MRC series
C3-E2x
11-pin standard relays, sensitive, 2-pole, according to IEC 67-I-18a

Type	**C3-E2x/ DC... V** Sensitive relays, 500 mW, 2 change-over contacts
Operating range	**0,8 ... 1,7 x Un**
Maximum contact load	**6 A/250 V AC1 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	500 mW

Coil table

VDC	Ω	mA
24	1K1	21
48	4K6	10
60	7K2	8,3
110	24K2	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
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

DC 24, 48, 110, 220	**C3-E24/DC ... V**	**C3-E28/DC ... V**
Free wheeling diode	**C3-E24D/DC ... V**	**C3-E28D/DC ... V**
Polarity and free wheeling diode	**C3-E24F/DC ... V**	**C3-E282F/DC ... V**

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

"..." 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

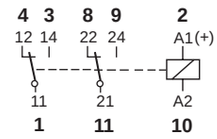


Fig. 1 AC voltage endurance

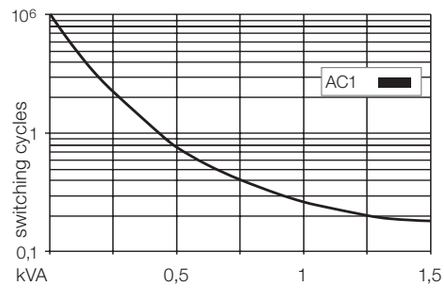
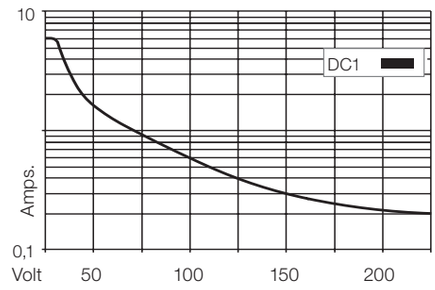
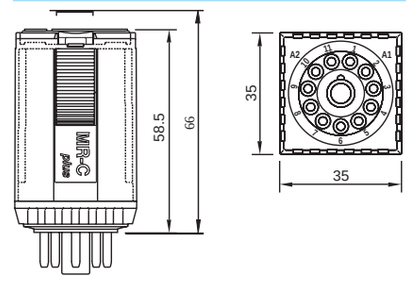


Fig. 2 DC load limit curve



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