

MRC series
C5-M1x
11-pin, power relay, 1-pole, magnetic blow out, faston

Type	C5-M1x/ ... V Power relays, DC application 1 pole, NO, magnetic blow out		
Maximum contact load	16 A/400 V AC1 3,6 A/110 V DC13	10 A/220 V DC1 2 A/220 V DC13	
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	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)/1,3 W (DC)

Coil table																																					
	<table border="1"> <thead> <tr> <th>VAC</th> <th>Ω</th> <th>mA</th> <th>VDC</th> <th>Ω</th> <th>mA</th> </tr> </thead> <tbody> <tr> <td>24</td> <td>65</td> <td>100</td> <td>12</td> <td>110</td> <td>108</td> </tr> <tr> <td>48</td> <td>286</td> <td>50</td> <td>24</td> <td>443</td> <td>54</td> </tr> <tr> <td>115</td> <td>1K7</td> <td>21</td> <td>48</td> <td>1K8</td> <td>27</td> </tr> <tr> <td>230</td> <td>6K8</td> <td>10</td> <td>110</td> <td>9K</td> <td>12</td> </tr> <tr> <td>400</td> <td>18K8</td> <td>6</td> <td>220</td> <td>34K5</td> <td>6,5</td> </tr> </tbody> </table>	VAC	Ω	mA	VDC	Ω	mA	24	65	100	12	110	108	48	286	50	24	443	54	115	1K7	21	48	1K8	27	230	6K8	10	110	9K	12	400	18K8	6	220	34K5	6,5
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230	6K8	10	110	9K	12																																
400	18K8	6	220	34K5	6,5																																

Insulation	Volt rms, 1 min
Contact open	4000 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/ ≤ 3 ms
Release time/bounce time	10 ms/ ≤ 1 ms
Mechanical life	AC: 10 Mill./DC: 20 Mill. switching cycles
AC voltage endurance at rated load	≥ 100000 switching cycles
Switching frequency at rated load	≤ 1200 /h
Protection class	IP40
Weight	90 g

Standard types
AC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240)
LED
RC suppresor

C5-M10/AC ... V
C5-M10X/AC ... V
C5-M10R/AC ... V

DC 24, 48, 110, 220
LED
Free wheeling diode
Polarity and free wheeling diode

C5-M10/DC ... V
C5-M10X/DC ... V
C5-M10DX/DC ... V
C5-M10FX/DC ... V

AC/DC bridge rectifier 24 V, 48 V, 60 V
 "... " Enter the voltage for full type designation

C5-M10BX/UC ... V

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



Connection diagram

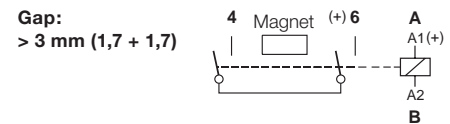


Fig. 1 AC voltage endurance

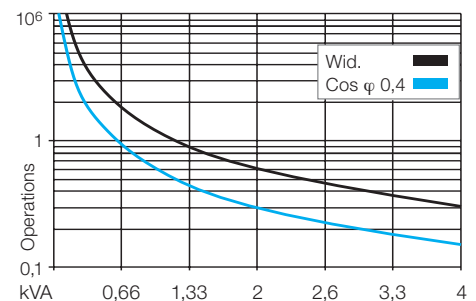
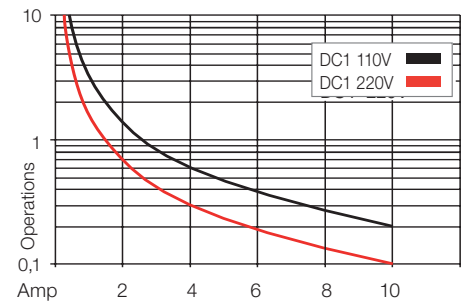
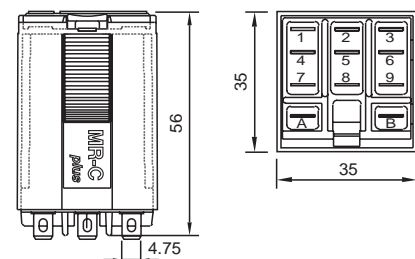


Abb. 2 DC voltage endurance



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