

MRC series

C3-T3x

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

Type	C3-T3x/ ... V Standard relays for low level 3 change-over twin contacts			
Maximum contact load	6 A/250 V	AC 1	6 A/30 V	DC1
Recommended minimum contact load	1 mA/5 V	(with 10 µm Au)		
	5 mA/5 V	(standard contact)		

Contacts				
Material	Standard	Code 1	AgNi + 0,3 µ Au	
	Optional	Code 2	AgNi + 10 µ Au	
Rated current	6 A			
Switch-on current max. (20 ms)	15 A			
Switching voltage max.	250 V			
AC load	1,2 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	2,2 VA (AC)/1,3 W (DC)			

Coil table					
VAC	Ω	mA	VDC	Ω	mA
24	67	92	24	443	54
48	296	46	48	1K8	27
115	1K7	19	110	9K2	12
230	7K1	9,5	220	36K1	6

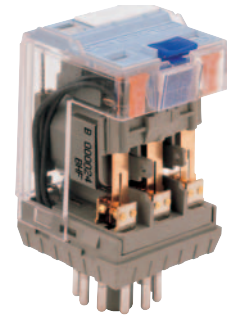
Insulation		Volt rms, 1 min
Contact open		1000 V
Contact/contact		2,5 kV
Contact/coil		2,5 kV
Insulation resistance at 500 V		≥ 1 GΩ
Insulation, EN 61810-5		2,5 kV/3

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)	C3-T31/AC ... V	C3-T32/AC ... V
LED	C3-T31X/AC ... V	C3-T32X/AC ... V
RC Suppressor	C3-T31R/AC ... V	C3-T32R/AC ... V
DC 24, 48, 110, 220	C3-T31/DC ... V	C3-T32/DC ... V
LED	C3-T31X/DC ... V	C3-T32X/DC ... V
Free wheeling diode	C3-T31DX/DC ... V	C3-T32DX/DC ... V
Polarity and free wheeling diode	C3-T31FX/DC ... V	C3-T32FX/DC ... V
AC/DC bridge rectifier 24 V, 48 V, 60 V	C3-T31BX/UC ... V	C3-T32BX/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

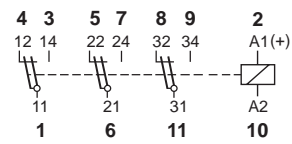


Fig. 1 AC voltage endurance

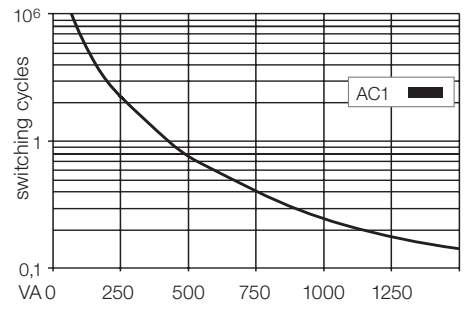
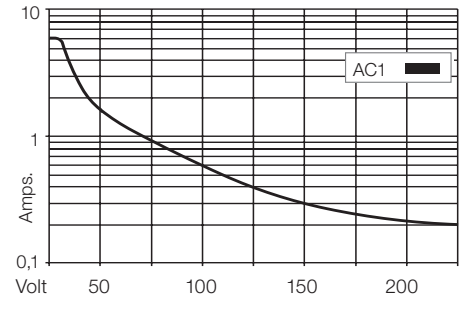
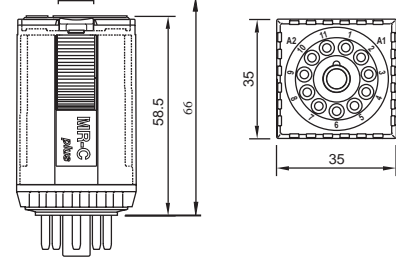


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities

IEC 61810; EN 60947



Kühn Controls AG

Notes:

You want more information about this product, please call us: tel: +49 (0)7082-940000 or send us a fax: +49 (0)7082-940001, or email: sales@kuehn-controls.de or visit our Website: www.kuehn-controls.de