

MRC series

C3-X1x

11-pin power relay, 1-pole, double make, according to IEC 67-I-18a



Type	C3-X1x/ ... V Power relays for DC application 1 pole, NO, double make			
Maximum contact load	10 A/250 V AC 1	7 A/110 V DC1		
	10 A/30 V DC 1	1,2 A/220 V DC1		
Contacts				
Material	Standard	Code 0	AgNi	
Rated current	10 A			
Switch-on current max. (20 ms)	30 A			
Switching voltage max.	250 V			
AC load	2,5 kVA			
DC load	see Fig. 2			

Coil				
Coil resistance	see table; tolerance $\pm 10\%$			
Pick-up voltage	$\geq 0,8 \times U_N$			
Release voltage	$\geq 0,1 \times U_N$			
Nominal power	2,4 VA (AC)/1,3 W (DC)			

Coil table	VAC	Ω	mA	VDC	Ω	mA
	24	65	100	24	443	54
	48	286	50	48	1K7	27
	115	1K7	21	110	9K2	12
	230	6K8	10	220	36K1	6

Insulation	Volt rms, 1 min
Contact open	2500 V
Contact/contact	2,5 kV
Contact/coil	2,5 kV
Insulation resistance at 500 V	$\geq 1 \text{ G}\Omega$
Insulation, IEC 61810-5	2,5 kV/3

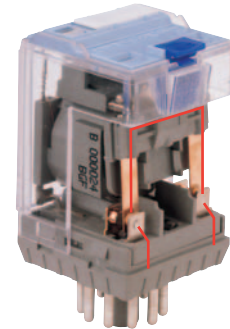
Specifications	
Ambient temperature operation/storage	-40 (no ice)...60 °C / -40 ... 80 °C
Pick-up time/bounce time	20 ms/ ≤ 3 ms
Release time/bounce time	10 ms/ ≤ 1 ms
Mechanical life	AC: 10 Mill./DC: 20 Mill. switching cycles
AC voltage endurance at rated load	≥ 100000 switching cycles
Switching frequency at rated load	≤ 1200 /h
Protection class	IP40
Weight	90 g

- Standard types**
AC 50 Hz/60 Hz: 24, 48, 115, (120), 230, (240)
LED
RC Suppressor
- DC 24, 48, 110, 220**
LED
Free wheeling diode
Polarity and free wheeling diode
- AC/DC bridge rectifier 24 V, 48 V, 60 V**

- C3-X10/AC ... V**
C3-X10X/AC ... V
C3-X10R/AC ... V
- C3-X10/DC ... V**
C3-X10X/DC ... V
C3-X10DX/DC ... V
C3-X10FX/DC ... V
- C3-X10BX/UC ... V**

"..." Enter the voltage for full type designation

Accessories	
Socket:	S3-B, S3-S, S3-L, S3-P, S3-P0
Operational accessories (blanking plug):	SO-NP, SO-OP



Connection diagram

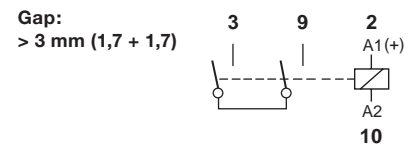


Fig. 1 AC voltage endurance

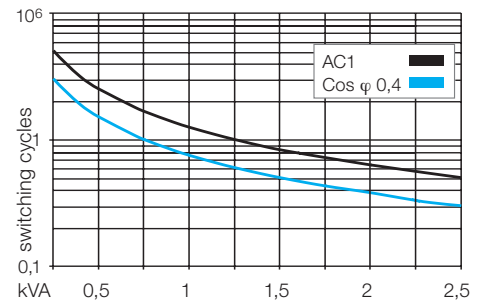
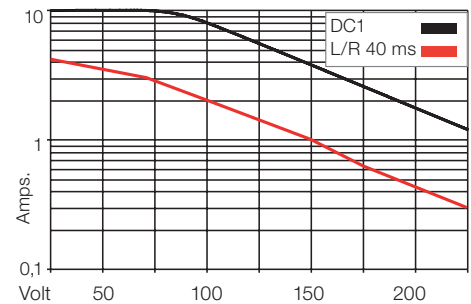
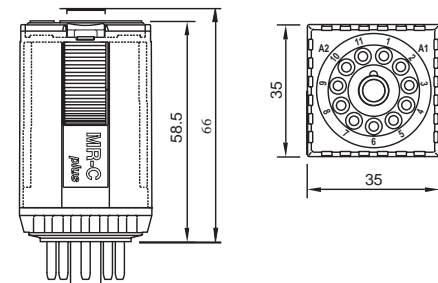


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities



IEC 61810; EN 60947