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Harmony Electromechanical Relays

Interface, miniature, and power electromechanical relays

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General presentation

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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

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

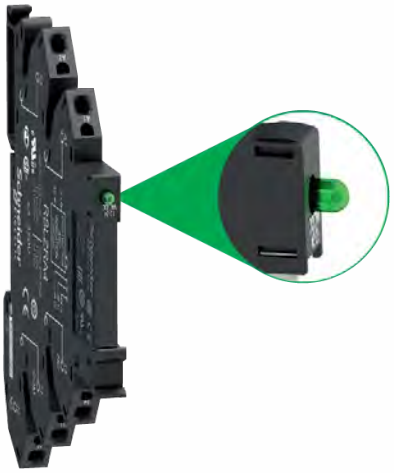
RSL relays for compactness

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

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

Screw connector

Spring terminal

General presentation
RXG relays for reliability

Complete offer

RXG relays offer a broad range of coil voltages, from 6 V to 110 VDC and24 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

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

RXM relays for automation control

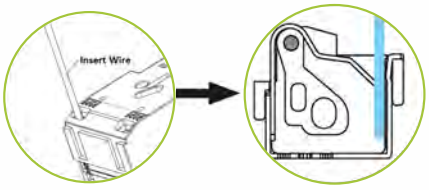
Easy to select

- 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

Other Chapters

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Interface and slim interface relays

B

Type of product		Plug-in relays											
		Interface 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						-		24…240 V			
	⎓	6…110 V						12…60 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)	Electrical, resistive load	100,000						60,000		100,000			
	Mechanical, no-load	10,000,000 for AC coil 10,000,000 for DC coil						10,000,000		30,000,000			
Functions	LED	Yes (depending on version)						No		Yes (with protection modules)			
	Mechanical indicator	Yes (depending on version)						No		No			
	Test button	Yes, lockable (depending on version)						No		No			
	Contact type	Standard						Standard and low-level		Standard			
Accessories	Mounting adapters for DIN rail	No						No		No			
	Mounting adapters with fixing lugs	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		Separate			
Connection		Screw connector		Push-in terminals		Screw clamp terminals		Screw connector	Spring terminals	Screw connector		Push-in terminals	
Accessories	Protection modules	Yes		Yes		No		No	No	Yes		Yes	
	Timer module	No		No		No		No	No	No		No	
	Maintaining clamps	Yes (plastic, integrated)		Yes (plastic, integrated)		Yes (plastic, integrated)		No	No	Yes		Yes (plastic, integrated)	
	Socket identification legend	Yes		Yes		No		Yes	Yes	Yes		Yes	
	Bus jumper	Yes, 8-pole		Yes, 2-pole		No		Yes, 20-pole	Yes, 20-pole	Yes, 8-pole		Yes, 2-pole	
Conventional thermal current (Ith)		10 A	5 A	10 A	5 A	10 A	5 A	6 A	6 A	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**
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.

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Miniature and hermetically sealed relays

B

Type of product		Plug-in relays	
		Miniature relays	**Hermetically sealed 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	6...240 V
	⎓	12…220 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)	Electrical, resistive load	100,000	100,000
	Mechanical, no-load	10,000,000	10,000,000
Functions	LED	Yes (depending on version)	No
	Mechanical indicator	Yes	No
	Test button	Yes, lockable	No
	Contact type	Standard and low-level	Standard and low-level
Accessories	Mounting adapters for DIN rail	Yes	No
	Mounting adapters with fixing lugs	Yes	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	Yes	No	Yes	No	No
	Timer module	No	No	No	No	No	No	No	No	No
	Maintaining clamps	Yes	Yes	Yes	Yes (plastic, integrated)	Yes	Yes	Yes	Yes	Yes
	Socket identification legend	Yes	No	Yes	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.

Harmony Electromechanical Relays - 2025-10-08

B

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	Universal relays		Power relays
						 		
Number and type of contacts/conventional thermal current (Ith 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 CO/10 A 3 CO/10 A	2 CO/10 A 3 CO/10 A	2 NO/30 A *(2)* 2 CO/30 A *(2)*
Control circuit voltage	∿	24…240 V			24…240 V	24…230 V		24…230 V
	⎓	12…24 V			12…110 V	12…220 V	12…110 V	12…24 V
Pin type		Flat (Faston type)	Flat (Faston type)	Screw type	Flat (Faston type)	Cylindrical	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 ⎓		Up to 277 V ∿/28 V ⎓
Durability (operating cycles per hour)	Electrical, resistive load	100,000			100,000 *(1)*	100,000		100,000
	Mechanical, no-load	5,000,000			10,000,000	5,000,000		5,000,000
Functions	LED	Yes	Yes	Yes	Yes (depending on version)	Yes (depending on version)		–
	Mechanical indicator	Yes	No	No	Yes	Yes		–
	Test button	Yes, lockable	Yes, non-lockable	Yes, non-lockable	Yes, lockable	Yes, lockable		–
	Contact type	Standard			Standard	Low level (depending on version)	Standard	–
Accessories	Mounting adapters for DIN rail	No	–		Yes	No		–
	Mounting adapters with fixing lugs	No	–		Yes	No		–
Type references		725●XX●BM4L-●	725●XX●BC3ML-●	725●XX●SC3ML-●	RPM●●●●	RUM●●●●●		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	Sockets without LED		
						  		
Contact terminal arrangements		Separate	–		Mixed	Mixed	Separate	–
Connection		Screw connector	–		Screw clamp terminals	Screw connector		–
Accessories	Protection modules	Yes	–		Yes	Yes		–
	Timer module	No	–		Yes (for 3-pole and 4-pole)	Yes		–
	Maintaining clamps	Yes	–		Yes (on socket RPZF1)	Yes		–
	Socket identification legend	–	–		Yes	Yes		–
	Bus jumper	No	–		No	No	Yes, 2-pole	–
Conventional thermal current (Ith)		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.
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.

RSL slim interface relays

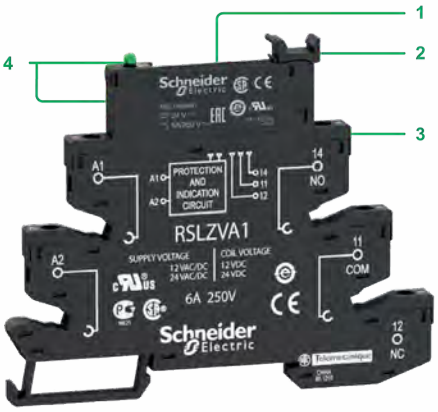
Presentation and description

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 description

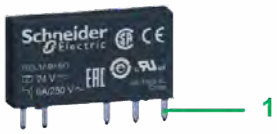
RSL slim interface relays, pre-assembled

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

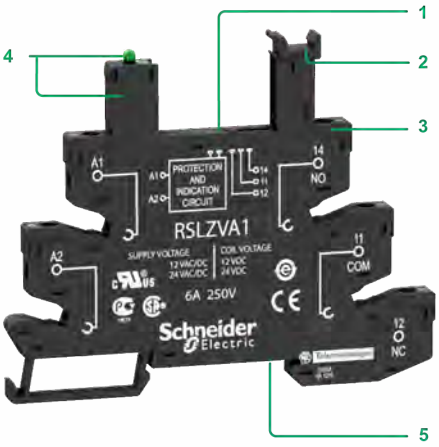
4 Built-in protection circuit and LED indicator on all sockets



Relay

RSL slim interface relay

1 5 flat (PCB type) standard pins



Socket

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

RSL slim interface relays
References

RSL1PVBU

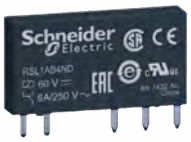
RSL1PRPU

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 ⎓/∿	**RSL1PVPU**	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			
		Screw connector		Spring terminal	
		Unit reference	Weight kg/*lb*	Unit reference	Weight kg/*lb*
12 ⎓/∿ 24 ⎓/∿	RSL1●B4JD RSL1●B4BD	**RSLZVA1**	0.025/*0.055*	**RSLZRA1**	0.023/*0.051*
48 ⎓/∿ 60 ⎓/∿	RSL1●B4ED RSL1●B4ND	**RSLZVA2**	0.025/*0.055*	**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

D

Other Chapters

Presentation and description

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

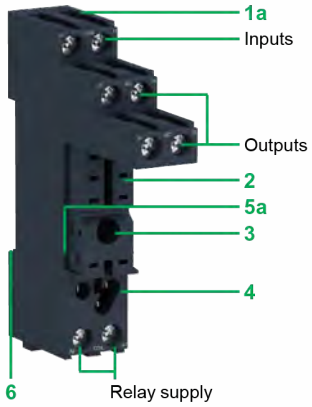
2 Sockets with separate contact terminals

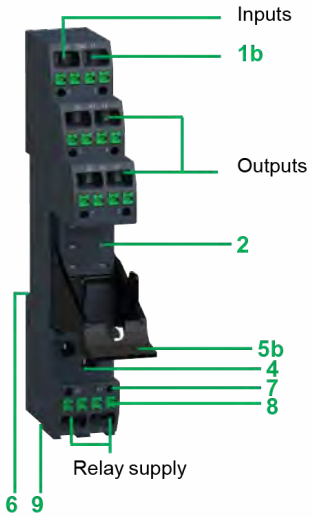
3 Protection modules (diode, diode + LED, RC circuit, or varistor + LED) common to all sockets

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

RSB1A120JD + RZM031RB + RSZE1S35M

RSB1A160JD + RSZE1S48M

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)			
	1 CO - 12 A	1 CO - 16 A	2 CO - 8 A	Weight kg/*lb*
	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*

RSZE05P

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*

RZM021RB

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*
RC circuit	All sockets	24…60 ∿	10	RZM041BN7	0.010/*0.022*
		110…240 ∿	10	RZM041FU7	0.010/*0.022*
Diode + green LED	All sockets	6…24 ⎓	10	RZM031RB	0.004/*0.009*
		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

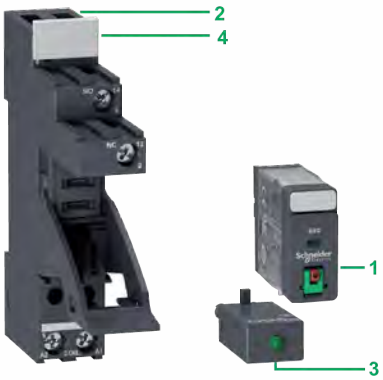
Accessories

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*

D

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

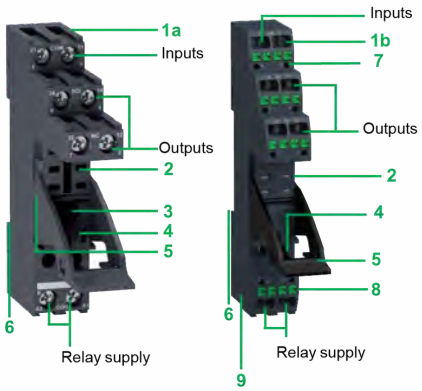
4 LED (depending on version) indicating the relay status

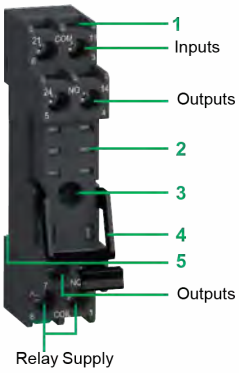
5 Removable legend for relay identification

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.

E

RXG22BDPV

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*

RXG12P7PVP

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*

E

RGZE1S48M

RGZE05P

RGZE05E

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*

RZM031RB

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*

RSZL300

RGZS08

RGZR215

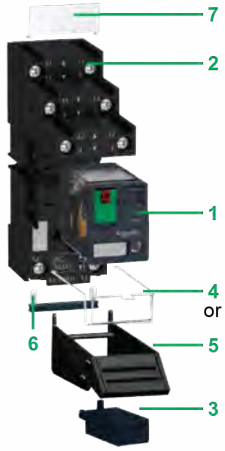
RSZS02

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

Presentation and description



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

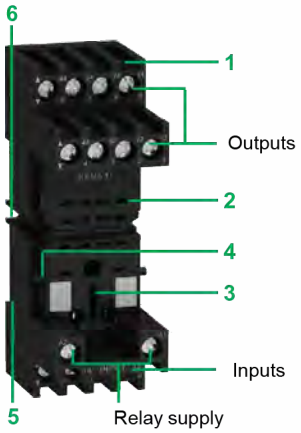
7 8, 11, or 14 Faston type pins

8 Area by which the product can be easily gripped

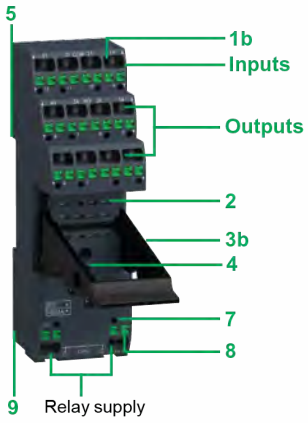
9 Mounting adapter enabling direct mounting of the relay on a panel

10 Mounting adapter enabling direct mounting of the relay on a DIN rail

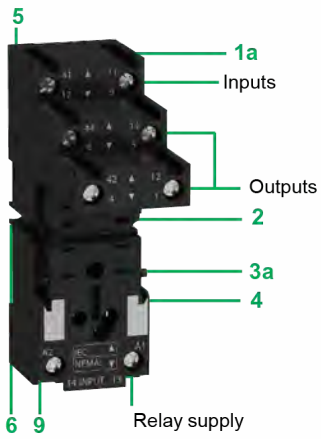
Presentation and description



Sockets with mixed contact terminals



Sockets with separate contact terminals



Sockets with separate 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 *(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.

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

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*

RXM4GB1BD

RXM4GB1P7

RXM4GB2BD

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*

F

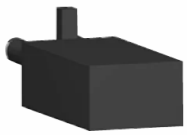
RXZE2M114M

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.

RXZE14P



RXM041●●7

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*

REXL4●●

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 (Ith: 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*

F

782H hermetically sealed relays

Other Chapters

Presentation and description

Presentation of the range

The hermetically sealed 782H series relays comply with UL Class I 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.

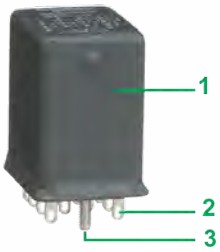
782H hermetically sealed relays comprise:

- 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

782XDXH21-12D

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 ∿	782XDXH10-6A	0.045/*0.099*	–	–	–	–
24 ∿	782XDXH10-24A	0.045/*0.099*	–	–	–	–
120 ∿	782XDXH10-120A	0.045/*0.099*	782XDXH21-120A	0.045/*0.099*	–	–
240 ∿	782XDXH10-240A	0.045/*0.099*	782XDXH21-240A	0.045/*0.099*	–	–
6 ⎓	782XDXH10-6D	0.045/*0.099*	–	–	–	–
12 ⎓	782XDXH10-12D	0.045/*0.099*	782XDXH21-12D	0.045/*0.099*	–	–
24 ⎓	782XDXH10-24D	0.045/*0.099*	782XDXH21-24D	0.045/*0.099*	782XBXH21-24D	0.045/*0.099*
48 ⎓	–	–	782XDXH21-48D	0.045/*0.099*	–	–
110 ⎓	782XDXH10-110D	0.045/*0.099*	–	–	–	–

70-461-1

70-782EL14-1

70-379-1

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		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	Chasis	70-378-1	10	0.007/*0.015*
	Printed circuit terminals	PCB	70-379-1	10	0.007/*0.015*

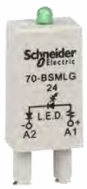
(1) 782H relays are:

- 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, 70-782E14-1	6 to 250 ⎓	70-BSMD-250	10	–
MOV suppressor		24 ∿	70-BSMM-24	10	–
		120 ∿	70-BSMM-120	10	–
		240 ∿	70-BSMM-240	10	–
LED indicator		24 ∿	70-BSMLG-24	10	–



70-BSMLG-24

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	–

16-1342

RXZS2

725 power relays

Presentation and description

Presentation of the range

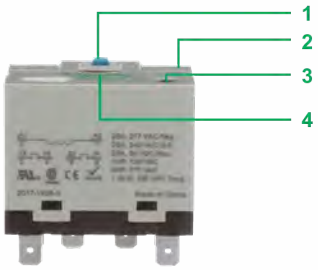
The 725 series is a power relay offering multiple mounting options for ease of use, enhanced reliability, and robust installation. They are used in high-capacity switching applications such as EV charging, CNC machines, and HVAC compressors.

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

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*

70-725-1

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*

70-ASMD-250

70-ASMM-120

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**	–

16-725SC-1

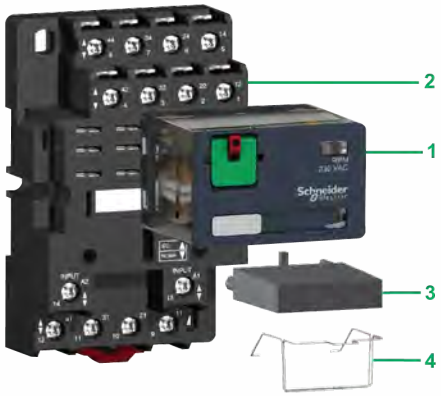
Socket accessories

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

Other Chapters

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

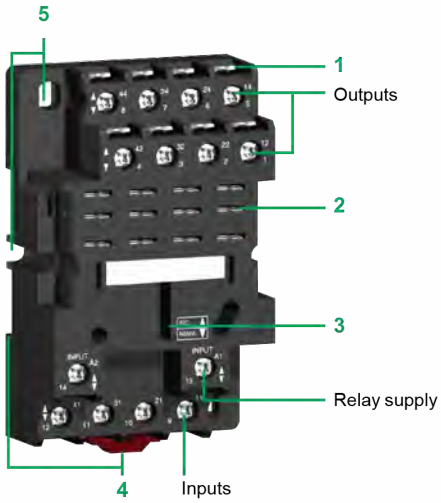
6 4 notches for rail mounting adapter or panel mounting adapter with mounting lugs

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.


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

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*

RUW24●●●

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*
	110...240 ∿	RPZF1 RPZF2	10	**RXM041FU7**	0.010/ *0.022*
		RPZF3 RPZF4	10	**RUW241P7**	0.004/ *0.009*
Varistor	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*

RUW101MW

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

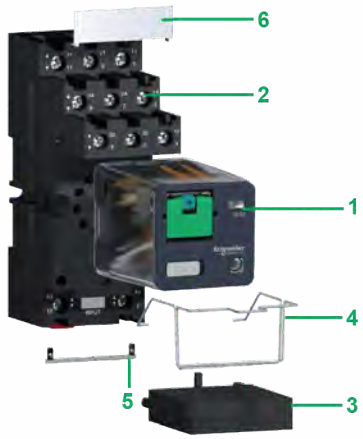
Accessories

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

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)

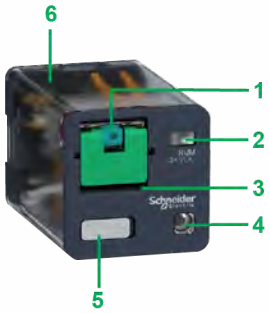
2 Sockets with mixed or separate contact terminals

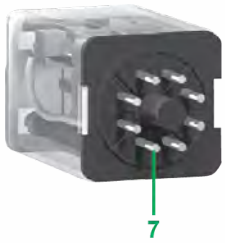
3 Protection modules (diode, RC circuit, or varistor) or 1 timer module, common to all RUM sockets

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

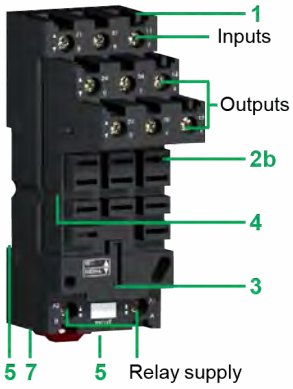
5 Removable legend for relay identification

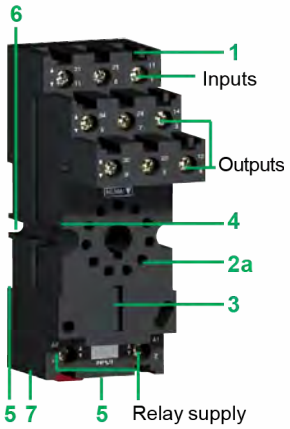
6 The area by which the product can be easily gripped

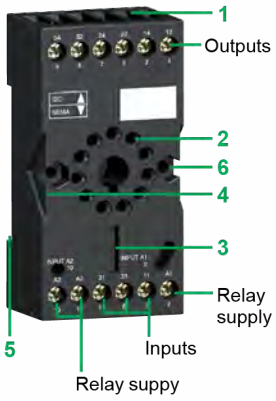
7 8 or 11 cylindrical pins

8 8 or 11 flat (Faston type) pins

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







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

J

RUMC21BD

RUMC21F7

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*
	230 ∿	**RUMC21P7**	0.086/*0.190*	**RUMC31P7**	0.086/*0.190*
Flat (Faston type)	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*

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**	0.086/*0.190*
	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●●●

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●●● RUMF3●●●		**RUZSF3M**	0.095/*0.209*

RUW241P7

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*

RUW101MW

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*

RE48A●●

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.

RUZC200

RUZS2

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 (Ith: 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

Other Chapters

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 ⎓	10	RPF2AJD	RPF2BJD	0.082/*0.181*
24 ⎓	10	RPF2ABD	RPF2BBD	0.082/*0.181*
24 ∿	10	RPF2AB7	RPF2BB7	0.082/*0.181*
120 ∿	10	RPF2AF7	RPF2BF7	0.082/*0.181*
230 ∿	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

Other Chapters

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

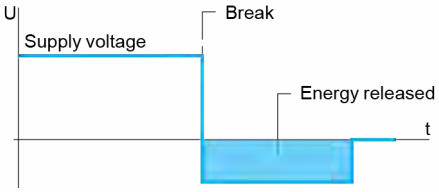
Protection modules

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

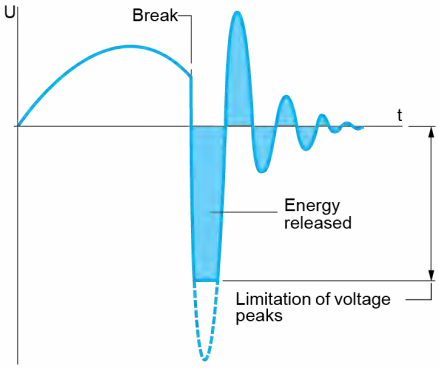


Coil voltage with diode protection module (⎓ only)

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

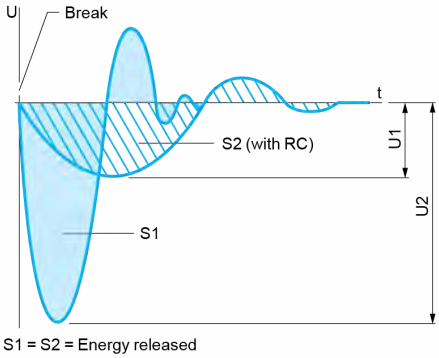


Coil voltage with varistor protection module (~ and ⎓)

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



Coil voltage with RC circuit protection module (~ only)

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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Schneider Electric Industries SAS
Head Office : 35, rue Joseph Monier - CS 30323
F-92500 Rueil-Malmaison Cedex France

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