kV
All terminals/DIN rail 5 kV
Máxima fuerza de apriete en bornas 1,2 Nm
Screw dimensions M3, Pozi
Cable multi-thread capacity 22 - 14 AWG
Capacity of the solid or pointers thread 4 mm² or 2 x 2,25 mm²
Terminals of extrahard brass, processed 4 mm²
Fastening clip integrated
Identification label



Socket for RF relays

In/out socket of borns "in line" for relays RF1010, RF1010NN7, RF1014, RF1410, RF1514, RF1217, RF1222, RS1614, RS1714, RS1814, RS1914

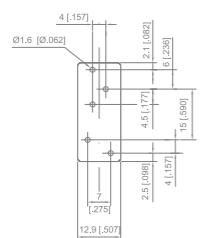
BF bridges are suitable to use in sockets SF1. These bridges allow to join in a secure and quick way the contacts saving cabling and reducing the time of the mounting.



SFP10X - 1 POLE, PRINTED CIRCUIT

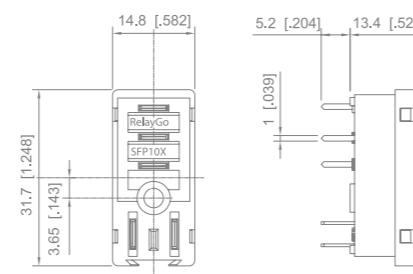


Connection diagram



Sockets for RF relays in printed circuit

Dimensions mm [in]



Specifications

Rated load 10 A / 250 V

Insulation

Test voltage, (Vrms/ 1 min.)
Contacts/coils 5 kV
Hard brass tin-plated terminals 0.05 x 1 mm
Retaining clip plastic integrated



Socket for RF relays

In/out interface socket with terminals for RF1010, RF1010NN7, RF1014, RF1410, RF1514, RF1217, RF1222, RS1614, RS1714, RS1814, RS1914

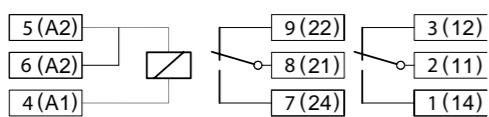
SF interface relays sockets

SFB20 SFP20X

SFB20 – 2 POLES IN/OUT FOR INTERFACE

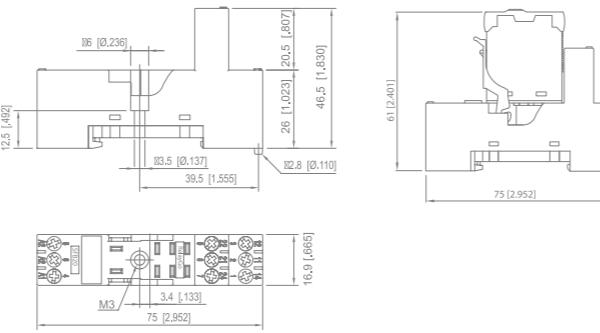


Connection diagram



Socket in/out RF relays of two change-over poles

Dimensions mm [in]



Specifications

Rated load 5 A / 250 V

Insulation

Test voltage, (Vrms/ 1 min.)
Contacts/coils 5 kV
All terminals/DIN rail 5 kV
Terminal/terminal 3 kV
Max screw torque 1,2 Nm
Max cross section multi-wire 22 - 14 AWG
Max cross section single-wire (or tip) 4 mm²
Terminal box iron zinc plated
Retaining clip and marking label integrated

Socket for RF relays

Socket interface with terminals in line for relays RF2100, RF2114, RF2110NN7

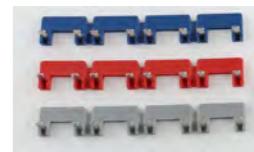
The bridges BF allow to connect securely and quickly the terminals of sockets SFB, saving material and time.



BF34



BF31

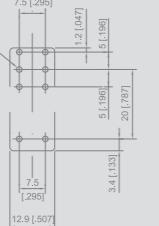


BF24

SFP20X – 2 POLES, PRINTED CIRCUIT

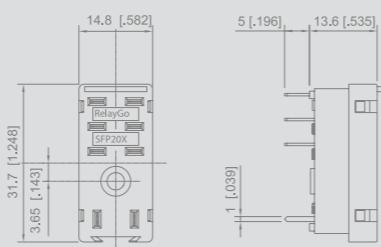


Connection diagram



Socket of printed circuit for RF relays in two poles

Dimensions mm [in]



Specifications

Rated load 5 A / 250 V

Insulation

Test voltage, (Vrms/ 1 min.)
Contacts/coils 5 kV
Hard brass tin-plated terminals 0,5 x 1 mm
Retaining clip plastic integrated

Socket for RF relays

Socket interface with terminals in line for relays RF2110, RF2114, RF2110NN7





RR

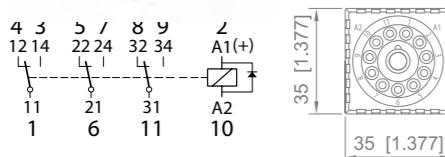
RR railway relays

RR3010

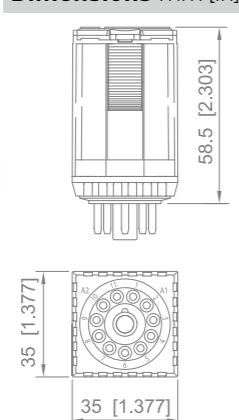
RR2010

RR2117

**RR3010 - 3 CHANGE-OVER CONTACTS,
11 PINS, TPDT**

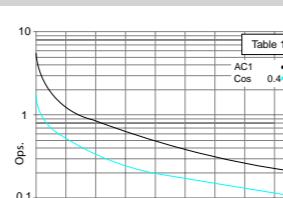


Dimensions mm [in]

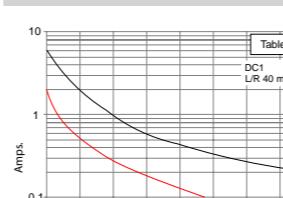


Application for railway 6 A 250 V AC-1 6 A 110 V DC-1

Electric life, ops x 10⁶



Maxim load in VDC



Standard types

DC: 12, 24, 48, 110
RR3010NN, RR3010LN, RR30F00
Sockets: SMB30D, SMP30D, SMB30P, SMB30S, SMW30F, SMP30F

Contacts

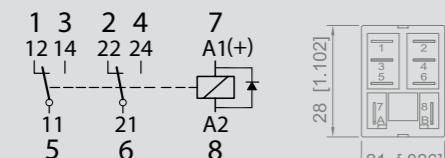
Max.switching current 6 A
Max.peak inrush current, 20ms 15 A
Max. Switching voltage 250 V
Max. VAC load (table 1) curve / see Fig 1
Max. VDC load see (table 2)
Contact material AgNi (std), std + 0,2µ Au, std + 10µ Au

Insulation

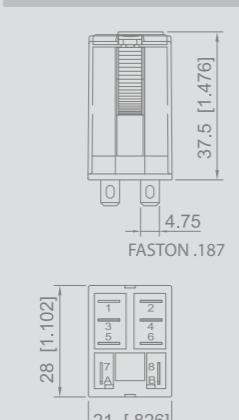
Pollution grade PD3
With pulse (1.2/50µs)
Contacts (pulses /Vrms, 1 min)
Contact/contact 4 kV / 2200 V
Contact/coil 4 kV / 2200 V
Between contacts same pole 1550 / 850 V



**RR2010 - 2 CHANGE-OVER CONTACTS,
8 FASTON, DPDT**

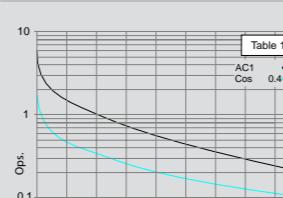


Dimensions mm [in]

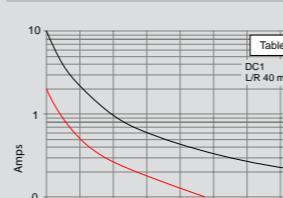


Application for railway 10 A 250 V AC-1 10 A 30 V DC-1

Electric life, ops x 10⁶



Maxim load in VDC



Standard types

DC: 12, 24, 48, 110
RR2010NN, RR2010LN, RR2010D, RR2010LD
Sockets: SQB20D, SQW20X, SQP20X, SQP20F, SQB20I

Contacts

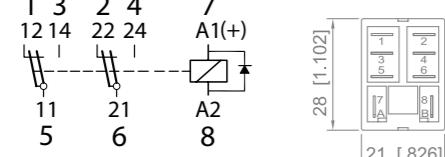
Max.switching current 10 A
Max.peak inrush current, 20ms 30 A
Max. Switching voltage 250 V
Max. VAC load (table 1) 2,5 kVA
Max. VDC load see (table 2)
Contact material AgNi (std), std + 0,2µ Au, std + 10µ Au

Insulation

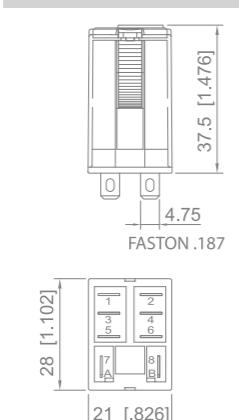
Pollution grade PD3
With pulse (1.2/50µs)
Contacts (pulses /Vrms, 1 min)
Contact/contact 4 kV / 2200 V
Contact/coil 4 kV / 2200 V
Between contacts same pole 1550 / 850 V



**RR2117 - 2 CHANGE-OVER BIFURCATED
CONTACTS, 8 FASTON, DPDT**

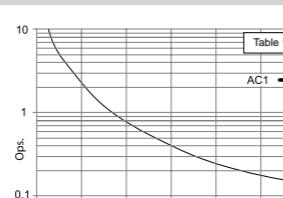


Dimensions mm [in]

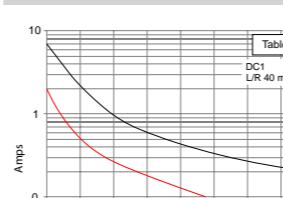


Application for railway 6 A 250 V AC-1 6 A 30 V DC-1

Electric life, ops x 10⁶



Maxim load in VDC



Standard types

DC: 12, 24, 48, 110
RR2117NN, RR2117LN, RR2117D, RR2117LD
Sockets: SQB20D, SQW20X, SQP20X, SQP20F, SQB20I

Contacts

Max.switching current 6 A
Max.peak inrush current, 20ms 15 A
Max. Switching voltage 250 V
Max. VAC load (table 1) Table 1 / ver Fig 1
Max. VDC load see (table 2)
Contact material AgNi (std), std + 0,2µ Au, std + 10µ Au

Insulation

Pollution grade PD3
With pulse (1.2/50µs)
Contacts (pulses /Vrms, 1 min)
Contact/contact 4 kV / 2200 V
Contact/coil 4 kV / 2200 V
Between contacts same pole 1550 / 850 V



Specifications

Ambient temperature 40°C
Mechanical life ops > 10 millions
Thermic class B (130°)
Vibration:category-class 1/B Body Mounted
Protection class IP40
Vibration 5-150Hz (3 axes)
Shock 5 g (3 axes)
Operation (UN) / release time 18 ms / 35 ms
Weight 95 g.

Coils

Operation range 0,7 UN @ 1,25 Un
Nominal power 1,07 W
Release voltage >0,1 x Un

Specifications

Ambient temperature 40°C
Mechanical life ops 20 millions
Thermic class B (130°)
Vibration:category-class 1/B Body Mounted
Protection class IP40
Vibration 5-150Hz (3 axes)
Shock 5 g (3 axes)
Operation (UN) / release time 10 ms / 15 ms
Weight 35 g.

Coils

Operation range 0,7 UN @ 1,25 Un
Nominal power 1,07 W
Release voltage >0,1 x Un



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