

MRC series

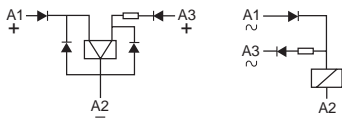
C3-R2x

11-pin remanence relays, 2-pole, according to IEC 67-I-18a

Type	C3-R2x/ ... V Remanence plug-in relays, 2 change-over contacts		
Maximum contact load	10 A/250 V AC1	0,5 A/110 V DC1	
	10 A/30 V DC1	0,2 A/220 V DC1	
Recommended minimum contact load	1 mA/10 V (with 10 µm Au) 10 mA/10 V (standard contact)		
Contacts			
Material	Standard	Code 0	AgNi
	Optional	Code 8	AgNi + 10 µ Au
	Optional	Code 9	AgNi + 0,2 µ Au
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 ± 10 %		
ON pulse power	1,5 VA/W		
OFF pulse power	0,5 VA/W		

Internal Diagram:



Coil table

VAC	Ω	mA	VDC	Ω	mA
24	75	12	12	125	41
48	38	6	24	63	21
115	16	2,5	48	31	10
230	8	1,3	110	14	4,5

Insulation	Volt rms, 1 min
Contact open	1000 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
Minimum pulse length for ON/OFF	50 ms
Mechanical life	10 Mill. switching cycles AC, 20 Mill. DC-Relais
AC voltage endurance at rated load	≥100000 switching cycles
Switching frequency at rated load	≤ 1200/h
Protection class	IP40
Weight	95 g

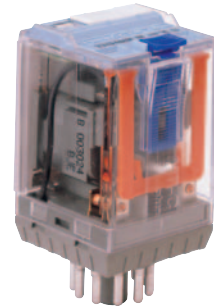
Standard types

AC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240)	C3-R20/AC ... V	C3-R28/AC ... V	C3-R29/AC ... V
DC 24, 48, 110, 220	C3-R20/DC ... V	C3-R28/DC ... V	C3-R29/DC ... 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

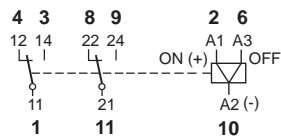


Fig. 1 AC voltage endurance

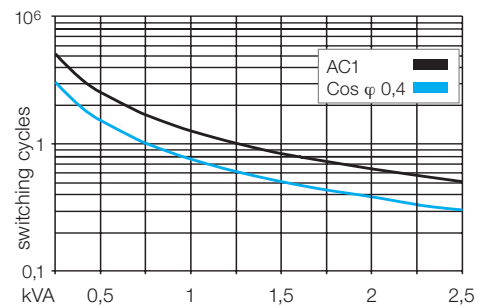
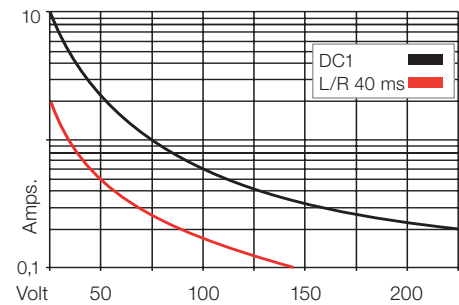
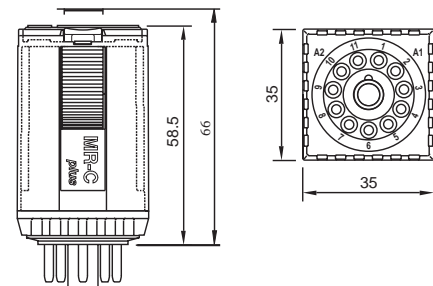


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities



IEC 61810; EN 60947



Kühn Controls AG

Notes:

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