

**MRC series**  
**C5-G3x**  
**11-pin, power relay, 3-pole, plug-in, faston**

**Type** **C5-G3x/ ... V**  
 Power relays, DC application.  
 3 open contacts

**Maximum contact load** **16 A/400 V AC1** **1,2 A/110 V DC1**  
**16 A/30 V DC1** **0,4 A/220 V DC1**

**Contacts**  
 Material Standard Code 0 AgNi  
 Rated current 16 A  
 Switch-on current max. (20 ms) 40 A  
 Switching voltage max. 400 V  
 AC load 4 kVA  
 DC load see Fig. 2

**Coil**  
 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)

**Coil table**

VAC	$\Omega$	mA	VDC	$\Omega$	mA
24	65	100	12	90	133
48	286	50	24	360	66
115	1K7	21	48	1K4	34
230	6K8	10	110	7K6	15
400	18K8	6	220	30K3	7,5

**Insulation** Volt rms, 1 min  
 Contact open 2000 V  
 Contact/contact 4 kV  
 Contact/coil 4 kV  
 Insulation resistance at 500 V  $\geq 3 \text{ G}\Omega$   
 Insulation, IEC 61810-5 4 kV/3

**Specifications**  
 Ambient temperature operation/storage -40 (no ice)...60 °C / -40 ... 80 °C  
 Pick-up time/bounce time 20 ms/ $\leq 3$  ms  
 Release time/bounce time 10 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 95 g

**Standard types**  
**AC 50 Hz/60 Hz: 24, 48, 115, (120), 230, (240)** **C5-G30/AC ... V**  
**LED** **C5-G30X/AC ... V**  
**RC suppressor** **C5-G30R/AC ... V**

**DC 24, 48, 110, 220** **C5-G30/DC ... V**  
**LED** **C5-G30X/DC ... V**  
**Free wheeling diode** **C5-G30DX/DC ... V**  
**Polarity and free wheeling diode** **C5-G30FX/DC ... V**

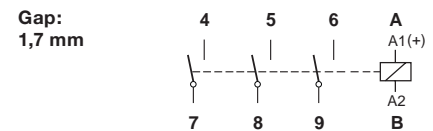
**AC/DC bridge rectifier 24 V, 48 V, 60 V** **C5-G30BX/UC ... V**

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

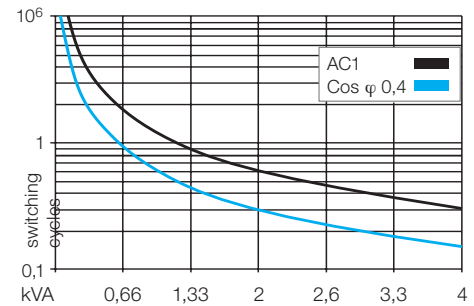
**Accessories**  
 Socket: **S5-S, S5-L, S5-P, S5-P0**  
 Operational accessories (blanking plug): **SO-NP, SO-OP**



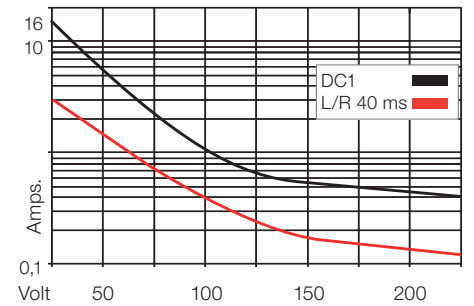
**Connection diagram**



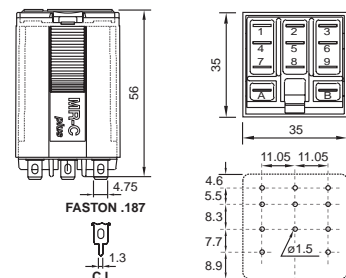
**Fig. 1 AC voltage endurance**



**Fig. 2 DC load limit curve**



**Dimensions [mm]**



**Technical approvals, conformities**



IEC 60947; IEC 61810



**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)