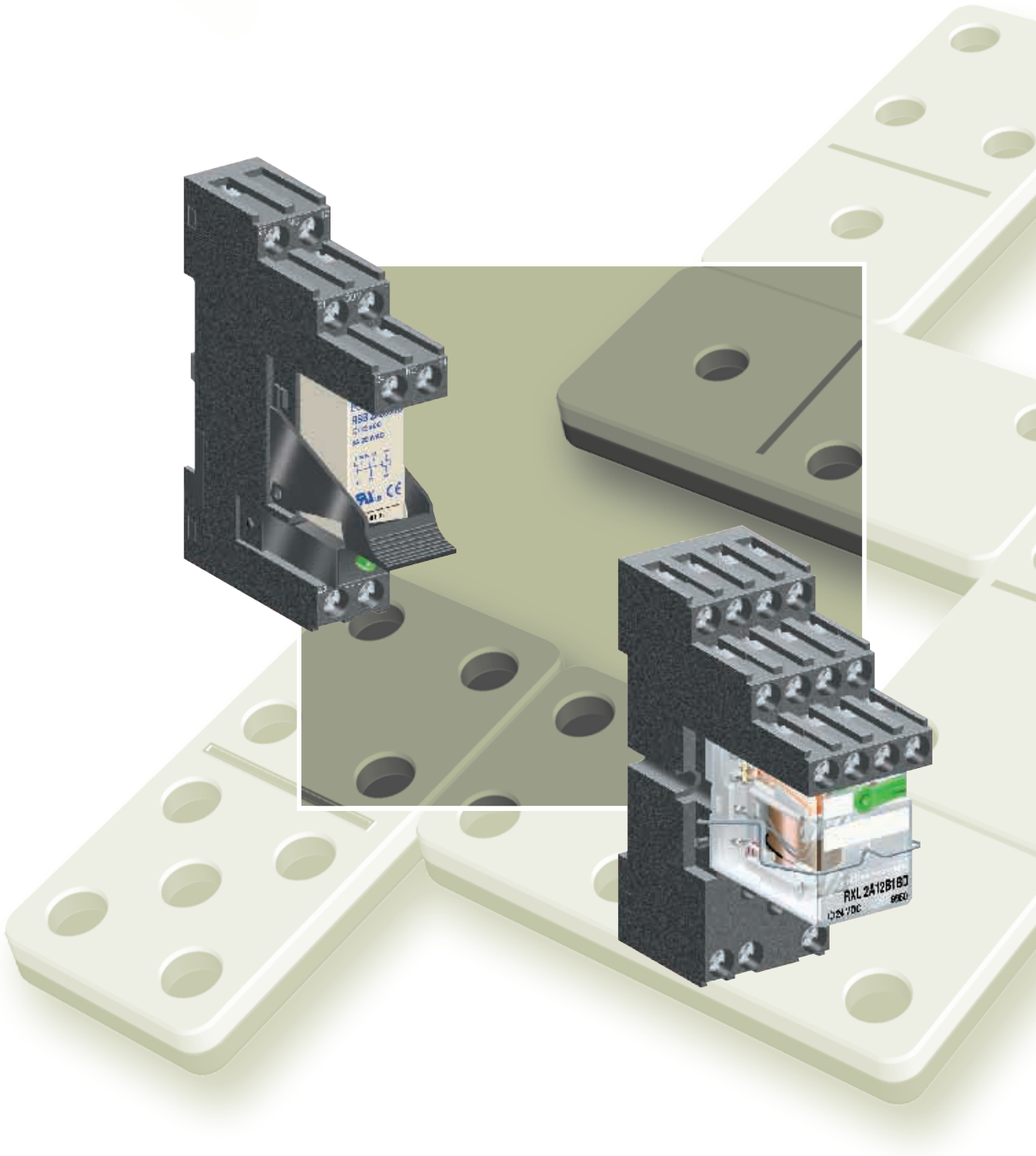
Telemecanique

Zelio Relay

complementary

and easy to assemble



Telemecanique

Schneider Electric

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RS interface relays

- **Compact dimensions, enabling multiplication of contacts in electrical enclosures.**
- **Plug-in relay, fast and easy interchangeability.**
- Simplicity; no adjustment required in normal use.
- **Function marking on relay.**





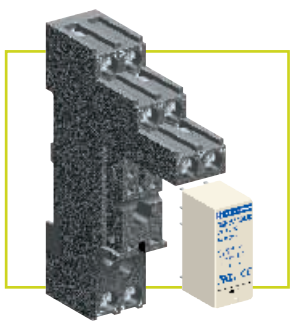
CONTACT				COIL									
Number & type	Rated current A	Max switching voltage DC/AC	Min switching voltage DC	Rated voltage V DC				Rated voltage V AC 50-60 Hz				Rated power VA	Rated power W
2	8	250/400	5	12 V	24 V	48 V	120 V	24 V	48 V	120 V	230 V	0.75	0.45
* RSB2A080				JD	BD	ED	FD	B7	E7	F7	P7		



CONTACT				COIL									
Number & type	Rated current A	Max switching voltage DC/AC	Min switching voltage DC	Rated voltage V DC				Rated voltage V AC 50-60 Hz				Rated power VA	Rated power W
1	12	250/400	5	12 V	24 V	48 V	120 V	24 V	48 V	120 V	230 V	0.75	0.45
* RSB1A120				JD	BD	ED	FD	B7	E7	F7	P7		



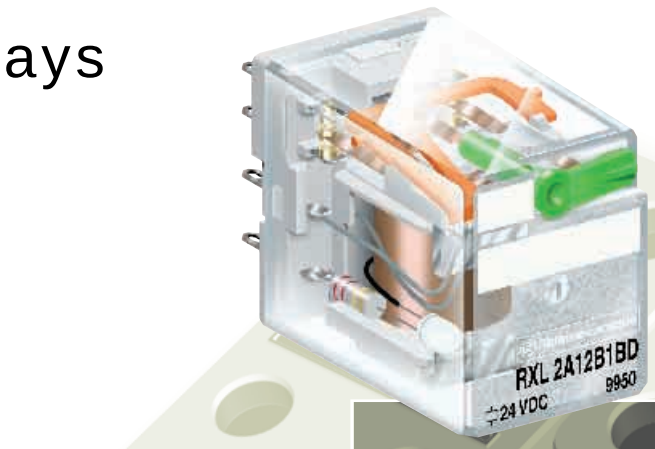
CONTACT				COIL									
Number & type	Rated current A	Max switching voltage DC/AC	Min switching voltage DC	Rated voltage V DC				Rated voltage V AC 50-60 Hz				Rated power VA	Rated power W
1	16	250/400	5	12 V	24 V	48 V	120 V	24 V	48 V	120 V	230 V	0.75	0.45
* RSB1A160				JD	BD	ED	FD	B7	E7	F7	P7		



* insert an **S** after the **complete** product reference to order **the relay and + its socket :** **RSB2A080JDS**

RX miniature relays

- **Choice of number of contacts.**
- Relay conforming to international standards.
- **Adaptable to all common voltages.**
- Fast and easy “plug-in” interchangeability.
- **Adjustment by manual control; LED relay state display.**
- Simplicity; no adjustment required in normal use.



2, 3 and 4 C/O contacts
5 - 6 - 10 - 12 A



CONTACT						COIL									
Number & type	Rated current A	Max switching voltage DC/AC	Min switching voltage DC	LED		Rated voltage V DC				Rated voltage V AC 50-60 Hz				Rated power VA	W
2	12	250/400	5	without	with	12 V	24 V	48 V	120 V	24 V	48 V	120 V	230 V	1.6	0.9
RXL2A12B				1	2	JD	BD	ED	FD	B7	E7	F7	P7		



CONTACT						COIL									
Number & type	Rated current A	Max switching voltage DC/AC	Min switching voltage DC	LED		Rated voltage V DC				Rated voltage V AC 50-60 Hz				Rated power VA	W
3	10	250/400	5	without	with	12 V	24 V	48 V	120 V	24 V	48 V	120 V	230 V	1.6	0.9
RXL3A10B				1	2	JD	BD	ED	FD	B7	E7	F7	P7		



CONTACT						COIL									
Number & type	Rated current A	Max switching voltage DC/AC	Min switching voltage DC	LED		Rated voltage V DC				Rated voltage V AC 50-60 Hz				Rated power VA	W
4	6	250/400	5	without	with	12 V	24 V	48 V	120 V	24 V	48 V	120 V	230 V	1.6	0.9
RXL4A06B				1	2	JD	BD	ED	FD	B7	E7	F7	P7		



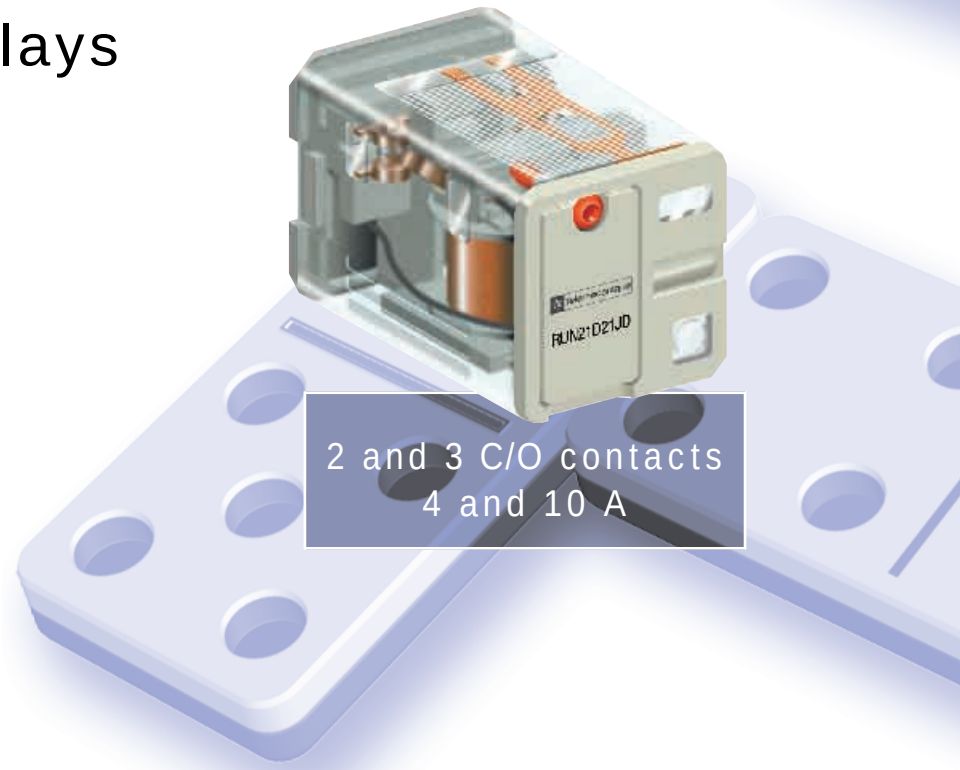
CONTACT						COIL									
Number & type	Rated current A	Max switching voltage DC/AC	Min switching voltage DC	LED		Rated voltage V DC				Rated voltage V AC 50-60 Hz				Rated power VA	W
2	5	250/250	5	without	with	12 V	24 V	48 V	120 V	24 V	48 V	120 V	230 V	1.9	0.9
RXN21E1				1	2	JD	BD	ED	FD	B7	E7	F7	P7		

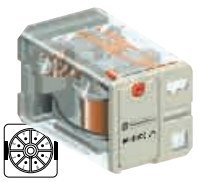


CONTACT						COIL									
Number & type	Rated current A	Max switching voltage DC/AC	Min switching voltage DC	LED		Rated voltage V DC				Rated voltage V AC 50-60 Hz				Rated power VA	W
4	5	250/250	5	without	with	12 V	24 V	48 V	120 V	24 V	48 V	120 V	230 V	1.9	0.9
RXN41G1				1	2	JD	BD	ED	FD	B7	E7	F7	P7		

RU universal relays

- **Choice of plug type (universal/flat tags).**
- Extremely wide power range.
- Adaptable to all common voltages.
- **Adjustment by manual control, LED relay state display.**
- Possibility of paralleling simplifies data processing.
- **Fast and easy "plug-in" interchangeability.**
- Simplicity; no adjustment required in normal use.





CONTACT					COIL									
Number & type	Rated current A	Max switching voltage DC/AC	Min switching voltage DC	LED	Rated voltage V DC				Rated voltage V AC 50-60 Hz				Rated power VA	W
2	10	220/250	10mA 17V	without / with	12 V	24 V	48 V	120 V	24 V	48 V	120 V	230 V	2.3	1.2
RUN21D2				1 / 2	JD	BD	ED	FD	B7	E7	F7	P7		



CONTACT					COIL									
Number & type	Rated current A	Max switching voltage DC/AC	Min switching voltage DC	LED	Rated voltage V DC				Rated voltage V AC 50-60 Hz				Rated power VA	W
3	10	220/250	10mA 17V	without / with	12 V	24 V	48 V	120 V	24 V	48 V	120 V	230 V	2.3	1.2
RUN31A2				1 / 2	JD	BD	ED	FD	B7	E7	F7	P7		



CONTACT					COIL									
Number & type	Rated current A	Max switching voltage DC/AC	Min switching voltage DC	LED	Rated voltage V DC				Rated voltage V AC 50-60 Hz				Rated power VA	W
3	4	220/250	3mA 5V	without / with	12 V	24 V	48 V	120 V	24 V	48 V	120 V	230 V	2.3	1.2
RUN33A2				1 / 2	JD	BD	ED	FD	B7	E7	F7	P7		

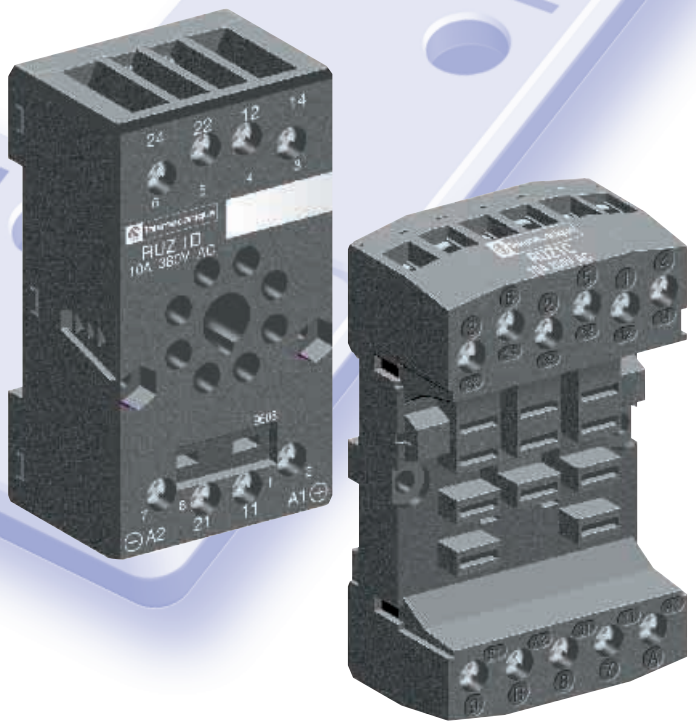


CONTACT					COIL									
Number & type	Rated current A	Max switching voltage DC/AC	Min switching voltage DC	LED	Rated voltage V DC				Rated voltage V AC 50-60 Hz				Rated power VA	W
2	10	220/250	20	without / with	12 V	24 V	48 V	120 V	24 V	48 V	120 V	230 V	3	1.5
RUN21C2				1 / 2	JD	BD	ED	FD	B7	E7	F7	P7		



CONTACT					COIL									
Number & type	Rated current A	Max switching voltage DC/AC	Min switching voltage DC	DEL	Rated voltage V DC				Rated voltage V AC 50-60 Hz				Rated power VA	W
3	10	220/250	20	without / with	12 V	24 V	48 V	120 V	24 V	48 V	120 V	230 V	3	1.5
RUN31C2				1 / 2	JD	BD	ED	FD	B7	E7	F7	P7		

RUZ sockets



- **DIN rail or panel mounting.**
- Cage terminal block connection.
- Conforms to international standards.
- **Highly compact enabling insertion of more functions in enclosures.**
- Easy integration into existing equipment.
- Simplicity of installation and connection.
- **A range of external accessories plug directly into socket.** (protection module, LED state display).



TERMINAL ARRANGEMENT		MODULE	VOLTAGE	CURRENT	DIMENSIONS
Coil/contact					H x W x D
mixed	RUZ1D	None	400 VAC	10 A	66.5 x 37.5 x 25 mm
mixed	RUZ7D	Type E2			75 x 38 x 26 mm



TERMINAL ARRANGEMENT		MODULE	VOLTAGE	CURRENT	DIMENSIONS
Coil/contact					H x W x D
mixed	RUZ1A	None	400 VAC	10 A	66.5 x 37.5 x 25 mm
mixed	RUZ7A	Type E2			75 x 38 x 26 mm



TERMINAL ARRANGEMENT		MODULE	VOLTAGE	CURRENT	DIMENSIONS
Coil/contact					H x W x D
mixed	RUZ1A	None	400 VAC	10 A	66.5 x 37.5 x 25 mm
mixed	RUZ7A	Type E2			75 x 38 x 26 mm

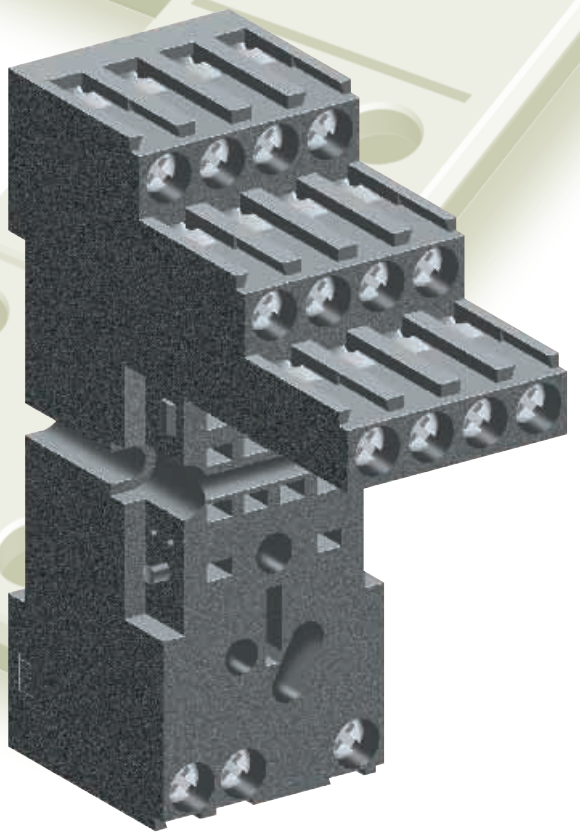


TERMINAL ARRANGEMENT		MODULE	VOLTAGE	CURRENT	DIMENSIONS
Coil/contact					H x W x D
mixed	RUZ1C	None	250 VAC	10 A	72 x 44 x 26 mm

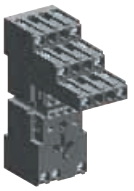


TERMINAL ARRANGEMENT		MODULE	VOLTAGE	CURRENT	DIMENSIONS
Coil/contact					H x W x D
mixed	RUZ1C	None	250 VAC	10 A	72 x 44 x 26 mm

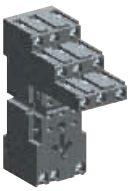
RXZE sockets



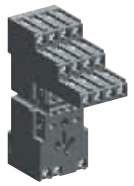
- **DIN rail or panel mounting.**
- Cage terminal block connection.
- **Conforms to international standards.**
- Highly compact enabling insertion of more functions in enclosures.
- Possibility of paralleling.
- Simplicity of installation and connection.
- **Easy integration into existing equipment.**
- **A range of external accessories plug directly into socket.** (protection module, LED state display).



TERMINAL ARRANGEMENT		MODULE	VOLTAGE	CURRENT	DIMENSIONS
Coil/contact					H x W x D
separate	RXZE1S108M	Type E	300 VAC	12 A	75 x 27 x 61 mm
mixed	RXZE1M114	None		10 A	



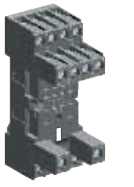
TERMINAL ARRANGEMENT		MODULE	VOLTAGE	CURRENT	DIMENSIONS
Coil/contact		Yes			H x W x D
separate	RXZE1S111M	Type L	300 VAC	12 A	75 x 27 x 61 mm



TERMINAL ARRANGEMENT		MODULE	VOLTAGE	CURRENT	DIMENSIONS
Coil/contact					H x W x D
separate	RXZE1S114M	Type E	300 VAC	12 A	75 x 27 x 61 mm
mixed	RXZE1M114	None		10 A	

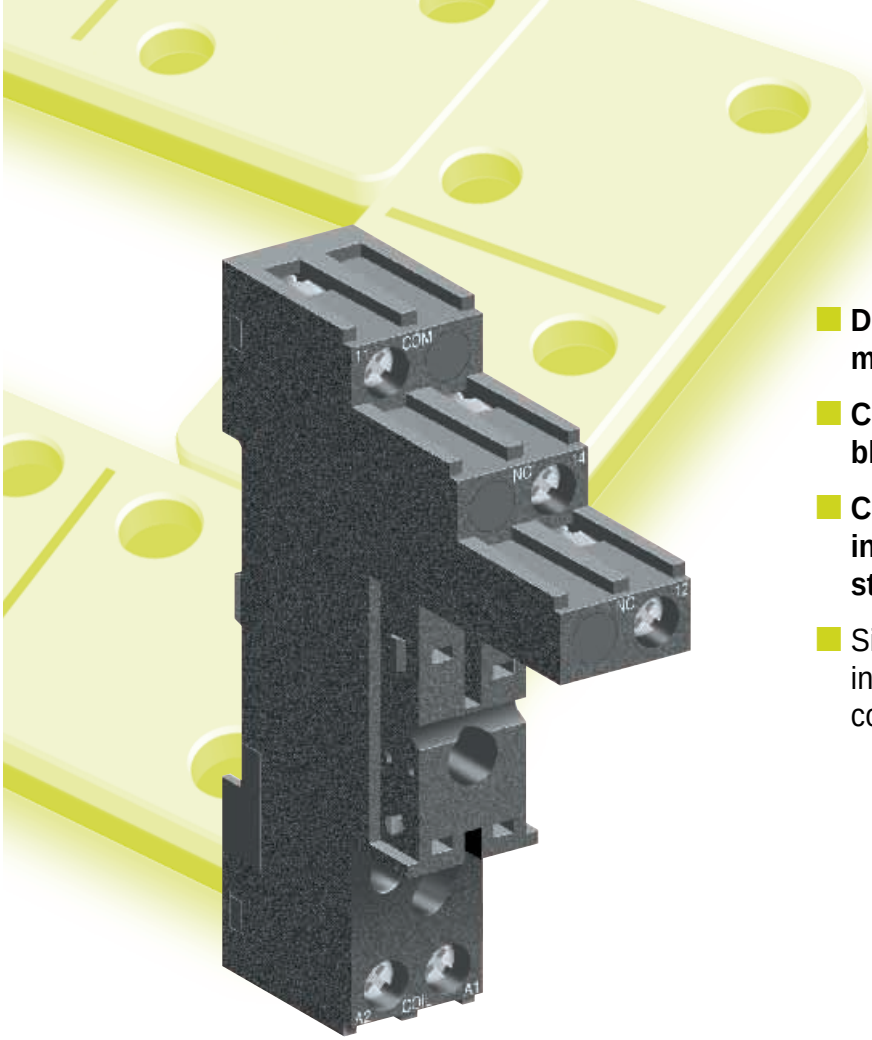


TERMINAL ARRANGEMENT		MODULE	VOLTAGE	CURRENT	DIMENSIONS
Coil/contact					H x W x D
separate	RXZE1M108M	Type E	300 VAC	12 A	75 x 27 x 61 mm
mixed	RXZ7G	Type L	250 VAC	5 A	74 x 27.4 x 42 mm
mixed	RXZE1M114	None	300 VAC	10 A	66 x 29.5 x 29 mm



TERMINAL ARRANGEMENT		MODULE	VOLTAGE	CURRENT	DIMENSIONS
Coil/contact					H x W x D
separate	RXZE1M114M	Type E	300 VAC	12 A	75 x 27 x 61 mm
mixed	RXZ7G	Type L	250 VAC	5 A	74 x 27.4 x 42 mm
mixed	RXZE1M114	None	300 VAC	10 A	66 x 29.5 x 29 mm

RSZE sockets



- **DIN rail or panel mounting.**
- **Cage terminal block connection.**
- **Conforms to international standards.**
- Simplicity of installation and connection.
- Possibility of paralleling.
- Easy integration into existing equipment.
- **Function marking on socket.**
- **A range of external accessories plug directly into socket.** (protection module, LED state display).



TERMINAL ARRANGEMENT	MODULE	VOLTAGE	CURRENT	DIMENSIONS
Coil/contact separate	Yes Type E	300 VAC	12 A	H x W x D 78.5 x 15.5 x 61 mm

RSZE1S48M



TERMINAL ARRANGEMENT	MODULE	VOLTAGE	CURRENT	DIMENSIONS
Coil/contact separate	Yes Type E	300 VAC	12 A	H x W x D 78.5 x 15.5 x 61 mm

RSZE1S35M

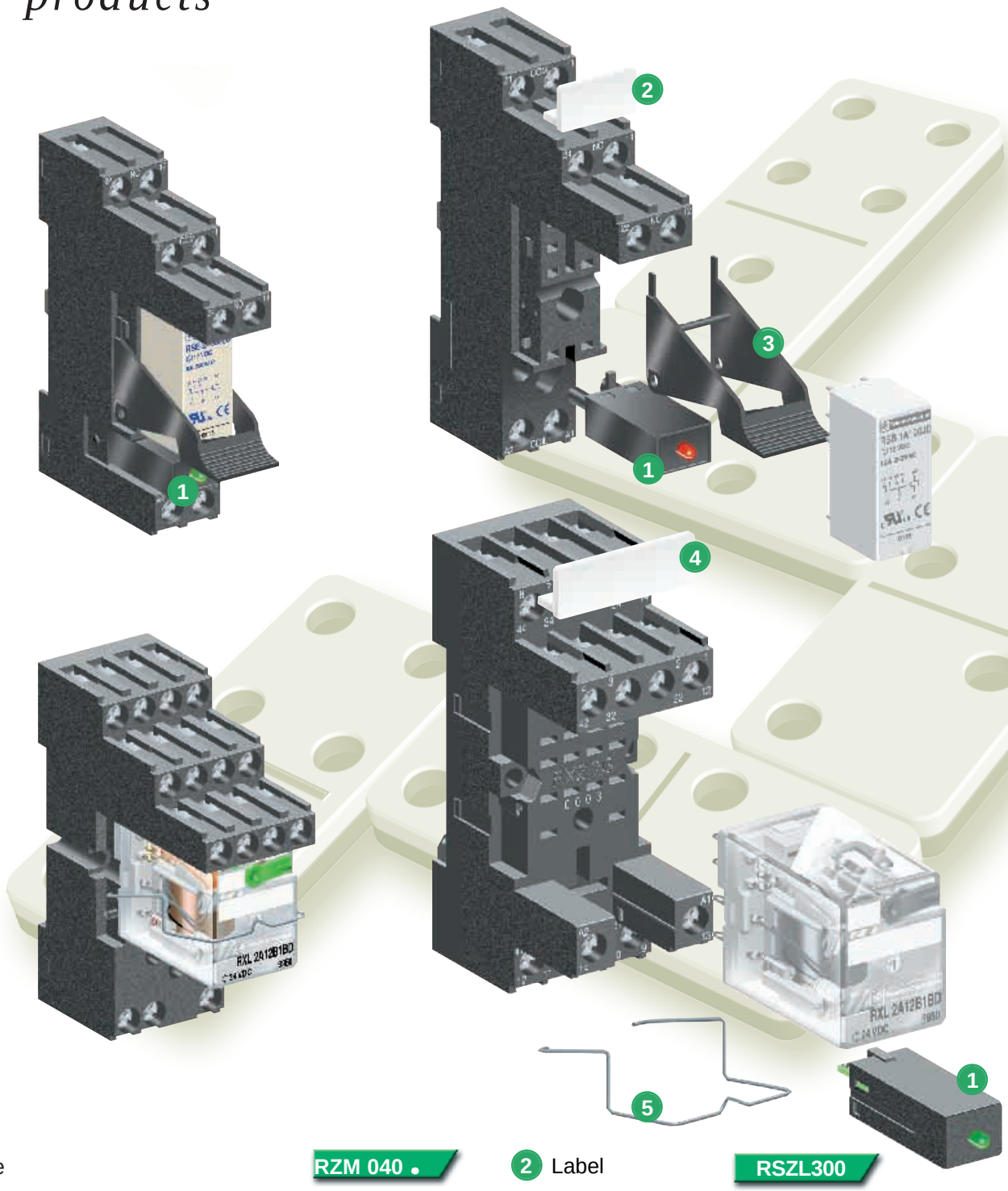


TERMINAL ARRANGEMENT	MODULE	VOLTAGE	CURRENT	DIMENSIONS
Coil/contact separate	Yes Type E	300 VAC	12 A	H x W x D 78.5 x 15.5 x 61 mm

RSZE1S48M

Accessories

New products



1	Diode	RZM 040 •	2	Label	RSZL300
	Surge Suppressor + green LED (DC)	RZM 031 •••	3	Maintaining clamp	RSZR215
	Surge Suppressor + green LED (AC)	RZM 021 ••	4	Label	RXZL320
	RC circuit	RZM 041 •••	5	Maintaining clamp	RXZR235

(• according to voltage)

Schneider Electric Industries S.A.

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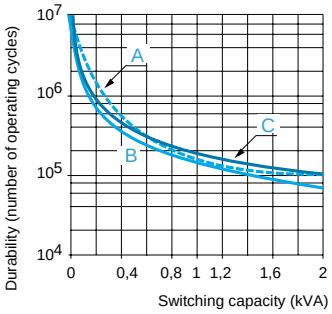
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Zelio Relay plug-in relays
Interface relays

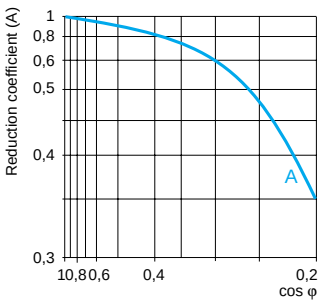
Relay type				RSB 2A080●●	RSB 1A120●●	RSB 1A160●●
Contact characteristics						
Number and type of contacts				2 C/O	1 C/O	1 C/O
Contact materials				(AgNi)		
Conventional rated thermal current (Ith)	For temperature ⩽ 40°C		**A**	8	12	16
Maximum operating rate In operating cycles/h	No-load			72 000		
	Under load			600		
Switching voltage	Minimum		**V**	5		
	Maximum		**V**	∿ 400, ⎓ 250		
Maximum breaking capacity			**VA**	2000	3000	4000
Coil characteristics						
Rated voltage (Un)		∿	**V**	24…240, 50/60 Hz		
		⎓	**V**	6…110		
Average consumption		∿	**VA**	0.75		
		⎓	**W**	0.45		
Permissible voltage variation				0.8…1.1 Un (50/60 Hz or ⎓) à 20 °C		
Drop-out voltage threshold		∿		≥ 0.15		
		⎓		≥ 0.1 Un		
Environment						
Conforming to standards	Standard version			IEC 61810-1		
Approvals (pending)	Standard version			UL, CSA		
Ambient air temperature around the device	Storage		**°C**	- 40…+ 85		
	Operation		**°C**	⎓ - 40…+ 85, ∿ - 40...+ 70		
Vibration resistance	Conforming to IEC 68-2-6			> 10 gn (10…150 Hz)		
Degree of protection				IP 40		
Shock resistance				10 gn (closing), 5 gn (opening)		
Mechanical durability	In millions of operating cycles			≥ 30		
Operating time (response time)	Between coil energisation and making of the On-delay contact	∿	**ms**	About 12		
		⎓	**ms**	About 9		
	Between coil de-energisation and making of the Off-delay contact	∿	**ms**	About 10		
		⎓	**ms**	About 4		
Electrical durability In millions of operating cycles/h	Resistive load			8 A - 250 V : ≥ 0.1		16 A - 250 V : ≥ 0.07
	Inductive load			See curves below		
Insulation characteristics						
Rated insulation voltage (Ui)	Conforming to IEC 947		**V**	400		
Insulation class	Conforming to VDE 0110			C 250		
Dielectric strength (rms voltage)	Between coil and contact	∿	**V**	5000		
	Between poles		**V**	2500		
	Between contacts	∿	**V**	1000		

Electrical durability of the contacts
Resistive load ∿

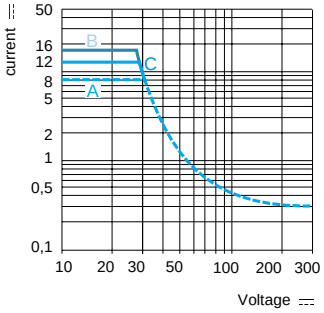


A ***RSB 2A080●●***
B ***RSB 1A160●●***
C ***RSB 1A120●●***

Reduction coefficient for inductive load ∿ (depending on power factor cos φ)



Maximum switching capacity on a resistive load ⎓



Durability (inductive load) = durability (resistive load) x reduction coefficient.

References : page 28041/3
Dimensions : page 28046/2
Schemes : page 28047/2

Zelio Relay plug-in relays
Interface relays

References

560582



RSB 2A080BD + RSZ E1S48M

560583



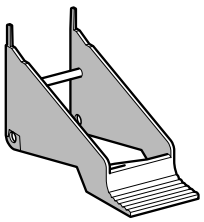
RSB 1A120JD + RZM 030FPD + RSZ E1S35M

560584



RSB 1A160BD + RSZ E1S48M

560585



RSZ 215

Relays for standard applications

Number of C/O contacts	Conventional rated thermal current	Sold in lots of	Unit reference, to be completed by adding the control voltage code *(1) (2)*	Weight
	A			kg
2	8	10	RSB 2A080●●	0.014
1	12	10	RSB 1A120●●	0.014
	16	10	RSB 1A160●●	0.014

Protection modules

Description	Type	Voltage		Sold in lots of	Unit reference	Weight
		V				kg
Diode	E	⎓	6…230	10	RZM 040W	0.003
Diode + LED	E	⎓	6…24	10	RZM 031RB	0.004
		⎓	24…60	10	RZM 031BN	0.004
		⎓	110…230	10	RZM 031FPD	0.004
Varistor + LED	E	⎓ or ∿	6…24	10	RZM 021RB	0.005
		⎓ or ∿	24…60	10	RZM 021BN	0.005
		⎓ or ∿	110…230	10	RZM 021FP	0.005
RC circuit	E	∿	24…60	10	RZM 041BN7	0.010
		∿	110…240	10	RZM 041FU7	0.010

Sockets - 12 A, ∿ 300 V

For use with	Sold in lots of	Unit reference	Weight kg
RSB 2A080 and RSB 1A160	10	RSZ E1S48M	0.050
RSB 1A120	10	RSZ E1S35M	0.060

Accessories

Application	Sold in lots of	Unit reference	Weight kg
Maintaining clamp	10	RSZ R215	0.002
Legend	10	RSZ L300	0.001

(1) Standard control circuit voltages

Volts	6	12	24	48	60	110	120	220	230	240
⎓	RD	JD	BD	ED	ND	FD	–	–	–	–
∿ 50/60 Hz	–	–	B7	E7	–	–	F7	M7	P7	U7

For other voltages, please consult your Regional Sales Office.

*(2) To order a relay complete with socket: add suffix **S** to the references selected above.*
*Example: **RSB 2A080●● becomes RSB 2A080●●S***

Coil characteristics

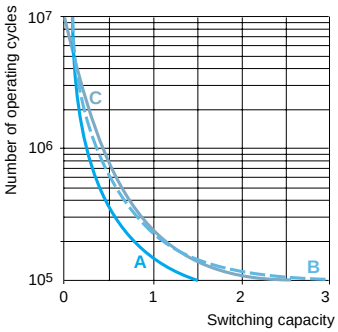
Control circuit voltage Uc	d.c. supply: Average resistance at 20 °C ± 10%	Cod.	Operating voltage limits Min	Operating voltage limits Max	a.c. supply, 50/60 Hz: Average resistance at 20 °C ± 15 %	Cod.	Operating voltage limits Min	Operating voltage limits Max
V	Ω		V	V	Ω		V	V
6	90	RD	4.2	15.3	–	–	–	–
12	360	JD	8.4	30.6	–	–	–	–
24	1440	BD	16.8	61.2	400	B7	19.2	26.4
48	5700	ED	33.6	122.4	1550	E7	38.4	32.8
60	7500	ND	42	153	–	–	–	–
110	25 200	FD	77	280	–	–	–	–
120	–	–	–	–	10 200	F7	96	132
220	–	–	–	–	35 500	M7	176	242
230	–	–	–	–	38 500	P7	184	253
240	–	–	–	–	42 500	U7	192	264

Characteristics : page 28041/2
Dimensions : page 28046/2
Schemes : page 28047/2

Zelio Relay plug-in relays
Miniature relays

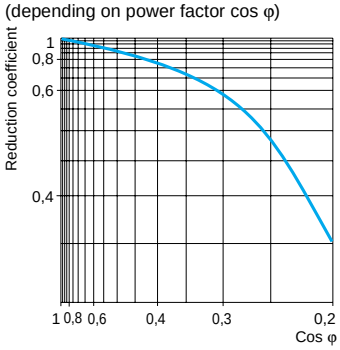
Relay type				RXL 2A12B●●●	RXL 3A10B●●●	RXL 4A06B●●●	RXL 4G06B●●●
Contact characteristics							
Number and type of contacts				2 C/O	3 C/O	4 C/O	
Contact materials				(AgNi)			AgNI/AU 0.2 µ
Rated conventional thermal current (Ith)	For temperature ⩽ 40°C		**A**	12	10	6	
Maximum operating rate In operating cycles/h	No-load			18 000			
	Under load			1200			
Switching voltage	Minimum		**V**	5			
	Maximum		**V**	∿ 400, ⎓ 250			
Maximum breaking capacity			**VA**	3000	2500	1500	
Coil characteristics							
Rated voltage (Un)		∿	**V**	24…230, 50/60 Hz			
		⎓	**V**	12…110			
Average consumption		∿	**VA**	1.6			
		⎓	**W**	0.9			
Permissible voltage variation				0.8…1.1 Un (50/60 Hz or ⎓)			
Drop-out voltage threshold		∿		⩾ 0.15 Un			
		⎓		⩾ 0.1 Un			
Environment							
Conforming to standards	Standard version			IEC 61810-1			
Approvals (pending)	Standard version			UL, CSA			
Ambient air temperature around the device	Storage		**°C**	- 40…+ 85			
	Operation		**°C**	⎓ - 40…+ 70, ∿ - 40...+ 55			
Vibration resistance	To IEC 68-2-6			> 5 gn (10…150 Hz)			
Degree of protection				IP 40			
Shock resistance				10 gn (closing), 5 gn (opening)			
Mechanical durability	In millions of operating cycles			⩾ 20		⩾ 20	
Operating time (response time)	Between coil energisation and making of the On-delay contact	∿	**ms**	About 12			
		⎓	**ms**	About 12			
	Between coil de-energisation and making of the Off-delay contact	∿	**ms**	About 12			
		⎓	**ms**	About 4			
Electrical durability In millions of operating cycles/h	Resistive load			12 A - 250 V: ⩾ 0.1	10 A - 250 V: ⩾ 0.1	6 A - 250 V: ⩾ 0.1	
	Inductive load			See curves below			
Insulation characteristics							
Rated insulation voltage (Ui)	Conforming to IEC 947		**V**	250			
Insulation class	Conforming to VDE 0110			C 250		B 250	
Dielectric strength (rms voltage)	Between coil and contact	∿	**V**	2500			
	Between poles		**V**	2500		2000	
	Between contacts	∿	**V**	1500			

Electrical durability of the contacts
Resistive load ∿



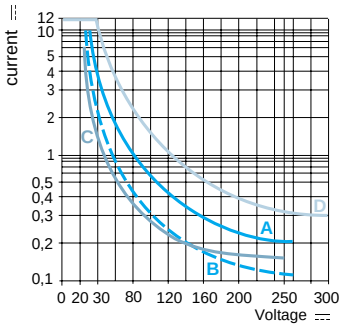
A ***RXL 4***
B ***RXL 2***
C ***RXL 3***

Reduction coefficient for inductive load ∿ (depending on power factor cos φ)



RXL 2, ***RXL 3*** *and* ***RXL 4***

Maximum switching capacity on a resistive load ⎓



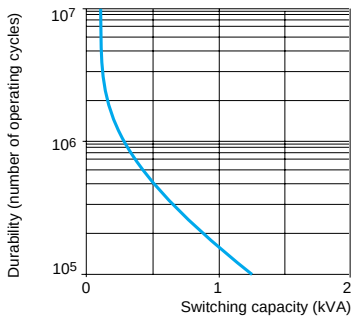
A ***RXL 3*** *(T = 0 ms)*
B ***RXL 3*** *(T = 40 ms)*
C ***RXL 4***
D ***RXL 2***

Durability (inductive load) = durability (resistive load) x reduction coefficient

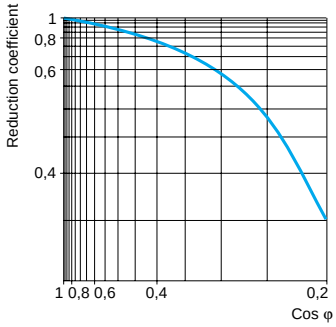
References: pages 28042/4 and 28042/5
Dimensions: page 28046/2
Schemes: page 28047/2

Relay type				RXN 21E1●●●	RXN 41G1●●●
Contact characteristics					
Number and type of contacts				2 C/O	4 C/O
Contact materials				AgNI	
Conventional rated thermal current (Ith)	For temperature ⩽ 40°C		**A**	5	
Maximum operating rate In operating cycles/h	No-load			7200	
	Under load			3600	
Switching voltage	Minimum		**V**	5	
	Maximum		**V**	400 ∿ , 250 ⎓	
Maximum breaking capacity			**VA**	1250	1250
Coil characteristics					
Rated voltage (Un)		∿	**V**	24…230, 50/60 Hz	
		⎓	**V**	12…110	
Average consumption		∿	**VA**	1.9	
		⎓	**W**	0.9	
Permissible voltage variation				0.8…1.1 Un (50/60 Hz or ⎓)	
Drop-out voltage threshold		∿		⩾ 0.15 Un	
		⎓		⩾ 0.1 Un	
Environment					
Conforming to standards	Standard version			IEC 61 810-1	
Approvals (pending)	Standard version			CSA, UL	
Ambient air temperature around the device	Storage		**°C**	- 40…+ 70	
	Operation		**°C**	- 20…+ 50	
Vibration resistance	Conforming to IEC 68-2-6			> 5 gn (30…150 Hz)	
Degree of protection				IP 40	
Shock resistance				20 gn	
Mechanical durability	In millions of operating cycles			20	
Operating time (response time	Between coil energisation and making of the On-delay contact	∿	**ms**	About 12	
		⎓	**ms**	About 12	
	Between coil de-energisation and making of the Off-delay contacts	∿	**ms**	About 12	
		⎓	**ms**	About 4	
Electrical durability In millions of operating cycles/h	Resistive load			5 A / 250 V	
	Inductive load			See curves below	
Insulation characteristics					
Rated insulation voltage (Ui)	Conforming to IEC 947		**V**	250	
Insulation class	Conforming to VDE 0110			A 250	
Dielectric strength (rms voltage)	Between coil and contact	∿	**V**	2000	
	Between poles		**V**	2000	
	Between contacts	∿	**V**	1500	

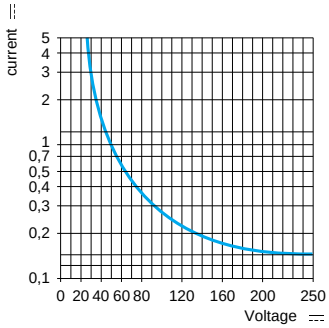
Electrical durability of the contacts
Resistive load ∿



Reduction coefficient for inductive load ∿ (depending on power factor cos φ)



Maximum switching capacity on a resistive load ⎓



Durability (inductive load) = durability (resistive load) x reduction coefficient

References:
pages 28042/4 and 28042/5

Dimensions:
page 28046/2

Schemes:
page 28047/2

Zelio Relay plug-in relays
Miniature relays

560586



RXN 21E12BD + RXZ E1M114

560587



RXL 4A06B1BD + RXZ E1S114M

560588



RXL 2A12B2BD + RXZ P20 + RXZ E1S108M

560589



RXL 2A12B2BD + RZM 030RB + RXZ P10 + RXZ E1S111M

References

Relays for standard applications *(1)*

Number of C/O contacts	Conventional rated thermal current	LED	Sold in lots of	Unit reference, to be completed by adding the control voltage code *(2)*	Weight
	A				kg
2	5	Red	10	**RXN 21E12●●**	0.035
		Without	10	**RXN 21E11●●**	0.034
	12	Green	10	**RXL 2A12B2●●**	0.036
		Without	10	**RXL 2A12B1●●**	0.035
3	10	Green	10	**RXL 3A10B2●●**	0.036
		Without	10	**RXL 3A10B1●●**	0.035
4	5	Red	10	**RXN 41G12●●**	0.035
		Without	10	**RXN 41G11●●**	0.034
	6	Green	10	**RXL 4A06B2●●**	0.036
		Without	10	**RXL 4A06B1●●**	0.035

Relays with gold-flashed contacts *(1)*

4	6	With	10	**RXL 4G06B1●●**	0.036
		Without	10	**RXL 4G06B2●●**	0.035

Protection modules for sockets RXZ 7G

Description	Type	Voltage		Sold in lots of	Unit reference	Weight
		V				kg
Diode	**L**	⎓	12…250	10	**RXW 040MD**	0.010

Protection modules for relay/sockets RXZ E●●●●M

Diode		⎓	6…230	10	**RZM 040W**	0.003
Diode + Green LED	**E**	⎓	6…24	10	**RZM 031RB**	0.004
		⎓	24…60	10	**RZM 031BN**	0.004
		⎓	110…230	10	**RZM 031FPD**	0.004
Varistor + Green LED	**E**	⎓ or ∿	6…24	10	**RZM 021RB**	0.005
		⎓ or ∿	24…60	10	**RZM 021BN**	0.005
		⎓ or ∿	110…230	10	**RZM 021FP**	0.005
RC circuit	**E**	∿	24…60	10	**RZM 041BN7**	0.010
		∿	110…240	10	**RZM 041FU7**	0.010

(2) Standard control circuit voltages

Volts		12	24	48	110	120	230
⎓		JD	BD	ED	FD	–	–
∿ **(50/60 Hz)**	RXN	–	B7	E7	F7	–	P7
	RXL	–	B7	E7	–	F7	P7

For other voltages, please consult your Regional Sales Office .

Coil characteristics

Control circuit voltage Uc	d.c. supply				a.c. supply, 50/60 Hz			
	Average resistance at 20 °C ± 10%	Cod.	Operating voltage limits		Average resistance at 20 °C ± 15 %	Cod.	Operating voltage limits	
			Min	Max			Min	Max
V	Ω		V	V	Ω		V	V
RXN relays								
12	160	**JD**	9.6	13.2	–	–	–	–
24	640	**BD**	19.2	26.4	150	**B7**	19.2	26.4
48	2600	**ED**	38.4	52.8	635	**E7**	38.4	52.8
110	13 600	**FD**	88	121	–	**F7**	–	–
230	–	–	–	–	15 400	**P7**	184	253
RXL relays								
12	160	**JD**	9.6	13.2	–	–	–	–
24	640	**BD**	19.2	26.4	158	**B7**	19.2	26.4
48	2600	**ED**	38.4	52.8	640	**E7**	38.4	52.8
110	13 600	**FD**	88	121	–	–	–	–
120	–	–	–	–	3770	**F7**	96	132
230	–	–	–	–	16 100	**P7**	184	253

(1) These relays have a lockable Test button on their front face, which can be converted to non-lockable or can be eliminated, see accessories on page opposite.

Characteristics: pages 28042/2 and 28042/3
Dimensions: page 28046/2
Schemes: page 28047/2

Zelio Relay plug-in relays
Miniature relays

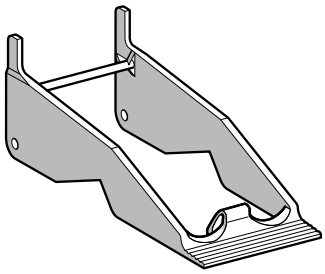
References

560590



RXZ 200

560591



RXZ R235

Sockets *(1)*

Protection module	Application	Type	I/O	Sold in lots of	Unit reference	Weight kg
Without	RXN 21, RXN 41, RXL 2A12 and RXL 4A06	L	Mixed	10	**RXZ E1M114**	0.048
With	RXN 21, RXN 41, RXL 2, RXL 4	E	Mixed	10	**RXZ 7G**	0.055
	RXN 21, RXL 2	E	Separate	10	**RXZ E1S108M**	0.058
	RXL 3A10	E	Separate	10	**RXZ E1S111M**	0.065
	RXN 4, RXL 4A06	E	Separate	10	**RXZ E1S114M**	0.070
		E	Mixed	10	**RXZ E1M114M**	0.070

Accessories

Description	Application	Sold in lots of	Unit reference	Weight kg
Button	For non-lockable Test function	20 *(2)*	**RXZ P20**	0.001
Blanking cover	For elimination of Test function	20 *(2)*	**RXZ P10**	0.001
Metal maintaining clamps	For use on all sockets	10	**RXZ 200**	0.001
Plastic maintaining clamps	RXZ E	10	**RSZ R235**	0.005
Legends	Clip-in fixing on socket RXZ-7G	10	**RXZ 300**	0.010
	Clip-in fixing on socket RXZ-7G in place of module RXW 040MD	10	**RXZ 310**	0.011
	Clip-in fixing on socket RXZ-E	10	**RSZ L320**	0.001

*(1) A bag containing ten **RXZ 300** legends is supplied with sockets **RXZ 7G**.*
***RXZ E1M114:** 7 A, ∿ 300 V.*
***RXZ 7G:** 6 A, ∿ 300 V.*
***RXZ E1S●●●M:** 12 A, ∿ 300 V.*
(2) 10 red and 10 green.

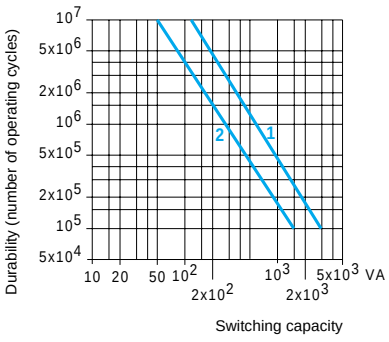
Characteristics: pages 28042/2 and 28042/3
Dimensions: page 28046/2
Schemes: page 28047/2

Zelio Relay plug-in relays
Universal relays

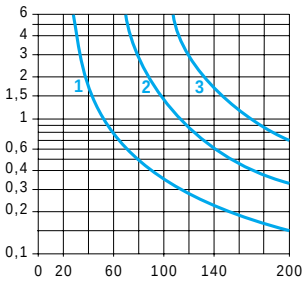
Relay type				RUN 21C	RUN 31C	RUN 21D	RUN 31A	RUN 33D
Contact characteristics								
Number and type of contacts				2 C/O	3 C/O	2 C/O	3 C/O	3 C/O linked
Contact materials				AgNi				Hard silver, 10 µ gold-flashed
Conventional rated thermal current (Ith)	For temperature ⩽ 40°C		A	10		10		4
Maximum operating rate In operating cycles/h	No-load			36 000		36 000		36 000
	Under load			3600		3600		3600
Switching voltage	Minimum		V	20		20		10
	Maximum		V	∿/⎓ 250		∿/⎓ 250		∿ 250, ⎓ 125
Maximum breaking capacity			VA	3000		3000		1000
Coil characteristics								
Rated voltage (Un)		∿	V	24, 48, 110, 230, 50/60 Hz (Other voltages available on request)				
		⎓	V	12, 24, 48, 110 (Other voltages available on request)				
Average consumption	Inrush	∿	VA	3.5		3.5		3.5
	Sealed	∿	VA	2.3		2.3		2.3
		⎓	W	1.5		1.5		1.5
Permissible voltage variation				0.8…1.1 Un (50 Hz or ⎓), 0.85…1.1 Un (60 Hz)				
Drop-out voltage threshold		∿		⩾ 0.15 Un		⩾ 0.15 Un		⩾ 0.15 Un
		⎓		⩾ 0.05 Un				
Environment								
Conforming to standards	Standard version			EN 61810-1				
Approvals (pending)	Standard version			UL, CSA				
Ambient air temperature around the device	Storage		°C	- 40…+ 70				
	Operation	∿	°C	- 20…+ 40				
		⎓	°C	- 20…+ 60				
Vibration resistance	Conforming to IEC EN 68-2-6			4 gn (30…100 Hz)				
Degree of protection				IP 40				
Shock resistance				10 gn				
Mechanical durability	In millions of operating cycles			20				
Operating time (response time)	Between coil energisation and making of the On-delay contact	∿	ms	About 15				
		⎓	ms	About 15				
	Between coil de-energisation and making of the Off-delay contact	∿	ms	About 15				
		⎓	ms	About 15				
Electrical durability In millions of operating cycles/h	Resistive load			⩾ 0.1 to 10 A				
	Inductive load			See curves below				
Insulation characteristics								
Rated insulation voltage (Ui)	Conforming to IEC 947		V	250				
Insulation class	Conforming to VDE 0110			C250, B380				
Dielectric strength (rms voltage)	Between coil and contact	∿	V	2500				
	Between poles		V	2500				
	Between contacts	∿	V	1000				

Durability in N (230 V, 50 Hz)

Switching capacity on a ⎓ supply for minimum durability of: 10^6 operating cycles (resistive or inductive load with diode RVW 040BD).



1 Resistive load
2 Inductive load



1 Contact
2 Contacts in series
3 Contacts in series

References: page 28043/3
Dimensions: page 28046/3
Schemes: page 28047/3

Zelio Relay plug-in relays
Universal relays

References

560592



RUN 31C22●● + RUZ 1C

560593



RUN 31A21●● + RUZ 1A

560594



RUN 33A22●● + RUW 101MW + RUZ 7A

560590



RUZ 200

Relays for standard applications

Number of C/O contacts	Conventional rated thermal current	LED	Pins	Sold in lots of	Unit reference, to be completed by adding the control voltage code *(1)*	Weight
	A					kg
2	10	without	Octal	10	**RUN 21D21●●**	0.105
			8 flat pins	10	**RUN 21C21●●**	?
		Green	Octal	10	**RUN 21D22●●**	0.105
			8 flat pins	10	**RUN 21C22●●**	?
3	10	Without	Undecal	10	**RUN 31A21●●**	0.105
			11 flat pins	10	**RUN 31C21●●**	?
		Green	Undecal	10	**RUN 31A22●●**	0.105
			11 flat pins	10	**RUN 31C22●●**	?

Relays with gold-flashed contacts

3	4	Green	Undecal	10	**RUN 33A22●●**	0.105

LED indicator modules

Description	Voltage		Sold in lots of	Unit reference	Weight
	V				kg
"Power on" indication	∼	110/230	20	**RUW 010P7**	0.006
	⎓ With protection diode	6/24	20	**RUW 030BD**	0.006

Protection module

Diode	⎓	6…220	20	**RUW 040BD**	0.006
Varistor	∼	24	20	**RUW 042B7**	0.006
	∼	230	20	**RUW 042P7**	0.006
RC circuit	∼	110…240	20	**RUW 041P7**	0.006

Timer modules

Multifunction	⎓ ∼	24…240	1	**RUW 101MW**	0.020

Sockets

Protection module	Application	I/O	Sold in lots of	Unit reference	Weight kg
Without	RUN 21 octal	Mixed	10	**RUZ 1D**	0.067
	RUN 31 and RUN 33 undecal	Mixed	10	**RUZ 1A**	0.067
	RUN 21C and RUN 31C	Mixed	10	**RUZ 1C**	0.067
With	RUN 31 and RUN 33	Mixed	10	**RUZ 7D**	0.069
	RUN 21 octal	Mixed	10	**RUZ 7A**	0.069

Accessories

Description	Sold in lots of	Unit reference	Weight kg
Maintaining clamp	25	**RUZ 200**	0.001

(1) Standard control circuit voltages

Volts		12	24	48	110	230
⎓	RUN 21 and RUN 31	JD	BD	ED	FD	–
	RUN 33	–	BD	ED	–	–
∼ **50/60 Hz**	RUN 21, RUN 31 and RUN 33	–	B7	E7	F7	P7

For other voltages, please consult your Regional Sales Office.

Coil characteristics

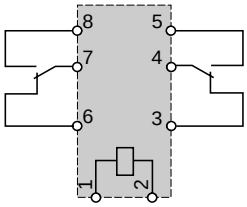
Control circuit voltage Uc	d.c. supply				a.c. supply, 50/60 Hz			
	Average resistance at 20 °C ± 10%	Cod.	Operating voltage limits		Average resistance at 20 °C ± 15 %	Cod.	Operating voltage limits	
			Min	Max			Min	Max
V	Ω		V	V	Ω		V	V
12	96	**JD**	9.6	19.2	–		–	–
24	384	**BD**	19.2	26.4	73.7	**B7**	204	26.4
48	1336	**ED**	38.4	52.8	305	**E7**	408	54.8
110	7660	**FD**	88	121	1710	**F7**	93.5	121
230	–	–	–	–	7500	**P7**	196	253

Characteristics: page 28043/2
Dimensions: page 28046/3
Schemes: page 28047/3

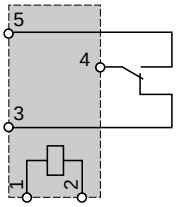
Zelio Relay plug-in relays

Interface relays

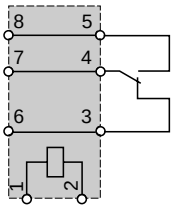
RSB 2A080●●



RSB 1A120●●



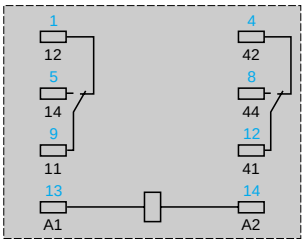
RSB 1A160●●



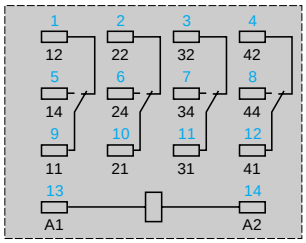
When using relay RSB 1A160●● with socket RSZ E1S48M, terminals 11 and 21, 14 and 24, 12 and 22 must be linked.

Miniature relays

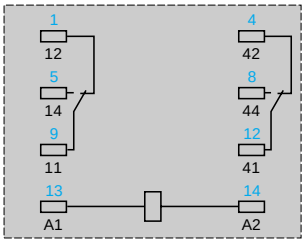
RXN 21E1●●●



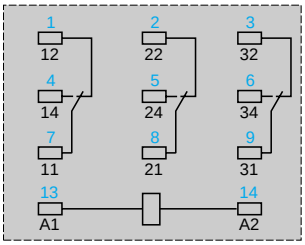
RXN 41G



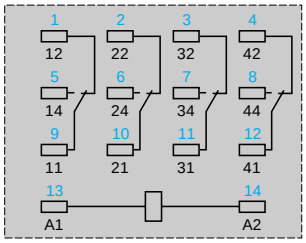
RXL 2●●



RXL 3●●



RXL 4●●

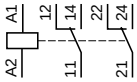


References :
pages 28041/3 et 28042/4

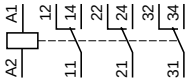
Dimensions :
page 28046/2

Universal relays

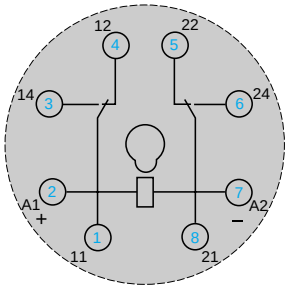
RUN 21D2●●●, RUN 21C2●●●



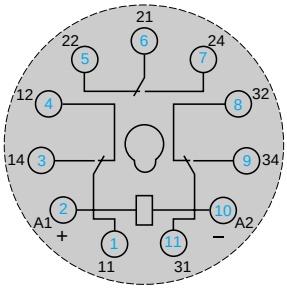
RUN 31A2●●●, RUN 33A2●●●
RUN 31C2●●●



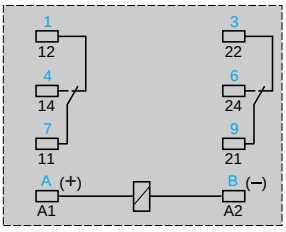
RUN 21D2●●●



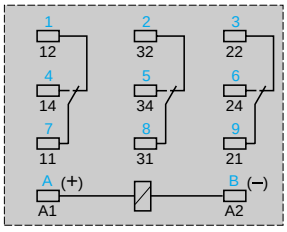
RUN 33A2●●●



RUN 21C2●●●



RUN 31C2●●●



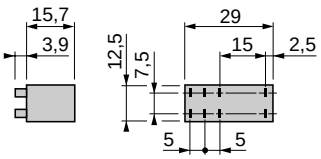
References :
page 28043/3

Dimensions :
page 28046/3

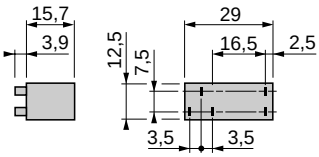
Zelio Relay plug-in relays

Interface relays (References: page 28041/3)

RSB 2A080●●, RSB 1A160●●

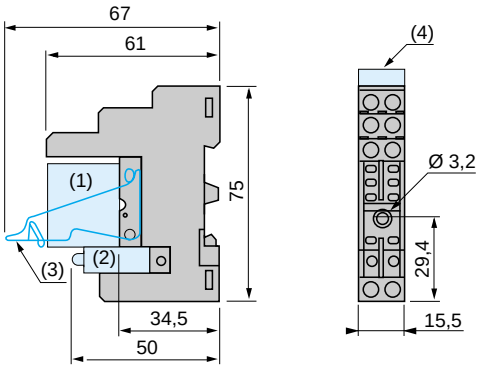


RSB 1A120●●

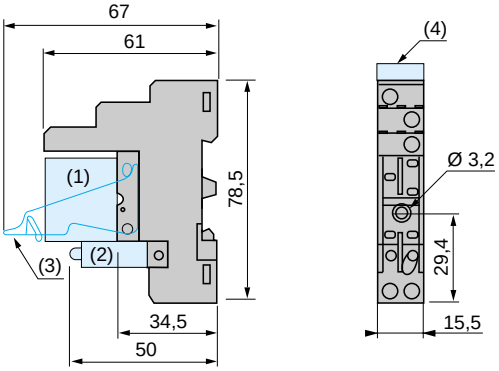


Sockets

RSZ E1S48M



RSZ E1S35M



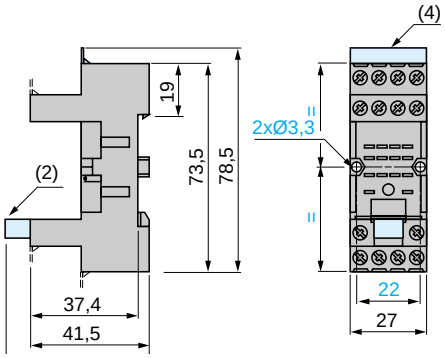
Miniature relays (References: pages 28042/4 and 28042/5)

RXN 21E1●●●, RXN 41G1●●●, RXL

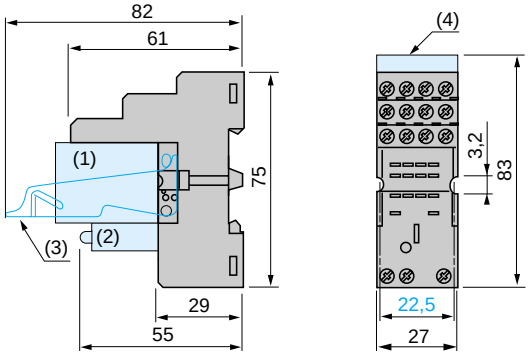


Sockets

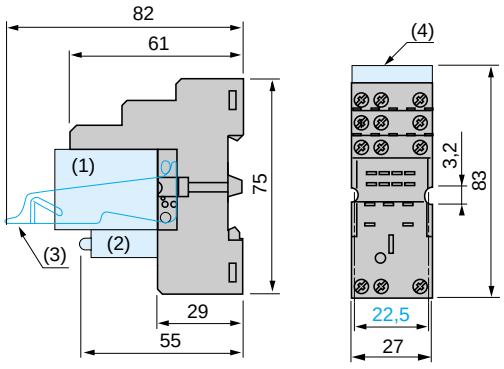
RXZ 7G



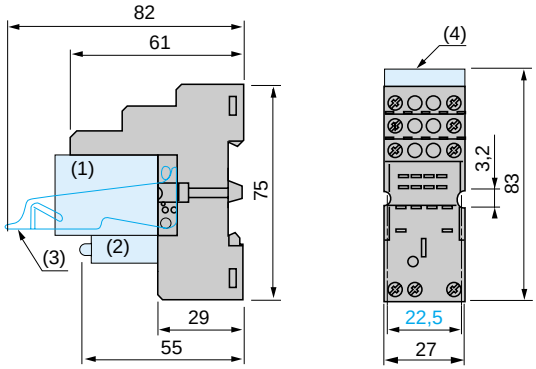
RXZ E1S108M



RXZ E1S111M



RXZ E1S114M, RXZ E1M114M



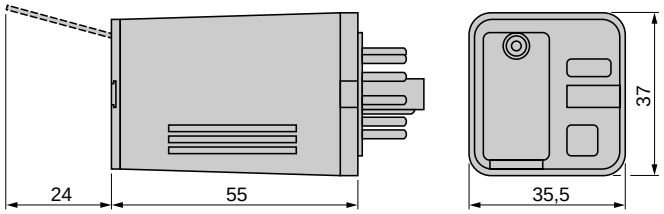
(1) Relays, (2) Add-on protection module,
(3) Maintaining clamp, (4) Legend.

References:
pages 28041/3 and 28042/4

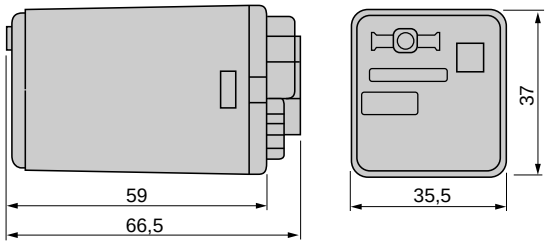
Schemes:
page 28047/2

Universal relays (References: page 28043/3)

RUN 21D2●●●
RUN 31A2●●●
RUN 33A2●●●

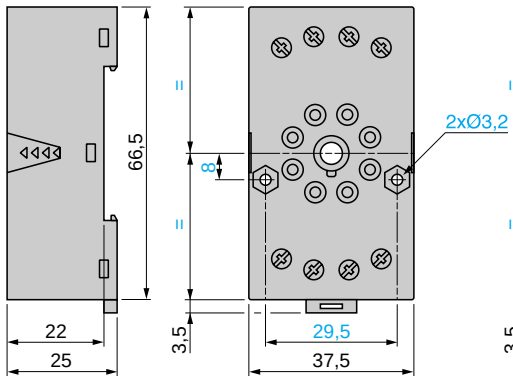


RUN 21C2●●●
RUN 31C2●●●

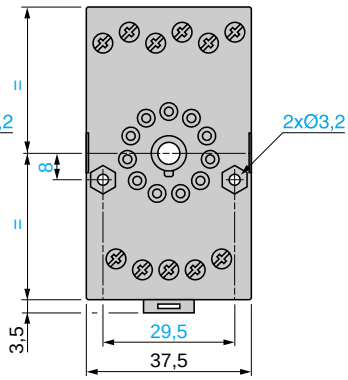


Sockets

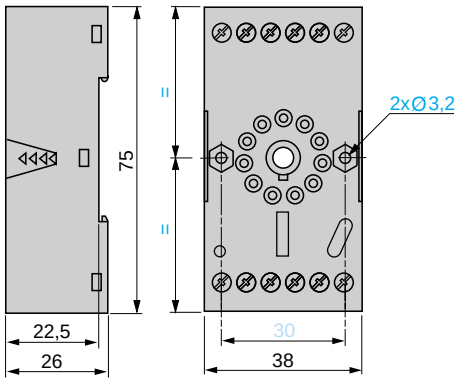
RUZ 1D



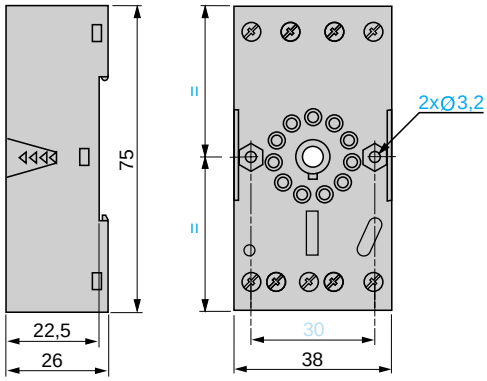
RUZ 1A



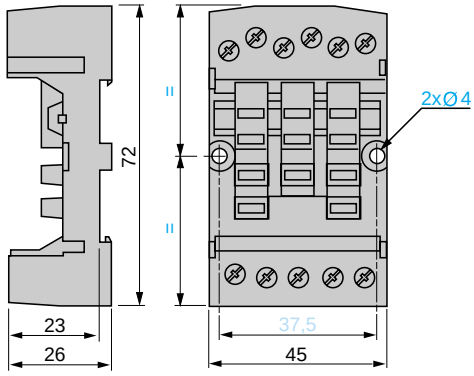
RUZ 7D



RUZ 7A



RUZ 1C



References:
page 28043/3

Schemes:
page 28047/3