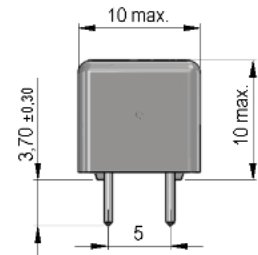
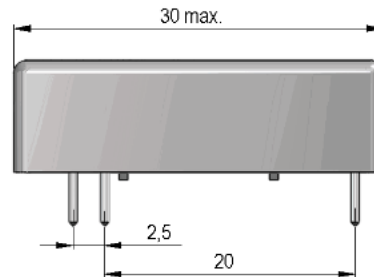


MRX Series Reed Relays



- Features: Ex-Approved for Intrinsic Safety Circuits
- Applications: Process Automatization in Refineries, Mining and Chemical Industry & Others
- Markets: Explosive Environment & Others

Part Description: **MRX 00-0X00**

Nominal Voltage	Contact QTY	Contact Form	Switch Model
05, 12, 24	1, 2, 4	A, C	21, 71, 79, 90

Customer Options	Switch Model				Unit
Contact Data	21	71	79	90	
Rated Power (max.) Any DC combination of V&A not to exceed their individual max.'s	5	10	10	7	W
Switching Voltage (max.) DC or peak AC	100	200	250	28	V
Switching Current (max.) DC or peak AC	0.25	0.5	0.5	0.24	A
Carry Current (max.) DC or peak AC	0.5	1.25	1	0.5	A
Contact Resistance (max.) @ 0.5V & 50mA	150	150	150	150	mOhm
Breakdown Voltage (min.) According to EN60255-5	0.25	0.3	0.4	0.25	kVDC
Operating Time (max.) Incl. Bounce; Measured with w/ Nominal Voltage	2.5	0.5	0.5	2	ms
Release Time (max.) Measured with no Coil Excitation	2	0.1	0.2	2	ms
Insulation Resistance (typ.) Rh<45%, 100V Test Voltage	10 ⁹	10 ¹⁰	10 ¹¹	10 ⁹	Ohm
Capacitance (typ.) @ 10kHz across open Switch	0.8	0.3	0.4	1.0	pF

Series Datasheet – MRX Reed Relays

www.standexmeder.com

Coil Data		Coil Voltage (nom.)	Coil Resistance (typ.)	Pull-In Voltage (max.)	Drop-Out Voltage (min.)	Nominal Coil Power (typ.)
Contact Form	Switch Model					
Unit		VDC	Ohm	VDC	VDC	mW
1A	71 79*	05	360	3.8	1.0	70
		12	305	9	2	110
		24	5,880	18	3.5	100
2A	71 79**	05	250	3.8	1.0	100
		12	890	9	2	260
		24	1,000	18	3.5	165
4A	71	24	1,780	18	3.5	320
1C	21*** 90	05	360	3.8	1.0	70
		12	305	9	2	110
		24	5,880	18	3.5	100

The Pull-In / Drop-Out Voltage and Coil Resistance will change at rate of 0.4% per °C.

*1A79 only available with Coil Voltage 12 ** 2A79 only available with Coil Voltage 24 ***1C21 only available with Coil Voltage 05 & 12

Environmental Data		Unit
Shock Resistance (max.) 1/2 sine wave duration 11ms	50	g
Vibration Resistance (max.)	20	g
Operating Temperature	-20 to 85	°C
Storage Temperature	-40 to 105	°C
Soldering Temperature (max.) 5 sec. max.	260	°C

Handling & Assembly Instructions

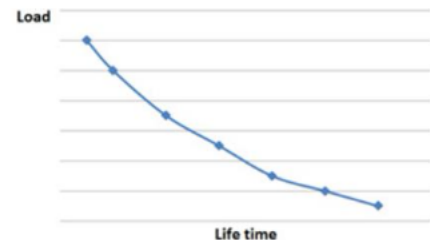
- Switching inductive and/or capacitive loads create voltage and/or current peaks, which may damage the relay. Protective circuits need to be used.
- External magnetic fields needs to be taken into consideration, including a too high packing density. This may influence the relays' electrical characteristics.
- Mechanical shock impacts e.g. dropping the relays may cause immediate or post-installation failure.
- Wave soldering: maximum 260°/5 seconds.
- Reflow soldering: Recommendations given by the soldering paste manufacturer need to be considered as well as the temperature limits of other components/processes.

MRX Reed Relay



Life Test Data

*Load increase reduces life expectancy of Reed Switches



Series Datasheet – MRX Reed Relays

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Glossary Contact Form

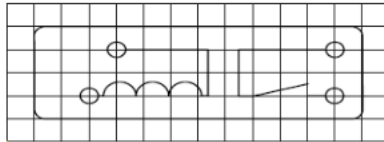
Form A	NO = Normally Open Contacts SPST = Single Pole Single Throw	
Form B	NC = Normally Closed Contacts SPST = Single Pole Single Throw	
Form C	Changeover SPDT = Single Pole Double Throw	



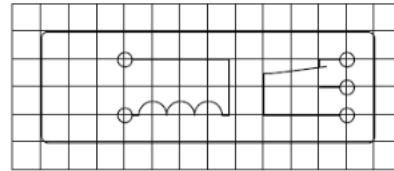
Pin Out

Top View

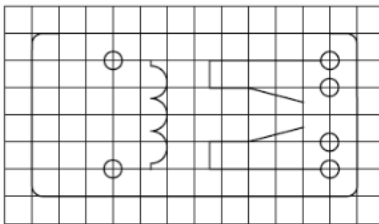
1A



1C



2A



4A

