

# MRC series

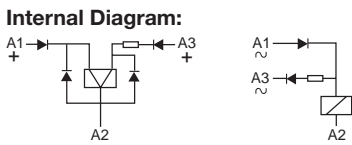
## C4-R3x

### 14-pin, remanence relay, 3-pole, faston

<b>Type</b>	<b>C4-R3x/ ... V</b> Magnetic remanence relay 2 change-over contact		
<b>Maximum contact load</b>	<b>10 A/250 V AC 1</b>	<b>0,5 A/110 V DC1</b>	
	<b>10 A/10 V DC 1</b>	<b>0,2 A/220 V DC1</b>	
<b>Recommended minimum contact load</b>	<b>1 mA/10 V</b> (with 10 $\mu$ Au) <b>10 mA/10 V</b> (standard contact)		

<b>Contacts</b>			
Material	Standard	Code 0	AgNi
	Optional	Code 8	AgNi + 10 $\mu$ Au
	Optional	Code 9	AgNi + 0,2 $\mu$ Au
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 $\pm 10\%$		
ON pulse power	1,5 VA/W		
OFF pulse power	0,5 VA/W		
	1 Winding for AC, 2 Windings for DC		



**Coil table**

VAC	$\Omega$	mA	VDC	$\Omega$	mA
24	75	12	12	125	41
48	38	6	24	63	21
115	16	2,5	48	31	10
230	8	1,3	110	14	4,5

<b>Insulation</b>	Volt rms, 1 min
Contact open	1000 V
Contact/contact	2,5 kV
Contact/coil	2,5 kV
Insulation resistance at 500 V	$\geq 3$ G $\Omega$
Insulation, IEC 61810-5	2,5 kV/3

<b>Specifications</b>	
Ambient temperature operation/storage	-40 (no ice)...60 $^{\circ}$ C / -40 ... 80 $^{\circ}$ C
Minimum pulse length for ON/OFF	50 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

<b>Standard types</b>	
<b>AC 50 Hz/60 Hz:</b> 24, 48, 115, (120), 230, (240)	
<b>DC 12, 24, 48, 110</b>	

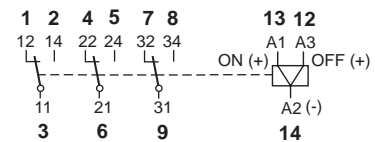
<b>C4-R30/AC ... V</b>	<b>C4-R38/AC ... V</b>	<b>C4-R39/AC ... V</b>
<b>C4-R30/DC ... V</b>	<b>C4-R38/DC ... V</b>	<b>C4-R39/DC ... V</b>

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

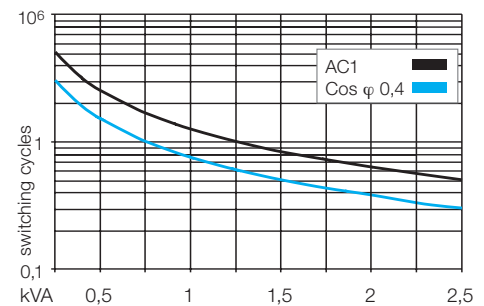
<b>Accessories</b>	
Socket:	<b>S4-B, S4-L, S4-P, S4-P0</b>
Operational accessories (blanking plug):	<b>SO-NP, SO-OP</b>



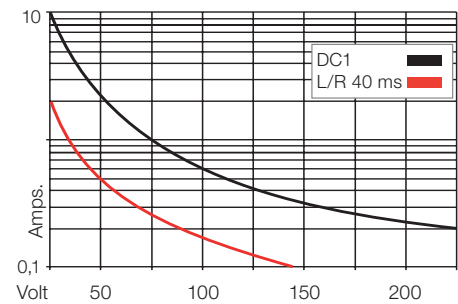
#### Connection diagram



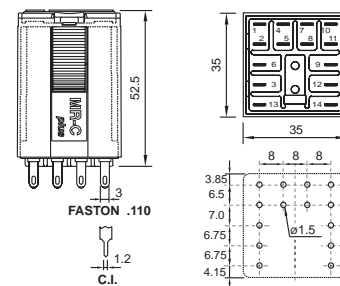
#### Fig. 1 AC voltage endurance



#### Fig. 2 DC load limit curve



#### Dimensions [mm]



#### Technical approvals, conformities



IEC 61810; EN 60947