



Harmony Electromechanical Relays

Interface, miniature, and power
electromechanical relays



Harmony

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Advanced operator interface and industrial relays

Harmony operator interface and industrial relays enhance operational efficiency and equipment availability across industrial and building applications. Harmony includes intelligent connected products and edge terminals that visualize, gather and process data, enabling informed operator decisions

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- Harmony Push Buttons and Switches
- Harmony HMI Operator Terminals, IPC and EdgeBox
- Harmony Signaling Devices
- Harmony Electrical Relays
- Harmony Safety



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References

Modicon TM3
I/O expansion modules for Modicon controllers
Analog I/O modules

Modicon TM3 analog input modules	number of types	Input range	Resolution	Input terminal block (mm)	Reference	Weight kg
2 voltage/current inputs	2	-10...+10VDC, 0...20mA	16 bits or 12 bits or 8 bits	16 pins or 12 pins or 8 pins	TM3A0101 TM3A0102 TM3A0103	0.110
4 voltage/current inputs	4	-10...+10VDC, 0...20mA	16 bits or 12 bits or 8 bits	16 pins or 12 pins or 8 pins	TM3A0104 TM3A0105 TM3A0106	0.100
4 voltage/current or temperature inputs	4	Thermocouple: K, T, E, J, R, S, B, C, D, E, G, RTD (NIST50, NIST100, Pt100, Pt1000)	16 bits or 12 bits or 8 bits	16 pins or 12 pins or 8 pins	TM3A0107 TM3A0108 TM3A0109	0.220
4 differential temperature inputs	4	-2...+40°C -10...+50°C -20...+200°C	16 bits or 12 bits or 8 bits	16 pins or 12 pins or 8 pins	TM3A0110 TM3A0111 TM3A0112	0.220
8 voltdifferential	8	-10...+10VDC	—	12 bits or 8 bits	TM3A0113	0.220

Each commercial reference presented in a catalog contains a hyperlink. Click on it to obtain the technical information of the product:

- Characteristics, Dimensions and drawings, Mounting and clearance, Connections and schemas, Performance curves
- Product image, Instruction sheet, User guide, Product certifications, End of life manual

Modicon TM3
Module TM3 - 2 analog inputs high resolution

TM3A12H

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Product Datasheet User guide Catalogue CAD Document

Characteristics Documents and Downloads Technical FAQs Additional Information Dimensions Drawings

Main range of product Modicon TM3 product or component type Analog input module range compatibility Modicon M2S1

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Harmony Electromechanical Relays

Interface, miniature, and power
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General presentation

■ RSL relays for compactness.....	page 2
■ RXG relays for reliability	page 2
■ RXM relays for automation control	page 3
<i>Selection guide of Plug-in relays and relays with clamp fixing.....</i>	page 4

RSL slim interface relays

■ Presentation	
□ Presentation of the range.....	page 10
□ Relay description	page 10
□ Socket description	page 10
■ References	
□ Pre-assembled slim interface relays	page 11
□ Slim interface relays for customer assembly.....	page 11
□ Accessories for sockets	page 11

RSB interface relays

■ Presentation	
□ Presentation of the range.....	page 12
□ Socket description	page 12
■ References	page 13
□ Pre-assembled interface relays	page 13
□ Interface relays for customer assembly	page 14
□ Sockets with separate contact terminal arrangement and connector connection.....	page 14
□ Protection modules.....	page 14
□ Accessories	page 13

RXG interface relays

■ Presentation	
□ Presentation of the range.....	page 16
□ Relay description	page 16
□ Socket description	page 16
■ References	page 17
□ Pre-assembled interface relays	page 17
□ Interface relays for customer assembly	page 17
□ Sockets with separate contact terminals, mixed contact terminals, and built-in clamp	page 19
□ Protection modules.....	page 19
□ Accessories	page 19

RXM miniature relays

■ Presentation	
□ Presentation of the range.....	page 20
□ Relay description	page 20
□ Socket description	page 20
■ References	page 21
□ Pre-assembled interface relays	page 21
□ Miniature relays for customer assembly.....	page 22
□ Sockets.....	page 23
□ Protection modules.....	page 23
□ Timing relays	page 23
□ Accessories	page 24

RXG relays for reliability (continued)

Expandable relays

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



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

RXM relays for automation control

Easy to select

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



Convenient to use

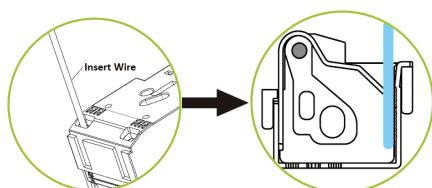
- One-step lockable test button
- Mechanical indicator for contact status
- "Power On" LED for readiness



LED indicator for relay status

Simple to install

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



Push-in terminal: insert without tool

Designed to perform

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

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

Harmony RXM → Miniature in size and powerful in performance

Selection guide

Harmony Electromechanical Relays

Interface, miniature, and power electromechanical relays

Type of product	Plug-in relays	Interface relays
Number and type of contacts/conventional thermal current (ith on NO contact)	1 CO/10 A	1 CO/10 A
Control circuit voltage	~ 24...230 V	~ 24...240 V
Pin type	Flat (Faston type) Up to 250 V ~	12...60 V Flat (PCB type, reinforced) Up to 400 V ~/300 V ~
Operational voltage	Electrical, resistive load	100,000
Durability (operating cycles per hour)	Mechanical, no-load	10,000,000 (for AC coil) 10,000,000 for DC coil
Functions	LED Mechanical indicator Test button	Yes (depending on version) Yes, lockable (depending on version)
Accessories	Mounting adapters for DIN rail Mounting adaptors with fixing lugs	Standard
Type references	RXG•••• (1)	RSL1B44D (1)
Pages	17	11
Type of associated sockets	Sockets	Sockets with LED and protection circuit

Contact terminal arrangements		Mixed		Separate	
Connection	Screw connector	Push-in terminals	Screw clamp terminals	Screw connector	Spring terminals
Accessories	Protection modules	Yes	No	No	Yes
	Time module	No	No	No	No
	Maintaining dampers				
	Socket identification legend	Yes	No	Yes	Yes
	Bus jumper	Yes	Yes, 2-pole	Yes, 20-pole	Yes, 2-pole
Conventional thermal current (ith)	10 A for 1 CO	5 A for 2 CO	10 A	6 A	12 A
Type references	RGZE1S35M	RGZE1S48M	RGZE05P	RGSZE08P	RGSZE05E
Pages	18	18	18	18	18

(1) Pre-assembled interface relays RSL1PV•• and RSL1PR••
(2) When using relay RSB1A760•• with socket RSZE1S48M, terminals must be linked.

Type of product	Plug-in relays	Slim interface relays	Interface relays
Number and type of contacts/conventional thermal current (ith on NO contact)	1 CO/10 A	1 CO/6 A	1 CO/16 A 1 CO/12 A 2 CO/8 A
Control circuit voltage	~ 24...230 V	~ 24...240 V	6...110 V
Pin type	Flat (Faston type) Up to 250 V ~	Flat (PCB type) Up to 400 V ~/300 V ~	Flat (PCB type)
Operational voltage	Electrical, resistive load	100,000	100,000
Durability (operating cycles per hour)	Mechanical, no-load	10,000,000	30,000,000
Functions	LED Mechanical indicator Test button	No No No	No Yes (with protection modules)
Accessories	Mounting adapters for DIN rail Mounting adaptors with fixing lugs	No	Standard
Type references	RXG•••• (1)	RSL1B44D (1)	RSB••••• (1)
Pages	17	11	13
Type of associated sockets	Sockets	Sockets with LED	Sockets without LED



Harmony Electromechanical Relays

Plug-in relays
RXG interface relays



RXG22BDPV



RXG11BD

Pre-assembled interface relays

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

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

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

24 ---	30	RXG13BDPV (RXG13BD + RGZE1S35M + RZM031RB)	0.058/0.129	RXG23BDPV (RXG23BD + RGZE1S48M + RZM031RB)	0.066/0.145
230 ~	30	RXG13P7PV (RXG13P7 + RGZE1S35M + RZM021FP)	0.059/0.130	RXG23P7PV (RXG23P7 + RGZE1S48M + RZM021FP)	0.067/0.148

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

24 ---	30			RXG21BDPV (RXG21BD + RGZE1S48M + RZM031RB)	0.067/0.148
24 ~	30			RXG21B7PV (RXG21B7 + RGZE1S48M + RZM021RB)	0.067/0.148
230 ~	30			RXG21P7PV (RXG21P7 + RGZE1S48M + RZM021FP)	0.067/0.148

Interface relays for customer assembly

Standard cover relays with lockable test button

6 ---	10	—	RXG21RD	0.020/0.044
12 ---	10	RXG11JD	RXG21JD	0.020/0.044
24 ---	10	RXG11BD	RXG21BD	0.020/0.044
24 ~	10	RXG11B7	RXG21B7	0.020/0.044
48 ~	10	—	RXG21E7	0.020/0.044
120 ~	10	RXG11F7	RXG21F7	0.020/0.044
220 ~	10	—	RXG21M7	0.020/0.044
230 ~	10	RXG11P7	RXG21P7	0.020/0.044

Harmony Electromechanical Relays

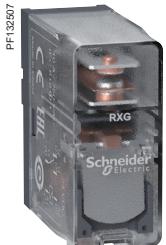
Plug-in relays RXG interface relays



RXG22B7



RXG13BD



RXG15BD

Interface relays for customer assembly

Standard cover relays with lockable test button and LED

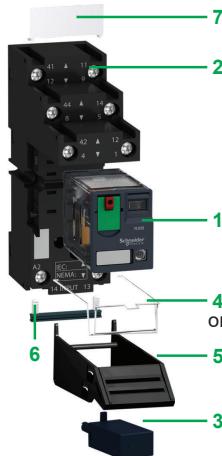
Control circuit voltage V	Sold in lots of	Number and type of contacts - Thermal current (Ith)			Weight kg/lb
		1 CO - 10 A		2 CO - 5 A	
		Unit reference	Unit reference	Unit reference	
6 ...	10	RXG12RD	—	—	0.020/0.044
12 ...	10	RXG12JD	RXG22JD	—	0.020/0.044
24 ...	10	RXG12BD	RXG22BD	—	0.020/0.044
48 ...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

Standard cover relays with LED

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

Clear cover relays

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

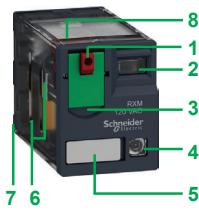


Presentation of the range

The RXM miniature relay range comprises:

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

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



Relay description

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

