

MRC series

C3-M1x

11-pin power relay, 1-pole, magnetic blow out, according to IEC 67-I-18a

Type	C3-M1x/ ... V Power relays, DC, 1 pole, magnetic blow out	
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Maximum contact load	10 A 250 V AC1 3,6 A 220 VDC13	10 A 220 V DC1 2 A 220 V
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Contacts

Material	Standard	Code 0	AgNi
Rated current			10 A
Switch-on current max. (20 ms)			30 A
Switching voltage max. (Verschmutzungsgrad 3)			250 V
Switching voltage max. (Verschmutzungsgrad 2)			250 V
AC load			2,5 kVA
DC load			see Fig. 2

Coil

Coil resistance	see table; tolerance ± 10 %
Pick-up voltage	≥ 0,8 x U _N
Release voltage	≥ 0,1 x 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	≥ 1 GΩ
Insulation, IEC 61810-5:	2,5 KV / 3

Specifications

Ambient temperature operation/storage	-40 (no ice)...60 °C / -40 ... 80 °C
Nominal coil power	2,4 VA (AC), 1,3 W (DC)
Pick-up time/bounce time	20 ms/≤ 3 ms
Release time/bounce time	10 ms/≤ 1 ms
Isolation: EN 60947, pollution rate 3, Gr C	250 V
Dielectric strength, Contact/Coil	2,5 KV

Standard types

AC 24, 48, 115, (120), 230

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

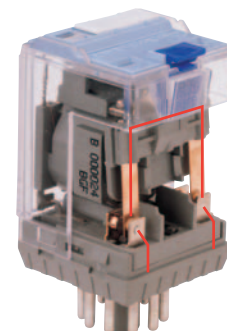
"..." Enter the voltage for full type designation

Accessories

Socket:

Operational accessories (blanking plug):

S3-B, S3-S, S3-L, S3-P, S3-P0
SO-NP, SO-OP



Connection diagram

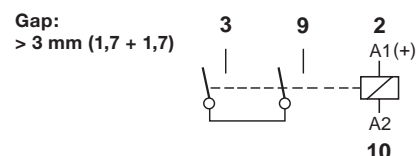


Fig. 1 AC voltage endurance

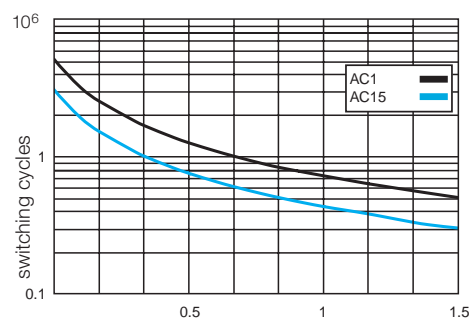
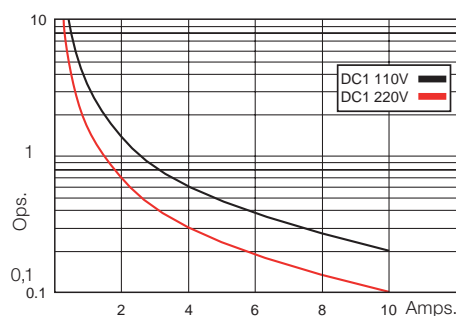
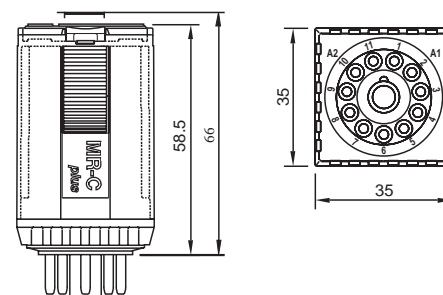


Fig. 2 DC voltage endurance



Dimensions [mm]



Technical approvals, conformities



IEC 61810; EN 60947