

Electromechanical and solid-state relays Zelio Relay

Catalog

February 2013





Reduce the size of your enclosures and, at the same time, increase machine reliability

The new Zelio Relay items



> Electromechanical relays RSL

Only 6 mm wide, thus saving considerable space in your enclosures



6 mm wide

> Solid-state relays SSR

Unlimited service life provided by electronic technology



Unlimited service life

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Make the most of your energy





Choose compactness with Zelio Relay RSL

Only 6 mm

wide, thus reducing the size
of your enclosures

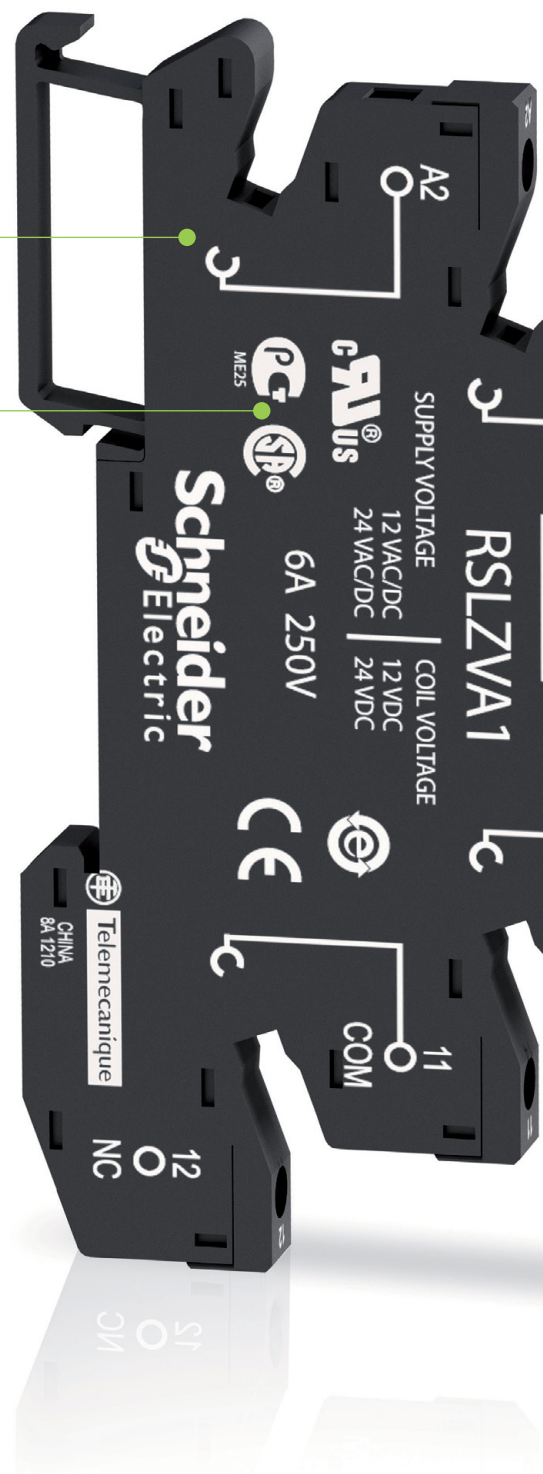
> A solution for any application

A complete offer

- An offer with maximum flexibility, comprising:
 - complete products: a single reference for a relay mounted on a socket,
 - products for customer assembly: select the relay and associated socket according to your application.
- Wide choice of sockets available covering a range of voltages from 12 to 230 V.

An offer that meets the most demanding standards

- Conformity with the European RoHS (Restriction of Hazardous Substances) directive.
- Conformity to international standards IEC/EN 61810-1, UL508, CSA C22.2 N°14, GOST.



100% RoHS

Schneider Electric commits itself
to reducing the environmental
impact of its products

> Reliability in any situation

Protection integrated in the socket

The assurance of reliable protection of the relay irrespective of the supply voltage used.

LED indicator

Power on and relay status LED indicator.



«Standard» and «low level» version relays

For high breaking capacity or low level current application requirements.

Up to 6A
breaking capacity



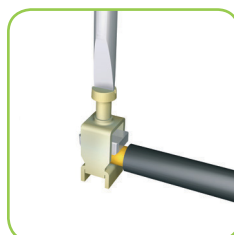
> Simplicity of installation and cabling

Simple maintaining of relay in socket and its release/removal
Using locking/unlocking lever.

Simplification of cabling
Commoning link available as accessory.

Simple mounting on DIN rail

Choice of 2 connection techniques
Suitable for the majority of your applications.



Screw connector



Spring terminal



Choose long life and silent operation with Zelio Relay SSR

> Heat exchange guaranteed

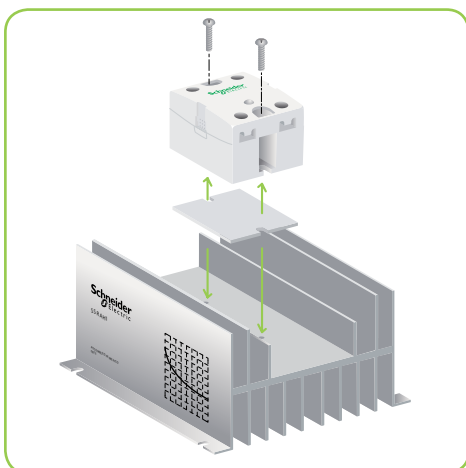
The new solid-state relays SSR with SCR (Semiconductor Controlled Rectifier) outputs offer you two alternatives:

SSRD range

Directly mounted with heat sink to provide heat exchange, they are easily mounted by clipping directly onto DIN rail and can also be panel mounted.

SSRP range

Panel mounted, either on their own or combined with a heat sink for applications requiring considerable heat exchange.

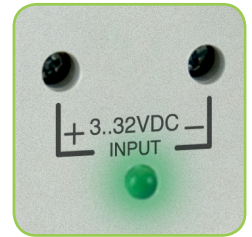


SSRP relay mounted on heat sink with thermal interface



> Distinctive indication

A green LED on the front face of the products provides instant indication of the relay input status.



> High performance

High breaking capacities

- From 10 to 125 A for relays SSRP
- From 10 to 45 A for relays SSRD

Wide supply voltage range

- From 3 to 32 VDC and 90 to 280 VAC

Outputs suited to applications

- From 24 to 280 VAC and 48 to 530/660 VAC

Extreme compactness

- Only 22.5 mm and up to 45.5 mm wide

Unlimited service life

- No preventive maintenance, relays SSR have a unlimited service life

Silence of electronic technology

- Complete silence when switching

Insensitive to vibration

- Even in the event of excessive vibration, the relay will not change state

Unlimited service life

due to electronic relay technology

Complete silence when switching

providing suitability for building and hospital applications

High switching frequency

particularly on packaging and textile machines

> Conformity to international standards

**100%
RoHS**

Schneider Electric commits itself to reducing the environmental impact of its products

**Up
to 6A**
breaking capacity



Panorama Zelio Relay

Electromechanical relays



Number of contacts	1 C/O	1 or 2 C/O	2, 3 or 4 C/O	2, 3 or 4 C/O	1, 2, 3 or 4 C/O
Current	6 A	8-12-16 A	6-10-12 A	10 A	15 A
Mounting	Plugs into socket				
References	RSL	RSB	RXM	RUM	RPM
Pages	14 to 15	16 to 17	18 to 21	22 to 25	26 to 29

Electromechanical relay advantages

- Wide choice of number of contacts (up to 4)
- Easy installation and maintenance:
 - Plug-in relay for socket mounting (universal format)
 - Contact status mechanical indicator and “Relay On” LED indicator
 - Lockable “Test” button for testing relay operation
- Electrically separated inputs and outputs, allowing different voltages

Solid-state relays



2 C/O or 2 N/O

1 or 2 C/O

30 A

5-12 A

On DIN rail or on panel

On DIN rail

RPF

ABR

30 to 31

34 to 39

1 N/O

1 N/O

1 N/O

3 A

10 ...45 A

10 ...125 A

On DIN rail

On DIN rail

On panel

ABS

SSRD

SSRP

40 to 41

42 to 45

42 to 45

Solid-state relay (SSR) advantages

- Unlimited service life
- Wide supply voltage range and high breaking current (up to 125 A), suited to packaging and textile machines
- “Relay On” LED indicator
- Completely silent switching, providing suitability for building and hospital applications
- Insensitive to vibration

Type of products	Plug-in relays
	Slim interface relays



Number and type of contacts / conventional thermal current (Ith on N/O contact)	1 C/O / 6 A
Control circuit voltage	No
	12...60 V
Type of pins	Flat (PCB type, reinforced)
Operational voltage	Up to ~ 400 V / ~ 300 V
Durability (operating cycles per hour)	60 000
	10 000 000
Functions	LED
	Mechanical indicator
	Lockable test button
	Contact type
Type references	RSL1●B4●D (1) (2)
Pages	15
Type of products	Associated socket types
	Sockets with LED and protection circuit



Contact terminal arrangements	Separate
Connection	Screw connector
	Spring terminals
Accessories	No
Protection modules	No
Timer module	No
Maintaining clamps	No
Socket identification legend	Yes
Mounting adapters for rail	No
Mounting adapters with fixing lugs	No
Bus jumper	Yes, 20-pole
Conventional thermal current (Ith)	6 A
	6 A
Type references	RSLZV●● (1)
	RSLZR●● (2)
Pages	15
	15

(1) Pre-assembled Slim interface relays RSL1PV●● (standard type relay + socket) are also available.

(2) Pre-assembled Slim interface relays RSL1PR●● (standard type relay + socket) are also available.

New



More technical information on www.schneider-electric.com

Plug-in relays

Interface relays

Miniature relays



1 C/O / 16 A 1 C/O / 12 A 2 C/O / 8 A	2 C/O / 12 A 3 C/O / 10 A 4 C/O / 6 A 4 C/O / 3 A (low level)
24...240 V	24...240 V
6...110 V	12...220 V
Flat (Faston type)	Flat (Faston type)
Up to ~ 400 V / ~ 300 V	Up to 250 V
100 000	100,000
30 000 000	10,000,000
Yes (with protection modules)	Yes (depending on version)
No	Yes
No	Yes
No	Low level (depending on version)
RSB	RXM
17	19

Associated socket types

—



Separate		Mixed		Separate	
Screw connector		Screw connector	Screw clamp terminals	Screw connector	Spring clamp terminals
Yes		Yes		Yes	
No		No		No	
Yes		Yes		Yes	
Yes		Yes	No	Yes	
No		Yes		Yes	
No		Yes		Yes	
No		No		Yes, 2-pole (I _{th} = 5 A)	No
12 A	((2 terminals) × 10 A) (3)	10 A	10 A	12 A for 2 C/O (4) 6 A for 4 C/O	12 A for 2 C/O 6 A for 4 C/O
RSZE1S35M	RSZE1S48M	RXZE2M114M	RXZE2M114	RXZE2S114M	RXZE2S114S
17	17	21	21	21	21

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

(4) Except for sockets RXZE2S11●M: 10 A.



More technical information on www.schneider-electric.com

Type of products		Plug-in relays	
		Universal relays	
			
Number and type of contacts / conventional thermal current (Ith on N/O contact)		2 C/O / 10 A 3 C/O / 10 A	2 C/O / 10 A 3 C/O / 10 A
Control circuit voltage	~	24...230 V	
	—	12...220 V	12...110 V
Type of pins		Cylindrical	Flat (Faston type)
Operational voltage		Up to 250 V	
Durability (operating cycles per hour)	Electrical, resistive load	100 000	
	Mechanical, no-load	5 000 000	
Functions	LED	Yes (depending on version)	
	Mechanical indicator	Yes	
	Lockable test button	Yes	
	Contact type	Low level (depending on version)	No
Type references		RUM	
Pages		23	
Type of products		Associated socket types	
		—	

			
Contact terminal arrangements		Mixed	Separate
Connection		Screw connector	
Accessories	Protection modules	Yes	
	Timer module	Yes	
	Maintaining clamps	Yes	
	Socket identification legend	Yes	
	Mounting adapters for rail	No	
	Mounting adapters with fixing lugs	No	
	Bus jumper	No	Yes, 2-pole (Ith = 5 A)
Conventional thermal current (Ith)		12 A	
Type references		RUZC•M	RUZSC•M
Pages		24	24
		RUZSF3M	
		24	24

(5) 100 000 for RPM1 and RPM2; 60 000 for RPM3 and RPM4.

(6) 30 A when mounted with 13 mm gap between two relays and 25 A when mounted side by side without a gap.



More technical information on www.schneider-electric.com

Plug-in relays	Relays with clamp fixing
Power relays	
	
1 C/O / 15 A 2 C/O / 15 A 3 C/O / 15 A 4 C/O / 15 A	2 N/O / 30 A (6) 2 C/O / 30 A (6)
24...230 V	24...230 V
12...110 V	12...24 V
Flat (Faston type)	Flat (Faston type)
Up to 250 V	Up to 250 V
100 000 (5)	100 000
10 000 000	5 000 000
Yes (depending on version)	—
Yes	—
Yes	—
No	—
RPM	RPF
27	31
Associated socket types	
—	



Mixed	—
Screw clamp terminals	—
Yes	—
Yes (for 3 and 4-pole)	—
Yes (on socket RPZF1)	—
Yes	—
Yes	—
Yes	—
No	—
16 A	—
RPZF●	—
28	—

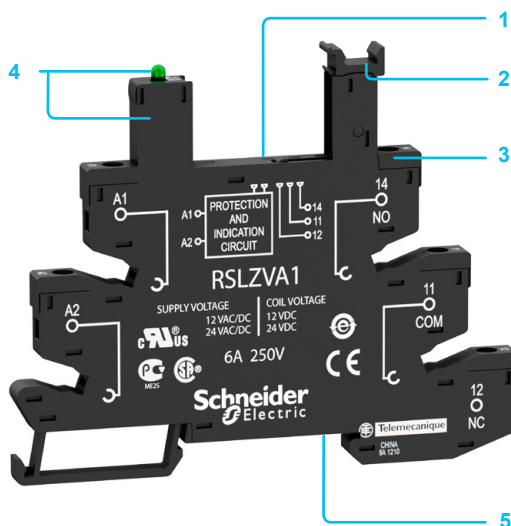
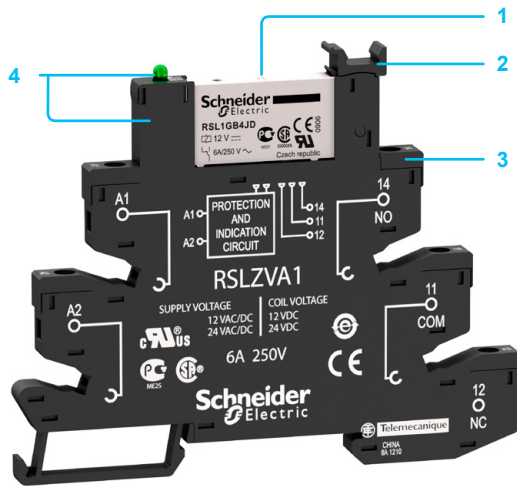


Presentation of the range

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  rail at the back of an enclosure.

RSL relays are available in two versions:

- **Pre-assembled range:** 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 range:**
 - 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 C/O 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 All sockets have a built-in protection circuit and LED indicator.

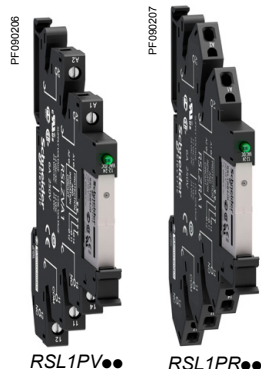
RSL slim interface relay

- 1 Five flat, reinforced pins (PCB type).

Socket description

Sockets for RSL slim interface relays

- 1 Five female contacts for the relay pins.
- 2 Retaining lever with marker label.
- 3 Wire connection by screw connectors or spring terminals.
- 4 Protection circuit and LED indicator are built into the socket.
- 5 Locating slot for mounting on  rail.

**Slim interface relays, pre-assembled (relay + socket)**

Standard relays mounted on socket equipped with LED and protection circuit

Sold in lots of 10

1 C/O contact - Thermal current (Ith) 6A

Operating voltage V	Control circuit voltage V	Socket type		Weight kg/lb	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: relay + socket**

Relays with flat, reinforced pins (PCB type)

Sold in lots of 10

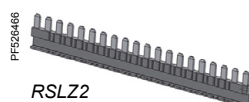
1 C/O contact - Thermal current (Ith) 6A

Control circuit voltage V	Standard Unit reference	Weight kg/lb	Low level	
			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

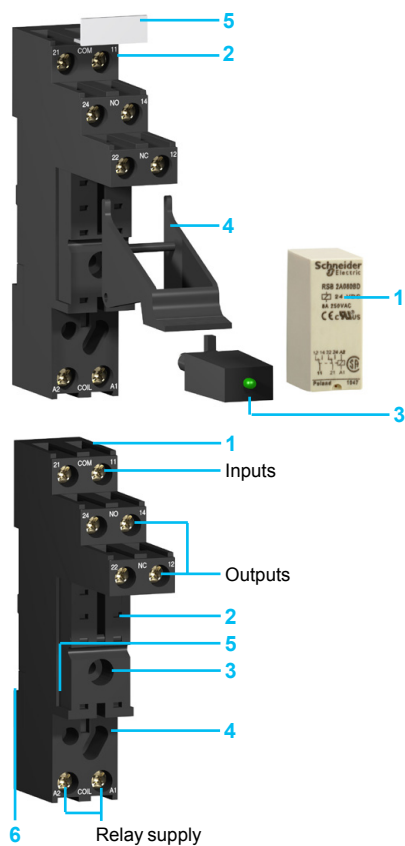
**Sockets equipped with LED and protection circuit**

Sold in lots of 10

Operating voltage V	For use with relays	Socket type		Weight kg/lb	Spring terminal	
		Screw connector Unit reference	Weight kg/lb		Unit reference	Weight kg/lb
~/~ 12 and ~/~ 24	RSL1●B4JD RSL1●B4BD	RSLZVA1	0.025/0.055		RSLZRA1	0.023/0.051
~/~ 48 and ~/~ 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	RSL1●B4ND	RSLZVA4	0.025/0.055		RSLZRA4	0.023/0.051

**Accessories for sockets**

Description	Compatibility	Reference	Weight kg/lb
Clip-in legends (2 sheets of 64 legends)	With all sockets	RSLZ5	0.001/0.002
Bus jumper (10 x 20-pole jumper)	With all sockets	RSLZ2	0.003/0.007
Partition plate (10 partition plates)	With all sockets	RSLZ3	0.001/0.002



Presentation of the range

The RSB interface relay range comprises:

- 1 12 A relays with 1 C/O contact, 16 A relays with 1 C/O contact, and 8 A relays with 2 C/O 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 legends for the sockets.

Socket description

Sockets with separate contact terminals (1)

- 1 Connection by connector.
- 2 Five or eight female contacts for the relay pins.
- 3 A fixing hole for panel mounting.
- 4 Location for protection modules.
- 5 Locking components for plastic maintaining clamp.
- 6 Locating slot for mounting on rail.

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



RSB1A120JD + RZM031FPD
+ RSZE1S35M



RSB1A160BD + RSZE1S48M



RSB2A080BD + RSZE1S48M



RSZR215

Relays for standard applications

Control circuit voltage	Sold in lots of	Number and type of contacts - Thermal current (Ith)			Weight
		1 C/O - 12 A	1 C/O - 16 A	2 C/O - 8 A	
		Unit reference (1)	Unit reference (1)	Unit reference (1)	
V					kg/lb
6	10	RSB1A120RD	RSB1A160RD	RSB2A080RD	0.014/0.031
12	10	RSB1A120JD	RSB1A160JD	RSB2A080JD	0.014/0.031
24	10	RSB1A120BD	RSB1A160BD	RSB2A080BD	0.014/0.031
48	10	RSB1A120ED	RSB1A160ED	RSB2A080ED	0.014/0.031
60	10	RSB1A120ND	RSB1A160ND	RSB2A080ND	0.014/0.031
110	10	RSB1A120FD	RSB1A160FD	RSB2A080FD	0.014/0.031
24	10	RSB1A120B7	RSB1A160B7	RSB2A080B7	0.014/0.031
48	10	RSB1A120E7	RSB1A160E7	RSB2A080E7	0.014/0.031
120	10	RSB1A120F7	RSB1A160F7	RSB2A080F7	0.014/0.031
220	10	RSB1A120M7	RSB1A160M7	RSB2A080M7	0.014/0.031
230	10	RSB1A120P7	RSB1A160P7	RSB2A080P7	0.014/0.031
240	10	RSB1A120U7	RSB1A160U7	RSB2A080U7	0.014/0.031

Sockets with separate contact terminal arrangement and 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 (2)	RSB1A160●● (3) RSB2A080●●	10	RSZE1S48M	0.050/0.110

Protection modules

Description	For use with	Voltage	Sold in lots of	Unit reference	Weight
		V			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	or ~ 6...24	10	RZM021RB	0.005/0.011
		or ~ 24...60	10	RZM021BN	0.005/0.011
		or ~ 110...230	10	RZM021FP	0.005/0.011

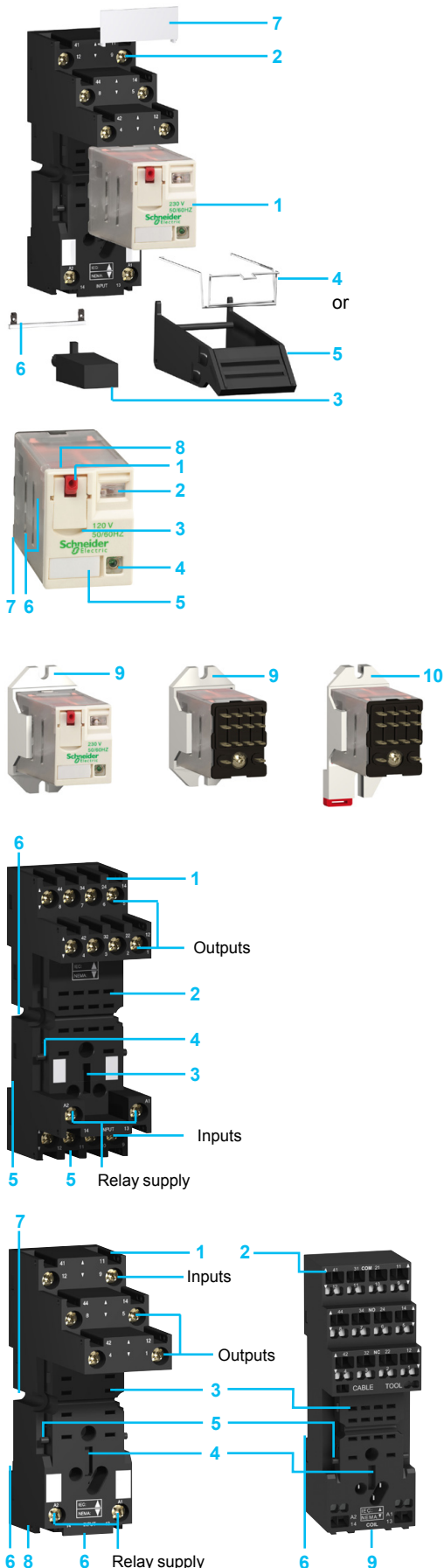
Accessories

Description	For use with	Sold in lots of	Unit reference	Weight
				kg/lb
Plastic maintaining clamp	All sockets	10	RSZR215	0.002/0.004
Legend	All sockets	10	RSZL300	0.001/0.002

(1) To order a relay complete with socket (sold in lots of 20): add suffix **S** to one of the following voltage codes **JD**, **BD**, **B7**, **P7**, or **F7**.
Example: **RSB2A080BD + RSZE1S48M** becomes **RSB2A080BDS**.

(2) RSZE1S48M is a two terminal socket each carrying 10 A.

(3) If RSZE1S48M socket terminals are linked, the relay RSB1A160●● can be used up to 16 A. See "Wiring diagrams" on www.schneider-electric.com.



Presentation of the range

The RXM miniature relay range comprises:

- 12 A relays with 2 C/O contacts, 10 A relays with 3 C/O contacts, 6 A relays with 4 C/O contacts, and 3 A "low level" relays with 4 C/O contacts. All these relays have the same dimensions.
- Sockets with mixed or separate contact terminals.
- Protection modules (diode, RC circuit, or varistor) common to all sockets.
- A metal maintaining clamp for all sockets.
- A plastic maintaining clamp for all sockets.
- A 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.
- Clip-in legends for all sockets except RXZE2M114 and RXZE2S114S.

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.
- Four notches for rail mounting adapter or panel mounting adapter with fixing lugs.
- Eight, eleven, or fourteen Faston type pins.
- Area by which the product can be easily gripped.
- Mounting adapter enabling direct mounting of the relay on a panel.
- Mounting adapter enabling direct mounting of the relay on a $\perp$ rail.

Socket description

Sockets with mixed contact terminals (1)

- Connection by screw clamp terminals or screw connector.
- Fourteen female contacts for the relay pins.
- Location for protection modules.
- Locking components for plastic and metal maintaining clamps.
- Locating slot for mounting on $\perp$ rail with its compression spring or fixing clip.
- Two or four fixing holes for panel mounting.

Sockets with separate contact terminals (2)

- Connection by screw connector.
- Connection by push-in spring clamp terminals. No tool $\otimes$ is required to insert the cable.
- Eight, eleven or fourteen female contacts for the relay pins.
- Location for protection modules.
- Locking components for plastic and metal maintaining clamps.
- Locating slot for mounting on $\perp$ rail with its compression spring or fixing clip.
- Two fixing holes for panel mounting.
- Location for bus jumpers (see "Mounting on Sockets" section on www.schneider-electric.com).
- Location for clip-in legend.

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

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



RXM4AB1BD



RXM4AB1F7



RXM4AB2BD



RXM4AB2F7

Miniature relays without LED (sold in lots of 10)

Control circuit voltage	Number and type of contacts - Thermal current (Ith)					
	2 C/O - 12 A		3 C/O - 10 A		4 C/O - 6 A	
	Unit reference	Weight	Unit reference	Weight	Unit reference	Weight
V		kg/lb		kg/lb		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

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	RXM3AB2ED	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

Zelio Relay - Electromechanical Relays

Plug-in relays

RXM miniature relays



RXM4GB1BD



RXM4GB1P7



RXM4GB2BD



RXM4GB2F7


 RXZE2M114M
+
Relay RXM4AB2BD

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

Control circuit voltage	Number and type of contacts Thermal current (Ith)	
	4 C/O - 3 A	
	Unit reference	Weight
V		kg/lb
--- 12	RXM4GB1JD	0.037/0.082
--- 24	RXM4GB1BD	0.037/0.082
--- 48	RXM4GB1ED	0.037/0.082
--- 110	RXM4GB1FD	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

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
--- 110	RXM4GB2FD	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

Miniature relays without LED (sold in lots of 100)

Control circuit voltage	Number and type of contacts - Thermal current (Ith)		4 C/O - 6 A	
	2 C/O - 12 A			
	Unit reference	Weight	Unit reference	Weight
V		kg/lb		kg/lb
--- 12	—	—	RXM4AB1JDTQ	0.036/0.079
--- 24	RXM2AB1BDTQ	0.037/0.082	RXM4AB1BDTQ	0.036/0.079
--- 48	—	—	RXM4AB1EDTQ	0.036/0.079
--- 110	—	—	RXM4AB1FDTQ	0.036/0.079
--- 220	—	—	RXM4AB1MDTQ	0.036/0.079
~ 24	RXM2AB1B7TQ	0.037/0.082	RXM4AB1B7TQ	0.036/0.079
~ 48	—	—	RXM4AB1E7TQ	0.036/0.079
~ 120	RXM2AB1F7TQ	0.037/0.082	RXM4AB1F7TQ	0.036/0.079
~ 230	RXM2AB1P7TQ	0.037/0.082	RXM4AB1P7TQ	0.036/0.079

Miniature relays with LED (sold in lots of 100)

--- 24	—	—	RXM4AB2BDTQ	0.036/0.079
~ 24	RXM2AB2B7TQ	0.037/0.082	RXM4AB2B7TQ	0.036/0.079
~ 230	RXM2AB2P7TQ	0.037/0.082	RXM4AB2P7TQ	0.036/0.079



RXZE2M114M
+
Relay RXM4AB1F7



RXM041●●7



REXL4●●



RXZ400

Sockets					
Contact terminal arrangement	Connection	Relay type	Sold in lots of	Unit reference	Weight kg/lb
Mixed	Screw clamp terminals	RXM2●●●●● (3) RXM4●●●●●	10	RXZE2M114 (1)	0.048/0.106
	Screw connector	RXM2●●●●● (3) RXM4●●●●●	10	RXZE2M114M (1)	0.056/0.124
Separate	Spring clamp terminals	RXM2●●●●● (3) RXM4●●●●●	10	RXZE2S114S (2)	0.070/0.154
	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	For use with	Sold in lots of	Unit reference	Weight
	V				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 C/O contacts (function A)	Sockets RXZE●●●●●		REXL2●● (4)		—
			REXL4●● (4)		—
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	10	RXZR335	0.005/0.011	
Bus jumper 2-pole (lth: 5 A)	All sockets with separate contacts	10	RXZS2	0.005/0.011	
Mounting adapter for 1/2 rails (5)	All relays	10	RXZE2DA	0.004/0.009	
Mounting adapter with fixing lugs for panel	All relays	10	RXZE2FA	0.002/0.004	
Clip-in legends	All relays (sheet of 108 legends)	10	RXZL520	0.080/0.176	
	All sockets except RXZE2M114 and RXZE2S114S	10	RXZL420	0.001/0.002	
	RXZE2S114S socket	10	RSZL300	0.001/0.002	

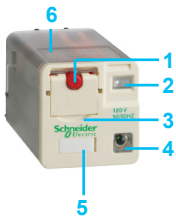
(1) Thermal current (lth): 10 A.

(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 "Zelio Time timing relays" catalog.

(5) Test button becomes inaccessible.



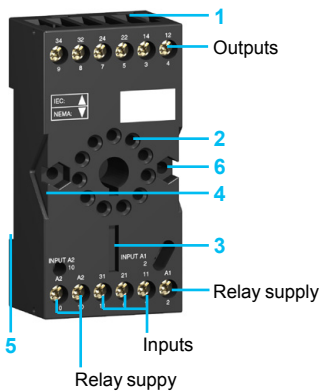
Presentation of the range

The RUM universal relay range comprises:

- 1 10 A relays with 2 and 3 C/O 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 sockets.
- 4 A metal maintaining clamp for all sockets.
- 5 A 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

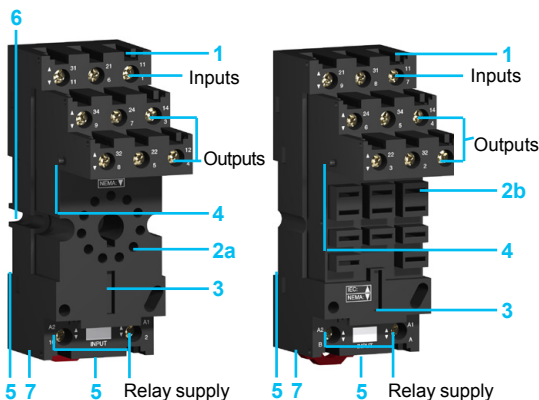
- 1 Spring return pushbutton for testing the contacts (green: $\overline{\text{---}}$, red: $\sim$).
- 2 Mechanical "relay status" indicator.
- 3 Removable lock-down door enabling forced maintaining of the contacts for test sequences or maintenance purposes.
- 4 LED (depending on version) indicating the relay status.
- 5 Removable legend for relay identification.
- 6 Area by which the product can be easily gripped.
- 7 Eight or eleven cylindrical pins.
- 8 Eight or eleven flat (Faston type) pins.



Socket description

Sockets with mixed contact terminals (1)

- 1 Connection by screw connector.
- 2 Eight or eleven 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 $\perp$ rail.
- 6 Two fixing holes for panel mounting.



Sockets with separate contact terminals (2)

- 1 Connection by screw connector.
- 2 a Eight or eleven female contacts for the relay cylindrical pins.
b Eleven 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 $\perp$ rail with fixing clip.
- 6 Two fixing holes for panel mounting.
- 7 Location for bus jumpers.

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

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

References

Relays for standard applications, without LED (sold in lots of 10)

Pins	Control circuit voltage	Number and type of contacts - Thermal current (Ith)			
		2 C/O - 10 A Unit reference	Weight	3 C/O - 10 A Unit reference	Weight
	V		kg/lb		kg/lb
Cylindrical	--- 12	RUMC2AB1JD	0.085/0.187	RUMC3AB1JD	0.088/0.194
	--- 24	RUMC2AB1BD	0.085/0.187	RUMC3AB1BD	0.088/0.194
	--- 48	RUMC2AB1ED	0.085/0.187	RUMC3AB1ED	0.088/0.194
	--- 60	—	—	RUMC3AB1ND	0.088/0.194
	--- 110	RUMC2AB1FD	0.085/0.187	RUMC3AB1FD	0.088/0.194
	--- 125	—	—	RUMC3AB1GD	0.088/0.194
	--- 220	—	—	RUMC3AB1MD	0.088/0.194
	~ 24	RUMC2AB1B7	0.085/0.187	RUMC3AB1B7	0.088/0.194
	~ 48	RUMC2AB1E7	0.085/0.187	RUMC3AB1E7	0.088/0.194
	~ 120	RUMC2AB1F7	0.085/0.187	RUMC3AB1F7	0.088/0.194
	~ 230	RUMC2AB1P7	0.085/0.187	RUMC3AB1P7	0.088/0.194
Flat (Faston type)	--- 12	RUMF2AB1JD	0.080/0.176	RUMF3AB1JD	0.082/0.181
	--- 24	RUMF2AB1BD	0.080/0.176	RUMF3AB1BD	0.082/0.181
	--- 48	RUMF2AB1ED	0.080/0.176	RUMF3AB1ED	0.082/0.181
	--- 110	RUMF2AB1FD	0.080/0.176	RUMF3AB1FD	0.082/0.181
	~ 24	RUMF2AB1B7	0.080/0.176	RUMF3AB1B7	0.082/0.181
	~ 48	RUMF2AB1E7	0.080/0.176	RUMF3AB1E7	0.082/0.181
	~ 120	RUMF2AB1F7	0.080/0.176	RUMF3AB1F7	0.082/0.181
	~ 230	RUMF2AB1P7	0.080/0.176	RUMF3AB1P7	0.082/0.181

Relays for standard applications, with LED (sold in lots of 10)

Cylindrical	--- 12	RUMC2AB2JD	0.085/0.187	RUMC3AB2JD	0.088/0.194
	--- 24	RUMC2AB2BD	0.085/0.187	RUMC3AB2BD	0.088/0.194
	--- 48	RUMC2AB2ED	0.085/0.187	RUMC3AB2ED	0.088/0.194
	--- 60	—	—	RUMC3AB2ND	0.088/0.194
	--- 110	RUMC2AB2FD	0.085/0.187	RUMC3AB2FD	0.088/0.194
	--- 125	—	—	RUMC3AB2GD	0.088/0.194
	~ 24	RUMC2AB2B7	0.085/0.187	RUMC3AB2B7	0.088/0.194
	~ 48	RUMC2AB2E7	0.085/0.187	RUMC3AB2E7	0.088/0.194
	~ 120	RUMC2AB2F7	0.085/0.187	RUMC3AB2F7	0.088/0.194
	~ 230	RUMC2AB2P7	0.085/0.187	RUMC3AB2P7	0.088/0.194
Flat (Faston type)	--- 12	RUMF2AB2JD	0.084/0.185	RUMF3AB2JD	0.082/0.181
	--- 24	RUMF2AB2BD	0.084/0.185	RUMF3AB2BD	0.082/0.181
	--- 48	RUMF2AB2ED	0.084/0.185	RUMF3AB2ED	0.082/0.181
	--- 110	RUMF2AB2FD	0.084/0.185	RUMF3AB2FD	0.082/0.181
	~ 24	RUMF2AB2B7	0.084/0.185	RUMF3AB2B7	0.082/0.181
	~ 48	RUMF2AB2E7	0.084/0.185	RUMF3AB2E7	0.082/0.181
	~ 120	RUMF2AB2F7	0.084/0.185	RUMF3AB2F7	0.082/0.181
	~ 230	RUMF2AB2P7	0.084/0.185	RUMF3AB2P7	0.082/0.181



RUM●●AB1BD



RUM●●AB1F7



RUM●●AB2BD



RUM●●AB2F7



RUZSC2M +
Relay RUMC3●●●●●



RUW241P7



RUW101MW

References (continued)

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	Sold in lots of	Unit reference	Weight kg/lb
		V			
Diode	All sockets	— 6...250	10	RUW240BD	0.004/0.009
RC circuit	All sockets	~ 110...240	10	RUW241P7	0.004/0.009
Varistor	All sockets	~ / — 24	10	RUW242B7	0.004/0.009
		~ / — 240	10	RUW242P7	0.004/0.009

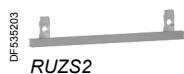
Timer module

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

Timing relays

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

(1) Please refer to "Zelio Time timing relays" catalog.



References (continued)

Accessories

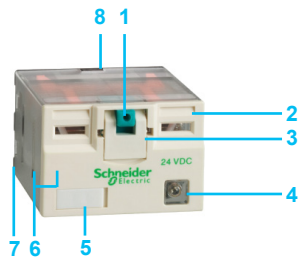
Description	For use with	Sold in lots of	Unit reference	Weight kg/lb
Metal maintaining clamp	All sockets	10	RUZC200	0.001/0.002
Bus jumper 2-pole (lth : 5 A)	All sockets with separate contacts	10	RUZS2	0.005/0.011
Clip-in legends	All relays (sheet of 108 legends)	10	RXZL520	0.080/0.176
	All sockets with separate contacts	10	RUZL420	0.001/0.002



Presentation of the range

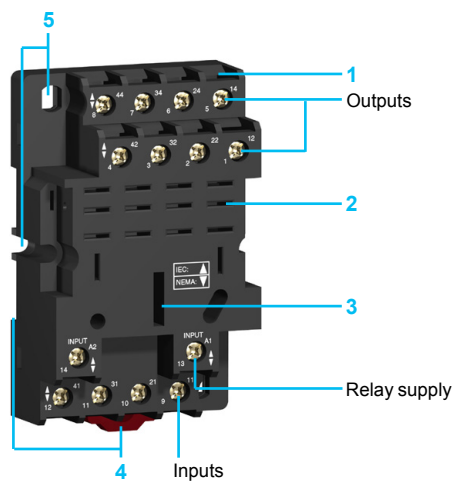
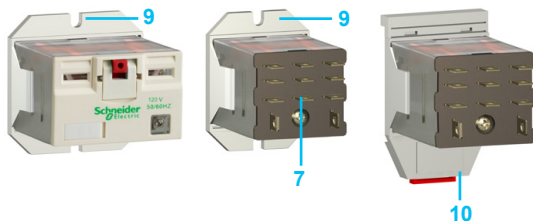
The RPM power relay range comprises:

- 1 15 A relay with 1, 2, 3, and 4 C/O 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 only on 3-pole or 4-pole sockets.
- 4 A 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 Four notches for rail mounting adapter or panel mounting adapter with fixing lugs.
- 7 Five, eight, eleven, or fourteen 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 Five, eight, eleven, or fourteen female contacts for the relay pins.
- 3 Location for protection modules or the timer module.
- 4 Locating slot for mounting on rail with fixing clip.
- 5 Two or four fixing holes for panel mounting.

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



RPM41BD



RPM41F7

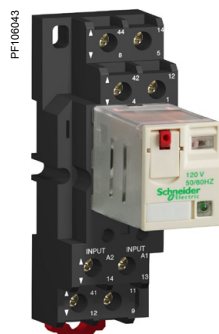


RPM42BD



RPM42F7

Reference								
Power relays without LED (sold in lots of 10)								
Control circuit voltage	Number and type of contacts - Thermal current (Ith)							
	1 C/O - 15 A		2 C/O - 15 A		3 C/O - 15 A		4 C/O - 15 A	
	Unit reference	Weight	Unit reference	Weight	Unit reference	Weight	Unit reference	Weight
V		kg/lb		kg/lb		kg/lb		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	RPM12FD	0.026/0.057	RPM22FD	0.036/0.079	RPM32FD	0.054/0.119	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



RPZF2 + Relay RPM22F7



RUW24...

References (continued)

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	Socket type	Sold in lots of	Unit reference	Weight kg/lb
V					
Diode	— 6...250	RPZF1RPZF2	20	RXM040W	0.003/0.007
		RPZF3 RPZF4	10	RUW240BD	0.004/0.009
RC circuit	~ 24...60	RPZF1RPZF2	20	RXM041BN7	0.010/0.022
	~ 110...240	RPZF1RPZF2	20	RXM041FU7	0.010/0.022
		RPZF3 RPZF4	10	RUW241P7	0.004/0.009
	~ 24	RPZF3 RPZF4	10	RUW242B7	0.004/0.009
Varistor	~ 6...24	RPZF1RPZF2	20	RXM021RB	0.030/0.066
	~ 24...60	RPZF1RPZF2	20	RXM021BN	0.030/0.066
	~ 110...240	RPZF1RPZF2	20	RXM021FP	0.030/0.066
	~ 24	RPZF3 RPZF4	10	RUW242B7	0.004/0.009
	~ 240	RPZF3 RPZF4	10	RUW242P7	0.004/0.009

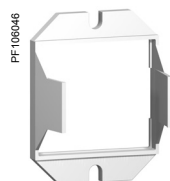
Timer module (1)

Description	Voltage	Socket type	Reference	Weight kg/lb
V				
Multifunction	~ 24... 240	RPZF3 RPZF4	RUW101MW	0.020/0.044

(1) See timer module description (selection of functions and time delays) on www.schneider-electric.com.



RPZ1DA



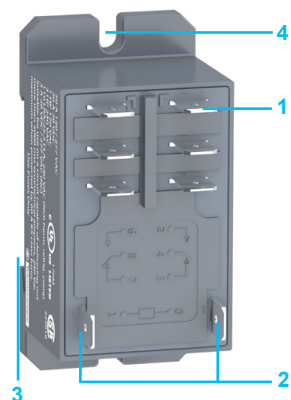
RPZ3FA

References (continued)

Accessories

Description	For use with	Sold in lots of	Unit reference	Weight kg/lb
Metal maintaining clamp (for single-pole relays)	RPZF1	20	RPZR235	0.001/0.002
Mounting adapters for  rail (1)	RPM1●●●	20	RPZ1DA	0.004/0.009
	RPM2●●●	20	RXZE2DA	0.004/0.009
	RPM3●●●	20	RPZ3DA	0.004/0.009
	RPM4●●●	20	RPZ4DA	0.006/0.013
Mounting adapters with fixing lugs for panel	RPM1●●●	20	RPZ1FA	0.002/0.004
	RPM2●●●	20	RXZE2FA	0.002/0.004
	RPM3●●●	20	RPZ3FA	0.003/0.007
	RPM4●●●	20	RPZ4FA	0.004/0.009
Clip-in legends (sheet of 108 legends)	All relays	10	RXZL520	0.080/0.176

(1) Test button becomes inaccessible.



Presentation of the range

RPF power relays with 2 C/O or 2 N/O contacts comprise:

- 1 Four or six Faston type pins.
- 2 Two relay supply pins.
- 3 A locating slot for mounting on rail.
- 4 Two fixing holes for panel mounting.

PF120361C



RPF2A

Power relays(sold in lots of 10)

Control circuit voltage	Number and type of contacts - Thermal current (Ith)		Weight
	2 N/O - 30 A (1)	2 C/O - 30 A (1)	
	Unit reference	Unit reference	kg/lb
$\overline{\sim}$ 12	RPF2AJD	RPF2BJD	0.082/ 0.181
$\overline{\sim}$ 24	RPF2ABD	RPF2BBD	0.082/ 0.181
$\sim$ 24	RPF2AB7	RPF2BB7	0.082/ 0.181
$\sim$ 120	RPF2AF7	RPF2BF7	0.082/ 0.181
$\sim$ 230	RPF2AP7	RPF2BP7	0.082/ 0.181

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

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

Utilisation categories		
Category	Type of current	Applications
AC-1	~ single-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	~ single-phase	Control of electromagnetic loads (< 72 VA), auxiliary control relays, power contactors, electromagnetic solenoid valves, and electromagnets.
AC-15	~ single-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 which helps protecting 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 without minimizing the probability of ingress of flux or washing solvents.
RT IV	Sealed relay	Relay provided with a case which has no venting to the outside atmosphere.
RT V	Hermetically sealed relay	Sealed relay having an enhanced level of sealing.

(1) n = number of contacts.

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

Protection modules

Whenever an inductive load is de-energised (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 which contain electronic devices.

Protection modules are used to reduce the voltage peak on de-energisation 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 avoid:

- ☐ electromagnetic compatibility problems,
- ☐ the deterioration of contact materials,
- ☐ the destruction of insulation due to overvoltage,
- ☐ the destruction of electronic components.

Diode protection module (with or without LED)

■ Advantages

- ☐ accumulation of energy allowing current 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-energisation 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.

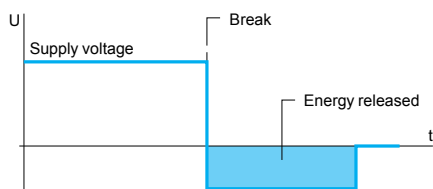
Protection module with RC circuit

■ Advantages

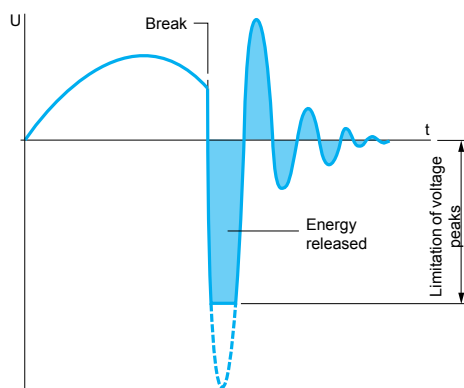
- ☐ coil oscillating frequency reduced to about 150 Hz,
- ☐ voltage peak limited to $3 U_n$,
- ☐ little effect on relay drop-out time.

■ Disadvantages

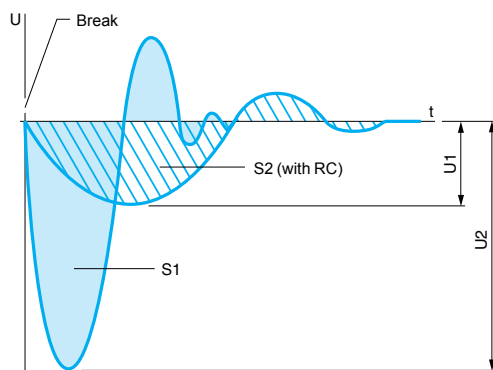
- ☐ no protection for low voltages.



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

Applications	Electromechanical interface modules	
		
Functions	Input	
Width	17.5 mm/0.69 in.	9.5 mm/0.37 in.
Contact arrangement	1 N/O 2 N/O 1 C/O	1 N/O
Thermal current	—	
Control voltages	$\overline{\sim}$ 110...127 V $\sim$ 24 V, 48 V $\sim$ 115...127 V $\sim$ 230/240 V	$\overline{\sim}$ 24 V, 48 V $\sim$ 115...127/50 Hz $\sim$ 115...127/60 Hz $\sim$ 230...240/50-60 Hz
Indication	Mechanical for contacts and/or LED for control	LED for control
References	ABR1E	ABR2E
Pages	37	39



Solid state interface modules



Output		Input and output Very low level switching	Input	Output
17.5 mm/0.69 in.	12 mm/0.47 in.	17.5 mm/0.69 in.	9.5 mm/0.37 in.	(9.5 mm/0.37 in.) or (17.5 mm/0.69 in.)
1 N/O 2 N/O 1 C/O 1 N/C + 1 N/O	1 N/O	1 C/O	–	
12 A	5 A	–		5 A
$\overline{\sim}$ 24 V $\sim$ 24 V, 48 V $\sim$ 115...127 V $\sim$ 110 V	$\overline{\sim}$ 24 V		$\overline{\sim}$ 5, 24, 48 V $\sim$ 115...127/50 Hz $\sim$ 120...127/60 Hz $\sim$ 230...240/50 Hz $\sim$ 230...240/60 Hz	$\overline{\sim}$ 24 V
Mechanical for contacts and/or LED for control	LED for control			
ABR1S	ABR2S	ABR2•B312B	ABS2E	ABS2S
37	39	39	41	



Zelio interfaces

Electromechanical interface modules for discrete signals

ABR-1 electromechanical interface modules are supplied in the form of compact modules, 17.5 mm/0.689 in. wide.

They are designed for interfacing discrete digital control signals exchanged within an automated system between the processing unit (PLC, numerical controller, etc) and the other components (contactors, solenoid valves, indicator lamps, proximity sensors, etc).

These products are based on contactor technology and are notable for their excellent adaptation to industrial environments, conforming to the recent IEC 947-5-1 standards.

Composition

The ABR-1 range comprises 2 families :

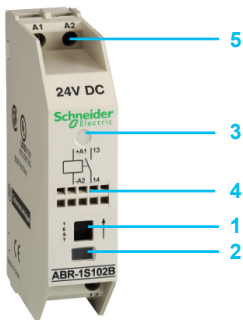
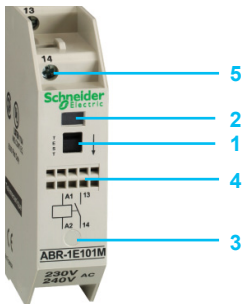
Input interfaces

Input interfaces switch input signals to the processor and are characterized by their high degree of contact reliability : less than 1 fault per 100 million operating cycles at $\sim 17 \text{ V}, 5 \text{ mA}$.

The interfaces can directly control most contactors and indicator lamps because of the high switching level characteristics.

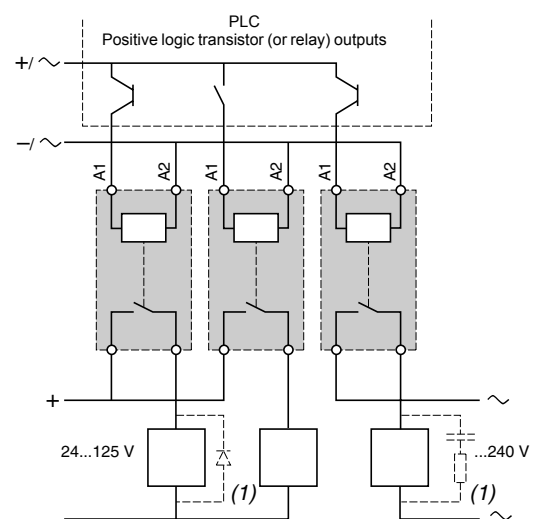
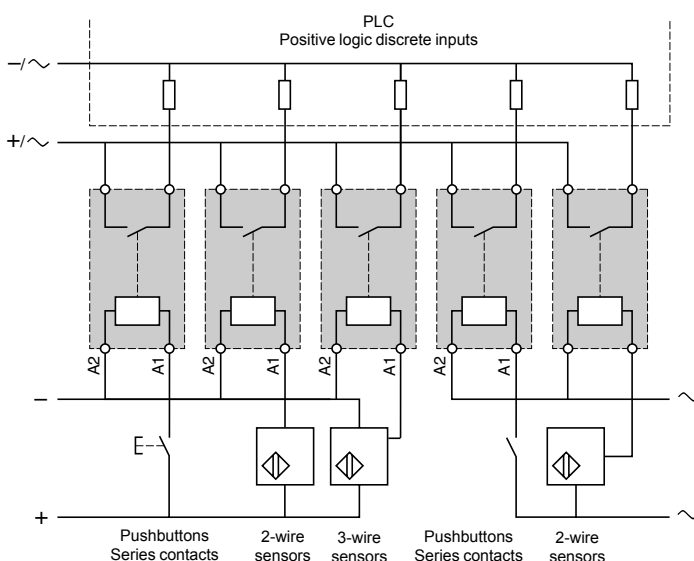
Output interfaces

Output interfaces are designed for the control of preactuators (contactors, solenoid valves, etc) for signalling devices (indicators lamps, audible alerts, etc). They are characterized by a high switching capacity with an average durability of up to 5 times greater than the traditional interface modules which include standard relays.



- 1 Override contacts by pressing button (not holding it down) for a simple and quick test during setting up or maintenance operations on the installation
- 2 Green indicator showing the mechanical position of the contacts
- 3 LED indicating the control signal state
- 4 Channel identification : 5 individual characters for AB1-R/G or one AB1-SA2 marker tag
- 5 Connection by screw clamp terminal enabling easy attachment of 2 wires per terminal. The layout of the connection terminals for both families (input and output) is designed for rational wiring and a clear separation between the incoming (processing) and outgoing (power and process control) circuits.

Examples of applications with PLCs



(1) Required for inductive loads (can be replaced with peak limiter).

Zelio interfaces

Electromechanical interface modules for discrete signals

Control circuit : AC or DC



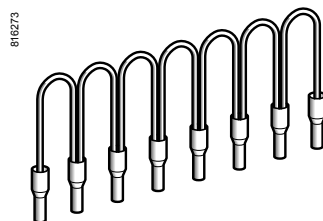
ABR1E101M



ABR1E318B



ABR1S102B



ABFC08R...

Input interface modules (1) (17.5 mm/0.69 in. pitch)					
Display	Composition	Control circuit	Enclosure color	Reference	Weight
V					kg/lb
Mechanical (2)	1 N/O	~ 230/240	Grey	ABR1E101M	0.090/0.198
	1 C/O	~ 230/240	Grey	ABR1E301M	0.090/0.198
Mechanical (2) + LED (3)	1 N/O	~ 24	Grey	ABR1E118B	0.095/0.209
		~ 48	Grey	ABR1E118E	0.095/0.209
		~ 110...127 (4)	Grey	ABR1E112F	0.095/0.209
		~ 115...127	Grey	ABR1E111F	0.095/0.209
		~ 230/240	Grey	ABR1E111M	0.095/0.209
		~ 230/240	Grey	ABR1E418B	0.095/0.209
	2 N/O	~ 24	Grey	ABR1E418B	0.095/0.209
		~ 48	Grey	ABR1E418E	0.095/0.209
		~ 110...127(4)	Grey	ABR1E412F	0.095/0.209
		~ 115...127	Grey	ABR1E411F	0.095/0.209
		~ 230/240	Grey	ABR1E411M	0.095/0.209
		~ 230/240	Grey	ABR1E318B	0.095/0.209
	1 C/O	~ 24	Grey	ABR1E318B	0.095/0.209
		~ 48	Grey	ABR1E318E	0.095/0.209
		~ 110...127(4)	Grey	ABR1E312F	0.095/0.209
		~ 115...127	Grey	ABR1E311F	0.095/0.209
		~ 230/240	Grey	ABR1E311M	0.095/0.209

Output terminals-relays (1) (17.5 mm/0.6890 in. pitch)					
Display	Composition	Control circuit	Enclosure color	Reference	Weight
V					kg/lb
Mechanical (2)	1 N/O	~ 24	Grey	ABR1S102B	0.090/0.198
	2 N/O	~ 24	Grey	ABR1S402B	0.090/0.198
	1 C/O	~ 24	Grey	ABR1S302B	0.090/0.198
	1 N/C + 1 N/O	~ 24	Grey	ABR1S602B	0.090/0.198
Mechanical (2) + LED (3)	1 N/O	~ 24	Grey	ABR1S118B	0.095/0.209
		~ 48	Grey	ABR1S118E	0.095/0.209
		~ 115...127	Grey	ABR1S111F	0.095/0.209
	2 N/O	~ 24	Grey	ABR1S418B	0.095/0.209
		~ 48	Grey	ABR1S418E	0.095/0.209
		~ 110	Grey	ABR1S411F	0.095/0.209
	1 C/O	~ 24	Grey	ABR1S318B	0.095/0.209
		~ 48	Grey	ABR1S318E	0.095/0.209
		~ 110	Grey	ABR1S311F	0.095/0.209
	1 N/C + 1 N/O	~ 24	Grey	ABR1S618B	0.095/0.209
		~ 48	Grey	ABR1S618E	0.095/0.209
		~ 110	Grey	ABR1S611F	0.095/0.209

Commencing links					
Description	For common	Color	Distance between cable ends	Reference	Weight
cm/in.					kg/lb
Commoning links in modules 8 x 1 mm ²	Coil	White	12/4.72	ABFC08R12W	0.020/0.044
			2/0.79	ABFC08R02W	0.010/0.022
	~	Red	12/4.72	ABFC08R12R	0.020/0.044
			2/0.79	ABFC08R02R	0.010/0.022
	---	Blue	12/4.72	ABFC08R12B	0.020/0.044
			2/0.79	ABFC08R02B	0.010/0.022

(1) Connection by screw-clamp.

(2) When relay is activated electrically or mechanically (pressing the test button), the green mechanical indicator appears.

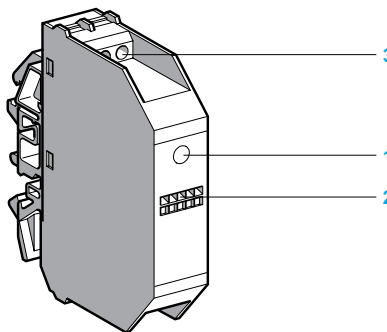
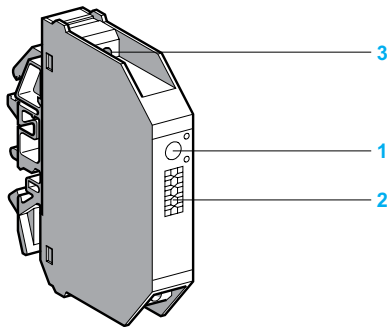
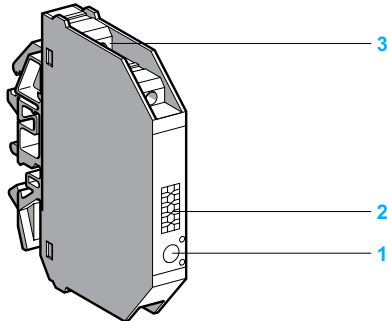
(3) When control signal is present, the green LED illuminates.

(4) With polarization (+ on A1, - on A2).

Zelio interfaces

Electromechanical interface modules for discrete signals

Slim electromechanical interface modules



ABR-2 electromechanical interface modules complement the ABR-1 range.

They are characterised by micro relay technology which allows reduced dimensions and low switching levels (TTL, HCMOS, analog signals).

The ABR-2 family is in the form of slim compact modules, 9.5 mm/0.37 in. wide for input interface modules, 12 mm/0.47 in. wide for output interface modules, and 17.5 mm/0.69 in. wide for low level switching products.

Description

The ABR-2 comprises 3 families :

Input interfaces (9.5 mm/0.37 in. pitch)

Input interfaces switch input signals to a processor and are characterized by their high degree of contact reliability : less than 1 fault per 100 million operating cycles at ≤ 17 V, 5 mA.

An immunity to current leakages ≤ 2 mA, and a wide coil voltage range (0.7 to 1.25 Un).

Output interfaces (12 mm/0.47 in. pitch)

Output interfaces control the preactuators (contactors, solenoid valves, etc) for signalling devices (indicators lamps, audible alerts, etc). They are characterized by a high switching capacity and an immunity to current leakages ≤ 2 mA. A lower cost version without LED signalling is available.

Low level switching input and output interfaces (17.5 mm/0.69 in. pitch) with 1 C/O contact

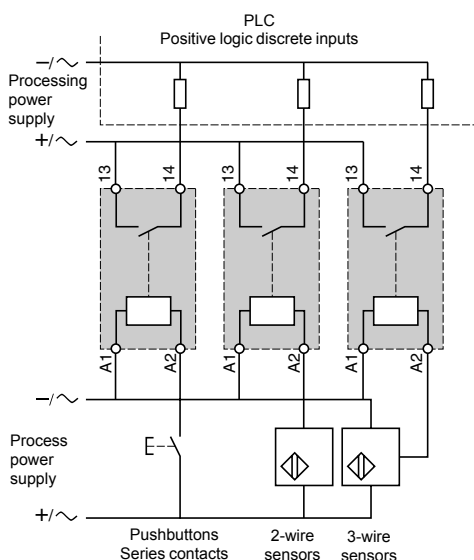
These interfaces are designed for switching logic (TTL or HCMOS) and analogue signals.

Warning : never switch inductive loads with this type of interface.

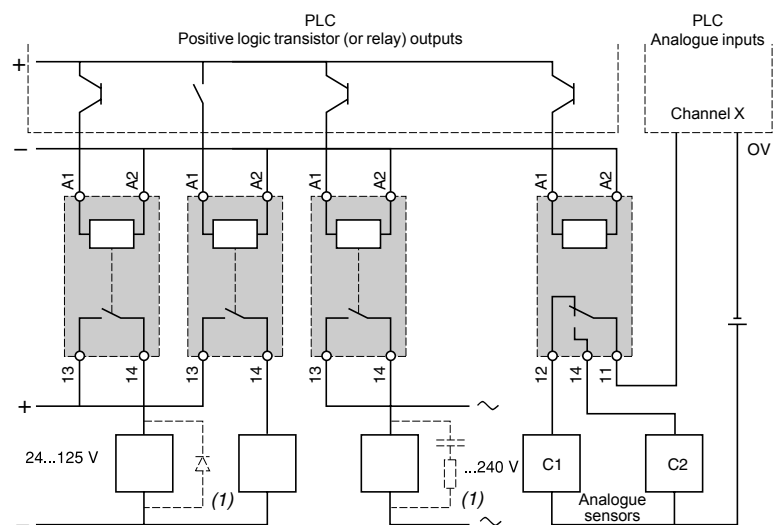
The front panel of the ABR-2 electromechanical interface module comprises :

- 1 LED indicating the control signal state
- 2 Channel identification : 5 individual characters for AB1-R/G or 1 AB1-SA2 marker tag
- 3 Connection by screw clamp terminal enabling easy attachment of 2 wires per terminal. The layout of the connection terminals for both families (input and output) is designed for rational wiring and a clear separation between the incoming (processing) and outgoing (power and process control) circuits.

Examples of applications with PLCs



ABR2E●●●●



ABR2S●●●●

ABR2SB12B

(1) Required for inductive loads (can be replaced with peak limiter).

Zelio interfaces

Electromechanical interface modules for discrete signals

Slim electromechanical interface modules

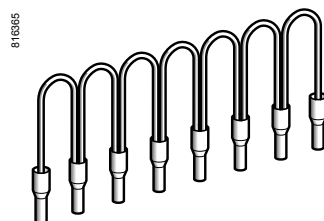
Control circuit : AC or DC



ABR2E112B



ABR2EB112B



ABFC08R...

Input modules (9.5 mm/0.37 in. pitch)					
Indication	Composition	Control circuit	Sold in lots of	Unit reference	Weight
V					kg/lb
With LED	1 N/O	24	5	ABR2E112B	0.032/0.071
		48	5	ABR2E112E	0.032/0.071
		~ 115...127 (50 Hz)	5	ABR2E115F	0.035/0.077
		~ 120...127 (60 Hz)	5	ABR2E116F	0.035/0.077
		~ 230...240 (50/60 Hz)	5	ABR2E111M	0.036/0.079

Output modules (12 mm/0.47 in. pitch)					
Indication	Composition	Control circuit	Sold in lots of	Unit reference	Weight
V					kg/lb
Without	1 N/O	24	5	ABR2S102B	0.040/0.088
With LED	1 N/O	24	5	ABR2S112B	0.041/0.090

Modules for very low level switching (17.5 mm/0.69 in. pitch)					
Indication	Composition	Control circuit	Reference	Weight	
V					kg/lb
Input					
With LED	1 C/O (1)	24	ABR2EB312B	0.048/0.106	
Output					
With LED	1 C/O (1)	24	ABR2SB312B	0.048/0.106	

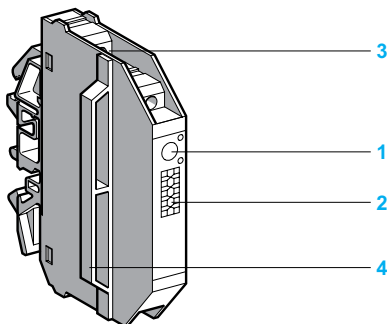
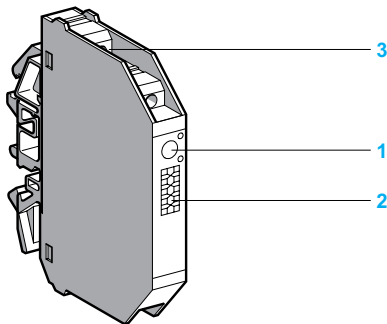
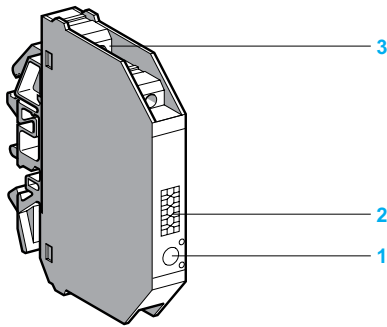
Commencing links					
Description	For common	Color	Distance between cable ends	Reference	Weight
					cm/in.
					kg/lb
Flexible comb modularity 8 x 1 mm²	Coil	White	12/4.72	ABFC08R12W	0.020/0.044
			2/0.79	ABFC08R02W	0.010/0.022
		Red	12/4.72	ABFC08R12R	0.020/0.044
			2/0.79	ABFC08R02R	0.010/0.022
	---	Blue	12/4.72	ABFC08R12B	0.020/0.044
			2/0.79	ABFC08R02B	0.010/0.022

(1) Do not switch inductive loads.

Zelio interfaces

Solid state interface modules for discrete signals

Slim solid-state interface modules



The ABS2 solid-state interface relays are supplied in the form of compact modules which appear identical to the ABR2 electromechanical family. They are designed for interfacing discrete digital control signals exchanged within an automated system between the processor (PLC, numerical controller, etc) and the other components (contactors, solenoid valves, indicator lamps, proximity sensors, etc). They are suitable for use in equipment which requires the benefits of electronic technology : a high operating rate, virtually unlimited durability, silent operation, etc. These products are notable for their high performance and excellent adaptation to industrial environments, conforming to the recent IEC standards.

Composition

The ABS-2 range comprises 2 families:

Input interfaces

The 9.5 mm/0.37 in. wide input interfaces are designed for switching input signals to processors. They offer a wide choice of electrical isolation between signals due to the wide range of input voltages from ~ 5 V to ~ 230 V.

Output interfaces

Output interfaces control the preactuators (contactors, solenoid valves, etc) for the signalling devices (indicator lamps, audible alerts, etc). 2 widths are available, 9.5 mm/0.37 in. and 17.5 mm/0.69 in., depending on the switched current.

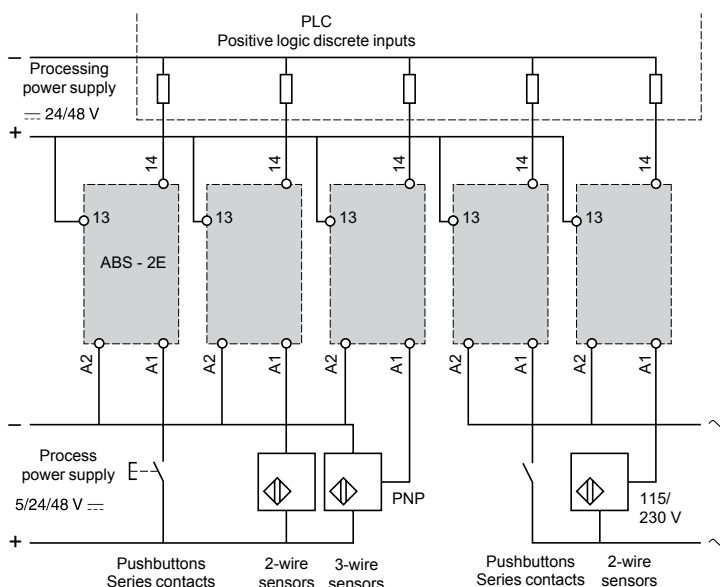
The 17.5 mm/0.69 in. version comprises a 9.5 mm/0.37 in. interface and an integrated 8 mm/0.32 in. spacer. This device can, with its increased ventilation, switch high levels of currents.

The front panel of the ABS-2 slim solid-state interface module comprises:

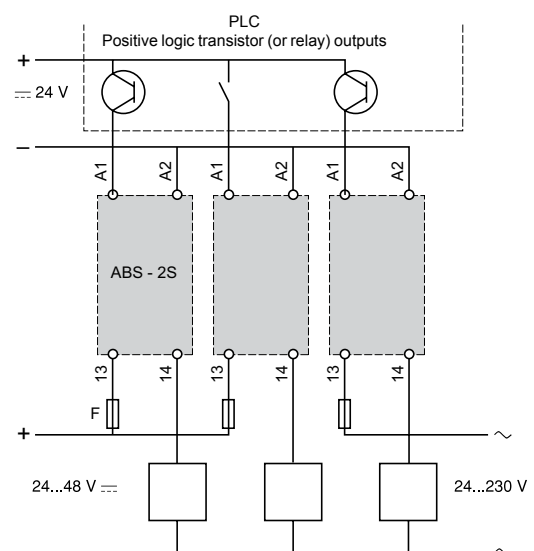
- 1 LED indicating the state of the control signal.
- 2 Channel identification : 5 individual characters for AB1-/G or one AB1SA2 marker tag.
- 3 Connection by screw clamp terminal enabling easy attachment of 2 wires per terminal.
- 4 Integrated spacer.

Examples of applications with PLCs

Interfacing PLC discrete inputs



Interfacing PLC discrete outputs



Zelio interfaces

Solid state interface modules for discrete signals

Slim solid-state interface modules

Solid-state input modules

Width	Input circuit		Output circuit		Sold in lots of	Unit reference	Weight
	Current	Nominal voltage	Current	Nominal voltage			
mm		V		V			kg/lb
9.5	---	5	---	5...48	5	ABS2EC01EA	0.029/0.064
		24	---	5...48	5	ABS2EC01EB	0.029/0.064
		48	---	5...48	5	ABS2EC01EE	0.029/0.064
	~	115...127 (50 Hz)	---	5...48	5	ABS2EA01EF	0.032/0.071
		120...127 (60 Hz)	---	5...48	5	ABS2EA02EF	0.032/0.071
		230...240 (50 Hz)	---	5...48	5	ABS2EA01EM	0.033/0.073
		230...240 (60 Hz)	---	5...48	5	ABS2EA02EM	0.033/0.073

Solid-state output modules

Width	Input circuit		Output circuit		Sold in lots of	Unit reference	Weight
	Current	Nominal voltage	Current	Nominal voltage			
mm/in.		V	A	V			kg/lb
9.5/0.37	---	24	2	5...48	5	ABS2SC01EB	0.034/0.075
			~ 2.3	24...240	5	ABS2SA01MB	0.034/0.075
17.5/0.69	---	24	3	5...48	1	ABS2SC02EB	0.043/0.095
			~ 3	24...240	1	ABS2SA02MB	0.044/0.097

Accessories

For connecting commons, use **ABFC08●●●** flexible combs (please consult our Customer Care Centre).

Applications

Panel mounted



Contact type

1 N/O SPST contact

Control voltage ranges

~

90...280 V

SCR output : 3...32 V
Mosfet output : 3.5...32 V

Operating voltages

~

24...280 V,
48...530 V,
48...660 V

3...100 V

Type of switching

~

Zero voltage switching

DC switching

Current

~

10, 25, 50, 75, 90, 125 A

12, 25, 40 A

Degree of protection

IP20

LED indication

Yes (1)

Cooling

Thermal protection or with heat sink accessory

Solid state relay type

SSRP

Page

45

(1) Except for SSRPCDS90A3 and SSRPCDS125A3 relays.



rail mounted



1 N/O SPST contact

90...140 V for SSRDF8S45A1 relay,
90...280 V for all the others

3...32 V for SSRDCDS45A1 relay,
4...32 V for all the others

24...280 V

—

Zero voltage switching

—

10, 20, 30, 45 A

—

IP20

Yes

Built-in heat sink

SSRD

45



More technical information on www.schneider-electric.com

Presentation of the range

The **SSR** solid state relay range comprises:

- Relays for panel mounting: **SSRP**.
- Relays for DIN rail mounting: **SSRD**.

Relay description

SSRP relays for panel mounting

- 1 2 x $\varnothing 4.9$ holes for fixing.
- 2 Connection terminals.
- 3 Connection terminal screws.
- 4 Input voltage indicator LED, green.
- 5 Thermal interface which should be via the back of the product.



SSRD relays for DIN rail mounting

- 1 Lugs for plate mounting.
- 2 Built-in heat sink.
- 3 Connection terminals.
- 4 Connection terminal screws.
- 5 Input voltage indicator LED, green.
- 6 Bracket for mounting on 35 mm/1.38 in. DIN rail.





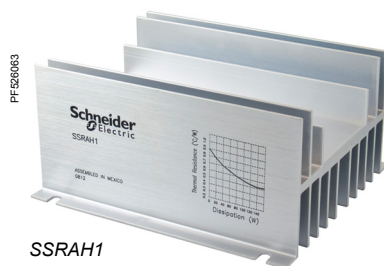
SSRPCDS25A1



SSRDCDS10A1



SSRDCDS45A1



SSRAH1



SSRAT1

Solid state relays, 1 N/O SPST contact

■ Panel mounting

Switching	Voltage range		Load current range	Reference	Weight kg/lb
	Input	Output			
	V	V	A		
SCR output					
Zero voltage switching	~ 3...32	~ 24...280	10	SSRPCDS10A1	0.113/0.249
			25	SSRPCDS25A1	0.113/0.249
			50	SSRPCDS50A1	0.113/0.249
		~ 48...530	75	SSRPCDS75A2	0.113/0.249
		~ 48...660	90	SSRPCDS90A3	0.113/0.249
	~ 90...280	~ 24...280	125	SSRPCDS125A3	0.113/0.249
			10	SSRPP8S10A1	0.113/0.249
			25	SSRPP8S25A1	0.113/0.249
			50	SSRPP8S10A1	0.113/0.249
			75	SSRPP8S75A2	0.113/0.249
			90	SSRPP8S90A3	0.113/0.249
			125	SSRPP8S125A3	0.113/0.249

Mosfet output

DC switching	~ 3.5...32	~ 3...100	12	SSRPCDM12D5	0.113/0.249
			25	SSRPCDM25D5	0.113/0.249
			40	SSRPCDM40D5	0.113/0.249

■ Rail mounting

SCR output

Zero voltage switching	~ 90...280	~ 24...280	10	SSRDP8S10A1	0.272/0.600
			20	SSRDP8S20A1	0.272/0.600
			30	SSRDP8S30A1	0.272/0.600
	~ 90...140	~ 24...280	45	SSRDF8S45A1	0.482/1.063
			10	SSRDCDS10A1	0.272/0.600
			20	SSRDCDS20A1	0.272/0.600
	~ 4...32	~ 24...280	30	SSRDCDS30A1	0.272/0.600
			45	SSRDCDS45A1	0.482/1.063
			10	SSRDCDS10A1	0.272/0.600
			20	SSRDCDS20A1	0.272/0.600

Accessories for panel mounted relays

Description	For use with 10...50A relays (1)	Unit reference	Weight kg/lb
Heat sink	SSRPP8S●●●●, SSRPCDS●●●●, SSRPCDM●●●●	SSRAH1	0.487/1.074
Thermal interface Sold in lots of 10	SSRPP8S●●●●, SSRPCDS●●●●, SSRPCDM●●●●	SSRAT1	0.011/0.024

(1) For load current range of 75, 90, and 125 A relays, please contact our Customer Care Centre.

A	ABS2SC02EB	41	RPM32JD	27	RSB2A080U7	17	RUMC3AB2E7	23
ABFC08R02B	37	R	RPM32P7	27	RSL1AB4BD	15	RUMC3AB2ED	23
ABFC08R02R	37	RE48A●●	RPM41B7	27	RSL1AB4ED	15	RUMC3AB2F7	23
ABFC08R02W	37	REXL2●●	RPM41BD	27	RSL1AB4JD	15	RUMC3AB2FD	23
ABFC08R12B	37	REXL4●●	RPM41E7	27	RSL1AB4ND	15	RUMC3AB2GD	23
ABFC08R12R	37	RPF2AB7	RPM41ED	27	RSL1GB4BD	15	RUMC3AB2JD	23
ABFC08R12W	37	RPF2ABD	RPM41F7	27	RSL1GB4ED	15	RUMC3AB2ND	23
ABR1E101M	37	RPF2AF7	RPM41FD	27	RSL1GB4JD	15	RUMC3AB2P7	23
ABR1E111F	37	RPF2AFD	RPM41JD	27	RSL1GB4ND	15	RUMF2AB1B7	23
ABR1E111M	37	RPF2AFD	RPM41P7	27	RSL1PRBU	15	RUMF2AB1BD	23
ABR1E112F	37	RPF2AJD	RPM42B7	27	RSL1PREU	15	RUMF2AB1E7	23
ABR1E118B	37	RPF2AP7	RPM42BD	27	RSL1PRFU	15	RUMF2AB1ED	23
ABR1E118E	37	RPF2BB7	RPM42E7	27	RSL1PRJU	15	RUMF2AB1F7	23
ABR1E301M	37	RPF2BBD	RPM42ED	27	RSL1PRPU	15	RUMF2AB1FD	23
ABR1E311F	37	RPF2BF7	RPM42F7	27	RSL1PVB	15	RUMF2AB1JD	23
ABR1E311M	37	RPF2BFD	RPM42FD	27	RSL1PVEU	15	RUMF2AB1P7	23
ABR1E312F	37	RPF2BJD	RPM42JD	27	RSL1PVFU	15	RUMF2AB2B7	23
ABR1E318B	37	RPF2BP7	RPM42P7	27	RSL1PVJU	15	RUMF2AB2BD	23
ABR1E318E	37	RPM11B7	RPZ1DA	29	RSL1PVP	15	RUMF2AB2E7	23
ABR1E411F	37	RPM11BD	RPZ1FA	29	RSLZ2	15	RUMF2AB2ED	23
ABR1E411M	37	RPM11E7	RPZ3DA	29	RSLZ3	15	RUMF2AB2F7	23
ABR1E412F	37	RPM11ED	RPZ3FA	29	RSLZ5	15	RUMF2AB2FD	23
ABR1E418B	37	RPM11F7	RPZ4DA	29	RSLZRA1	15	RUMF2AB2JD	23
ABR1E418E	37	RPM11FD	RPZ4FA	29	RSLZRA2	15	RUMF2AB2P7	23
ABR1S102B	37	RPM11JD	RPZF1	28	RSLZRA3	15	RUMF3AB1B7	23
ABR1S111F	37	RPM11P7	RPZF2	28	RSLZRA4	15	RUMF3AB1BD	23
ABR1S118B	37	RPM12B7	RPZF3	28	RSLZVA1	15	RUMF3AB1E7	23
ABR1S118E	37	RPM12BD	RPZF4	28	RSLZVA2	15	RUMF3AB1ED	23
ABR1S1302B	37	RPM12E7	RPZR235	29	RSLZVA3	15	RUMF3AB1F7	23
ABR1S311F	37	RPM12ED	RSB1A120B7	17	RSLZVA4	15	RUMF3AB1FD	23
ABR1S318B	37	RPM12F7	RSB1A120BD	17	RSZE1S35M	17	RUMF3AB1JD	23
ABR1S318E	37	RPM12FD	RSB1A120E7	17	RSZE1S48M	17	RUMF3AB1P7	23
ABR1S402B	37	RPM12JD	RSB1A120ED	17	RSZL300	17	RUMF3AB2B7	23
ABR1S411F	37	RPM12P7	RSB1A120F7	17	RSZR215	17	RUMF3AB2BD	23
ABR1S418B	37	RPM21B7	RSB1A120FD	17	RUMC2AB1B7	23	RUMF3AB2E7	23
ABR1S418E	37	RPM21BD	RSB1A120JD	17	RUMC2AB1BD	23	RUMF3AB2ED	23
ABR1S602B	37	RPM21E7	RSB1A120M7	17	RUMC2AB1E7	23	RUMF3AB2F7	23
ABR1S611F	37	RPM21ED	RSB1A120ND	17	RUMC2AB1ED	23	RUMF3AB2FD	23
ABR1S618B	37	RPM21F7	RSB1A120P7	17	RUMC2AB1FD	23	RUMF3AB2JD	23
ABR1S618E	37	RPM21FD	RSB1A120RD	17	RUMC2AB1F7	23	RUMF3AB2P7	23
ABR2E111M	39	RPM21JD	RSB1A120U7	17	RUMC2AB1FD	23	RUMF3AB2P7	23
ABR2E112B	39	RPM21P7	RSB1A160B7	17	RUMC2AB1JD	23	RUMF3AB2P7	23
ABR2E112E	39	RPM22B7	RSB1A160BD	17	RUMC2AB1P7	23	RUMF3AB2P7	23
ABR2E115F	39	RPM22BD	RSB1A160E7	17	RUMC2AB1P7	23	RUMF3AB2P7	23
ABR2E116F	39	RPM22ED	RSB1A160ED	17	RUMC2AB2B7	23	RUMF3AB2P7	23
ABR2EB312B	39	RPM22E7	RSB1A160FD	17	RUMC2AB2BD	23	RUMF3AB2P7	23
ABR2S102B	39	RPM22F7	RSB1A160FD	17	RUMC2AB2E7	23	RUMF3AB2P7	23
ABR2S112B	39	RPM22FD	RSB1A160JD	17	RUMC2AB2ED	23	RUMF3AB2P7	23
ABR2SB312B	39	RPM22JD	RSB1A160M7	17	RUMC2AB2F7	23	RUMF3AB2P7	23
ABS2EA01EF	41	RPM22P7	RSB1A160ND	17	RUMC2AB2FD	23	RUMF3AB2P7	23
ABS2EA01EM	41	RPM31B7	RSB1A160P7	17	RUMC2AB2JD	23	RUMF3AB2P7	23
ABS2EA02EF	41	RPM31BD	RSB1A160RD	17	RUMC2AB2P7	23	RUMF3AB2P7	23
ABS2EA02EM	41	RPM31E7	RSB1A160U7	17	RUMC2AB2P7	23	RUMF3AB2P7	23
ABS2EC01EA	41	RPM31ED	RSB2A080B7	17	RUMC2AB2P7	23	RUMF3AB2P7	23
ABS2EC01EB	41	RPM31F7	RSB2A080BD	17	RUMC2AB2P7	23	RUMF3AB2P7	23
ABS2EC01EE	41	RPM31FD	RSB2A080E7	17	RUMC2AB2P7	23	RUMF3AB2P7	23
ABS2SA01MB	41	RPM31JD	RSB2A080ED	17	RUMC2AB2P7	23	RUMF3AB2P7	23
ABS2SA02MB	41	RPM31P7	RSB2A080F7	17	RUMC2AB2P7	23	RUMF3AB2P7	23
ABS2SC01EB	41	RPM32B7	RSB2A080FD	17	RUMC2AB2P7	23	RUMF3AB2P7	23
		RPM32BD	RSB2A080JD	17	RUMC2AB2P7	23	RUMF3AB2P7	23
		RPM32E7	RSB2A080M7	17	RUMC2AB2P7	23	RUMF3AB2P7	23
		RPM32ED	RSB2A080ND	17	RUMC2AB2P7	23	RUMF3AB2P7	23
		RPM32F7	RSB2A080P7	17	RUMC2AB2P7	23	RUMF3AB2P7	23
		RPM32FD	RSB2A080RD	17	RUMC2AB2P7	23	RUMF3AB2P7	23

RXM2AB1FD	19	RXM4GB1ED	20	SSRPCDM12D5	45
RXM2AB1JD	19	RXM4GB1F7	20	SSRPCDM25D5	45
RXM2AB1P7	19	RXM4GB1FD	20	SSRPCDM40D5	45
RXM2AB2B7	19	RXM4GB1JD	20	SSRPCDS10A1	45
RXM2AB2B7TQ	20	RXM4GB1P7	20	SSRPCDS25A1	45
RXM2AB2BD	19	RXM4GB2B7	20	SSRPCDS50A1	45
RXM2AB2E7	19	RXM4GB2BD	20	SSRPCDS75A2	45
RXM2AB2ED	19	RXM4GB2E7	20	SSRPCDS90A3	45
RXM2AB2F7	19	RXM4GB2ED	20	SSRPCDS125A3	45
RXM2AB2FD	19	RXM4GB2F7	20	SSRPP8S10A1	45
RXM2AB2JD	19	RXM4GB2FD	20	SSRPP8S25A1	45
RXM2AB2P7	19	RXM4GB2JD	20	SSRPP8S75A2	45
RXM2AB2P7TQ	20	RXM4GB2P7	20	SSRPP8S90A3	45
RXM3AB1B7	19	RXM4GB2U7	20	SSRPP8S125A3	45
RXM3AB1BD	19	RXM021BN	21		
RXM3AB1E7	19		28		
RXM3AB1ED	19	RXM021FP	21		
RXM3AB1F7	19		28		
RXM3AB1FD	19	RXM021RB	21		
RXM3AB1JD	19		28		
RXM3AB1P7	19	RXM040W	21		
RXM3AB2B7	19		28		
RXM3AB2BD	19	RXM041BN7	21		
RXM3AB2E7	19		28		
RXM3AB2ED	19	RXM041BN7	28		
RXM3AB2F7	19	RXM041FU7	21		
RXM3AB2FD	19		28		
RXM3AB2JD	19	RXZ400	21		
RXM3AB2P7	19	RXZE2DA	21		
RXM4AB1B7	19	RXZE2DA	29		
RXM4AB1B7TQ	20	RXZE2FA	21		
RXM4AB1BD	19	RXZE2FA	29		
RXM4AB1BDTQ	20	RXZE2M114	21		
RXM4AB1E7	19	RXZE2M114M	21		
RXM4AB1E7TQ	20	RXZE2S108M	21		
RXM4AB1ED	19	RXZE2S111M	21		
RXM4AB1EDTQ	20	RXZE2S114M	21		
RXM4AB1F7	19	RXZE2S114S	21		
RXM4AB1F7TQ	20	RXZL420	21		
RXM4AB1FD	19	RXZL520	21		
RXM4AB1FDTQ	20		25		
RXM4AB1JD	19		29		
RXM4AB1JDTQ	20	RXZR335	21		
RXM4AB1MD	19	RXZS2	21		
RXM4AB1MDTQ	20	RZM021BN	17		
RXM4AB1P7	19	RZM021FP	17		
RXM4AB1P7TQ	20	RZM021RB	17		
RXM4AB1U7	19	RZM031BN	17		
RXM4AB2B7	19	RZM031FPD	17		
RXM4AB2B7TQ	20	RZM031RB	17		
RXM4AB2BD	19	RZM040W	17		
RXM4AB2BDTQ	20	RZM041BN7	17		
RXM4AB2E7	19	RZM041FU7	17		
RXM4AB2ED	19				
RXM4AB2F7	19	S			
RXM4AB2FD	19	SSRAH1	45		
RXM4AB2GD	19	SSRAT1	45		
RXM4AB2JD	19	SSRDCDS10A1	45		
RXM4AB2P7	19	SSRDCDS20A1	45		
RXM4AB2P7TQ	20	SSRDCDS30A1	45		
RXM4GB1B7	20	SSRDCDS45A1	45		
RXM4GB1BD	20	SSRDF8S45A1	45		
RXM4GB1E7	20	SSRDP8S10A1	45		
		SSRDP8S20A1	45		
		SSRDP8S30A1	45		

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