



Harmony Electromechanical Relays

Interface, miniature, and power
electromechanical relays

Life Is On

Schneider
Electric

Harmony Electromechanical Relays

Interface, miniature, and power electromechanical relays

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Harmony Electromechanical Relays

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

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.

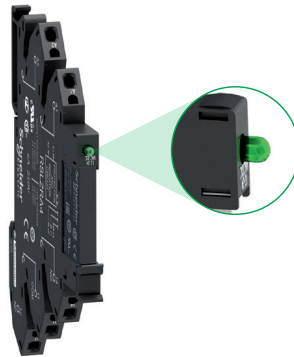
RSL relays for compactness

Flexible offer

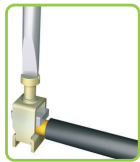
- > Available as a single-referenced complete product (relay and socket) or customer-assembled product
- > Wide choice of sockets ranging from 12 to 230 V ~
- > Standard and low level contact types

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

RXG relays for reliability

Complete offer

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



Single-step lockable test button

Harmony RXG → Latest interface relay with easy testing function

RXG relays for reliability (continued)

Expandable relays

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



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

RXM relays for automation control

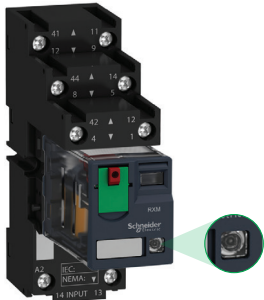
Easy to select

- > 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

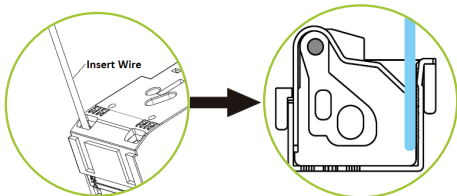
Simple to install

- > 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 has been changed in 2020 to Harmony Relays. As the timeline for each range is different, during the transition period there will be both Zelio and Harmony ranges shown on different product datasheets and packaging.



Push-in terminal: insert without tool

Harmony RXM → Miniature in size and powerful in performance

Harmony Electromechanical Relays

Interface, miniature, and power electromechanical relays

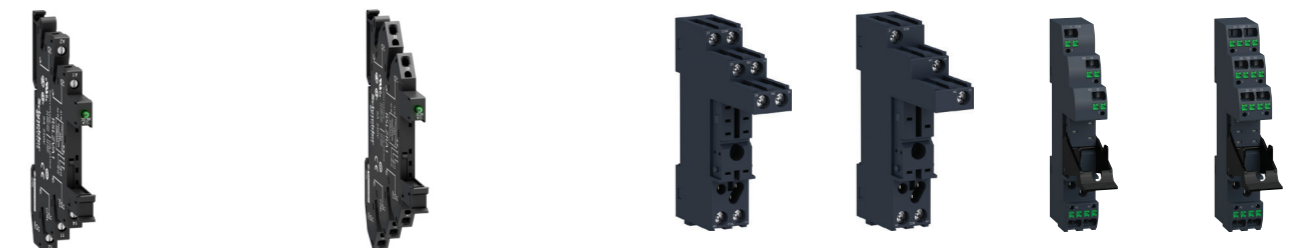
Type of product		Plug-in relays	
		Interface relays	
			
Number and type of contacts/conventional thermal current (Ith on NO contact)		1 CO/10 A 2 CO/5 A	
Control circuit voltage		24...230 V 6...110 V	
Pin type		Flat (Faston type)	
Operational voltage		Up to 250 V ~	
Durability (operating cycles per hour)		100,000 10,000,000 for AC coil 10,000,000 for DC coil	
Functions		LED Mechanical indicator Test button Contact type	
Accessories		Mounting adapters for DIN rail Mounting adapters with fixing lugs	
Type references		RXG●●●● (1)	
Pages		17	
Type of associated sockets		Sockets	



Contact terminal arrangements		Separate		Mixed	
Connection		Screw connector		Push-in terminals	
Accessories		Yes		Yes	
		No		No	
		Yes (plastic, integrated)		No	
		Yes		Yes	
		Yes		Yes, 2-pole	
Conventional thermal current (Ith)		10 A for 1 CO 5 A for 2 CO		10 A 5 A	
Type references		RGZE1S35M RGZE1S48M		RGZE05P RGZE08P RGZE05E RGZE08E	
Pages		18			

(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, terminals must be linked.

Plug-in relays		Interface relays	
Slim interface relays			
			
Number and type of contacts/conventional thermal current (Ith on NO contact)		1 CO/6 A 1 CO/16 A 1 CO/12 A 2 CO/8 A	
Control circuit voltage		24...240 V 6...110 V	
Pin type		Flat (PCB type, reinforced) Flat (PCB type)	
Operational voltage		Up to 400 V ~/300 V ~	
Durability (operating cycles per hour)		60,000 10,000,000	
Functions		LED Mechanical indicator Test button Contact type	
Accessories		Mounting adapters for DIN rail Mounting adapters with fixing lugs	
Type references		RSL1●B4●D (1) RSB●●●●●● (1)	
Pages		11 13	
Type of associated sockets		Sockets with LED and protection circuit Sockets without LED	



Contact terminal arrangements		Separate		Separate	
Connection		Screw connector		Push-in terminals	
Accessories		Yes		Yes	
		No		No	
		Yes (plastic, integrated)		Yes (plastic, integrated)	
		Yes		Yes	
		Yes, 20-pole		Yes, 2-pole	
Conventional thermal current (Ith)		10 A for 1 CO 5 A for 2 CO		10 A 5 A	
Type references		RSLZV●● RSLZR●●		RSZE1S35M RSZE1S48M RSZE05P RSZE08P	
Pages		11		13	

Harmony Electromechanical Relays


Interface, miniature, and power electromechanical relays

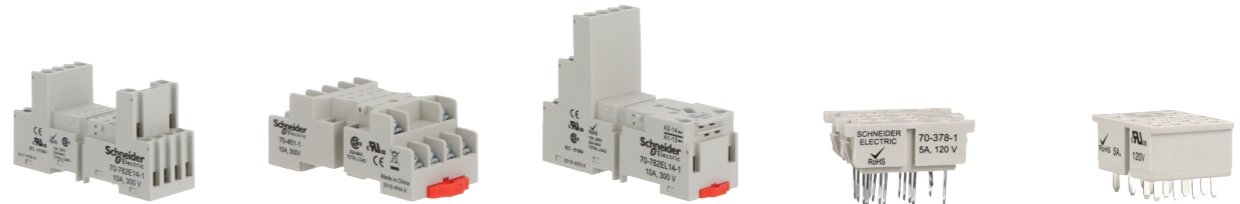
Type of product		Plug-in relays	
		Miniature relays	
			
Number and type of contacts/conventional thermal current (Ith on NO contact)		2 CO/12 A 3 CO/10 A 4 CO/6 A 4 CO/3 A (low level)	
Control circuit voltage		24...240 V 12...220 V	
Pin type		Flat (Faston type)	
Operational voltage		Up to 250 V \approx	
Durability (operating cycles per hour)		Electrical, resistive load Mechanical, no-load	
		100,000 10,000,000	
Functions		LED Mechanical indicator Test button Contact type	
Accessories		Mounting adapters for DIN rail Mounting adapters with fixing lugs	
Type references		RXM●●●●● (1)	
Pages		21	
Type of associated sockets		Sockets without LED	



Contact terminal arrangements		Mixed		Separate	
Connection		Screw connector	Screw clamp terminals	Screw connector	Push-in terminals
Accessories		Protection modules Timer module Maintaining clamps Socket identification legend Bus jumper		Yes Yes (plastic, integrated) Yes Yes, 2-pole (Ith = 5 A) 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
Type references		RXZE2M114M	RXZE2M114	RXZE2S●●●M	RXZE14P
Pages		23			

(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.
 (4) When using relay RSB1A160●● with socket RSZE1S48M, terminals must be linked.

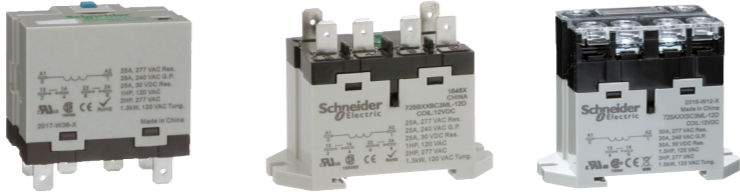

Type of product		Plug-in relays	
		Hermetically sealed relays	
			
Number and type of contacts/conventional thermal current (Ith on NO contact)		4 CO/5 A 4 CO/3 A (low level) 2 CO/5 A	
Control circuit voltage		6...240 V 6...110 V	
Pin type		Flat (Plug-in type) (3)	
Operational voltage		Up to 264 V \approx /121 V \approx	
Durability (operating cycles per hour)		100,000 10,000,000	
Functions		No No No Standard and low level	
Accessories		No No	
Type references		782X●XH●●● (3)	
Pages		27	
Type of associated sockets		Sockets	



Contact terminal arrangements		Mixed		Separate		-		-	
Connection		Screw connector	Screw clamp terminals	Screw connector	Solder lug	PCB pins			
Accessories		Yes No Yes Yes Yes -		No No Yes No Yes, 2-pole		No No Yes -		No No Yes -	
Conventional thermal current (Ith)		10 A	10 A	10 A	5 A	10 A			
Type references		70-782E14-1	70-461-1	70-782EL14-1	70-378-1	70-379-1			
Pages		27							

Harmony Electromechanical Relays

Interface, miniature, and power electromechanical relays

Type of product	Plug-in socket mount	Panel/DIN rail mount with flat (Faston type) terminals	Panel/DIN rail mount with screw terminals
	Power relays		
			
Number and type of contacts/conventional thermal current (Ith on NO contact)	1 NO/30 A 2 NO/25 A		
Control circuit voltage	24...240 V 12...24 V		
Pin type	Flat (Faston type)	Flat (Faston type)	Screw type
Operational voltage	Up to 264 V ~/26.4 V ---		
Durability (operating cycles per hour)	100,000 5,000,000		
Functions	LED Mechanical indicator Test button Contact type	Yes No Yes, lockable	Yes No Yes, non-lockable
Accessories	Mounting adapters for DIN rail Mounting adapters with fixing lugs		
Type references	725●XX●BM4L-●	725●XX●BC3ML-●	725●XX●SC3ML-●
Pages	29	29	29
Type of associated sockets	Socket		
			
Contact terminal arrangements	Separate	-	-
Connection	Screw connector	-	-
Accessories	Protection modules Timer module Maintaining clamps Socket identification legend Bus jumper	Yes No Yes - No	- - - - -
Conventional thermal current (Ith)	30 A	-	-
Type references	70-725-1	-	-
Pages	29	-	-

(1) 100,000 for RPM1 and RPM2; 60,000 for RPM3 and RPM4.
(2) 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.

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

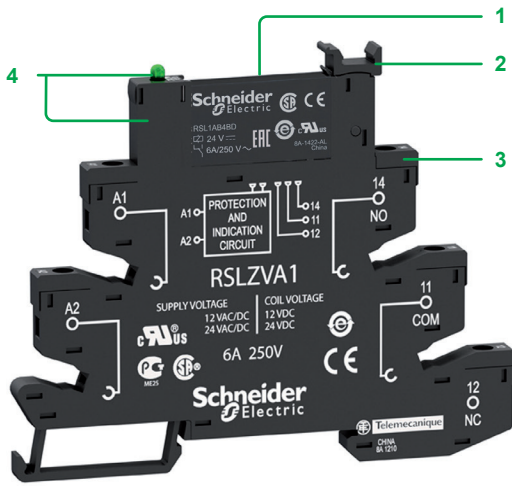
Plug-in relays	Relays with clamp fixing		
Power relays	Universal relays	Power relays	
			
1 CO/15 A 2 CO/15 A 3 CO/15 A 4 CO/15 A	2 CO/10 A 3 CO/10 A	2 CO/10 A 3 CO/10 A	2 NO/30 A (2) 2 CO/30 A (2)
12...110 V	24...230 V 12...220 V	12...110 V	12...24 V
Flat (Faston type)	Cylindrical	Flat (Faston type)	Flat (Faston type)
Up to 250 V ~	Up to 250 V ~		Up to 250 V ~
100,000 (1) 10,000,000	100,000 5,000,000		100,000 5,000,000
Yes (depending on version)	Yes (depending on version)		-
Yes	Yes		-
Yes, lockable	Yes, lockable		-
Standard	Low level (depending on version)	Standard	-
Yes	No		-
Yes	No		-
RPM●●●●	RUM●●●●		RPF●●●●
31	35		39
Sockets without LED	Sockets without LED		
			
Mixed	Mixed	Separate	-
Screw clamp terminals	Screw connector		-
Yes	Yes		-
Yes (for 3-pole and 4-pole)	Yes		-
Yes (on socket RPZF1)	Yes		-
Yes	Yes		-
No	No	Yes, 2-pole (Ith = 5 A)	-
16 A	12 A		-
RPZF●	RUZC●M	RUZSC●M	RUZSF3M
32	35		-

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:

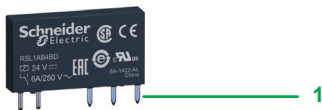
- **Pre-assembled offer:** a single reference comprising a standard relay mounted on its socket.
 - The socket includes a protection circuit (against reverse polarity and surge) and an LED indicator as standard.
 - 2 types of connector are available for wire connection: screw connectors or spring terminals.
 - 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 operating voltage of the application.
 - For maintenance, an RSL slim relay can be replaced without disconnecting the socket wiring.



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

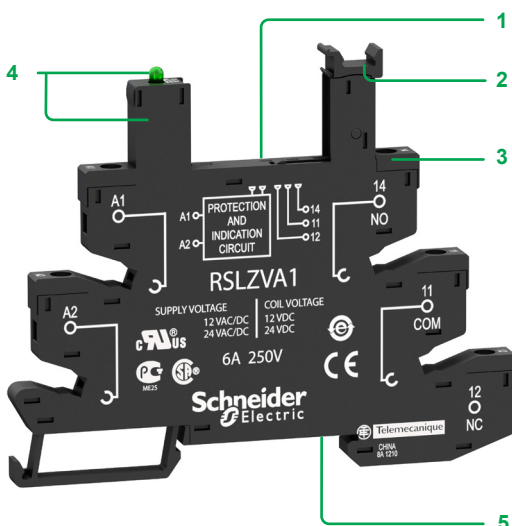


RSL slim interface relay

- 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



Pre-assembled slim interface relays					
Standard relays mounted on socket equipped with LED and protection circuit (Sold in lots of 10)					
1 CO contact - 6A thermal current (Ith)					
Operating voltage V	Control circuit voltage V	Socket type		Spring terminal	
		Screw connector Unit reference	Weight kg/lb	Unit reference	Weight kg/lb
~/~ 12	~ 12	RSL1PVJU (RSL1AB4JD + RSLZVA1)	0.031/0.068	RSL1PRJU (RSL1AB4JD + RSLZRA1)	0.029/0.064
~/~ 24	~ 24	RSL1PVBU (RSL1AB4BD + RSLZVA1)	0.031/0.068	RSL1PRBU (RSL1AB4BD + RSLZRA1)	0.029/0.064
~/~ 48	~ 48	RSL1PVEU (RSL1AB4ED + RSLZVA2)	0.031/0.068	RSL1PREU (RSL1AB4ED + RSLZRA2)	0.029/0.064
~/~ 110	~ 60	RSL1PVFU (RSL1AB4ND + RSLZVA3)	0.031/0.068	RSL1PRFU (RSL1AB4ND + RSLZRA3)	0.029/0.064
~/~ 230	~ 60	RSL1PVPU (RSL1AB4ND + RSLZVA4)	0.031/0.068	RSL1PRPU (RSL1AB4ND + RSLZRA4)	0.029/0.064



Slim interface relays for customer assembly				
Relays with flat (PCB type) standard pins (Sold in lots of 10)				
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

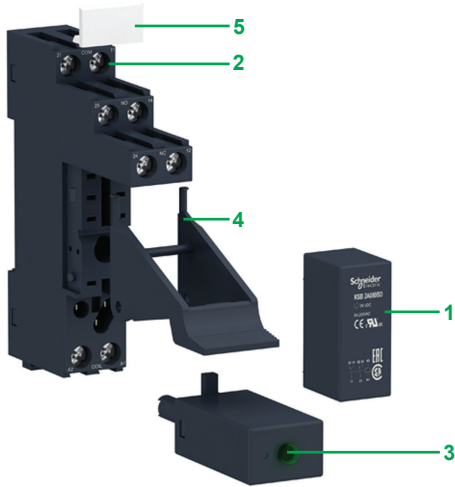


Sockets equipped with LED and protection circuit (Sold in lots of 10)					
Operating voltage V	For use with relays	Socket type		Spring terminal	
		Screw connector Unit reference	Weight kg/lb	Unit reference	Weight kg/lb
~/~ 12 and ~/~ 24	RSL1B4JD RSL1B4BD	RSLZVA1	0.025/0.055	RSLZRA1	0.023/0.051
~/~ 48 and ~/~ 60	RSL1B4ED RSL1B4ND	RSLZVA2	0.025/0.055	RSLZRA2	0.023/0.051
~/~ 110	RSL1B4ND	RSLZVA3	0.025/0.055	RSLZRA3	0.023/0.051
~/~ 230	RSL1B4ND	RSLZVA4	0.025/0.055	RSLZRA4	0.023/0.051



Socket accessories			
Description	For use with	Reference	Weight kg/lb
Clip-in legends (2 sheets of 64 legends)	All sockets	RSLZ5	0.001/0.002
Bus jumper (10 x 20-pole jumper)	All sockets	RSLZ2	0.003/0.007
Partition plate (10 partition plates)	All sockets	RSLZ3	0.001/0.002



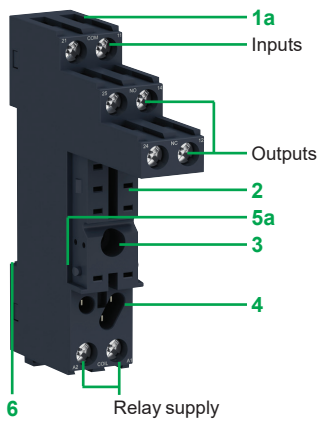


Presentation of the range

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

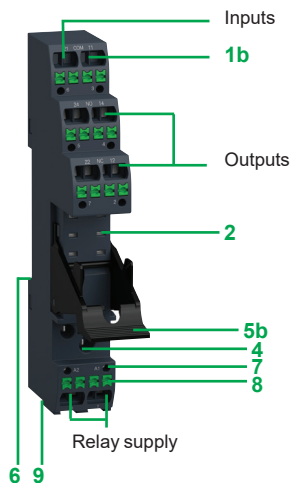
These relays are available in both pre-assembled (single reference) and customer assembled offers.



Socket description

Sockets with separate contact terminals (1)

- 1 a Connection by screw connector
- b 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 a Locking components for plastic maintaining clamp
- b 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.



Pre-assembled interface relays

Relays mounted on sockets with protection module (LED version) and integrated clamp
(sold in lots of 30)

Control circuit voltage V	Number and types of contact - Thermal current (Ith)					
	1 CO - 12 A		1 CO - 16 A		2 CO - 8 A	
	Unit Reference	Weight kg/lb	Unit Reference	Weight kg/lb	Unit Reference	Weight kg/lb
12 $\overline{\text{---}}$	RSB1A120JDPV (RSB1A120JD + RSZE1S35M + RSZR215 + RZM031RB + RSZL300)	0.050/ 0.110	–	–	RSB2A080JDPV (RSB2A080JD + RSZE1S48M + RSZR215 + RZM031RB + RSZL300)	0.057/ 0.126
24 $\overline{\text{---}}$	RSB1A120BDPV (RSB1A120BD + RSZE1S35M + RSZR215 + RZM031RB + RSZL300)	0.050/ 0.110	RSB1A160BDPV (RSB1A160BD + RSZE1S48M + RSZR215 + RZM031RB + RSZL300)	0.057/ 0.126	RSB2A080BDPV (RSB2A080BD + RSZE1S48M + RSZR215 + RZM031RB + RSZL300)	0.057/ 0.126
24 \sim	RSB1A120B7PV (RSB1A120B7 + RSZE1S35M + RSZR215 + RZM021RB + RSZL300)	0.050/ 0.110	–	–	RSB2A080B7PV (RSB2A080B7 + RSZE1S48M + RSZR215 + RZM021RB + RSZL300)	0.057/ 0.126
120 \sim	RSB1A120F7PV (RSB1A120F7 + RSZE1S35M + RSZR215 + RZM021FP + RSZL300)	0.050/ 0.110	–	–	RSB2A080F7PV (RSB2A080F7 + RSZE1S48M + RSZR215 + RZM021FP + RSZL300)	0.057/ 0.126
220 \sim	–	–	–	–	RSB2A080M7PV (RSB2A080M7 + RSZE1S48M + RSZR215 + RZM021FP + RSZL300)	0.057/ 0.126
230 \sim	RSB1A120P7PV (RSB1A120P7 + RSZE1S35M + RSZR215 + RZM021FP + RSZL300)	0.050/ 0.110	RSB1A160P7PV (RSB1A160P7 + RSZE1S48M + RSZR215 + RZM021FP + RSZL300)	0.057/ 0.126	RSB2A080P7PV (RSB2A080P7 + RSZE1S48M + RSZR215 + RZM021FP + RSZL300)	0.057/ 0.126



RSB1A120JD + RZM031RB + RSZE1S35M



RSB1A160JD + RSZE1S48M



RSZE05P

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)			Unit reference	Weight kg/lb
	1 CO - 12 A	1 CO - 16 A	2 CO - 8 A		
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 ~	12A	RSB1A120●●	10	RSZE1S35M	0.060/0.132
	10A (1)	RSB1A160●● (2) RSB2A080●●	10	RSZE1S48M	0.050/0.110

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

Rated insulation voltage	Thermal current (Ith)	Relay type	Sold in lots of	Unit reference	Weight kg/lb
250 V ~	12A	RSB1A●●●●●	10	RSZE05P	0.037/0.082
	10A	RSB2A●●●●●	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
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 RSB1A160●● can be used up to 16 A. See "Wiring diagrams" on www.se.com/harmonyelectromechanicalrelays

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



RSZR215

Legend	All sockets	10	RSZL300	0.001/0.002
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RGZS08

Bus jumper (10 x 8-pole jumper)	For inputs (A1, A2) of RSZE screw sockets (RSZE1S35M, RSZE1S48M)	10	RGZS08	0.006/0.013
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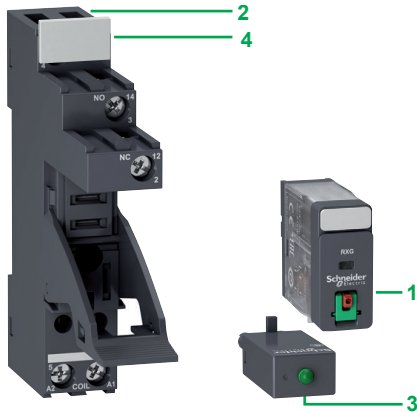
RSZS02

Bus jumper (10 x 2-pole jumper)	For input (A2) of RSZE push-in sockets (RSZE05P, RSZE08P)	10	RSZS02	0.002/0.004
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Harmony Electromechanical Relays

Plug-in relays

RXG interface relays



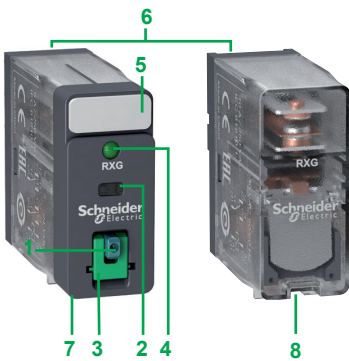
Presentation of the range

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:

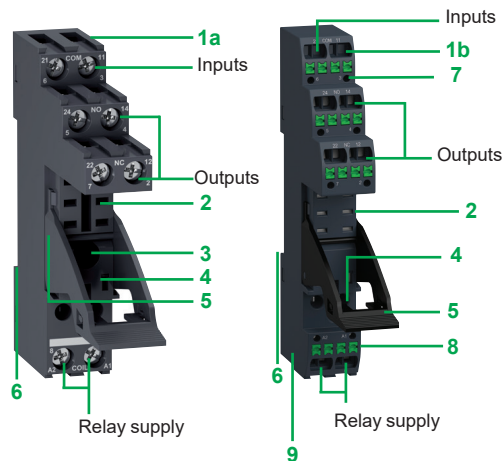
- 10 A relays with 1 CO contact and 5 A relays with 2 CO contacts
- Sockets with separate or mixed contact terminals, built-in plastic maintaining clamp
- Protection modules (diode, diode + LED, RC circuit, or varistor + LED) for RXG separate sockets
- Clip-in legends for RXG separate sockets

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



Relay description

- Spring-return pushbutton for testing the contacts (green: $\overline{\text{---}}$, red: \sim)
- Mechanical "relay status" indicator
- Removable lock-down door enabling forced maintaining of the contacts for test sequences or maintenance purposes
- LED (depending on version) indicating the relay status
- Removable legend for relay identification
- 5 or 8 Faston type pins
- Standard cover-type relay with pushbutton, mechanical indicator, and LED options
- Clear cover-type relay



Socket description

Sockets with separate contact terminals (1)

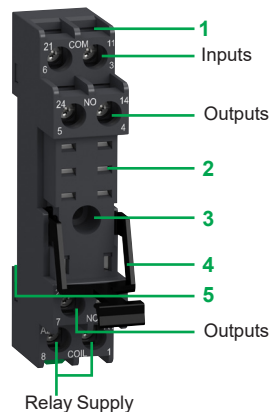
- a Connection by screw connector
b Connection by push-in terminal
- 5 or 8 female contacts for the relay pins
- Hole for panel mounting
- Location for protection modules
- Built-in plastic maintaining clamp for locking components
- Locating slot for mounting on DIN rail
- Test point
- Push button to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

Sockets with mixed contact terminals (2)

- Connection by screw clamp
- 5 or 8 female contacts for the relay pins
- Hole for panel mounting
- Built-in plastic maintaining clamp for locking components
- 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.





Pre-assembled interface relays

Relays with lockable test button and LED, mounted on sockets with protection module and integrated clamp

Control circuit voltage V	Sold in lots of	Number and type of contacts - Thermal current (Ith)			
		1 CO - 10 A		2 CO - 5 A	
		Unit reference	Weight kg/lb	Unit reference	Weight kg/lb
24 $\overline{\text{---}}$	30	RXG12BDPV (RXG12BD + RGZE1S35M + RZM031RB)	0.059/0.130	RXG22BDPV (RXG22BD + RGZE1S48M + RZM031RB)	0.066/0.145
24 \sim	30	RXG12B7PV (RXG12B7 + RGZE1S35M + RZM021RB)	0.059/0.130	RXG22B7PV (RXG22B7 + RGZE1S48M + RZM021RB)	0.067/0.148
230 \sim	30	RXG12P7PV (RXG12P7 + RGZE1S35M + RZM021FP)	0.059/0.130	RXG22P7PV (RXG22P7 + RGZE1S48M + RZM021FP)	0.067/0.148

Relays with LED, mounted on sockets with protection module, and integrated clamp

24 $\overline{\text{---}}$	30	RXG13BDPV (RXG13BD + RGZE1S35M + RZM031RB)	0.058/0.129	RXG23BDPV (RXG23BD + RGZE1S48M + RZM031RB)	0.066/0.145
230 \sim	30	RXG13P7PV (RXG13P7 + RGZE1S35M + RZM021FP)	0.059/0.130	RXG23P7PV (RXG23P7 + RGZE1S48M + RZM021FP)	0.067/0.148

Relays with lockable test button and without LED, mounted on sockets with protection module, and integrated clamp

24 $\overline{\text{---}}$	30			RXG21BDPV (RXG21BD + RGZE1S48M + RZM031RB)	0.067/0.148
24 \sim	30			RXG21B7PV (RXG21B7 + RGZE1S48M + RZM021RB)	0.067/0.148
230 \sim	30			RXG21P7PV (RXG21P7 + RGZE1S48M + RZM021FP)	0.067/0.148



Interface relays for customer assembly

Standard cover relays with lockable test button

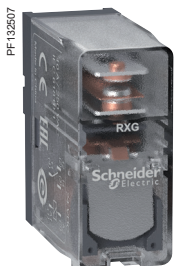
6 $\overline{\text{---}}$	10	–		RXG21RD	0.020/0.044
12 $\overline{\text{---}}$	10	RXG11JD		RXG21JD	0.020/0.044
24 $\overline{\text{---}}$	10	RXG11BD		RXG21BD	0.020/0.044
24 \sim	10	RXG11B7		RXG21B7	0.020/0.044
48 \sim	10	–		RXG21E7	0.020/0.044
120 \sim	10	RXG11F7		RXG21F7	0.020/0.044
220 \sim	10	–		RXG21M7	0.020/0.044
230 \sim	10	RXG11P7		RXG21P7	0.020/0.044



RXG22B7



RXG13BD



RXG15BD

Interface relays for customer assembly

Standard cover relays with lockable test button and LED

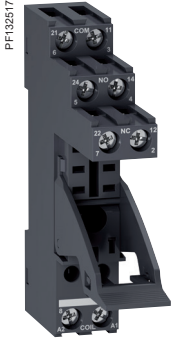
Control circuit voltage V	Sold in lots of	Number and type of contacts - Thermal current (Ith)		Weight kg/lb
		1 CO - 10 A	2 CO - 5 A	
		Unit reference	Unit reference	
6 ---	10	RXG12RD	–	0.020/0.044
12 ---	10	RXG12JD	RXG22JD	0.020/0.044
24 ---	10	RXG12BD	RXG22BD	0.020/0.044
48 ---	10	RXG12ED	RXG22ED	0.020/0.044
110 ---	10	RXG12FD	RXG22FD	0.020/0.044
24 ~	10	RXG12B7	RXG22B7	0.020/0.044
48 ~	10	RXG12E7	RXG22E7	0.020/0.044
120 ~	10	RXG12F7	RXG22F7	0.020/0.044
220 ~	10	–	RXG22M7	0.020/0.044
230 ~	10	RXG12P7	RXG22P7	0.020/0.044

Standard cover relays with LED

12 ---	10	RXG13JD	–	0.020/0.044
24 ---	10	RXG13BD	RXG23BD	0.020/0.044
24 ~	10	RXG13B7	RXG23B7	0.020/0.044
48 ~	10	–	RXG23E7	0.020/0.044
120 ~	10	RXG13F7	RXG23F7	0.020/0.044
220 ~	10	–	RXG23M7	0.020/0.044
230 ~	10	RXG13P7	RXG23P7	0.020/0.044

Clear cover relays

12 ---	10	RXG15JD	–	0.019/0.042
24 ---	10	RXG15BD	RXG25BD	0.019/0.042
24 ~	10	–	RXG25B7	0.018/0.040
120 ~	10	RXG15F7	RXG25F7	0.018/0.040
220 ~	10	–	RXG25M7	0.018/0.040
230 ~	10	RXG15P7	RXG25P7	0.018/0.040



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 kg/lb
1 CO socket with 1 pole	10 A	RXG1●●●	10	RGZE1S35M	0.034/0.075
2 CO socket with 2 poles	5 A	RXG2●●●	10	RGZE1S48M	0.042/0.093

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

Description	Thermal current (Ith)	Relay type	Sold in lots of	Unit reference	Weight kg/lb
1 CO socket with 1 pole	10 A	RXG1●●●	10	RGZE05P	0.039/0.086
2 CO socket with 2 poles	5 A	RXG2●●●	10	RGZE08P	0.042/0.093

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

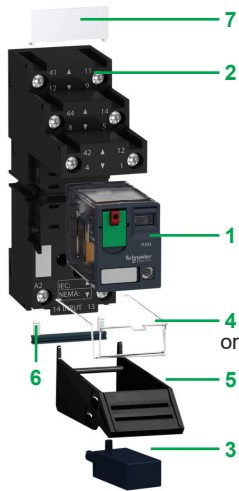
1 CO socket with 1 pole	10 A	RXG1●●●	10	RGZE05E	0.024/0.053
2 CO socket with 2 poles	5 A	RXG2●●●	10	RGZE08E	0.026/0.057

Protection modules

Description	For use with	Voltage V	Sold in lots of	Unit reference	Weight kg/lb
Diode	All separate sockets	6...230 ---	10	RZM040W	0.003/0.007
RC circuit	All separate sockets	24...60 ~	10	RZM041BN7	0.010/0.022
		110...240 ~	10	RZM041FU7	0.010/0.022
Diode + green LED	All separate 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 separate 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

Accessories

Description	For use with	Sold in lots of	Unit reference	Weight kg/lb
Plastic maintaining clamp	All separate sockets	10	RGZR215	0.002/0.004
Legend	All separate sockets	10	RSZL300	0.001/0.002
Clip-in legends (sheet of 16 legends)	All relays	10	RGZL520	0.001/0.002
Bus jumper (10 x 8-pole jumper)	For inputs (A1, A2) of RGZE screw sockets (RGZE1S35M, RGZE1S48M)	10	RGZS08	0.006/0.013
Bus jumper (10 x 2-pole jumper)	For input (A2) of RGZE push-in sockets (RGZE05P, RGZE08P)	10	RSZS02	0.002/0.004

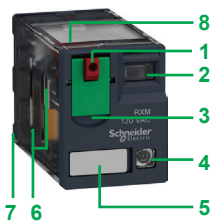


Presentation of the range

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**

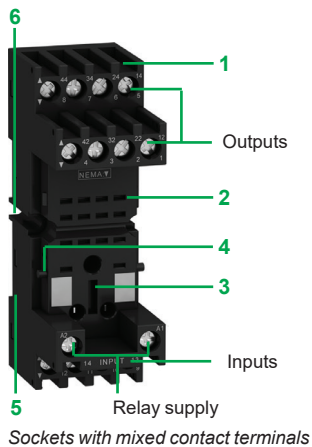
These relays are available in both pre-assembled (single reference) and customer assembled offers.



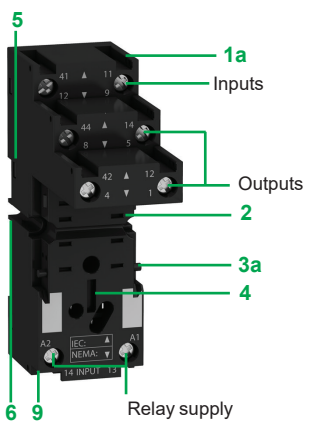
Relay description

- 1 Spring-return pushbutton for testing the contacts (green: $\overline{\text{---}}$, red: \sim)
- 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 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

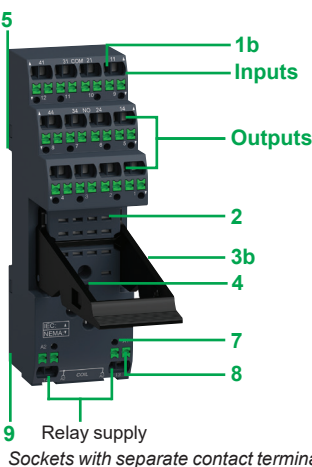




Sockets with mixed contact terminals



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

Sockets with separate contact terminals (2)

- 1 a Connection by screw connector
b Connection by push in terminal
- 2 8, 11, or 14 female contacts for the relay pins
- 3 a Locking components for plastic and metal maintaining clamps
b 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

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

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



Pre-assembled interface relays						
Relays without LED, mounted on sockets with clamp and socket legend (sold in lots of 30)						
Control circuit voltage V	Type of socket	Number and type of contacts - Thermal current (Ith)				Weight kg/lb
		2 CO - 10 A	4 CO - 6 A	Unit reference	Unit reference	
24 ~	Mixed terminal socket	-	-	RXM4AB1BDPVM (RXM4AB1BD + RXZE2M114M + RXZR335 + RXZL520)	0.099/ 0.218	0.099/ 0.218
24 ~		-	-	RXM4AB1B7PVM (RXM4AB1B7 + RXZE2M114M + RXZR335 + RXZL520)	0.099/ 0.218	0.099/ 0.218
230 ~		-	-	RXM4AB1P7PVM (RXM4AB1P7 + RXZE2M114M + RXZR335 + RXZL520)	0.099/ 0.218	0.099/ 0.218
24 ~	Separate terminal socket	-	-	RXM4AB1BDPVS (RXM4AB1BD + RXZE2S114M + RXZR335 + RXZL520)	0.113/ 0.249	0.113/ 0.249
24 ~		-	-	RXM4AB1B7PVS (RXM4AB1B7 + RXZE2S114M + RXZR335 + RXZL520)	0.113/ 0.249	0.113/ 0.249
230 ~		-	-	RXM4AB1P7PVS (RXM4AB1P7 + RXZE2S114M + RXZR335 + RXZL520)	0.113/ 0.249	0.113/ 0.249
Relays with LED, mounted on sockets with clamp and socket legend (sold in lots of 30)						
24 ~	Mixed terminal socket	RXM2AB2BDPVM (RXM2AB2BD + RXZE2M114M + RXZR335 + RXZL520)	0.099/ 0.218	RXM4AB2BDPVM (RXM4AB2BD + RXZE2M114M + RXZR335 + RXZL520)	0.099/ 0.218	0.099/ 0.218
24 ~		RXM2AB2B7PVM (RXM2AB2B7 + RXZE2M114M + RXZR335 + RXZL520)	0.099/ 0.218	RXM4AB2B7PVM (RXM4AB2B7 + RXZE2M114M + RXZR335 + RXZL520)	0.099/ 0.218	0.099/ 0.218
230 ~		RXM2AB2P7PVM (RXM2AB2P7 + RXZE2M114M + RXZR335 + RXZL520)	0.099/ 0.218	RXM4AB2P7PVM (RXM4AB2P7 + RXZE2M114M + RXZR335 + RXZL520)	0.099/ 0.218	0.099/ 0.218
24 ~	Separate terminal socket	RXM2AB2BDPVS (RXM2AB2BD + RXZE2S108M + RXZR335 + RXZL520)	0.101/ 0.223	RXM4AB2BDPVS (RXM4AB2BD + RXZE2S114M + RXZR335 + RXZL520)	0.113/ 0.249	0.113/ 0.249
24 ~		RXM2AB2B7PVS (RXM2AB2B7 + RXZE2S108M + RXZR335 + RXZL520)	0.101/ 0.223	RXM4AB2B7PVS (RXM4AB2B7 + RXZE2S114M + RXZR335 + RXZL520)	0.113/ 0.249	0.113/ 0.249
230 ~		RXM2AB2P7PVS (RXM2AB2P7 + RXZE2S108M + RXZR335 + RXZL520)	0.101/ 0.223	RXM4AB2P7PVS (RXM4AB2P7 + RXZE2S114M + RXZR335 + RXZL520)	0.113/ 0.249	0.113/ 0.249



RXM2AB1BD



RXM2AB1F7



RXM2AB2ED



RXM2AB2F7



RXM4GB1BD



RXM4GB1P7



RXM4GB2BD



RXM4GB2F7

Miniature relays for customer assembly

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

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
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

RXM miniature relays with low level contacts, without LED (sold in lots of 10)

Control circuit voltage V	Number and type of contacts Thermal current (Ith)	
	Unit reference	Weight kg/lb
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)

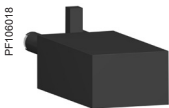
12 ---	RXM4GB2JD	0.037/0.082
24 ---	RXM4GB2BD	0.037/0.082
48 ---	RXM4GB2ED	0.037/0.082
125 ---	RXM4GB2GD	0.037/0.082
220 ---	RXM4GB2MD	0.037/0.082
24 ~	RXM4GB2B7	0.037/0.082
48 ~	RXM4GB2E7	0.037/0.082
120 ~	RXM4GB2F7	0.037/0.082
230 ~	RXM4GB2P7	0.037/0.082
240 ~	RXM4GB2U7	0.037/0.082



RXZE2M114M



RXZE14P



RXM04177

Sockets					
Contact terminal arrangement	Connection	Relay type	Sold in lots of	Unit reference	Weight kg/lb
Mixed	Screw clamp	RXM2●●●●● (3) RXM4●●●●●	10	RXZE2M114 (1)	0.048/0.106
	Screw connector	RXM2●●●●● (3) RXM4●●●●●	10	RXZE2M114M (1)	0.056/0.124
Separate	Push-in terminal	RXM2●●●●● RXM4●●●●●	10	RXZE14P	0.080/0.176
	Screw connector	RXM2●●●●●	10	RXZE2S108M (2)	0.058/0.128
		RXM3●●●●●	10	RXZE2S111M (1)	0.066/0.146
		RXM4●●●●●	10	RXZE2S114M (1)	0.070/0.154

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●● (4)	-
		REXL4●● (4)	-

(1) Thermal current (I_{th}): 10 A.
 (2) Thermal current (I_{th}): 12 A.
 (3) When mounting relay RXM2●●●●● on socket RXZE2M●●●●●, the thermal current should not exceed 10 A.
 (4) Please refer to "Harmony Timer Relays" catalog.
 (5) Test button becomes inaccessible.



REXL4●●



RXZR315



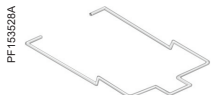
RXZS2



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 (10 x 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

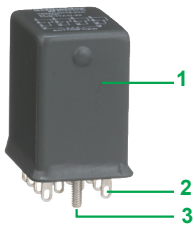
(1) Thermal current (lth): 10 A.

(2) Thermal current (lth): 12 A.

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

(4) Please refer to "Harmony Timer Relays" catalog.

(5) Test button becomes inaccessible.



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 mines and minerals sectors.

782H hermetically sealed relays comprise:

- Relays with 3 A/5 A, 2 CO/4 CO contacts
- Sockets with multiple configuration, 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.

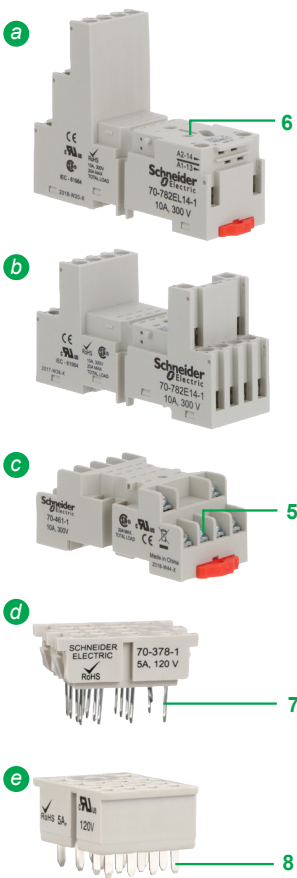
Description

Relay

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

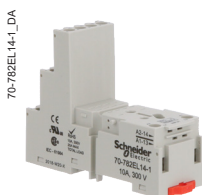
Socket

- 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





782DXH21-12D



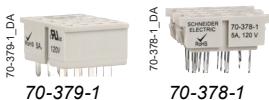
70-782EL14-1



70-782E14-1

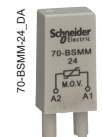


70-461-1



70-379-1

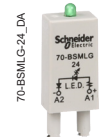
70-378-1



70-BSMM-24



70-BSMD-250



70-BSMLG-24



16-1342



RXZS2

Plug-in relays

782H hermetically sealed relays (sold in lots of 10)

Coil voltage V	Contact type - 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	782XBXH21-24D	0.045/0.099
48 ∴	-	-	782DXH21-48D	0.045/0.099	-	-
110 ∴	782DXH10-110D	0.045/0.099	-	-	-	-

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
	Screw connector		RXZE2M114M (1) 70-782E14-1		0.06/0.132
	Screw clamp terminals		70-461-1		0.044/0.097
Separate	Screw connector		RXZE2S114M (1) 70-782EL14-1		0.06/0.132
	Solder terminals	Chasis	70-378-1		0.007/0.015
	Printed circuit terminals	PCB	70-379-1		0.007/0.015

Protection modules

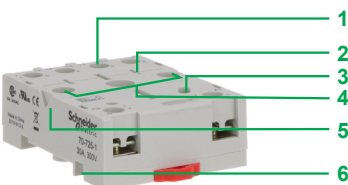
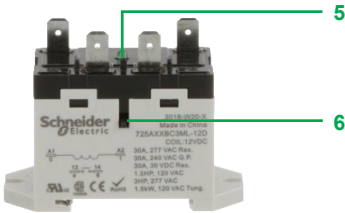
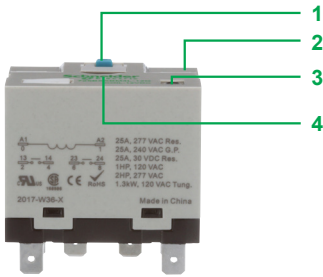
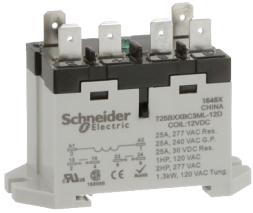
Description	For use with sockets	Coil voltage	Unit reference	Sold in lots of	Weight Kg/lb
Diode	70-782EL14-1, 70-782E14-1	6 to 250 ∴	70-BSMD-250	10	-
MOV suppressor		24 ~	70-BSMM-24		-
		120 ~	70-BSMM-120		-
		240 ~	70-BSMM-240		-
LED indicator		24 ~	70-BSMLG-24		-

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		-
Insulated coil bus jumper system	70-782EL14-1	RXZS2		-

(1) 782H relays are:

- UL Recognized when used with RXZE sockets
- UL Listed when used with 70-782 sockets



Presentation of the range

The 725 series are power relays 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: ∴; red: ∽)
- 2 Mechanical “relay status” indicator
- 3 LED indicating the relay status
- 4 Lock-down door enabling forced maintaining 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_DA



725AXXBC3ML-12D

725AXXSC3ML-12D_FRONT



725AXXSC3ML-12D

725BXXBM4L-12D_FRONT



725BXXBM4L-12D

70-725-1_DA



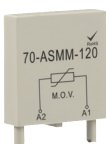
70-725-1

70ASMD-250_FRONT



70-ASMD-250

70ASMM-120_DA



70-ASMM-120

16-725SC-1_DA



16-725SC-1

Power relays

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

Coil voltage	Terminal style	Contact type - (Thermal current (Ith))			
		2 NO - 25 A		1 NO - 30 A	
V		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

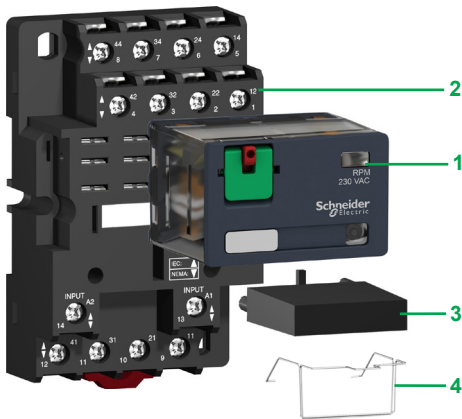
Socket modules

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

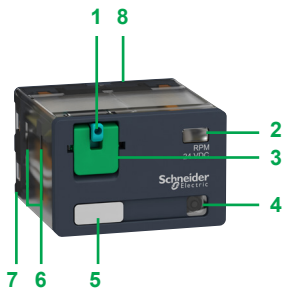
Description	For use with sockets	Sold in lots of	Unit reference	Weight Kg/lb
Spring clip	70-725-1	10	16-725SC-1	-



Presentation of the range

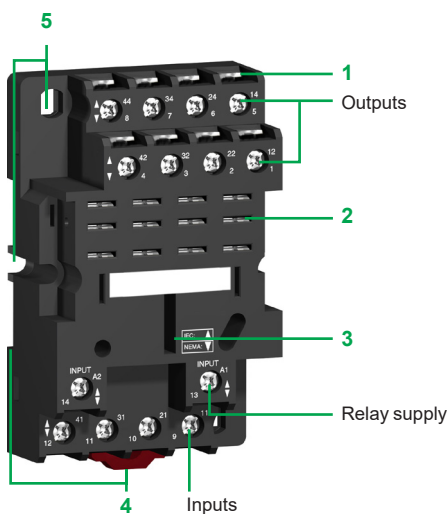
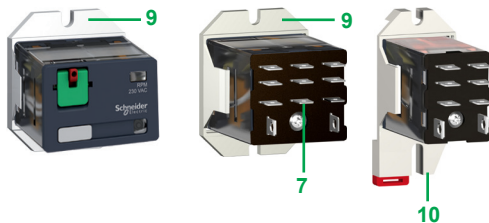
The RPM power relay range comprises:

- 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 single-contact relays



Relay description

- 1 Spring-return pushbutton for testing the contacts (green: $\overline{\text{---}}$, red: \sim)
- 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 4 notches for rail mounting adapter or panel mounting adapter with mounting lugs
- 7 5, 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 \perp 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 protection modules or the timer module
- 4 Locating slot for mounting on rail with 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

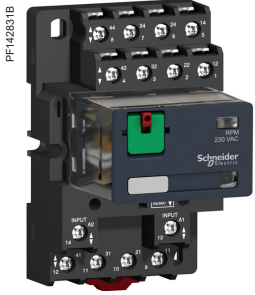
Power relays for customer assembly

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



RUW24

Sockets					
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
	110...240 ~	RPZF3 RPZF4	10	RUW241P7	0.004/0.009
		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

Timer module (1)					
Description	Voltage V	Socket type	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.

Accessories

Description	For use with	Sold in lots of	Unit reference	Weight kg/lb
Metal maintaining clamp (for single-pole relays)	RPZF1	10	RPZR235	0.001/0.002
Mounting adapters for \perp 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) Test button becomes inaccessible.

PF 120922



RPZ4DA

PF 120923



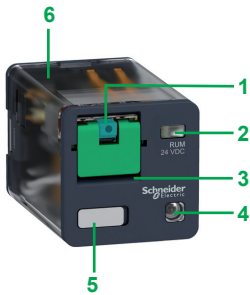
RPZ1FA



Presentation of the range

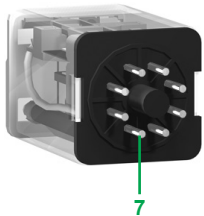
The RUM universal relay range comprises:

- 1 10 A 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

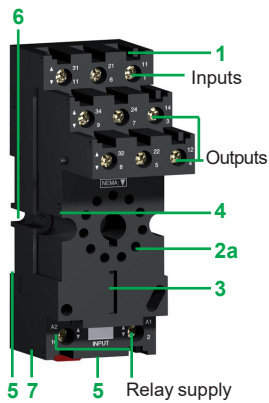


Relay description

- 1 Spring-return pushbutton for testing the contacts (green: $\overline{\text{---}}$, red: \sim)
- 2 Mechanical "relay status" indicator
- 3 Removable lock-down door enabling forced maintaining 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 Area by which the product can be easily gripped
- 7 8 or 11 cylindrical pins
- 8 8 or 11 flat (Faston type) pins



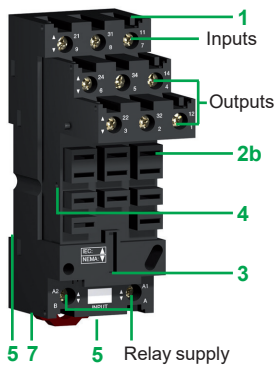
(1) During operation, this lock-down door must always be in the closed position.



Socket description

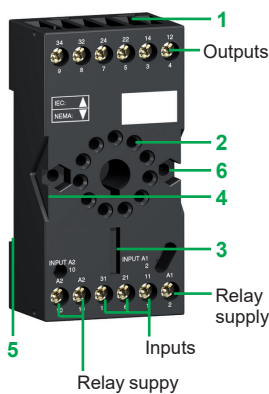
Sockets with separate contact terminals (1)

- 1 Connection by screw connector
- 2 a 8 or 11 female contacts for the relay cylindrical pins
b 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)

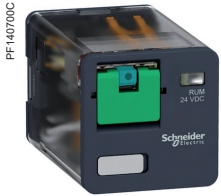


Sockets with mixed contact terminals

- 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



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



RUMC21BD



RUMC21F7



RUMC32BD



RUMF32F7

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)		3 CO - 10 A	
		2 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)	≡ 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)

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

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

PF140733B

RUZSC3M +
Relay RUMC3●●●

PF108027



RUW241P7

PF516229



RUW101MW

DF538485



RUZC200

DF535203



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●●●	10	RUZC3M	0.054/0.119
Separate	Screw connector	RUMC2●●●	10	RUZSC2M	0.095/0.209
		RUMC3●●●	10	RUZSC3M	0.100/0.220
		RUMF2●●●	10	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	10	RUW241P7	0.004/0.009
Varistor	All RUM sockets	~ / — 24	10	RUW242B7	0.004/0.009
		~ / — 240	10	RUW242P7	0.004/0.009

Timer module

Description	For use with	Voltage V	Reference	Weight kg/lb
Multifunction	All RUM sockets	~ / — 24... 240	RUW101MW	0.020/0.044

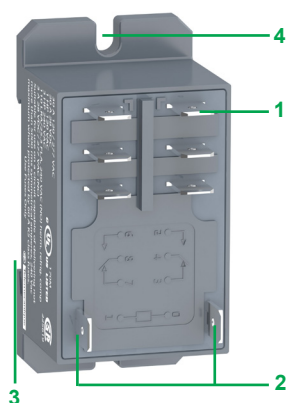
Timing relays

Description	For use with	Reference	Weight kg/lb
2 timed CO contacts (single-function or multifunction)	RUZC●M sockets	RE48A●● (1)	—

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	10	RUZS2	0.005/0.011
Clip-in legends	All relays (sheet of 108 legends)	10	RXZL520	0.086/0.190
	All RUM sockets with separate contacts	10	RUZL420	0.001/0.002

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



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

RPF2036/C



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) Unit reference	2 CO - 30 A (1) 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.

Harmony Electromechanical Relays

Interface, miniature and power electromechanical 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 not provided with a protective case
RT I	Dust protected relay	Relay 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 fluxes 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.

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 are used to 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

Diode protection module (with or without LED)

Advantages

- accumulation of energy allowing 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 varistor

Advantages

- can be used with \sim and --- supply
- voltage peak limited to about $2 U_n$
- little effect on relay drop-out time

Disadvantages

- no modification of coil's own oscillating frequency
- limitation of switching frequency

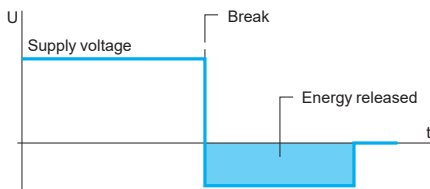
Protection module with RC circuit

Advantages

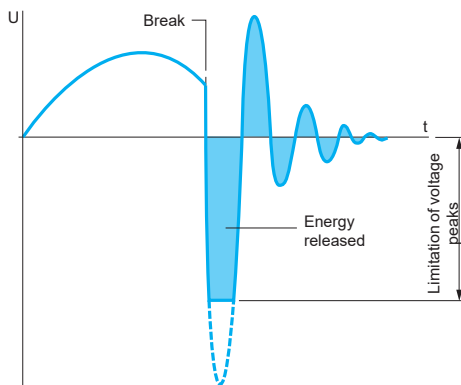
- coil oscillating frequency reduced to about 150 Hz
- voltage peak limited to $3 U_n$
- little effect on relay drop-out time

Disadvantages

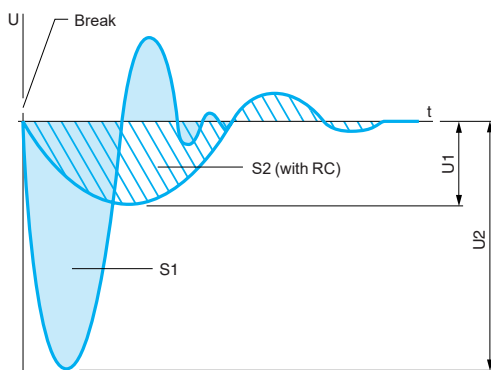
- no protection for low voltages



Coil voltage with diode protection module (--- only)



Coil voltage with varistor protection module (\sim and ---)



Coil voltage with RC circuit protection module (\sim only)

S1 = S2 = Energy released

RUZL420	37	RXG23P7	18	RXM4AB1ED	23	RZM021FP	14
RUZS2	37	RXG23P7PV	17	RXM4AB1F7	23		19
RUZSC2M	37	RXG25B7	18	RXM4AB1FD	23	RZM021RB	14
RUZSC3M	37	RXG25BD	18	RXM4AB1JD	23		19
RUZSF3M	37	RXG25F7	18	RXM4AB1MD	23	RZM031BN	14
RXG11B7	17	RXG25M7	18	RXM4AB1P7	23		19
RXG11BD	17	RXG25P7	18	RXM4AB1P7PVM	22	RZM031FPD	14
RXG11F7	17	RXM021BN	24	RXM4AB1P7PVS	22		19
RXG11JD	17		32	RXM4AB1U7	23	RZM031RB	14
RXG11P7	17	RXM021FP	24	RXM4AB2B7	23		19
RXG12B7	18		32	RXM4AB2B7PVM	22	RZM040W	14
RXG12B7PV	17	RXM021RB	24	RXM4AB2B7PVS	22		19
RXG12BD	18		32	RXM4AB2BD	23	RZM041BN7	14
RXG12BDPV	17	RXM040W	24	RXM4AB2BDPVM	22		19
RXG12E7	18		32	RXM4AB2BDPV	22	RZM041FU7	14
RXG12ED	18	RXM041BN7	24	RXM4AB2ED	23		19
RXG12F7	18		32	RXM4AB2E7	23		
RXG12FD	18	RXM041FU7	24	RXM4AB2ED	23		
RXG12JD	18		32	RXM4AB2F7	23		
RXG12P7	18	RXM2AB1B7	23	RXM4AB2FD	23		
RXG12P7PV	17	RXM2AB1BD	23	RXM4AB2GD	23		
RXG12RD	18	RXM2AB1E7	23	RXM4AB2JD	23		
RXG13B7	18	RXM2AB1ED	23	RXM4AB2P7	23		
RXG13BD	18	RXM2AB1F7	23	RXM4AB2P7PVM	22		
RXG13BDPV	17	RXM2AB1FD	23	RXM4AB2P7PVS	22		
RXG13F7	18	RXM2AB1JD	23	RXM4GB1B7	23		
RXG13JD	18	RXM2AB1P7	23	RXM4GB1BD	23		
RXG13P7	18	RXM2AB2B7	23	RXM4GB1E7	23		
RXG13P7PV	17	RXM2AB2B7PVM	22	RXM4GB1F7	23		
RXG15BD	18	RXM2AB2B7PVS	22	RXM4GB1JD	23		
RXG15F7	18	RXM2AB2BD	23	RXM4GB1P7	23		
RXG15JD	18	RXM2AB2BDPVM	22	RXM4GB2B7	23		
RXG15P7	18	RXM2AB2BDPVS	22	RXM4GB2BD	23		
RXG21B7	17	RXM2AB2E7	23	RXM4GB2ED	23		
RXG21B7PV	17	RXM2AB2ED	23	RXM4GB2E7	23		
RXG21BD	17	RXM2AB2F7	23	RXM4GB2ED	23		
RXG21BDPV	17	RXM2AB2FD	23	RXM4GB2F7	23		
RXG21E7	17	RXM2AB2JD	23	RXM4GB2GD	23		
RXG21F7	17	RXM2AB2JD	23	RXM4GB2MD	23		
RXG21JD	17	RXM2AB2P7	23	RXM4GB2JD	23		
RXG21M7	17	RXM2AB2P7PVM	22	RXM4GB2MD	23		
RXG21P7	17	RXM2AB2P7PVS	22	RXM4GB2P7	23		
RXG21P7PV	17	RXM2AB2P7PVS	22	RXM4GB2U7	23		
RXG21RD	17	RXM3AB1B7	23	RXZ400	25		
RXG22B7	18	RXM3AB1BD	23	RXZE14P	24		
RXG22B7PV	17	RXM3AB1E7	23	RXZE2FA	25		
RXG22BD	18	RXM3AB1ED	23	RXZE2FA	33		
RXG22BDPV	17	RXM3AB1F7	23	RXZE2M114	24		
RXG22E7	18	RXM3AB1FD	23		27		
RXG22ED	18	RXM3AB1JD	23	RXZE2M114M	24		
RXG22F7	18	RXM3AB1P7	23		27		
RXG22FD	18	RXM3AB2B7	23	RXZE2S108M	24		
RXG22JD	18	RXM3AB2BD	23	RXZE2S111M	24		
RXG22M7	18	RXM3AB2E7	23	RXZE2S114M	24		
RXG22P7	18	RXM3AB2F7	23		27		
RXG22P7PV	17	RXM3AB2FD	23	RXZL300	25		
RXG23B7	18	RXM3AB2JD	23	RXZL420	25		
RXG23BD	18	RXM3AB2P7	23		27		
RXG23BDPV	17	RXM4AB1B7	23	RXZL520	25		
RXG23E7	18	RXM4AB1B7PVM	22		33		
RXG23F7	18	RXM4AB1B7PVS	22	RXZR315	25		
RXG23M7	18	RXM4AB1BD	23	RXZR335	25		
		RXM4AB1BDPVM	22	RXZS2	27		
		RXM4AB1BDPVS	22	RXZS2	25		
		RXM4AB1E7	23	RZM021BN	14		
					19		