

MRC series

C3-M1x

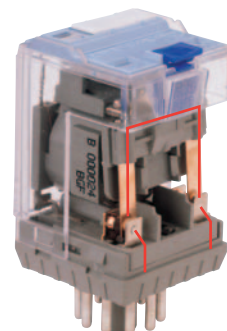
11-pin power relay, 1-pole, magnetic blow out, according to IEC 67-I-18a

Type	C3-M1x/ ... V Power relays, DC, 1 pole, magnetic blow out					
Maximum contact load	10 A 250 V AC1 3,6 A 220 VDC13		10 A 220 V DC1 2 A 220 V			
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 $\pm 10\%$			
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					
Nominal coil power	2,4 VA (AC), 1,3 W (DC)					
Pick-up time/bounce time	20 ms \leq 3 ms					
Release time/bounce time	10 ms \leq 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						

C3-M10/AC ... V
C3-M10X/AC ... V
C3-M10R/AC ... V

C3-M10/DC ... V
C3-M10X/DC ... V
C3-M10DX/DC ... V
C3-M10FX/DC ... V

C3-X10BX/UC ... V



Connection diagram

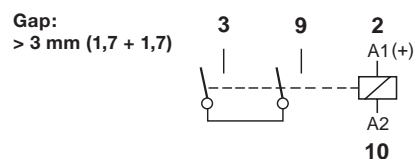


Fig. 1 AC voltage endurance

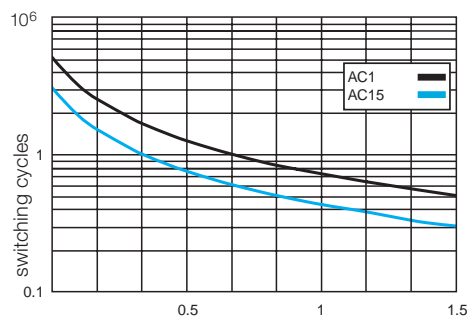
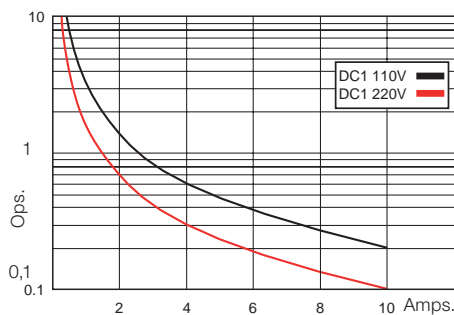
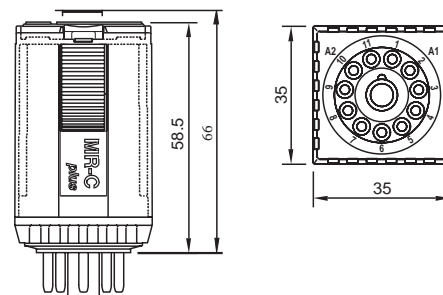


Fig. 2 DC voltage endurance



Dimensions [mm]



Technical approvals, conformities



IEC 61810; EN 60947



Kühn Controls AG

Notes:

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