



Harmony Electromechanical Relays

Interface, miniature, and power
electromechanical relays

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General presentation

RSL relays for compactness

Harmony Electromechanical Relays

Used to multiply the number of input and output contacts, or for logic processing control

A

RSL relays are compact modular relays conforming to IEC/EN 61810-1, UL508, CSA C22.2 No. 14, and EAC international standards.

Harmony relays offer interface, miniature, universal, and power electromechanical relays, from 1 CO to 4 CO contacts, up to 30 A. The electromechanical relays help to reduce the size of enclosures and at the same time, increase machine reliability.

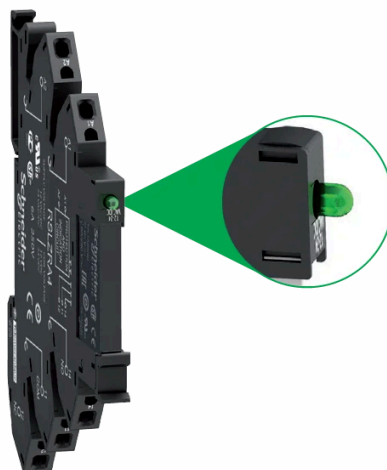
RSL relays for compactness

Flexible offer

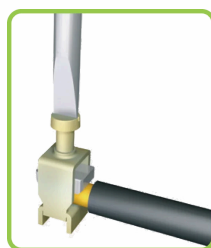
- Available as a single-referenced complete product (relay and socket) or customer-assembled product
- Wide choice of sockets ranging from 12 to 230 VAC
- Standard and low-level contact types

Enhanced performance

- Sockets with integrated reverse polarity protection circuit
- Relays for high breaking capacity or low-level current application requirements
- Power-on and Relay status LED indicator



LED indicator for RSL relay status



Screw connector



Spring terminal

Simple installation and cabling

- Locking/unlocking lever for removing and replacing the relay in the socket
- Simple DIN rail mounting and commoning link accessory
- Choice of screw connector or spring terminal connection for sockets

General presentation RXG relays for reliability

Complete offer

RXG relays offer a broad range of coil voltages, from 6 V to 110 VDC and 24 V to 230 VAC. The relays are available with/without lockable test button, LED, and basic cover.



Easy to mount and use

These are the latest relays with a single-step lockable test button. The Faston pin terminal mounts quickly and securely. The slim 16 mm/0.629 in. socket for 2 CO saves panel space.



Expandable relays

RXG relays can be expanded with protection modules such as diode, diode with LED, varistor with LED, and RC circuit.



General presentation

RXM relays for automation control

A

RXM industrial relays bring features for easy and improved control of simple and complex automation systems.

RXM relays for automation control

Easy to select

- Wider choice of contacts (2, 3, and 4 CO)
- Broad range of control circuit voltages and different socket types

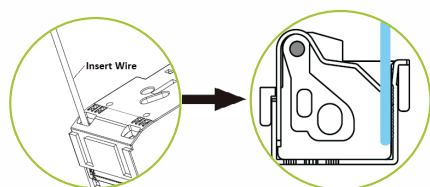


Convenient to use

- One-step lockable test button
- Mechanical indicator for contact status
- "Power On" LED for readiness



LED indicator for relay status



Push-in terminal: insert without tool

Simple to install

- 64% less wiring time with Push-in Sockets (no screwdriver required)
- Sockets for both DIN rail and panel mounting, time-saving bus jumper
- Direct mounting with DIN rail or flange adapter

Designed to perform

- Eco-design with RoHS and REACH
- Flexible add-on protection modules
- Push-in Socket with 223.75 Newton max pull out force, reliable in vibration environment

Note: The Zelio Relays range name was changed in 2020 to Harmony Relays. As the timeline for each range is different, during the transition period, both Zelio and Harmony ranges will be shown on different product datasheets and packaging.

Selection guide

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Selection guide

Interface and slim interface relays

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Type of product	Plug-in relays	Slim interface relays	Interface relays
			
Number and type of contacts/conventional thermal current (Ith on NO contact)	1 CO/10 A 2 CO/5 A	1 CO/6 A	1 CO/16 A 1 CO/12 A 2 CO/8 A
Control circuit voltage	24...230 V 6...110 V	- 12...60 V	24...240 V 6...110 V
Pin type	Flat (Faston type)	Flat (PCB type, reinforced)	Flat (PCB type)
Operational voltage	Up to 250 V~/30 V---	Up to 250 V~/30 V---	Up to 250 V~/30 V---
Durability (operational cycles per hour)	100,000 10,000,000 for AC coil 10,000,000 for DC coil	60,000 10,000,000	100,000 30,000,000
Functions	LED Mechanical indicator Test button Contact type	No No No Standard and low-level	Yes (with protection modules) No No Standard
Accessories	Mounting adapters for DIN rail Mounting adapters with fixing lugs	No No	No No
Type references	RXG●●●● (1)	RSL1●B4●D (1)	RSB●●●●●● (1)
For more information	See here E-3	See here C-3	See here D-3

Type of associated sockets	Sockets			Sockets with LED and protection circuit		Sockets without LED			
									
Contact terminal arrangements	Separate	Separate	Mixed	Separate	Spring terminals	Separate	Push-in terminals		
Connection	Screw connector	Push-in terminals	Screw clamp terminals	Screw connector	Spring terminals	Screw connector	Push-in terminals		
Accessories	Protection modules Timer module Maintaining clamps Socket identification legend Bus jumper	Yes No Yes (plastic, integrated) Yes Yes, 8-pole	Yes No Yes (plastic, integrated) Yes Yes, 2-pole	No No Yes (plastic, integrated) No No	No No No Yes Yes, 20-pole	No No No Yes Yes, 8-pole	Yes No Yes (plastic, integrated) Yes Yes, 2-pole	Yes No Yes (plastic, integrated) Yes Yes, 2-pole	Yes No Yes (plastic, integrated) Yes Yes, 2-pole
Conventional thermal current (Ith)	10 A 5 A	10 A 5 A	10 A 5 A	6 A 6 A	6 A 6 A	12 A (2 terminals) × 10 A (2)	12 A (2 terminals) × 10 A (2)	12 A (2 terminals) × 10 A (2)	12 A (2 terminals) × 10 A (2)
Type references	RGZE1S35M RGZE1S48M	RGZE05P RGZE08P	RGZE05E RGZE08E	RSLZV●● RSLZR●●	RSZE1S35M RSZE1S48M	RSZE05P RSZE08P	RSZE05P RSZE08P	RSZE05P RSZE08P	RSZE05P RSZE08P
For more information	See here E-5			See here C-3		See here D-3			

(1) Pre-assembled interface relays RSL1PV●● and RSL1PR●● (standard type relay + socket), RSB (relay + socket + clamp + protection module + label), and RXG (relay + socket + protection module) are also available.
 (2) When using relay RSB1A160●● with socket RSZE1S48M, or RSZE08P terminals must be linked.

Type of product		Plug-in relays				Hermetically sealed relays					
		Miniature relays									
											
Number and type of contacts/conventional thermal current (Ith on NO contact)		2 CO/12 A 3 CO/10 A 4 CO/6 A 4 CO/3 A (low level)				4 CO/5 A 4 CO/3 A (low level) 2 CO/5 A					
Control circuit voltage		24...240 V 12...220 V				6...240 V 6...110 V					
Pin type		Flat (Faston type)				Flat (Plug-in type) (3)					
Operational voltage		Up to 250 V ~/30 V ---				Up to 240 V ~/30 V ---					
Durability (operating cycles per hour)		100,000 10,000,000				100,000 10,000,000					
Functions		LED Mechanical indicator Test button Contact type				No No No Standard and low-level					
Accessories		Mounting adapters for DIN rail Mounting adapters with fixing lugs				No No					
Type references		RXM●●●●● (1)				782X●XH●●● (3)					
For more information		See here F-4				See here G-3					
Type of associated sockets		Sockets without LED				Sockets					
											
Contact terminal arrangements		Mixed		Separate		Mixed		Separate		-	-
Connection		Screw connector	Screw clamp terminals	Screw connector	Push-in terminals	Screw connector	Screw clamp terminals	Screw connector	Solder lug	PCB pins	
Accessories		Protection modules	Yes	Yes	Yes	Yes	No	Yes	No	No	
		Timer module	No	No	No	No	No	No	No	No	
		Maintaining clamps	Yes	Yes	Yes	Yes (plastic, integrated)	Yes	Yes	Yes	Yes	
		Socket identification legend	Yes	No	Yes	Yes	No	Yes	-	-	
		Bus jumper	No	No	Yes, 2-pole	Yes, 2-pole	-	Yes, 2-pole	-	-	
Conventional thermal current (Ith)		10 A	10 A	12 A for 2 CO (2) 6 A for 4 CO	12 A for 2 CO 6 A for 4 CO	10 A	10 A	10 A	5 A	10 A	
Type references		RXZE2M114M	RXZE2M114	RXZE2S●●●M	RXZE14P	70-782E14-1	70-461-1	70-782EL14-1	70-378-1	70-379-1	
For more information		See here F-6				See here G-3					

(1) Pre-assembled miniature relays RXM (relay + socket + clamp + label) are also available.
 (2) Except for sockets RXZE2S11●M: 10 A.
 (3) To be used with specified sockets only.

Selection guide

Power and universal relays

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Type of product	Plug-in socket mount	Panel/DIN rail mount with flat (Faston type) terminals	Panel/DIN rail mount with screw terminals	Plug-in relays	Relays with clamp fixing
	Power relays			Power relays	Power relays
					
Number and type of contacts/conventional thermal current (I_{th} on NO contact)	1 NO/30 A 2 NO/25 A			1 CO/15 A 2 CO/15 A 3 CO/15 A 4 CO/15 A	2 NO/30 A (2) 2 CO/30 A (2)
Control circuit voltage	24...240 V 12...24 V			24...240 V 12...110 V	24...230 V 12...110 V
Pin type	Flat (Faston type)	Flat (Faston type)	Screw type	Flat (Faston type)	Flat (Faston type)
Operational voltage	Up to 277 V ~/30 V ---			Up to 270 V ~/28 V ---	Up to 277 V ~/30 V ---
Durability (operating cycles per hour)	100,000 5,000,000			100,000 (1) 10,000,000	100,000 5,000,000
Functions	LED Mechanical indicator Test button Contact type	Yes No Yes, non-lockable Standard	Yes No Yes, non-lockable Standard	Yes (depending on version) Yes Yes, lockable Standard	Yes (depending on version) Yes Yes, lockable Low level (depending on version) Standard
Accessories	Mounting adapters for DIN rail Mounting adapters with fixing lugs	No No	No No	Yes Yes	No No
Type references	725●XX●BM4L●	725●XX●BC3ML●	725●XX●SC3ML●	RPM●●●●	RPF●●●●
For more information	See here H-3			See here I-3	See here J-4 See here K-3
Type of associated sockets	Socket			Sockets without LED	
					  
Contact terminal arrangements	Separate	–	–	Mixed	Mixed
Connection	Screw connector	–	–	Screw clamp terminals	Screw connector
Accessories	Protection modules Timer module Maintaining clamps Socket identification legend Bus jumper	Yes No Yes – No	– – – – –	Yes Yes (for 3-pole and 4-pole) Yes (on socket RPZF1) Yes No	Yes Yes Yes No Yes, 2-pole
Conventional thermal current (I_{th})	30 A	–	–	16 A	12 A
Type references	70-725-1	–	–	RPZF●	RUZC●M RUZSC●M RUZSF3M
For more information	See here H-3	–	–	See here I-4	See here J-5

(1) 100,000 for RPM1 and RPM2; 60,000 for RPM3 and RPM4.

(2) 30 A when mounted with a 13 mm (0.51 in.) gap between two relays and 25 A when mounted side-by-side without a gap.

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RSL slim interface relays

C

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RSL slim interface relays

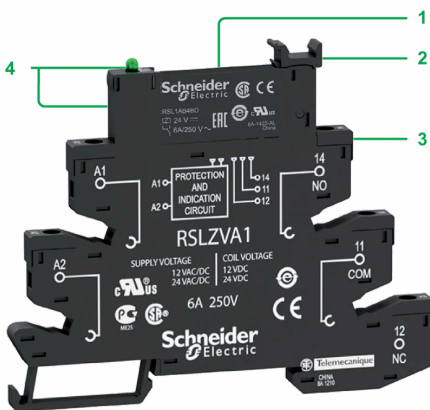
Presentation and description

Presentation of the range

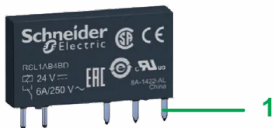
RSL slim interface relays offer the advantages of compact size and modular design. Their slim width (6 mm/0.236 in.) saves space when mounting on a DIN rail at the back of an enclosure.

RSL relays are available as:

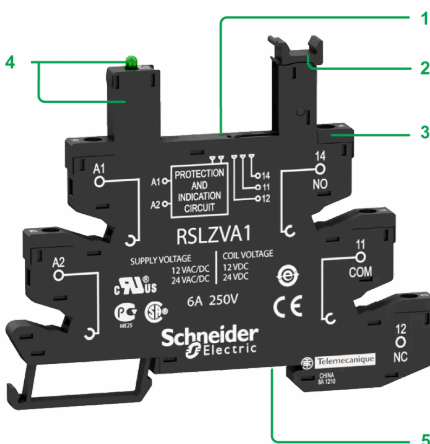
- **Pre-assembled offer:** a single reference comprising a standard relay mounted on its socket.
 - The socket includes a protection circuit (against reverse polarity and surge) and an LED indicator as standard.
 - Two types of connector are available for wire connection: screw connectors or spring terminals.
 - This pre-assembled solution covers a wide range of operating voltages from 12 to 230 V.
- **Customer assembly offer:**
 - The relay (standard or low level) and the socket are selected, as required, according to the application's operating voltage.
 - For maintenance, an RSL slim relay can be replaced without disconnecting the socket wiring.



Pre-assembled (socket + relay)



Relay



Socket

Relay description

RSL slim interface relays, pre-assembled

- 1 6 A standard relay with 1 CO contact
- 2 Lever for retaining or easy withdrawal of the relay from its socket
- 3 Sockets: wire connection by screw connectors or spring terminals
- 4 Built-in protection circuit and LED indicator on all sockets

RSL slim interface relay

- 1 5 flat (PCB type) standard pins

Socket description

Sockets for RSL slim interface relays

- 1 5 female contacts for the relay pins
- 2 Retaining lever with marker label
- 3 Wire connection by screw connectors or spring terminals
- 4 Built-in protection circuit and LED indicator
- 5 Locating slot for mounting on DIN rail

References



RSL1PVBU

RSL1PRPU

Pre-assembled slim interface relays

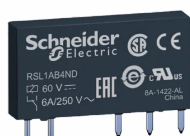
Relays mounted on socket equipped with LED and protection circuit (sold in lots of 10)

1 CO contact - 6A Thermal current (Ith)

Control circuit voltage V	Pre-assembled unit reference	Components in pre-assembled unit reference		Weight kg/lb
		Relay	Socket (with LED)	
12 ~/~	RSL1PVJU	RSL1AB4JD	RSLZVA1	0.031/0.068
24 ~/~	RSL1PVBU	RSL1AB4BD	RSLZVA1	0.031/0.068
48 ~/~	RSL1PVEU	RSL1AB4ED	RSLZVA2	0.031/0.068
110 ~/~	RSL1PVFU	RSL1AB4ND	RSLZVA3	0.031/0.068
230 ~/~	RSL1PVPVU	RSL1AB4ND	RSLZVA4	0.031/0.068

Spring terminal socket type

12 ~/~	RSL1PRJU	RSL1AB4JD	RSLZRA1	0.029/0.064
24 ~/~	RSL1PRBU	RSL1AB4BD	RSLZRA1	0.029/0.064
48 ~/~	RSL1PREU	RSL1AB4ED	RSLZRA2	0.029/0.064
110 ~/~	RSL1PRFU	RSL1AB4ND	RSLZRA3	0.029/0.064
230 ~/~	RSL1PRPU	RSL1AB4ND	RSLZRA4	0.029/0.064



RSL1AB4ND



RSLZVA

RSLZRA

Slim interface relays for customer assembly

Relays with flat (PCB type) standard pins

1 CO contact - 6A Thermal current (Ith)

Control circuit voltage V	Standard		Low level	
	Unit reference	Weight kg/lb	Unit reference	Weight kg/lb
12 ~	RSL1AB4JD	0.006/0.013	RSL1GB4JD	0.006/0.013
24 ~	RSL1AB4BD	0.006/0.013	RSL1GB4BD	0.006/0.013
48 ~	RSL1AB4ED	0.006/0.013	RSL1GB4ED	0.006/0.013
60 ~	RSL1AB4ND	0.006/0.013	RSL1GB4ND	0.006/0.013

Sockets equipped with LED and protection circuit (Sold in lots of 10)

Control circuit voltage V	For use with relays	Socket type		Spring terminal	
		Screw connector	Weight kg/lb	Unit reference	Weight kg/lb
12 ~/~	RSL1•B4JD	RSLZVA1	0.025/0.055	RSLZRA1	0.023/0.051
24 ~/~	RSL1•B4BD			RSLZRA1	0.023/0.051
48 ~/~	RSL1•B4ED	RSLZVA2	0.025/0.055	RSLZRA2	0.023/0.051
60 ~/~	RSL1•B4ND			RSLZRA2	0.023/0.051
110 ~/~	RSL1•B4ND	RSLZVA3	0.025/0.055	RSLZRA3	0.023/0.051
230 ~/~		RSLZVA4	0.025/0.055	RSLZRA4	0.023/0.051



RSLZ2



RSLZ3

Socket accessories

Description	For use with	Sold in lots of	Reference	Weight kg/lb
Clip-in legends (sheet of 64 legends)	All sockets	2	RSLZ5	0.001/0.002
Bus jumper (20-pole jumper)	All sockets	10	RSLZ2	0.003/0.007
Partition plate	All sockets	10	RSLZ3	0.001/0.002

RSB interface relays



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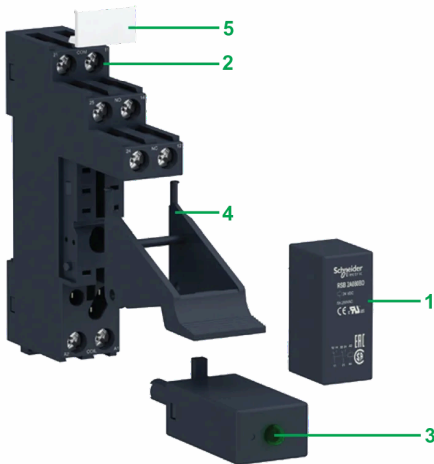
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RSB interface relays

Presentation and description

D

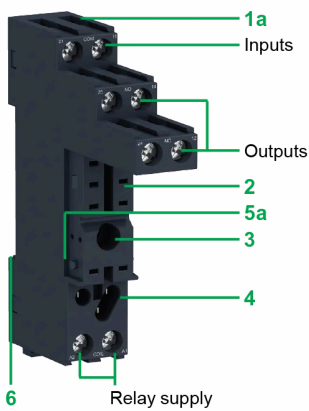


Presentation of the range

The **RSB** interface relay range comprises:

- 1 12 A relays with 1 CO contact, 16 A relays with 1 CO contact, and 8 A relays with 2 CO contacts
- 2 Sockets with separate contact terminals
- 3 Protection modules (diode, diode + LED, RC circuit, or varistor + LED) common to all sockets
- 4 A plastic maintaining clamp for all sockets
- 5 Clip-in legend for all sockets

These relays are available in both pre-assembled (single reference) and customer assembled offers.

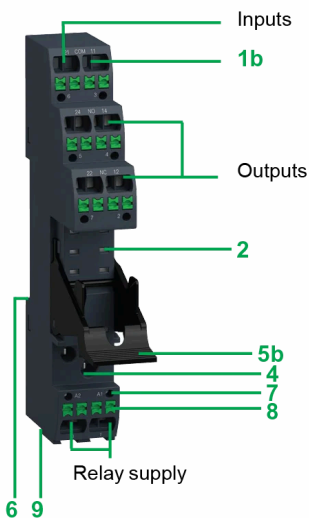


Socket description

Sockets with separate contact terminals (1)

- 1a Connection by screw connector
- 1b Connection by push-in terminal
- 2 5 or 8 female contacts for the relay pins
- 3 Hole for panel mounting
- 4 Location for protection modules
- 5a Locking components for plastic maintaining clamp
- 5b Built-in plastic maintaining clamp for locking components
- 6 Locating slot for mounting on DIN rail
- 7 Test point
- 8 Push button to release wire
- 9 Location for bus jumpers

(1) The inputs and outputs are separate from the relay supply.





RSB2A080F7PV

Pre-assembled interface relays

Relays mounted on screw connector separate terminal sockets with protection module, clamp and label
(sold in lots of 30)

Control circuit voltage V	Pre-assembled unit reference	Components in pre-assembled unit reference					Weight kg/lb
		Relay	Socket	Clamp	Protection module (with LED)	Socket label	
1 CO contact - 12A thermal current (Ith)							
12 ---	RSB1A120JDPV	RSB1A120JD	RSZE1S35M	RSZR215	RZM031RB	RSZL300	0.050/0.110
24 ---	RSB1A120BDPV	RSB1A120BD	RSZE1S35M	RSZR215	RZM031RB	RSZL300	0.050/0.110
24 ~	RSB1A120B7PV	RSB1A120B7	RSZE1S35M	RSZR215	RZM021RB	RSZL300	0.050/0.110
120 ~	RSB1A120F7PV	RSB1A120F7	RSZE1S35M	RSZR215	RZM021FP	RSZL300	0.050/0.110
230 ~	RSB1A120P7PV	RSB1A120P7	RSZE1S35M	RSZR215	RZM021FP	RSZL300	0.050/0.110
1 CO contact - 16A thermal current (Ith)							
24 ---	RSB1A160BDPV	RSB1A160BD	RSZE1S48M	RSZR215	RZM031RB	RSZL300	0.057/0.126
230 ~	RSB1A160P7PV	RSB1A160P7	RSZE1S48M	RSZR215	RZM021FP	RSZL300	0.057/0.126
2 CO contact - 8A thermal current (Ith)							
12 ---	RSB2A080JDPV	RSB2A080JD	RSZE1S48M	RSZR215	RZM031RB	RSZL300	0.057/0.126
24 ---	RSB2A080BDPV	RSB2A080BD	RSZE1S48M	RSZR215	RZM031RB	RSZL300	0.057/0.126
24 ~	RSB2A080B7PV	RSB2A080B7	RSZE1S48M	RSZR215	RZM021RB	RSZL300	0.057/0.126
120 ~	RSB2A080F7PV	RSB2A080F7	RSZE1S48M	RSZR215	RZM021FP	RSZL300	0.057/0.126
220 ~	RSB2A080M7PV	RSB2A080M7	RSZE1S48M	RSZR215	RZM021FP	RSZL300	0.057/0.126
230 ~	RSB2A080P7PV	RSB2A080P7	RSZE1S48M	RSZR215	RZM021FP	RSZL300	0.057/0.126

D

References

D



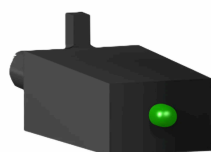
RSB1A120JD + RZM031RB + RSZE1S35M



RSB1A160JD + RSZE1S48M



RSZE05P



RZM021RB

Interface relays for customer assembly

RSB interface relays for standard applications (sold in lots of 10)

Control circuit voltage V	Number and type of contacts - Thermal current (Ith)			Weight kg/lb
	1 CO - 12 A	1 CO - 16 A	2 CO - 8 A	
	Unit reference	Unit reference	Unit reference	
6 ---	-	RSB1A160RD	-	0.014/0.031
12 ---	RSB1A120JD	RSB1A160JD	RSB2A080JD	0.014/0.031
24 ---	RSB1A120BD	RSB1A160BD	RSB2A080BD	0.014/0.031
48 ---	RSB1A120ED	RSB1A160ED	RSB2A080ED	0.014/0.031
60 ---	-	RSB1A160ND	-	0.014/0.031
110 ---	RSB1A120FD	RSB1A160FD	RSB2A080FD	0.014/0.031
24 ~	RSB1A120B7	RSB1A160B7	RSB2A080B7	0.014/0.031
48 ~	RSB1A120E7	RSB1A160E7	RSB2A080E7	0.014/0.031
120 ~	RSB1A120F7	RSB1A160F7	RSB2A080F7	0.014/0.031
220 ~	RSB1A120M7	RSB1A160M7	RSB2A080M7	0.014/0.031
230 ~	RSB1A120P7	RSB1A160P7	RSB2A080P7	0.014/0.031
240 ~	RSB1A120U7	RSB1A160U7	RSB2A080U7	0.014/0.031

Sockets for interface relays

Sockets with separate contact terminal arrangement and screw connector connection

Rated insulation voltage	Thermal current (Ith)	Relay type	Sold in lots of	Unit Reference	Weight kg/lb
250 V ~	12 A	RSB1A120●●	10	RSZE1S35M	0.060/0.132
	10 A (1)	RSB1A160●● (2) RSB2A080●●	10	RSZE1S48M	0.050/0.110

Sockets with separate contact terminal arrangement, push-in terminals, with built-in clamp

250 V ~	12 A	RSB1A●●●●●	10	RSZE05P	0.037/0.082
	10 A	RSB1A160●● (2) RSB2A080●●	10	RSZE08P	0.042/0.093

Protection modules

Description	For use with	Voltage V	Sold in lots of	Unit Reference	Weight kg/lb
Diode	All sockets	6...230 ---	10	RZM040W	0.003/0.007
		24...60 ~	10	RZM041BN7	0.010/0.022
RC circuit	All sockets	110...240 ~	10	RZM041FU7	0.010/0.022
		6...24 ---	10	RZM031RB	0.004/0.009
Diode + green LED	All sockets	24...60 ---	10	RZM031BN	0.004/0.009
		110...230 ---	10	RZM031FPD	0.004/0.009
Varistor + green LED	All sockets	6...24 ---/~	10	RZM021RB	0.005/0.011
		24...60 ---/~	10	RZM021BN	0.005/0.011
		110...230 ---/~	10	RZM021FP	0.005/0.011

(1) RSZE1S48M is a two-terminal socket, each carrying 10 A.

(2) If RSZE1S48M/RSZE08P socket terminals are linked, relay RSB1A160pp can be used up to 16 A. See "Wiring diagrams" on www.se.com/harmonyelectromechanicalrelays.



RSZR215



RGZS08



RSZS02

Accessories				
Description	For use with	Sold in lots of	Unit Reference	Weight kg/lb
Plastic maintaining clamp	All sockets	10	RSZR215	0.002/0.004
Legend	All sockets	10	RSZL300	0.001/0.002
Bus jumper (8-pole jumper)	For inputs (A1, A2) of RSZE screw sockets (RSZE1S35M, RSZE1S48M)	10	RGZS08	0.006/0.013
Bus jumper (2-pole jumper)	For input (A2) of RSZE push-in sockets (RSZE05P, RSZE08P)	10	RSZS02	0.002/0.004



RXG interface relays

E

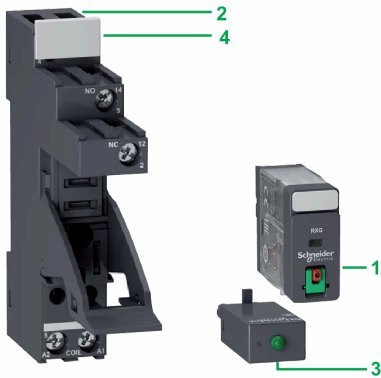
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RXG interface relays

Presentation and description



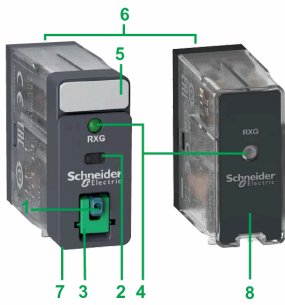
Presentation of the range

RXG relays are interface plug-in relays with Faston pins for better reliability and robust installation. They are used in PLC applications.

The RXG interface relay range comprises:

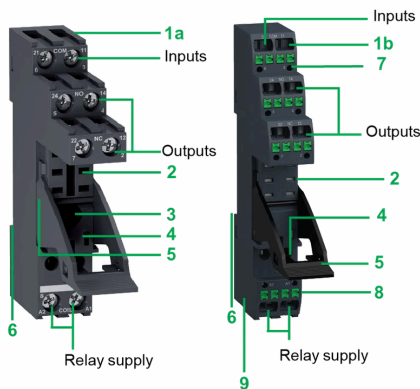
- 1 10 A relays with 1 CO contact and 5 A relays with 2 CO contacts
- 2 Sockets with separate or mixed contact terminals, built-in plastic maintaining clamp
- 3 Protection modules (diode, diode + LED, RC circuit, or varistor + LED) for RXG separate sockets
- 4 Clip-in legends for RXG separate sockets

These relays are available in both pre-assembled (single reference) and customer assembled offers.



Relay description

- 1 Push button for testing the contacts (blue: DC, red: AC)
- 2 Mechanical "relay status" indicator
- 3 Removable lock-down door enabling forced maintaining of the contacts for test sequences or maintenance purposes
- 4 LED (depending on version) indicating the relay status
- 5 Removable legend for relay identification
- 6 5 or 8 Faston type pins
- 7 Standard cover-type relay with pushbutton, mechanical indicator, and LED options
- 8 Basic cover-type relay with LED option



Socket description

Sockets with separate contact terminals (1)

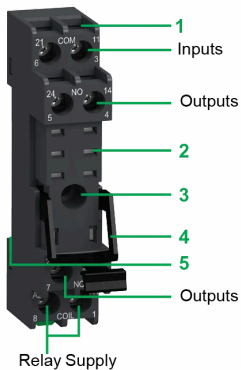
- 1 Connection by screw connector
- 1b Connection by push-in terminal
- 2 5 or 8 female contacts for the relay pins
- 3 Hole for panel mounting
- 4 Location for protection modules
- 5 Built-in plastic maintaining clamp for locking components
- 6 Locating slot for mounting on DIN rail
- 7 Test point
- 8 Push button to release wire
- 9 Location for bus jumpers

Sockets with mixed contact terminals (2)

- 1 Connection by screw clamp
- 2 5 or 8 female contacts for the relay pins
- 3 Hole for panel mounting
- 4 Built-in plastic maintaining clamp for locking components
- 5 Locating slot for mounting on DIN rail

(1) The inputs and outputs are separate from the relay supply.

(2) The outputs NC are mixed with the relay supply, with the outputs NO and inputs being located on the opposite side of the socket.



References

E



RXG22BDPV



RXG12P7PVP

Pre-assembled interface relays

Relays mounted on screw connector separate terminal sockets with integrated clamp and protection module (sold in lots of 30)

Control circuit voltage V	Pre-assembled unit reference		Components in pre-assembled unit reference			Weight g/lb
	1 CO - 10A	2 CO - 5A	Relay	Socket (with RGZR215 clamp)	Protection module (with LED)	
Relays with lockable test button and LED						
24 ---	RXG12BDPV		RXG12BD	RGZE1S35M	RZM031RB	59/0.130
24 ~	RXG12B7PV		RXG12B7	RGZE1S35M	RZM021RB	59/0.130
230 ~	RXG12P7PV		RXG12P7	RGZE1S35M	RZM021FP	59/0.130
24 ---		RXG22BDPV	RXG22BD	RGZE1S48M	RZM031RB	66/0.145
24 ~		RXG22B7PV	RXG22B7	RGZE1S48M	RZM021RB	67/0.148
230 ~		RXG22P7PV	RXG22P7	RGZE1S48M	RZM021FP	67/0.148
Relays with LED						
24 ---	RXG13BDPV		RXG13BD	RGZE1S35M	RZM031RB	58/0.129
230 ~	RXG13P7PV		RXG13P7	RGZE1S35M	RZM021FP	59/0.130
24 ---		RXG23BDPV	RXG23BD	RGZE1S48M	RZM031RB	66/0.145
230 ~		RXG23P7PV	RXG23P7	RGZE1S48M	RZM021FP	67/0.148
Relays with lockable test button and without LED						
24 ---		RXG21BDPV	RXG21BD	RGZE1S48M	RZM031RB	67/0.148
24 ~		RXG21B7PV	RXG21B7	RGZE1S48M	RZM021RB	67/0.148
230 ~		RXG21P7PV	RXG21P7	RGZE1S48M	RZM021FP	67/0.148

Relays mounted on push-in separate terminal sockets with integrated clamp (sold in lots of 10)

Control circuit voltage V	Pre-assembled unit reference		Components in pre-assembled unit reference		Weight g/lb
	1 CO - 10A	2 CO - 5A	Relay	Socket (with RGZR215 clamp)	
Relays with lockable test button and LED					
24 ---	RXG12BDPVP		RXG12BD	RGZE05P	59/0.130
24 ~	RXG12B7PVP		RXG12B7	RGZE05P	59/0.130
230 ~	RXG12P7PVP		RXG12P7	RGZE05P	59/0.130
24 ---		RXG22BDPVP	RXG22BD	RGZE08P	62/0.137
24 ~		RXG22B7PVP	RXG22B7	RGZE08P	62/0.137
230 ~		RXG22P7PVP	RXG22P7	RGZE08P	62/0.137
Relays with LED					
24 ---	RXG13BDPVP		RXG13BD	RGZE05P	59/0.130
230 ~	RXG13P7PVP		RXG13P7	RGZE05P	59/0.130
24 ---		RXG23BDPVP	RXG23BD	RGZE08P	62/0.137
230 ~		RXG23P7PVP	RXG23P7	RGZE08P	62/0.137
Relays with lockable test button and without LED					
24 ---		RXG21BDPVP	RXG21BD	RGZE08P	62/0.137
24 ~		RXG21B7PVP	RXG21B7	RGZE08P	62/0.137
230 ~		RXG21P7PVP	RXG21P7	RGZE08P	62/0.137



RXG11BD



RXG22B7



RXG13BD



RXG26BD



RXG18P7

Interface relays for customer assembly					
Control circuit voltage V	Sold in lots of	Number and type of contacts - Thermal current (Ith)			Weight g/lb
		1 CO - 10 A	2 CO - 5 A		
		Unit reference	Unit reference		
Standard cover relays with lockable test button					
6 ---	10	–	RXG21RD	20/0.044	
12 ---	10	–	RXG21JD	20/0.044	
24 ---	10	RXG11BD	RXG21BD	20/0.044	
24 ~	10	RXG11B7	RXG21B7	20/0.044	
48 ~	10	–	RXG21E7	20/0.044	
120 ~	10	RXG11F7	RXG21F7	20/0.044	
230 ~	10	RXG11P7	RXG21P7	20/0.044	
Standard cover relays with lockable test button and LED					
6 ---	10	RXG12RD	–	20/0.044	
12 ---	10	RXG12JD	RXG22JD	20/0.044	
24 ---	10	RXG12BD	RXG22BD	20/0.044	
48 ---	10	RXG12ED	RXG22ED	20/0.044	
110 ---	10	RXG12FD	RXG22FD	20/0.044	
24 ~	10	RXG12B7	RXG22B7	20/0.044	
48 ~	10	RXG12E7	RXG22E7	20/0.044	
120 ~	10	RXG12F7	RXG22F7	20/0.044	
220 ~	10	–	RXG22M7	20/0.044	
230 ~	10	RXG12P7	RXG22P7	20/0.044	
Standard cover relays with LED					
12 ---	10	RXG13JD	–	20/0.044	
24 ---	10	RXG13BD	RXG23BD	20/0.044	
24 ~	10	RXG13B7	RXG23B7	20/0.044	
48 ~	10	–	RXG23E7	20/0.044	
120 ~	10	RXG13F7	RXG23F7	20/0.044	
220 ~	10	–	RXG23M7	20/0.044	
230 ~	10	RXG13P7	RXG23P7	20/0.044	
Basic cover relays with LED					
24 ---	10	RXG16BD	RXG26BD	19/0.042	
230 ~	10	RXG16P7	RXG26P7	19/0.042	
Basic cover relays without LED					
24 ---	10	RXG18BD	RXG28BD	19/0.042	
230 ~	10	RXG18P7	RXG28P7	19/0.042	

References

E



RGZE1S48M



RGZE05P



RGZE05E



RZM031RB



RSZL300



RGZS08



RGZR215



RSZS02

Sockets for interface relays

Sockets with separate contact terminals arrangement, screw connector connection, and built-in clamp

Description	Thermal current (Ith)	Relay type	Sold in lots of	Unit Reference	Weight g/lb
1 CO socket with 1 pole	10 A	RXG1●●●	10	RGZE1S35M	34/0.075
2 CO socket with 2 poles	5 A	RXG2●●●	10	RGZE1S48M	42/0.093

Sockets with separate contact terminals arrangement, push-in terminals, and built-in clamp

1 CO socket with 1 pole	10 A	RXG1●●●	10	RGZE05P	39/0.086
2 CO socket with 2 poles	5 A	RXG2●●●	10	RGZE08P	42/0.093

Sockets with mixed contact terminals arrangement, screw clamp connection, and built-in clamp

1 CO socket with 1 pole	10 A	RXG1●●●	10	RGZE05E	24/0.053
2 CO socket with 2 poles	5 A	RXG2●●●	10	RGZE08E	26/0.057

Protection modules

Description	For use with	Voltage V	Sold in lots of	Unit reference	Weight g/lb
Diode	All separate sockets	6...230 ~	10	RZM040W	3/0.007
RC circuit	All separate sockets	24...60 ~	10	RZM041BN7	10/0.022
		110...240 ~	10	RZM041FU7	10/0.022
Diode + green LED	All separate sockets	6...24 ~	10	RZM031RB	4/0.009
		24...60 ~	10	RZM031BN	4/0.009
		110...230 ~	10	RZM031FPD	4/0.009
Varistor + green LED	All separate sockets	6...24 ~/-	10	RZM021RB	5/0.011
		24...60 ~/-	10	RZM021BN	5/0.011
		110...230 ~/-	10	RZM021FP	5/0.011

Accessories

Description	For use with	Sold in lots of	Unit reference	Weight g/lb
Plastic maintaining clamp	All separate sockets (RGZE1S●●M, RGZE●●P)	10	RGZR215	2/0.004
Legend	All separate sockets (RGZE1S●●M, RGZE●●P)	10	RSZL300	2/0.002
Clip-in legends (sheet of 16 legends)	RXG●1●●, RXG●2●●, RXG●3●● relays	10	RGZL520	1/0.002
Bus jumper (8-pole jumper)	For inputs (A1, A2) of RGZE screw sockets (RGZE1S35M , RGZE1S48M)	10	RGZS08	5/0.013
Bus jumper (2-pole jumper)	For input (A2) of RGZE push-in sockets (RGZE05P , RGZE08P)	10	RSZS02	2/0.004

RXM miniature relays



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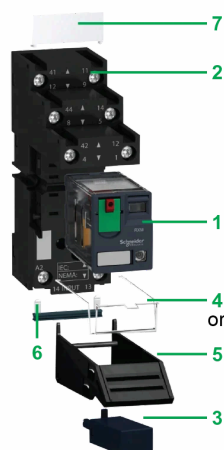
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RSB interface relays D-1
RXG interface relays E-1
782H hermetically sealed relays G-1
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RPM power relays I-1
RUM universal relays J-1
RPF power relays K-1
Technical presentation L-1

RXM miniature relays

Presentation and description

F



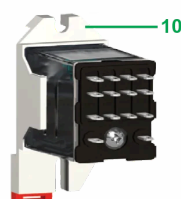
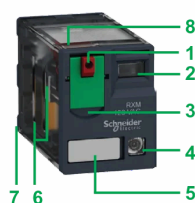
Presentation of the range

The RXM miniature relay range comprises:

- 1 12 A relays with 2 CO contacts, 10 A relays with 3 CO contacts, 6 A relays with 4 CO contacts, and 3 A "low level" relays with 4 CO contacts (all these relays have the same dimensions)
- 2 Sockets with mixed or separate contact terminals
- 3 Protection modules (diode, RC circuit, or varistor) common to all sockets
- 4 Metal maintaining clamp for all sockets
- 5 Plastic maintaining clamp for all sockets
- 6 2-pole bus jumper that can be used on sockets with separate contact terminals in order to simplify cabling when creating an equipotential link between the coil terminals
- 7 Clip-in legends for all sockets except RXZE2M114

These relays are available in both pre-assembled (single reference) and customer assembled offers.

Relay description

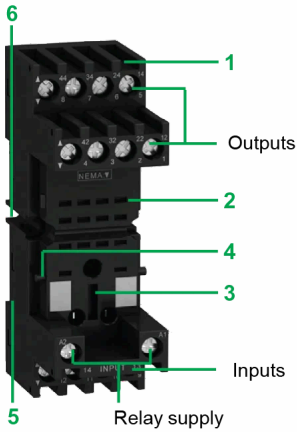


- 1 Push button for testing the contacts (blue: DC, red: AC) Mechanical "relay status" indicator
- 2 Mechanical "relay status" indicator
- 3 Removable lock-down door enabling forced maintenance of the contacts for test sequences or maintenance purposes
- 4 LED (depending on version) indicating the relay status
- 5 Removable legend for relay identification
- 6 4 notches for rail mounting adapter or panel mounting adapter with mounting lugs
- 7 8, 11, or 14 Faston type pins
- 8 Area by which the product can be easily gripped
- 9 Mounting adapter enabling direct mounting of the relay on a panel
- 10 Mounting adapter enabling direct mounting of the relay on a DIN rail

RXM miniature relays

Presentation and description

F



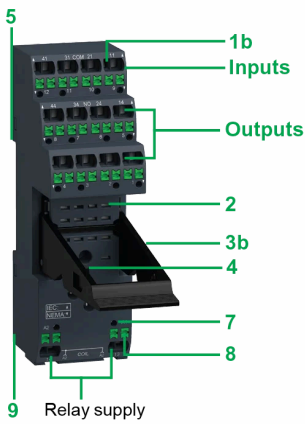
Sockets with mixed contact terminals

Socket description

Sockets with mixed contact terminals (1)

- 1 Connection by screw clamp terminals or screw connector
- 2 14 female contacts for the relay pins
- 3 Location for protection modules
- 4 Locking components for plastic and metal maintaining clamps
- 5 Locating slot for mounting on DIN rail with compression spring or mounting clip
- 6 2 or 4 holes for panel mounting

(1) The inputs are mixed with the relay supply, with the outputs being located on the opposite side of the socket.

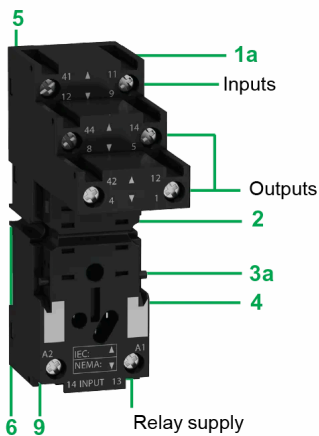


Sockets with separate contact terminals

Sockets with separate contact terminals (2)

- 1a Connection by screw connector
- 1b Connection by push in terminal
- 2 8, 11, or 14 female contacts for the relay pins
- 3a Locking components for plastic and metal maintaining clamps
- 3b Built-in plastic maintaining clamp for locking components
- 4 Location for protection modules
- 5 Locating slot for mounting on DIN rail with compression spring or mounting clip
- 6 2 holes for panel mounting
- 7 Test point
- 8 Push button to release wire
- 9 Location for bus jumpers

(2) The inputs and outputs are separate from the relay supply.



Sockets with separate contact terminals

References

F



RXM4AB1BDPVS

Pre-assembled interface relays

Relays mounted on screw connector separate terminal sockets with clamp and label (sold in lots of 30)

Control circuit voltage V	Pre-assembled unit reference		Components in pre-assembled unit reference				Weight kg/lb
	2 CO - 12A	4 CO - 6A	Relay	Socket	Clamp	Socket label	
Relays with lockable test button and LED							
24 ---	RXM2AB2BDPVS		RXM2AB2BD	RXZE2S108M	RXZR335	RXZL520	0.101/0.223
24 ~	RXM2AB2B7PVS		RXM2AB2B7	RXZE2S108M	RXZR335	RXZL520	0.101/0.223
230 ~	RXM2AB2P7PVS		RXM2AB2P7	RXZE2S108M	RXZR335	RXZL520	0.101/0.223
24 ---		RXM4AB2BDPVS	RXM4AB2BD	RXZE2S114M	RXZR335	RXZL520	0.113/0.249
24 ~		RXM4AB2B7PVS	RXM4AB2B7	RXZE2S114M	RXZR335	RXZL520	0.113/0.249
230 ~		RXM4AB2P7PVS	RXM4AB2P7	RXZE2S114M	RXZR335	RXZL520	0.113/0.249
Relays with lockable test button and without LED							
24 ---		RXM4AB1BDPVS	RXM4AB1BD	RXZE2S114M	RXZR335	RXZL520	0.113/0.249
24 ~		RXM4AB1B7PVS	RXM4AB1B7	RXZE2S114M	RXZR335	RXZL520	0.113/0.249
230 ~		RXM4AB1P7PVS	RXM4AB1P7	RXZE2S114M	RXZR335	RXZL520	0.113/0.249



RXM4AB2B7PVM

Relays mounted on screw connector mixed terminal sockets with clamp and label (sold in lots of 30)

Control circuit voltage V	Pre-assembled unit reference		Components in pre-assembled unit reference				Weight kg/lb
	2 CO - 12A	4 CO - 6A	Relay	Socket	Clamp	Socket label	
Relays with lockable test button and LED							
24 ---	RXM2AB2BDPVM		RXM2AB2BD	RXZE2M114M	RXZR335	RXZL520	0.099/0.218
24 ~	RXM2AB2B7PVM		RXM2AB2B7	RXZE2M114M	RXZR335	RXZL520	0.099/0.218
230 ~	RXM2AB2P7PVM		RXM2AB2P7	RXZE2M114M	RXZR335	RXZL520	0.099/0.218
24 ---		RXM4AB2BDPVM	RXM4AB2BD	RXZE2M114M	RXZR335	RXZL520	0.099/0.218
24 ~		RXM4AB2B7PVM	RXM4AB2B7	RXZE2M114M	RXZR335	RXZL520	0.099/0.218
230 ~		RXM4AB2P7PVM	RXM4AB2P7	RXZE2M114M	RXZR335	RXZL520	0.099/0.218
Relays with lockable test button and without LED							
24 ---		RXM4AB1BDPVM	RXM4AB1BD	RXZE2M114M	RXZR335	RXZL520	0.113/0.249
24 ~		RXM4AB1B7PVM	RXM4AB1B7	RXZE2M114M	RXZR335	RXZL520	0.113/0.249
230 ~		RXM4AB1P7PVM	RXM4AB1P7	RXZE2M114M	RXZR335	RXZL520	0.113/0.249



RXM4AB1BDPVP

Relays mounted on push-in separate terminal sockets with integrated clamp (sold in lots of 10)

Control circuit voltage V	Pre-assembled unit reference		Components in pre-assembled unit reference		Weight kg/lb
	2 CO - 12A	4 CO - 6A	Relay	Socket (with RXZR315clamp)	
Relays with lockable test button and LED					
24 ---	RXM2AB2BDPVP		RXM2AB2BD	RXZE14P	117/0.258
24 ~	RXM2AB2B7PVP		RXM2AB2B7	RXZE14P	117/0.258
230 ~	RXM2AB2P7PVP		RXM2AB2P7	RXZE14P	117/0.258
24 ---		RXM4AB2BDPVP	RXM4AB2BD	RXZE14P	117/0.258
24 ~		RXM4AB2B7PVP	RXM4AB2B7	RXZE14P	117/0.258
230 ~		RXM4AB2P7PVP	RXM4AB2P7	RXZE14P	117/0.258
Relays with lockable test button and without LED					
24 ---		RXM4AB1BDPVP	RXM4AB1BD	RXZE14P	117/0.258
24 ~		RXM4AB1B7PVP	RXM4AB1B7	RXZE14P	117/0.258
230 ~		RXM4AB1P7PVP	RXM4AB1P7	RXZE14P	117/0.258



RXM2AB1BD



RXM2AB1F7



RXM2AB2ED



RXM4GB1BD



RXM4GB1P7



RXM4GB2BD

Miniature relays for customer assembly

Control circuit voltage V	Number and type of contacts - Thermal current (Ith)					
	2 CO - 12 A		3 CO - 10 A		4 CO - 6 A	
	Unit reference	Weight kg/lb	Unit reference	Weight kg/lb	Unit reference	Weight kg/lb
RXM miniature relays without LED (sold in lots of 10)						
12 ---	RXM2AB1JD	0.037/0.082	RXM3AB1JD	0.037/0.082	RXM4AB1JD	0.037/0.082
24 ---	RXM2AB1BD	0.037/0.082	RXM3AB1BD	0.037/0.082	RXM4AB1BD	0.037/0.082
48 ---	RXM2AB1ED	0.037/0.082	RXM3AB1ED	0.037/0.082	RXM4AB1ED	0.037/0.082
110 ---	RXM2AB1FD	0.037/0.082	RXM3AB1FD	0.037/0.082	RXM4AB1FD	0.037/0.082
220 ---	-	-	-	-	RXM4AB1MD	0.037/0.082
24 ~	RXM2AB1B7	0.037/0.082	RXM3AB1B7	0.037/0.082	RXM4AB1B7	0.037/0.082
48 ~	RXM2AB1E7	0.037/0.082	RXM3AB1E7	0.037/0.082	RXM4AB1E7	0.037/0.082
120 ~	RXM2AB1F7	0.037/0.082	RXM3AB1F7	0.037/0.082	RXM4AB1F7	0.037/0.082
230 ~	RXM2AB1P7	0.037/0.082	RXM3AB1P7	0.037/0.082	RXM4AB1P7	0.037/0.082
240 ~	-	-	-	-	RXM4AB1U7	0.037/0.082
RXM miniature relays with LED (sold in lots of 10)						
12 ---	RXM2AB2JD	0.037/0.082	RXM3AB2JD	0.037/0.082	RXM4AB2JD	0.037/0.082
24 ---	RXM2AB2BD	0.037/0.082	RXM3AB2BD	0.037/0.082	RXM4AB2BD	0.037/0.082
48 ---	RXM2AB2ED	0.037/0.082	-	-	RXM4AB2ED	0.037/0.082
110 ---	RXM2AB2FD	0.037/0.082	RXM3AB2FD	0.037/0.082	RXM4AB2FD	0.037/0.082
125 ---	-	-	-	-	RXM4AB2GD	0.037/0.082
24 ~	RXM2AB2B7	0.037/0.082	RXM3AB2B7	0.037/0.082	RXM4AB2B7	0.037/0.082
48 ~	RXM2AB2E7	0.037/0.082	RXM3AB2E7	0.037/0.082	RXM4AB2E7	0.037/0.082
120 ~	RXM2AB2F7	0.037/0.082	RXM3AB2F7	0.037/0.082	RXM4AB2F7	0.037/0.082
230 ~	RXM2AB2P7	0.037/0.082	RXM3AB2P7	0.037/0.082	RXM4AB2P7	0.037/0.082

Control circuit voltage V	Number and type of contacts Thermal current (Ith)	
	4 CO - 6 A	
	Unit reference	Weight kg/lb
RXM miniature relays with low level contacts, without LED (sold in lots of 10)		
12 ---	RXM4GB1JD	0.037/0.082
24 ---	RXM4GB1BD	0.037/0.082
24 ~	RXM4GB1B7	0.037/0.082
48 ~	RXM4GB1E7	0.037/0.082
120 ~	RXM4GB1F7	0.037/0.082
230 ~	RXM4GB1P7	0.037/0.082
RXM miniature relays with low level contacts, with LED (sold in lots of 10)		
12 ---	RXM4GB2JD	0.037/0.082
24 ---	RXM4GB2BD	0.037/0.082
48 ---	RXM4GB2ED	0.037/0.082
125 ---	RXM4GB2GD	0.037/0.082
220 ---	RXM4GB2MD	0.037/0.082
24 ~	RXM4GB2B7	0.037/0.082
48 ~	RXM4GB2E7	0.037/0.082
120 ~	RXM4GB2F7	0.037/0.082
230 ~	RXM4GB2P7	0.037/0.082
240 ~	RXM4GB2U7	0.037/0.082

References

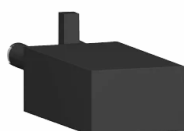
F



RXZE2M114M



RXZE14P



RXM041007



REXL400

Sockets

Contact terminal arrangement	Connection	Thermal current (Ith)	Relay type	Sold in lots of	Unit reference	Weight kg/lb
Mixed	Screw clamp	10	RXM2●●●●● (1) RXM4●●●●●	10	RXZE2M114	0.048/0.106
	Screw connector	10	RXM2●●●●● (1) RXM4●●●●●	10	RXZE2M114M	0.056/0.124
Separate	Push-in terminal	12	RXM2●●●●● RXM4●●●●●	10	RXZE14P	0.080/0.176
	Screw connector	12	RXM2●●●●●	10	RXZE2S108M	0.058/0.128
		10	RXM3●●●●●	10	RXZE2S111M	0.066/0.146
		10	RXM4●●●●●	10	RXZE2S114M	0.070/0.154

(1) When mounting relay RXM2●●●●● on socket RXZE2M●●●●●, the thermal current should not exceed 10 A.

Protection modules

Description	Voltage V	For use with	Sold in lots of	Unit reference	Weight kg/lb
Diode	6...250 ---	All sockets	10	RXM040W	0.003/0.007
RC circuit	24...60 ~	All sockets	10	RXM041BN7	0.010/0.022
	110...240~	All sockets	10	RXM041FU7	0.010/0.022
Varistor	6...24 ~/----	All sockets	10	RXM021RB	0.030/0.066
	24...60 ~/----	All sockets	10	RXM021BN	0.030/0.066
	110...240 ~/----	All sockets	10	RXM021FP	0.030/0.066

Timing relays

Description	For use with	Unit reference	Weight kg/lb
2 or 4 timed CO contacts (function A)	RXZE●●●●● sockets	REXL2●● (2)	-
		REXL4●● (2)	-

(2) Please refer to the "Harmony Timer Relays" catalog.



RXZR315



RXZS2



RSZS02



RXZE2FA



RXZ400



RXZL520

Accessories				
Description	For use with	Sold in lots of	Unit reference	Weight kg/lb
Metal maintaining clamp	All sockets	10	RXZ400	0.001/0.002
Plastic maintaining clamp	All sockets except push-in socket RXZE14P	10	RXZR335	0.005/0.011
	RXZE14P	10	RXZR315	0.004/0.009
2-pole bus jumper (lth: 5 A)	All screw sockets with separate contacts (RXZE2S●●●●)	10	RXZS2	0.005/0.011
Bus jumper (2-pole jumper)	For input (A2) of RXZE push in sockets (RXZE14P)	10	RSZS02	0.002/0.004
Mounting adapter with panel mounting lugs	RXM2●●●● RXM3●●●●	10	RXZE2FA	0.002/0.004
Clip-in legends	All relays (sheet of 108 legends)	10	RXZL520	0.080/0.176
	RXZE14P	10	RXZL300	0.004/0.009
	All sockets except RXZE2M114	10	RXZL420	0.001/0.002

782H hermetically sealed relays

G

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782H hermetically sealed relays

Presentation and description

Presentation of the range

The hermetically sealed 782H series relays comply with UL Class 1 Division 2 requirements for use in hazardous locations. They are suitable for installation in harsh, hazardous, and corrosive environments like offshore mining and refineries in the oil and gas, petrochemical, chemical, and mining and minerals sectors.

782H hermetically sealed relays comprise:

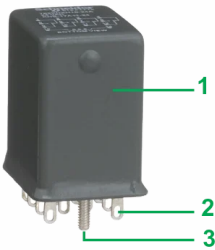
- Relays with 3 A/5 A, 2 CO/4 CO contacts
- Sockets with multiple configurations, finger-safe according to IP20, and compatible with DIN rail or panel mounting
- Accessories (protection modules and/or LED indicator)

These relays are available in panel, DIN rail, PCB, and chassis mount versions.

Relay description

Relay

- 1 Hermetically sealed enclosure
- 2 Flat (Plug-in type) terminal
- 3 Stub to mount in panel



Socket

4 There are different types of sockets:

■ DIN rail or panel mount sockets

- a with screw connector
- b with screw connector
- c with screw clamp terminals

■ Other types of terminals

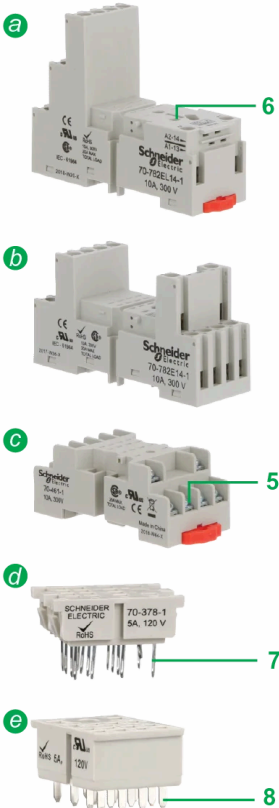
- d Solder terminals for chassis mount
- e Printed circuit terminals for PCB mount

5 Connection by screw connector

6 Location for protection modules

7 Solder lug

8 PCB pins



References

G



782DXH21-12D

Plug-in relays

RXM miniature relays without LED (sold in lots of 10)

Coil voltage V	Number and type of contacts - Thermal current (Ith)					
	4 CO - 3 A		4 CO - 5 A		2 CO - 5 A	
	Unit reference	Weight kg/lb	Unit reference	Weight kg/lb	Unit reference	Weight kg/lb
6 ~	782DXH10-6A	0.045/0.099	-	-	-	-
24 ~	782DXH10-24A	0.045/0.099	-	-	-	-
120 ~	782DXH10-120A	0.045/0.099	782DXH21-120A	0.045/0.099	-	-
240 ~	782DXH10-240A	0.045/0.099	782DXH21-240A	0.045/0.099	-	-
6 ☰	782DXH10-6D	0.045/0.099	-	-	-	-
12 ☰	782DXH10-12D	0.045/0.099	782DXH21-12D	0.045/0.099	-	-
24 ☰	782DXH10-24D	0.045/0.099	782DXH21-24D	0.045/0.099	782XBH21-24D	0.045/0.099
48 ☰	-	-	782DXH21-48D	0.045/0.099	-	-
110 ☰	782DXH10-110D	0.045/0.099	-	-	-	-



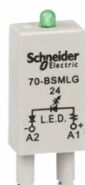
70-461-1



70-782EL14-1



70-379-1



70-BSMLG-24



16-1342



RXZS2

Sockets for all 782H relays

Contact terminal arrangement	Connection	Mounting	Unit reference	Sold in lots of	Weight Kg/lb
Mixed	Screw clamp terminals	DIN rail/Panel	RXZE2M114 (1)	10	0.07/0.154
			70-461-1	10	0.044/0.097
	Screw connector	DIN rail/Panel	RXZE2M114M (1)	10	0.06/0.132
			70-782E14-1	10	-
Separate	Screw connector	DIN rail/Panel	RXZE2S114M (1)	10	0.06/0.132
			70-782EL14-1	10	-
	Solder terminals	Chassis	70-378-1	10	0.007/0.015
			Printed circuit terminals	PCB	70-379-1

(1) 782H relays are:

- UL recognized when used with RXZE sockets
- UL listed when used with 70-782 sockets

Protection modules

Description	For use with sockets	Coil voltage	Unit reference	Sold in lots of	Weight Kg/lb
Diode	70-782EL14-1,	6 to 250 ☰	70-BSMD-250	10	-
MOV suppressor	70-782E14-1	24 ~	70-BSMM-24	10	-
		120 ~	70-BSMM-120	10	-
		240 ~	70-BSMM-240	10	-
LED indicator		24 ~	70-BSMLG-24	10	-

Accessories

Description	For use with sockets	Unit reference	Sold in lots of	Weight Kg/lb
Metal spring clip	All sockets	16-1342	10	-
Plastic ID tag	70-782E14-1, 70-782EL14-1	RXZL420	10	-
Insulated coil bus jumper system	70-782EL14-1	RXZS2	10	-

725 power relays



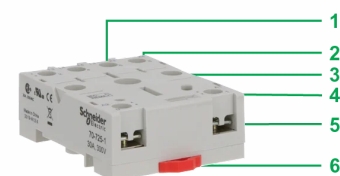
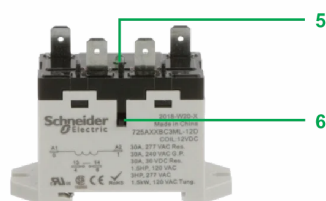
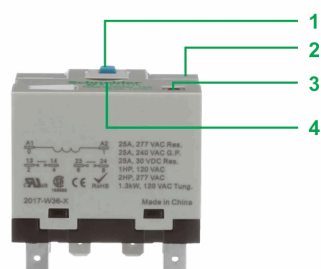
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725 power relays

Presentation and description



Presentation of the range

The 725 series is a power relay offering multiple mounting options for ease of use, enhanced reliability, and robust installation. They are used in high-capacity switching applications such as EV charging, CNC machines, and HVAC compressors.

725 power relays comprise:

- 30 A relays with 1 NO contact and 25 A relays with 2 NO contacts
- Socket for plug-in type version with flat (Faston type) terminals
- Protection modules as accessories (diode, separate LED indicator, RC circuit)

Apart from Plug-in relays with flat (Faston type) terminals, these relays are also available in Panel/DIN rail mount versions with screw type and flat (Faston type) terminals.

Description

Plug-in socket mount power relay

- 1 Spring-return pushbutton for testing the contacts (blue: DC; red: AC)
- 2 Mechanical "relay status" indicator
- 3 LED indicating the relay status
- 4 Lock-down door enabling forced maintenance of the contacts for testing purposes

DIN rail/Panel mount power relay

- 5 LED indicating the relay status
- 6 Side-mounted spring-return pushbutton for testing the contacts
- 7 Touch-proof cover (for screw type terminal)

Socket

- 1 Connection by screw connector
- 2 6 female contacts for the relay pins
- 3 Location for protection modules
- 4 Holes for panel mounting
- 5 Spring clip location
- 6 Locating slot for mounting on DIN rail



725AXXBC3ML-12D



725AXXSC3ML-12D



725BXXBM4L-12D



70-725-1



70-ASMD-250



70-ASMM-120



16-725SC-1

Power relays

725 power relays with DIN rail/Panel mounting (sold in lots of 10)

Coil voltage V	Terminal style	Contact type - Thermal current (Ith)			
		2 NO - 25 A		1 NO - 30 A	
		Unit reference	Weight kg/lb	Unit reference	Weight kg/lb
24 ~	Flat (Faston type)	725BXXBC3ML-24A	0.120/0.265	725AXXBC3ML-24A	0.120/0.265
	Screw terminals	725BXXSC3ML-24A	0.120/0.265	725AXXSC3ML-24A	0.120/0.265
120 ~	Flat (Faston type)	725BXXBC3ML-120A	0.120/0.265	725AXXBC3ML-120A	0.120/0.265
	Screw terminals	725BXXSC3ML-120A	0.120/0.265	725AXXSC3ML-120A	0.120/0.265
240 ~	Flat (Faston type)	725BXXBC3ML-240A	0.120/0.265	725AXXBC3ML-240A	0.120/0.265
	Screw terminals	725BXXSC3ML-240A	0.120/0.265	725AXXSC3ML-240A	0.120/0.265
12 ---	Flat (Faston type)	725BXXBC3ML-12D	0.120/0.265	725AXXBC3ML-12D	0.120/0.265
	Screw terminals	725BXXSC3ML-12D	0.120/0.265	725AXXSC3ML-12D	0.120/0.265
24 ---	Flat (Faston type)	725BXXBC3ML-24D	0.120/0.265	725AXXBC3ML-24D	0.120/0.265
	Screw terminals	725BXXSC3ML-24D	0.120/0.265	725AXXSC3ML-24D	0.120/0.265

725 power relays with Plug-in socket mounting (sold in lots of 10)

24 ~	Flat (Faston type)	725BXXBM4L-24A	0.120/0.265	725AXXBM4L-24A	0.120/0.265
120 ~	Flat (Faston type)	725BXXBM4L-120A	0.120/0.265	725AXXBM4L-120A	0.120/0.265
240 ~	Flat (Faston type)	725BXXBM4L-240A	0.120/0.265	725AXXBM4L-240A	0.120/0.265
12 ---	Flat (Faston type)	725BXXBM4L-12D	0.120/0.265	725AXXBM4L-12D	0.120/0.265
24 ---	Flat (Faston type)	725BXXBM4L-24D	0.120/0.265	725AXXBM4L-24D	0.120/0.265

Socket

Contact terminal arrangement	Connection	Sold in lots of	Relay type	Unit reference	Weight Kg/lb
Separate	Screw connector	10	725 relays with Plug-in socket mount cover	70-725-1	0.055/0.121

Socket modules

Description	For use with sockets	Sold in lots of	Coil voltage V	Unit reference	Weight Kg/lb
Diode	70-725-1	10	6 to 250 ---	70-ASMD-250	-
MOV suppressor			24 ~	70-ASMM-24	-
			120 ~	70-ASMM-120	-
			240 ~	70-ASMM-240	-

Socket accessories

Description	For use with sockets	Sold in lots of	Unit reference	Weight Kg/lb
Spring clip	70-725-1	10	16-725SC-1	-

RPM power relays

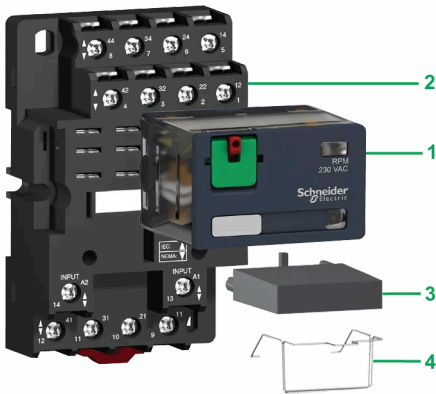
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RPM power relays

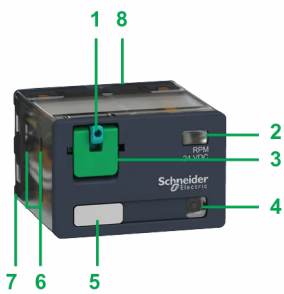
Presentation and description



Presentation of the range

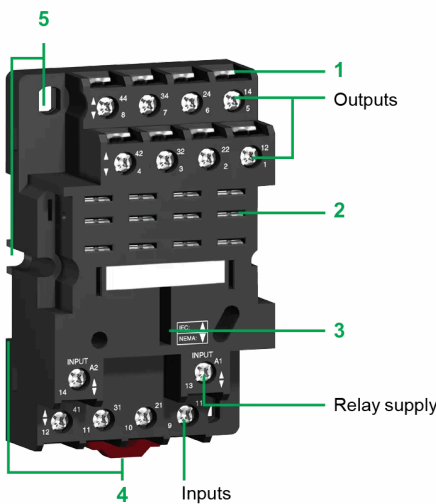
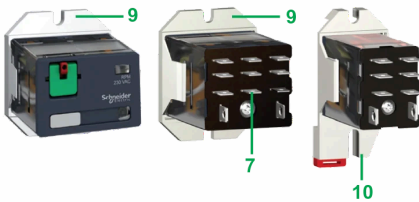
The RPM power relay range comprises:

- 1 15 A relay with 1, 2, 3, and 4 CO contacts
- 2 Sockets with mixed contact terminals
- 3 Protection modules (diode, RC circuit, or varistor) or 1 timer module (these protection modules are common to all sockets except for the timer module, which can be used on 3-pole or 4-pole sockets only)
- 4 Metal maintaining clamp for 1 and 2 CO contact relays



Relay description

- 1 Spring-return pushbutton for testing the contacts (blue: DC, red: AC)
- 2 Mechanical "relay status" indicator
- 3 Removable lock-down door enabling forced maintenance of the contacts for test sequences or maintenance purposes
- 4 LED (depending on version) indicating the relay status
- 5 Removable legend for relay identification
- 6 4 notches for rail mounting adapter or panel mounting adapter with mounting lugs
- 7 5, 8, 11, or 14 Faston-type pins
- 8 The area by which the product can be easily gripped
- 9 Mounting adapter enabling direct mounting of the relay on a panel
- 10 Mounting adapter enabling direct mounting of the relay on a 5-rail



Socket description

Sockets with mixed contact terminals (1)

- 1 Connection by screw clamp terminals
- 2 5, 8, 11, or 14 female contacts for the relay pins
- 3 Location for the protection modules or the timer module
- 4 Locating a slot for mounting on the rail with a mounting clip
- 5 2 or 4 holes for panel mounting

(1) The inputs are mixed with the relay supply, with the outputs being located on the opposite side of the socket.

References



RPM41BD



RPM41P7



RPM42BD



RPM42P7

Power relays for customer assembly

Power relays without LED (sold in lots of 10)

Control circuit voltage V	Number and type of contacts - Thermal current (Ith)							
	1 CO - 15 A		2 CO - 15 A		3 CO - 15 A		4 CO - 15 A	
	Unit reference	Weight kg/lb	Unit reference	Weight kg/lb	Unit reference	Weight kg/lb	Unit reference	Weight kg/lb
12 ---	RPM11JD	0.026/0.057	RPM21JD	0.036/0.079	RPM31JD	0.054/0.119	RPM41JD	0.071/0.157
24 ---	RPM11BD	0.026/0.057	RPM21BD	0.036/0.079	RPM31BD	0.054/0.119	RPM41BD	0.071/0.157
48 ---	RPM11ED	0.026/0.057	RPM21ED	0.036/0.079	RPM31ED	0.054/0.119	RPM41ED	0.071/0.157
110 ---	RPM11FD	0.026/0.057	RPM21FD	0.036/0.079	RPM31FD	0.054/0.119	RPM41FD	0.071/0.157
24 ~	RPM11B7	0.026/0.057	RPM21B7	0.036/0.079	RPM31B7	0.054/0.119	RPM41B7	0.071/0.157
48 ~	RPM11E7	0.026/0.057	RPM21E7	0.036/0.079	RPM31E7	0.054/0.119	RPM41E7	0.071/0.157
120 ~	RPM11F7	0.026/0.057	RPM21F7	0.036/0.079	RPM31F7	0.054/0.119	RPM41F7	0.071/0.157
230 ~	RPM11P7	0.026/0.057	RPM21P7	0.036/0.079	RPM31P7	0.054/0.119	RPM41P7	0.071/0.157

Power relays with LED (sold in lots of 10)

12 ---	RPM12JD	0.026/0.057	RPM22JD	0.036/0.079	RPM32JD	0.054/0.119	RPM42JD	0.071/0.157
24 ---	RPM12BD	0.026/0.057	RPM22BD	0.036/0.079	RPM32BD	0.054/0.119	RPM42BD	0.071/0.157
48 ---	RPM12ED	0.026/0.057	RPM22ED	0.036/0.079	RPM32ED	0.054/0.119	RPM42ED	0.071/0.157
110 ---	-	-	RPM22FD	0.036/0.079	-	-	RPM42FD	0.071/0.157
24 ~	RPM12B7	0.026/0.057	RPM22B7	0.036/0.079	RPM32B7	0.054/0.119	RPM42B7	0.071/0.157
48 ~	RPM12E7	0.026/0.057	RPM22E7	0.036/0.079	RPM32E7	0.054/0.119	RPM42E7	0.071/0.157
120 ~	RPM12F7	0.026/0.057	RPM22F7	0.036/0.079	RPM32F7	0.054/0.119	RPM42F7	0.071/0.157
230 ~	RPM12P7	0.026/0.057	RPM22P7	0.036/0.079	RPM32P7	0.054/0.119	RPM42P7	0.071/0.157



RPZF4 + Relay RPM42P7



RUW24...



RUW101MW

Socket

Contact terminal arrangement	Connection	Relay type	Sold in lots of	Unit reference	Weight Kg/lb
Mixed	Screw clamp terminals	RPM1...	10	RPZF1	0.042/ 0.093
		RPM2...	10	RPZF2	0.054/ 0.119
		RPM3...	10	RPZF3	0.072/ 0.159
		RPM4...	10	RPZF4	0.094/ 0.207

Protection modules

Description	Voltage V	Socket type	Sold in lots of	Unit reference	Weight Kg/lb		
Diode	6...250 ~	RPZF1 RPZF2	10	RXM040W	0.003/ 0.007		
		RPZF3 RPZF4	10	RUW240BD	0.004/ 0.009		
		RC circuit	24...60 ~	RPZF1 RPZF2	10	RXM041BN7	0.010/ 0.022
				RPZF1 RPZF2	10	RXM041FU7	0.010/ 0.022
Varistor	24...240 ~	RPZF3 RPZF4	10	RUW241P7	0.004/ 0.009		
		6...24 ~/-	RPZF1 RPZF2	10	RXM021RB	0.030/ 0.066	
	24...60 ~/-		RPZF1 RPZF2	10	RXM021BN	0.030/ 0.066	
		110...240 ~/-	RPZF1 RPZF2	10	RXM021FP	0.030/ 0.066	
	24 ~/-		RPZF3 RPZF4	10	RUW242B7	0.004/ 0.009	
		240 ~/-	RPZF3 RPZF4	10	RUW242P7	0.004/ 0.009	

Timer modules (1)

Description	Voltage V	Socket type	Unit reference	Weight Kg/lb
Multifunction	24... 240 ~/-	RPZF3 RPZF4	RUW101MW	0.020/ 0.044

(1) See timer module description (selection of functions and time delays) on www.se.com/harmonyelectromechanicalrelays.


References



RPZ4DA



RPZ1FA

Accessories				
Description	For use with	Sold in lots of	Unit reference	Weight Kg/lb
Metal maintaining clamp	RPZF1	10	RPZR235	0.001/ 0.002
	RPZF2	10	16-1342	0.001/ 0.002
Mounting adapters for  rail (1)	RPM4●●●	10	RPZ4DA	0.006/ 0.013
Mounting adapters with panel mounting lugs	RPM1●●●	10	RPZ1FA	0.002/ 0.004
	RPM2●●●	10	RXZE2FA	0.002/ 0.004
	RPM3●●●	10	RPZ3FA	0.003/ 0.007
Clip-in legends (sheet of 108 legends)	All relays	10	RXZL520	0.080/ 0.176
Clip-in legends (sheet of 16 legends)	All relays	10	RGZL520	0.080/ 0.176

(1) The test button becomes inaccessible.

RUM universal relays



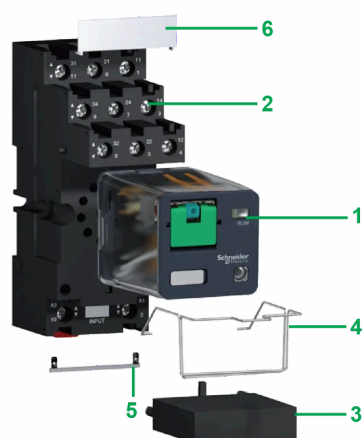
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RUM universal relays

Presentation and description

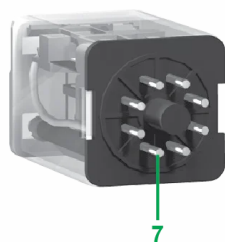
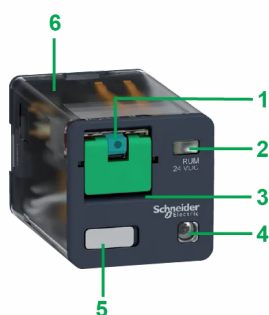


Presentation of the range

The RUM universal relay range comprises:

- 1 10A relays with 2 and 3 CO contacts, and cylindrical or flat (Faston type) pins (all these relays have the same dimensions)
- 2 Sockets with mixed or separate contact terminals
- 3 Protection modules (diode, RC circuit, or varistor) or 1 timer module, common to all RUM sockets
- 4 Metal maintaining clamp for all RUM sockets
- 5 2-pole bus jumper that can be used on sockets with separate contact terminals in order to simplify cabling when creating an equipotential link between the coil terminals
- 6 Clip-in legends for the sockets

Relay description

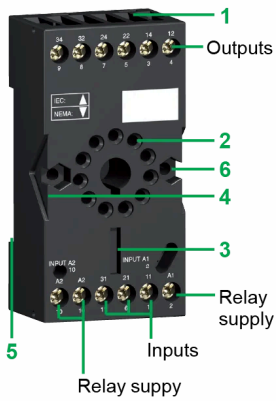
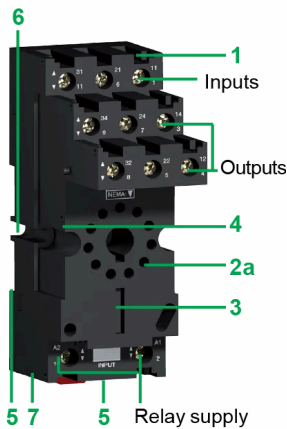
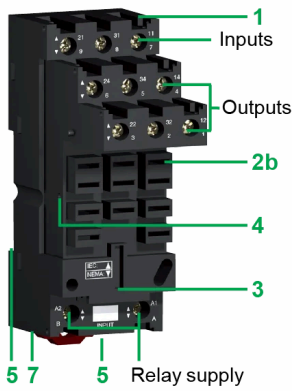


- 1 Spring-return pushbutton for testing the contacts (blue: DC, red: AC)
- 2 Mechanical "relay status" indicator
- 3 Removable lock-down door enabling forced maintenance of the contacts for test sequences or maintenance purposes (1)
- 4 LED (depending on version) indicating the relay status
- 5 Removable legend for relay identification
- 6 The area by which the product can be easily gripped
- 7 8 or 11 cylindrical pins
- 8 8 or 11 flat (Faston type) pins

(1) During operation, this lock-down door must always be in the closed position.

RUM universal relays

Presentation and description



Socket description

Sockets with separate contact terminals (1)

- 1 Connection by screw connector
- 2a 8 or 11 female contacts for the relay cylindrical pins
- 2b 11 female contacts for the relay flat pins
- 3 Location for protection modules or the timer module
- 4 Locking component for metal maintaining clamp
- 5 Locating slot for mounting on DIN rail with mounting clip
- 6 2 holes for panel mounting
- 7 Location for bus jumpers (see dimensions for mounting on sockets on www.se.com/harmonyelectromechanicalrelays)

(1) The inputs and outputs are separate from the relay supply.

Sockets with mixed contact terminals

- 1 Connection by screw connector
- 2 8 or 11 female contacts for the relay cylindrical pins
- 3 Location for protection modules or the timer module
- 4 Locking component for metal maintaining clamp
- 5 A locating slot for mounting on DIN rail
- 6 2 holes for panel mounting

References

J

Universal relays for customer assembly

Relays for standard applications, with lockable test button and without LED (sold in lots of 10)

Pins	Control circuit voltage V	Number and type of contacts - Thermal current (Ith)			
		2 CO - 10 A		3 CO - 10 A	
		Unit reference	Weight Kg/lb	Unit reference	Weight Kg/lb
Cylindrical	12 ---	RUMC21JD	0.086/0.190	RUMC31JD	0.086/0.190
	24 ---	RUMC21BD	0.086/0.190	RUMC31BD	0.086/0.190
	48 ---	–	–	RUMC31ED	0.086/0.190
	60 ---	–	–	RUMC31ND	0.086/0.190
	110 ---	RUMC21FD	0.086/0.190	RUMC31FD	0.086/0.190
	125 ---	–	–	RUMC31GD	0.086/0.190
	220 ---	–	–	RUMC31MD	0.086/0.190
	24 ~	RUMC21B7	0.086/0.190	RUMC31B7	0.086/0.190
	48 ~	–	–	RUMC31E7	0.086/0.190
	120 ~	RUMC21F7	0.086/0.190	RUMC31F7	0.086/0.190
Flat (Faston type)	230 ~	RUMC21P7	0.086/0.190	RUMC31P7	0.086/0.190
	12 ---	RUMF21JD	0.086/0.190	RUMF31JD	0.086/0.190
	24 ---	RUMF21BD	0.086/0.190	RUMF31BD	0.086/0.190
	48 ---	RUMF21ED	0.086/0.190	RUMF31ED	0.086/0.190
	110 ---	RUMF21FD	0.086/0.190	RUMF31FD	0.086/0.190
	24 ~	RUMF21B7	0.086/0.190	RUMF31B7	0.086/0.190
	48 ~	RUMF21E7	0.086/0.190	RUMF31E7	0.086/0.190
	120 ~	RUMF21F7	0.086/0.190	RUMF31F7	0.086/0.190



RUMC21BD



RUMC21F7

Relays for standard applications, with lockable test button and LED (sold in lots of 10)

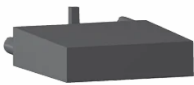
Pins	Control circuit voltage V	Number and type of contacts - Thermal current (Ith)			
		2 CO - 10 A		3 CO - 10 A	
		Unit reference	Weight Kg/lb	Unit reference	Weight Kg/lb
Cylindrical	12 ---	RUMC22JD	0.086/0.190	RUMC32JD	0.086/0.190
	24 ---	RUMC22BD	0.086/0.190	RUMC32BD	0.086/0.190
	48 ---	RUMC22ED	0.086/0.190	RUMC32ED	0.086/0.190
	110 ---	RUMC22FD	0.086/0.190	RUMC32FD	0.086/0.190
	125 ---	–	–	RUMC32GD	0.086/0.190
	24 ~	RUMC22B7	0.086/0.190	RUMC32B7	0.086/0.190
	48 ~	RUMC22E7	0.086/0.190	RUMC32E7	0.086/0.190
	120 ~	RUMC22F7	0.086/0.190	RUMC32F7	0.086/0.190
	230 ~	RUMC22P7	0.086/0.190	RUMC32P7	0.086/0.190
	Flat (Faston type)	12 ---	RUMF22JD	0.086/0.190	RUMF32JD
24 ---		RUMF22BD	0.086/0.190	RUMF32BD	0.086/0.190
110 ---		–	0.086/0.190	RUMF32FD	0.086/0.190
24 ~		RUMF22B7	0.086/0.190	RUMF32B7	0.086/0.190
120 ~		RUMF22F7	0.086/0.190	RUMF32F7	0.086/0.190
230 ~		RUMF22P7	0.086/0.190	RUMF32P7	0.086/0.190



RUMC32BD



RUMF32F7

RUZSC3M + Relay
RUMC3●●●

RUW241P7



RUW101MW



RE48A●●



RUZC200



RUZS2

Sockets

Contact terminal arrangement	Connection	Relay type	Sold in lots of	Unit reference	Weight Kg/lb
Mixed	Screw connector	RUMC2●●●	10	RUZC2M	0.054/0.119
		RUMC3●●●		RUZC3M	0.054/0.119
Separate	Screw connector	RUMC2●●●		RUZSC2M	0.095/0.209
		RUMC3●●●		RUZSC3M	0.100/0.220
		RUMF2●●●		RUZSF3M	0.095/0.209
		RUMF3●●●			

Protection modules

Description	For use with	Voltage V	Sold in lots of	Unit reference	Weight Kg/lb
Diode	All RUM sockets	6...250 ---	10	RUW240BD	0.004/0.009
RC circuit	All RUM sockets	110...240 ~		RUW241P7	0.004/0.009
Varistor	All RUM sockets	24 ~/---		RUW242B7	0.004/0.009
		240 ~/---		RUW242P7	0.004/0.009

Timer module

Description	For use with	Voltage V	Sold in lots of	Unit Reference	Weight Kg/lb
Multifunction	All RUM sockets	24... 240 ~/---	10	RUW101MW	0.020/0.044

Timing relays

Description	For use with	Unit reference	Weight Kg/lb
2 timed CO contacts (single-function or multifunction)	RUZC●M sockets	RE48A●● (1)	–

(1) Please refer to the "Harmony Timer Relays" catalog.

Accessories

Description	For use with	Sold in lots of	Unit Reference	Weight Kg/lb
Metal maintaining clamp	All RUM sockets	10	RUZC200	0.001/0.002
2-pole bus jumper (lth: 5 A)	All RUM sockets with separate contacts		RUZS2	0.005/0.011
Clip-in legends	All relays (sheet of 108 legends)		RXZL520	0.086/0.190
	All RUM sockets with separate contacts		RUZL420	0.001/0.002

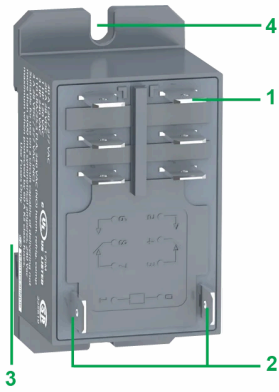
RPF power relays

K

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Presentation of the range

RPF power relays with 2 CO or 2 NO contacts comprise:

- 1 4 or 6 Faston type pins
- 2 2 relay supply pins
- 3 Locating slot for mounting on DIN rail
- 4 2 holes for panel mounting



RPF power relays

References



RPF2A●●

Power relays					
Control circuit voltage V	Sold in lots of	Number and type of contacts - Thermal current (Ith)			Weight Kg/lb
		2 NO - 30 A (1)		2 CO - 30 A (1)	
		Unit reference		Unit reference	
12 $\overline{\sim}$	10	RPF2AJD	RPF2BJD	0.082/0.181	
24 $\overline{\sim}$	10	RPF2ABD	RPF2BBD	0.082/0.181	
24 \sim	10	RPF2AB7	RPF2BB7	0.082/0.181	
120 \sim	10	RPF2AF7	RPF2BF7	0.082/0.181	
230 \sim	10	RPF2AP7	RPF2BP7	0.082/0.181	

(1) 30 A when mounted with 13 mm (0.51 in.) gap between two relays and 25 A when mounted side by side without a gap.

Technical presentation



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Technical presentation of protection module L-3

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Technical presentation of relays



Relays

Contact types			
Symbol	Configuration	EU	USA
	Make contact (Normally Open)	NO	SPST-NO DPST-NO nPST-NO (1)
	Break contact (Normally Closed)	NC	SPST-NC DPST-NC nPST-NC (1)
	Changeover contact	CO	SPDT DPDT nPDT(1)

Utilization categories

Category	Type of current	Applications
AC-1	~ 1-phase ~ 3-phase	Resistive or slightly inductive loads
AC-3	~ 3-phase	Starting and braking of squirrel cage motors; reversing direction of rotation only after stopping of motor
AC-4	~ 3-phase	Starting of squirrel cage motors, inching, plugging, reversing direction of rotation
DC-1	---	Resistive or slightly inductive loads (2)
AC-14	~ 1-phase	Control of electromagnetic loads (< 72 VA), auxiliary control relays, power contactors, electromagnetic solenoid valves, and electromagnets
AC-15	~ 1-phase	Control of electromagnetic loads (> 72 VA), auxiliary control relays, power contactors, electromagnetic solenoid valves, and electromagnets
DC-13	---	Control of electromagnetic loads, auxiliary control relays, power contactors, magnetic solenoid valves, and electromagnets

Protection categories

Category	Explanation	Condition
RT 0	Unenclosed relay	Relay is not provided with a protective case
RT I	Dust-protected relay	Relay is provided with a case that helps to protect its mechanism from dust
RT II	Flux-proof relay	Relay capable of being automatically soldered without allowing the migration of solder flux beyond the intended areas
RT III	Wash-tight relay	Relay capable of being automatically soldered and then washed to remove flux residues and minimize the possibility of ingress of flux or washing solvents
RT IV	Sealed relay	Relay provided with a case that has no venting to the outside atmosphere
RT V	Hermetically sealed relay	Sealed relay with an enhanced level of sealing

(1) n = number of contacts.

(2) The switchable voltage can be doubled, for an equal current, by connecting 2 contacts in series.

Technical presentation of protection module

Protection modules

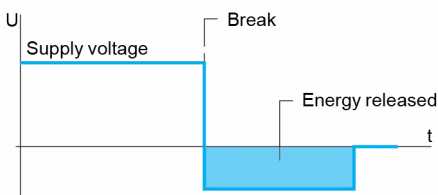
Whenever an inductive load is de-energized (coil of a relay or of a contactor), an overvoltage appears at its terminals. This voltage peak can reach several thousand volts and a frequency of several MHz.

It is likely to disturb the operation of automation systems that contain electronic devices.

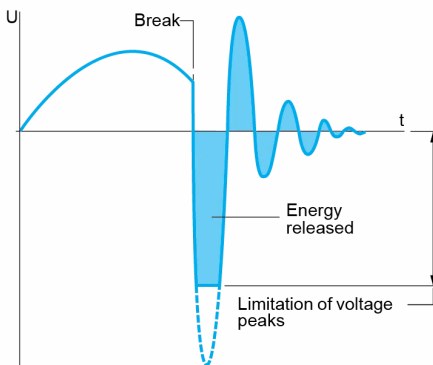
Protection modules reduce the voltage peak on de-energization and, therefore, limit the energy of interference signals to a level that will not disturb surrounding coils and electronic devices.

These modules are used to help reduce the risk of:

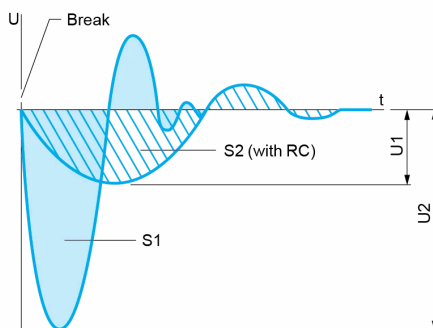
- Electromagnetic compatibility problems
- Deterioration of contact materials
- Damage to insulation due to overvoltage
- Damage to electronic components



Coil voltage with diode protection module (= only)



Coil voltage with varistor protection module (~ and =)



S1 = S2 = Energy released

Coil voltage with RC circuit protection module (~ only)

Diode protection module (with or without LED)

Advantages

- Accumulation of energy allows current to flow in the same direction
- Absence of any voltage peaks at the coil terminals
- Low cost

Disadvantages

- Increase in relay drop-out time (3 to 4 times the usual time)
- No polarity protection
- De-energization of the relay

Protection module with a varistor

Advantages

- Can be used with a and c supply
- Voltage peak limited to about 2 Un
- Little effect on relay drop-out time

Disadvantages

- No modification of the coil's own oscillating frequency
- Limitation of switching frequency

Protection module with RC circuit

Advantages

- Coil oscillating frequency reduced to about 150 Hz
- Voltage peak limited to 3 Un
- Little effect on relay drop-out time

Disadvantages

- No protection for low voltages

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