

# MRC series

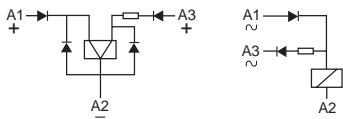
## C3-R2x

### 11-pin remanence relays, 2-pole, according to IEC 67-I-18a

<b>Type</b>	<b>C3-R2x/ ... V</b> Remanence plug-in relays, 2 change-over contacts		
<b>Maximum contact load</b>	<b>10 A/250 V AC1</b>	<b>0,5 A/110 V DC1</b>	
	<b>10 A/30 V DC1</b>	<b>0,2 A/220 V DC1</b>	
<b>Recommended minimum contact load</b>	<b>1 mA/10 V</b> (with 10 µm Au) <b>10 mA/10 V</b> (standard contact)		
<b>Contacts</b>			
Material	Standard	Code 0	AgNi
	Optional	Code 8	AgNi + 10 µ Au
	Optional	Code 9	AgNi + 0,2 µ 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 ± 10 %		
ON pulse power	1,5 VA/W		
OFF pulse power	0,5 VA/W		

**Internal Diagram:**



**Coil table**

VAC	Ω	mA	VDC	Ω	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

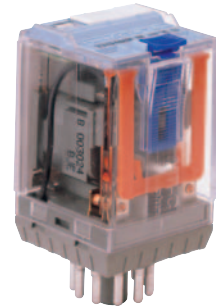
<b>Insulation</b>	Volt rms, 1 min
Contact open	1000 V
Contact/contact	2,5 kV
Contact/coil	2,5 kV
Insulation resistance at 500 V	≥1 GΩ
Insulation, IEC 61810-5	2,5 kv/3

<b>Specifications</b>	
Ambient temperature operation/storage	-40 (no ice)...60 °C / -40 ... 80 °C
Minimum pulse length for ON/OFF	50 ms
Mechanical life	10 Mill. switching cycles AC, 20 Mill. DC-Relais
AC voltage endurance at rated load	≥100000 switching cycles
Switching frequency at rated load	≤ 1200/h
Protection class	IP40
Weight	95 g

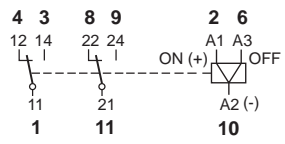
<b>Standard types</b>			
<b>AC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240)</b>	<b>C3-R20/AC ... V</b>	<b>C3-R28/AC ... V</b>	<b>C3-R29/AC ... V</b>
<b>DC 24, 48, 110, 220</b>	<b>C3-R20/DC ... V</b>	<b>C3-R28/DC ... V</b>	<b>C3-R29/DC ... V</b>

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

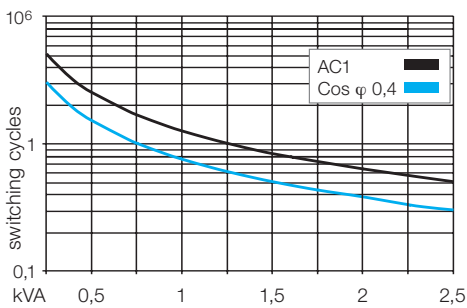
<b>Accessories</b>	
Socket:	<b>S3-B, S3-S, S3-L, S3-P, S3-P0</b>
Operational accessories (blanking plug):	<b>SO-NP, SO-OP</b>



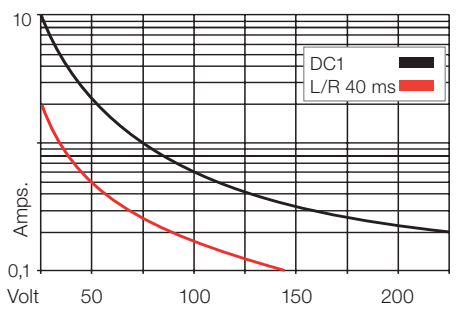
**Connection diagram**



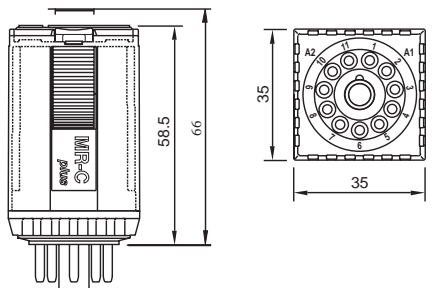
**Fig. 1 AC voltage endurance**



**Fig. 2 DC load limit curve**



**Dimensions [mm]**



**Technical approvals, conformities**



IEC 61810; EN 60947