

MRC series

C5-M2x

11-pin, power relay, 2-pole, magnetic blow out, faston

Type	C5-M2x/ ... V Power relays, DC application double pole, NO, magnetic blow out		
Maximum contact load	16 A @ 250 V AC1	7 A @ 110 V DC1	3 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.	250 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	Ω	mA	VDC	Ω	mA
	24	65	100	12	90	133
	48	286	50	24	360	66
	115	1K7	21	48	1440	33
	230	6K8	10.4	110	7562	15

Insulation	Volt rms, 1 min
Contact open	4 kV
Contact/contact	4 kV
Contact/coil	3 kV
Insulation resistance at 500 V	$\geq 3 \text{ G}\Omega$
Insulation, EN 60947/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/ ≤ 3 ms
Release time/bounce time	10 ms/ ≤ 1 ms
Mechanical life	AC: 10 Mill./DC: 20 Mill. switching cycles
bei Rated load	≥ 75.000 switching cycles
Switching frequency at rated load	$\leq 1200/h$
Protection class	IP40 / RT1
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**

- C5-M20/AC ... V**
C5-M20X/AC ... V
C5-M20R/AC ... V
- C5-M20/DC ... V**
C5-M20X/DC ... V
C5-M20DX/DC ... V
C5-M20FX/DC ... V
- C5-M20BX/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

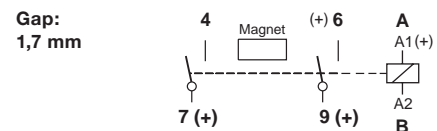


Fig. 1 AC voltage endurance

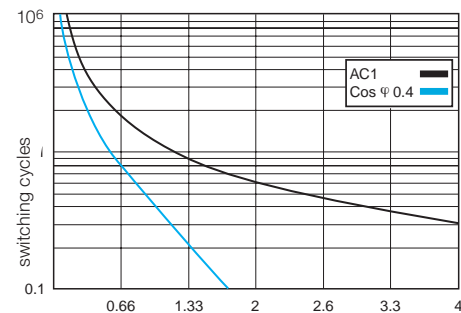
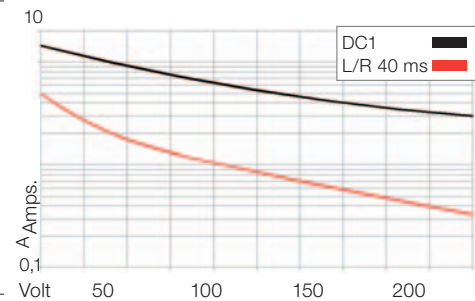
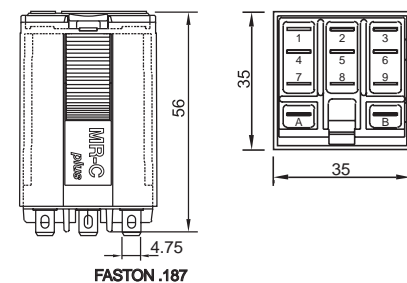


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities



IEC 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