

# MRC series

## C5-A3x

### 11-pin, power relay, 3-pole, plug-in, faston

**Type** **C5-A3x/ ... V**  
Power relays, 3 change-over contacts

**Maximum contact load** **16 A/400 V AC1**      **0,5 A/110 V DC1**  
**16 A/30 V DC1**                                      **0,2 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 (Fig 1)                      4 kVA  
DC load                      see Fig. 2

#### Coil

Coil resistance                      see table; tolerance  $\pm 10\%$   
Pick-up voltage                       $\leq 0,8 \times U_N$   
Release voltage                       $\geq 0,1 \times U_N$   
Nominal power                      2,4 VA (AC)/1,4 W (DC)

#### Coil table

VAC	$\Omega$	mA	VDC	$\Omega$	mA
24	65	100	24	414	58
48	286	50	48	1K6	30
115	1K7	21	110	8K1	13
230	6K8	10	220	35K6	6,5
400	18K8	6			

#### Insulation

Insulation                      Volt rms, 1 min  
Contact open                      1000 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 ops                      AC: 10 Mill./DC: 20 Mill.  
DC 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)**

**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**

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

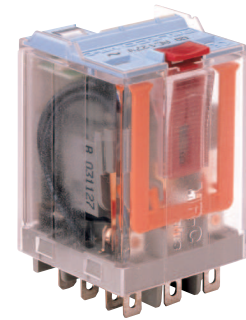
**C5-A30/AC ... V**  
**C5-A30X/AC ... V**  
**C5-A30R/AC ... V**

**C5-A30/DC ... V**  
**C5-A30X/DC ... V**  
**C5-A30DX/DC ... V**  
**C5-A30FX/DC ... V**

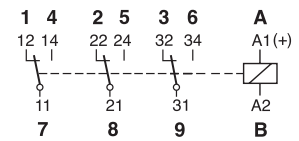
**C5-A30BX/UC ... V**

#### Accessories

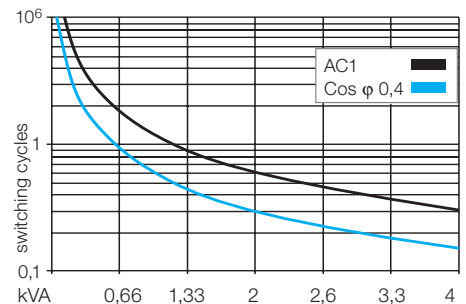
Socket:                      **S5-S, S5-L, S5-P, S5-P0**  
Optional accessories (blanking plug):                      **SO-NP, SO-OP**



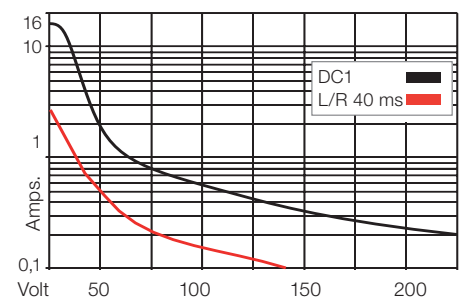
#### Connection diagram



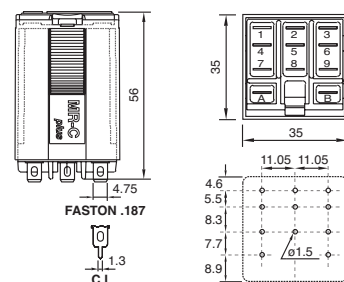
**Fig. 1 AC voltage endurance**



**Fig. 2 DC load limit curve**



#### Dimensions [mm]



#### Technical approvals, conformities



IEC 60947; IEC 61810