

# MRC series

## C3-G3x

### 11-pin standard relay, 3-pole, open contact, according to IEC 67-I-18a

<b>Type</b>	<b>C3-G3x/ ... V</b> Standard relays, DC application 3 open contacts		
-------------	--	--	--

<b>Maximum contact load</b>	<b>10 A 250 V AC 1</b>	<b>1,2 A/110 V DC1</b>
	<b>10 A 30 V DC 1</b>	<b>0,4 A/220 V DC1</b>

<b>Contacts</b>			
Material	Standard	Code 0	AgNi
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

<b>Coil</b>		
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)/1,6 W (DC)

<b>Coil table</b>	<b>VAC</b>	<b><math>\Omega</math></b>	<b>mA</b>	<b>VDC</b>	<b><math>\Omega</math></b>	<b>mA</b>
	24	65	100	24	360	66
	48	286	50	48	1K4	34
	115	1K7	21	110	7K6	15
	230	6K8	10	220	30K3	7,5

<b>Insulation</b>	Volt rms, 1 min
Contact open	2000 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

<b>Specifications</b>	
Ambient temperature operation/storage	-40 (no ice)...60 °C / -40 ... 80 °C
Pick-up time/bounce time	16 ms/ $\leq 3$ ms
Release time/bounce time	8 ms/ $\leq 1$ ms
Mechanical life	AC: 10 Mill./DC: 20 Mill. switching cycles
AC voltage endurance at rated load	$\geq 100000$ switching cycles
Switching frequency at rated load	$\leq 1200$ /h
Protection class	IP40
Weight	90 g

- Standard types**  
**AC 50 Hz/60 Hz:** 24, 48, 115, (120), 230, (240)  
**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**

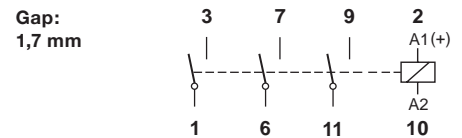
- C3-G30/AC ... V**  
**C3-G30X/AC ... V**  
**C3-G30R/AC ... V**  
  
**C3-G30/DC ... V**  
**C3-G30X/DC ... V**  
**C3-G30DX/DC... V**  
**C3-G30FX/DC ... V**  
  
**C3-G30BX/UC ... V**

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

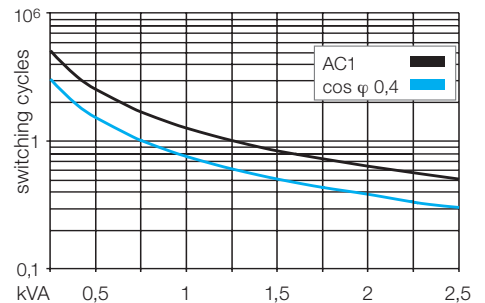
<b>Accessories</b>	
Socket:	<b>S3-B, S3-S, S3-L, S3-P, S3-P0</b>
Operational accessories (blanking plug):	<b>SO-NP, SO-OP</b>



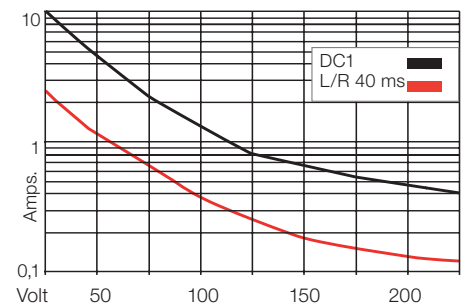
#### Connection diagram



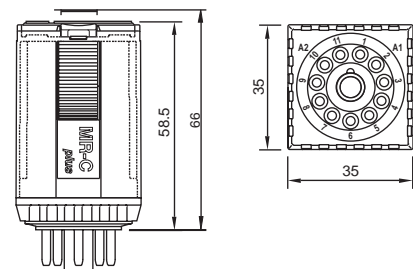
**Fig. 1 AC voltage endurance**



**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](mailto:sales@kuehn-controls.de) or visit our Website: [www.kuehn-controls.de](http://www.kuehn-controls.de)