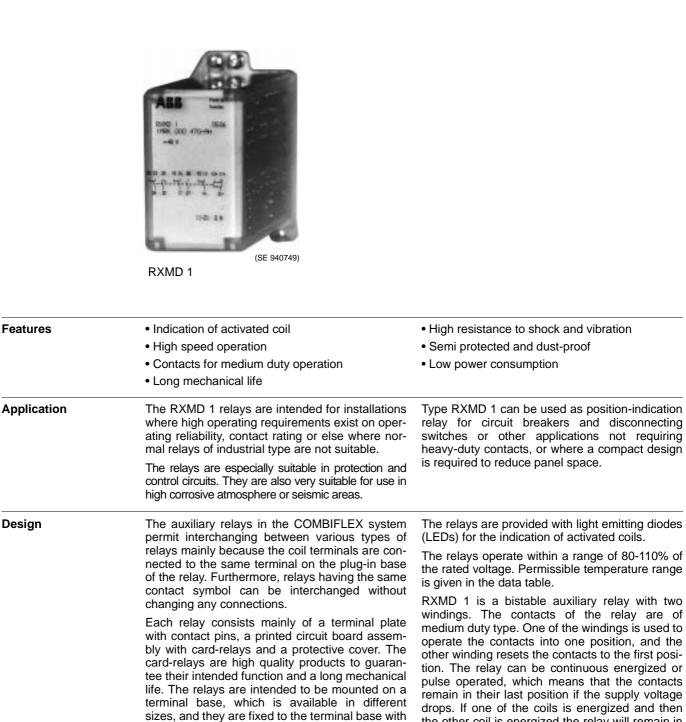


ABB Network Partner

1MRK 508 017-BEN

Page 1 February 1998 Changed since August 1997 Data subject to change without notice



two cross-head screws.

of the protective cover.

Ordering No., rated voltage, type designation and

the symbol of the relay is printed on the front area

the other coil is energized the relay will remain in the first position. RXMD 1 has one LED which indicates for one of the two positions when the relay is continuously energized. RXMD 1 Bistable relay

Technical data

Table 1:

Rated voltage U _r	24, 48, 110, 125, 220 V dc
Duty range in % of U _r	80-110%
Recovery time	250 ms (from voltage drop for one of the coils until the same coil is energized again or change over time when one of the coils drop-out)
Pick-up time, typical values make/break contact	4,0/4,0 ms
Bounce time, typical values make contact	4,0 ms
Pick-up value in % of U _r	55-75%
Power consumption at U _r = 24 V dc 48 V dc 110 V dc 220 V dc	1,1 W 1,2 W 1,4 W 1,4 W
Permitted ambient temperature operative range storage range	-20°C to+55°C -40°C to+70°C
Degree of protection	IP 44 (acc. to IEC 529)

Table 2: Insulation tests

	Test values	Ref. standard
Dielectric test		IEC 255-5
between coil and contacts, between		
contacts and between the relays	2,0 kV, 50 Hz, 1 min	
across open contacts	1,0 kV, 50 Hz, 1 min	
Impulse voltage test	5,0 kV, 1,2/50 µs, 0,5 J	IEC 255-5

Table 3: Mechanical tests

	Ref. standard
Vibration test	IEC 255-21-1, class II
Shock and bump test	IEC 255-21-2, class II
Seismic test	IEC 255-21-3, class II

Table 4: Contact data

Highest system voltage	250 V ac, dc
Break voltage	Max. 250 V ac, dc
	Min. 20 V ac, dc
Contact current	Max 5 A ^{*)}
* continuously for closed contact	Min 1,0 mA
Making and conducting capacity	
L/R>10 ms, 200 ms/1 s	-
4 s	14 A
Breaking capacity	
250 V ac, cosφ =1,0	1500 VA
250 V ac, cosφ =0,4	1200 VA
dc, L/R = 40 ms	
24 V	2,0 A
48 V	0,7 A
110 V	0,2 A
220 V	0,15 A

Table 5: Additional general data

Dimensions	2U, 6C
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RXMD 1 Bistable relay

Diagrams	RXMD 1						
	1MRK 001 602-	603-	604-	605-	606-	607-	609- 610-
	$\begin{array}{c} + \bullet \\ + 11 \\ 12 \\ 1 \\ 12 \\ 1 \\ 12 \\ 1 \\ 12 \\ 1 \\ 1$	$\begin{array}{c} + \bullet \\ + 11 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ $	$\begin{array}{c} + \bullet \\ + 11 \\ 12 \\ 12 \\ 13 \\ - 14 \\ 15 \\ - 16 \\ 17 \\ - 18 \\ - \\ 23 \\ - 24 \\ 25 \\ - 26 \\ 27 \\ 28 \end{array}$	$\begin{array}{c} + \bullet \\ + 11 \\ 12 \\ - 1 \\ 12 \\ - 1 \\ $	$\begin{array}{c} + \bullet \\ + 11 \\ 12 \\ 12 \\ 13 \\ 13 \\ 1 \\ 15 \\ 16 \\ 17 \\ 16 \\ 17 \\ 16 \\ 17 \\ 16 \\ 17 \\ 23 \\ 24 \\ 1 \\ 25 \\ 1 \\ 26 \\ 27 \\ 28 \end{array}$	$\begin{array}{c} + \bullet \\ + 11 \\ 12 \\ + 11 \\ 12 \\ - 14 \\ 15 \\ - 16 \\ - \\ - \\ 17 \\ - 16 \\ - \\ - \\ 17 \\ - 0 \\ 18 \\ 22 \\ - 23 \\ 24 \\ - 25 \\ - \\ 25 \\ - \\ 26 \\ - \\ 27 \\ - \\ 28 \end{array}$	$\begin{array}{c} + \bullet \\ + 11 & 2 \\ \hline 12 & 1 \\ \hline 13 & 1 \\ \hline 15 & 1 \\ \hline 26 & 2 \\ \hline 16 & 1 \\ \hline 18 & 1 \\ \hline 28 & 1 \\ \hline 28 & 1 \\ \hline 23 & 2 \\ \hline 25 \\ \hline \end{array}$

• When the winding terminal marked with a dot is positive, the contact moves to the position marked with a dot.

Ordering

Specify:

- Type
- Quantity
- Ordering No.

Туре	Ordering No.	Rated voltage					Indication
		24 V dc	48 V dc	110 V dc	125 V dc	220 V dc	
RXMD 1	1MRK 001 602-	AD	AH	AN	AP	AS	yellow
	603-	AD	AH	AN	AP	AS	yellow
	604-	AD	AH	AN	AP	AS	yellow
	605-	AD	AH	AN	AP	AS	yellow
	606-	AD	AH	AN	AP	AS	yellow
	607-	AD	AH	AN	AP	AS	yellow
	609-	AD	AH	AN	AP	AS	yellow
	610-	AD	AH	AN	AP	AS	red

Other variants available on request

References

Connection and installation components in COMBIFLEX Relay mounting systems

1MRK 513 003-BEN 1MRK 514 001-BEN