

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

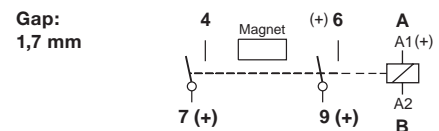


Fig. 1 AC voltage endurance

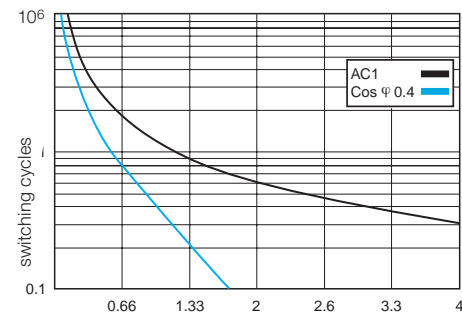
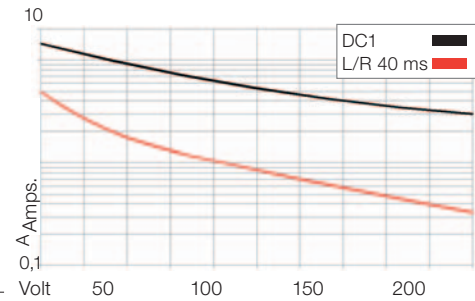
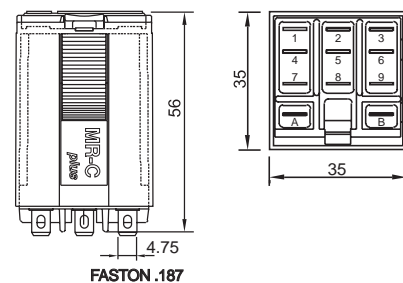


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities



IEC 61810; EN 60947