

MRC series

C3-G3x

11-pin standard relay, 3-pole, open contact, according to IEC 67-I-18a

Type	C3-G3x/ ... V Standard relays, DC application 3 open contacts		
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Maximum contact load	10 A 250 V AC 1	1,2 A/110 V DC1
	10 A 30 V DC 1	0,4 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)/1,6 W (DC)

Coil table	VAC	Ω	mA	VDC	Ω	mA
	24	65	100	24	360	66
	48	286	50	48	1K4	34
	115	1K7	21	110	7K6	15
	230	6K8	10	220	30K3	7,5

Insulation	Volt rms, 1 min
Contact open	2000 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	16 ms/ ≤ 3 ms
Release time/bounce time	8 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-G30/AC ... V**
C3-G30X/AC ... V
C3-G30R/AC ... V

C3-G30/DC ... V
C3-G30X/DC ... V
C3-G30DX/DC... V
C3-G30FX/DC ... V

C3-G30BX/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

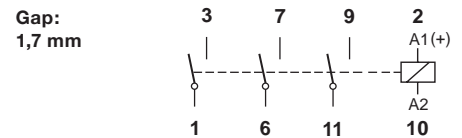


Fig. 1 AC voltage endurance

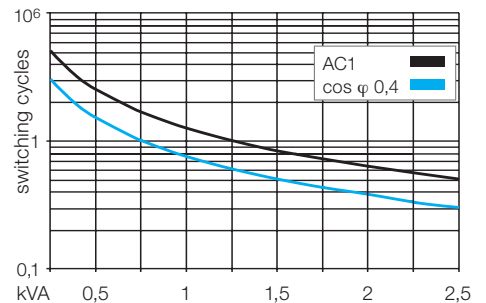
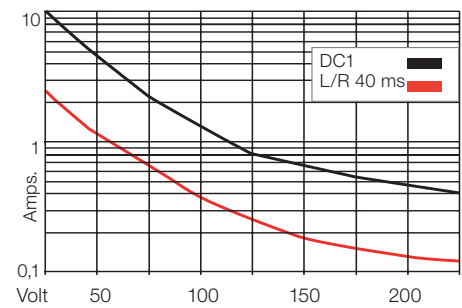
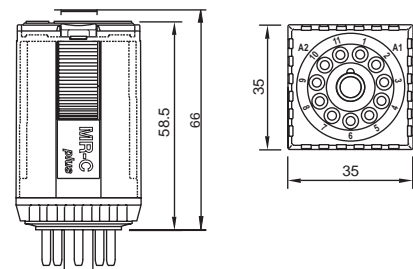


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities



IEC 61810; EN 60947