

MRC series
C3-N3x
11-pin standard relays, sensitive, 3-pole, according to IEC 67-I-18a

Type	C3-N3x/DC ... V Sensitive relays, 800 mw 3 change-over contacts		
Operating range	0,8 ... 1,4 x Un		
Maximum contact load	6 A/250 V	AC 1	6 A/30 V DC1
Recommended minimum contact load	1 mA/10 V (with 10 µm Au) 10 mA/10 V (standard contact)		

Contacts			
Material	Standard	Code 4	AgNi + 0,2 µ Au
	Optional	Code 8	AgNi + 10 µ Au
Rated current	6 A		
Switch-on current max. (20 ms)	15 A		
Switching voltage max.	250 V		
AC load	1,5 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	800 mW		

Coil table	VDC	Ω	mA
	24	720	33
	48	2K8	17
	60	4K5	13
	110	15K	7

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
Pick-up time/bounce time	18 ms/≤ 3 ms
Release time/bounce time	10 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	C3-N34/DC ... V	C3-N38/DC ... V
DC 24, 48, 60, 110	C3-N34D/DC ... V	C3-N38D/DC ... V
Free wheeling diode	C3-N34F/DC ... V	C3-N38F/DC ... V
Polarity and free wheeling diode		

Conncting of diodes to the coil will increase the release time.
 LED available upon request.

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

Accessories	S3-B, S3-S, S3-L, S3-P, S3-P0
Socket:	SO-NP, SO-OP
Operational accessories (blanking plug):	



Connection diagram

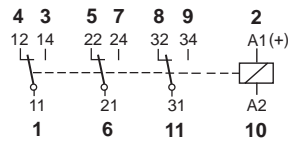


Fig. 1 AC voltage endurance

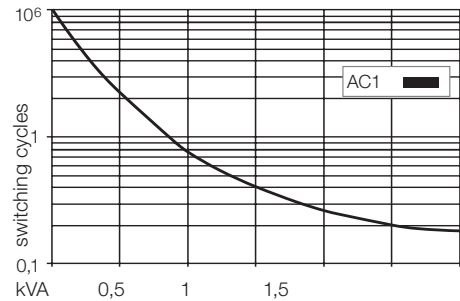
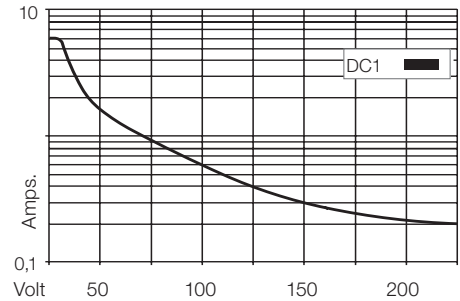
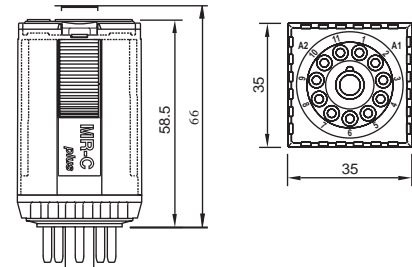


Fig. 2 DC load limit curve



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