

MRC, QRC & IRC SERIES

Application	Types	Poles	AC ratings	DC ratings	Page	Sockets	Page
General purpose	C2-A20 8 pin	2 C	10A / 250V	0,5A @ 110V	44	S2	56
	C3-A30 11 pin	3 C	10A / 250V	0,5A @ 110V	45	S3	57
	C4-A40 14 pin flat blade	4 C	10A / 250V	0,5A @ 110V	48	S4	59
	C5-A20 11 pin flat blade	2 C	16A / 500V	0,5A @ 110V	49	S5	59
	C5-A30 11 pin flat blade	3 C	16A / 500V	0,5A @ 110V	49	S5	59
	C7-A10 8 pin miniature flat blade	1 C	16A / 250V	0,5A @ 110V	51	S7	60
	C7-A20 8 pin miniature flat blade	2 C	10A / 250V	0,5A @ 110V	51	S7	60
	C9-A41 14 pin miniature flat blade	4 C	3A / 250V	0,5A @ 110V	53	S9	61
	C10-A10 5 pin flat blade	1 C	10A / 400V	0,5A @ 110V	54	S10	61
Twin contacts Low level loads	C2-T21 8 pin	2 C	6A / 250V	Min. 5mA @ 5V	44	S2	56
	C3-T31 11 pin	3 C	6A / 250V	Min. 5mA @ 5V	45	S3	57
	C7-T21 8 pin miniature flat blade	2 C	6A / 250V	Min. 5mA @ 5V	51	S7	60
	C10-T13 5 pin flat blade	1 C	6A / 400V	Min. 1mA @ 5V	54	S10	61
Open contacts DC load switching Flag not available	C2-G20 8 pin	2 NO	10A / 250V	1,2A @ 110V	44	S2	56
	C3-G30 11 pin	3 NO	10A / 250V	1,2A @ 110V	45	S3	57
	C5-G30 11 pin flat blade	3 NO	16A / 500V	1,2A @ 110V	49	S5	59
	C7-G20 8 pin miniature flat blade	2 NO	10A / 250V	0,8A @ 110V	52	S7	60
Double make DC load switching Flag not available	C3-X10 11 pin	1 DM	10A / 250V	7A @ 110V	46	S3	57
	C4-X20 14 pin flat blade	2 DM	10A / 250V	7A @ 110V	48	S4	59
	C5-X10 11 pin flat blade	1 DM	10A / 250V	7A @ 110V	50	S5	59
	C7-X10 8 pin miniature flat blade	1 DM	10A / 250V	6A @ 110V	52	S7	60
Magnet blow-out Flag not available	C3-M10 11 pin	1 DM	10A / 250V	10A @ 220V	46	S3	57
	C5-M10 11 pin flat blade	1 DM	16A / 500V	10A @ 220V	50	S5	59
Latching LED not available	C3-R20 11 pin	2 C	10A / 250V	0,5A @ 110V	46	S3	57
	C4-R30 14 pin flat blade	3 C	10A / 250V	0,5A @ 110V	48	S4	59
	C5-R20 11 pin flat blade	2 C	10A / 250V	0,5A @ 110V	50	S5	59
	C9-R21 14 pin miniature flat blade	2 C	3A / 250V	0,5A @ 110V	53	S9	61
Sensitive 250mW ... 800mW Flag not available LED not available	C3-S14 11 pin	1 C	6A / 250V	0,5A @ 110V	47	S3	57
	C3-E24 11 pin	2 C	6A / 250V	0,5A @ 110V	47	S3	57
	C3-N34 11 pin	3 C	6A / 250V	0,5A @ 110V	47	S3	57
	C9-E21 14 pin miniature flat blade	2 C	3A / 250V	0,5A @ 110V	53	S9	61
Lamp switching	C7-W10 Miniature, faston 187	1 NO	10A / 250V	0,5A @ 110V	52	S7	60
Time cube	CT2 8 pin plug-in timer module	2 C	10A / 250V	0,5A @ 110V	55	S2	56
	CT3 11 pin plug-in timer module	3 C	10A / 250V	0,5A @ 110V	55	S3	57

PART NUMBER KEY

Model series	Coil voltage
C2 - MRC 8 pin	
C3 - MRC 11 pin	
C4 - MRC 14 pin flat blade	
C5 - MRC 11 pin flat blade	
C7 - QRC 8 pin miniature flat blade	
C9 - QRC 14 pin miniature flat blade	
C10 - IRC 5 pin flat blade	
Contact Type	Led indication
A - standard, change-over contacts	
T - twin contacts (bifurcated)	
G - open contacts	
X - double make contacts	
M - double make, magnetic blow out	
R - remanence (latching)	
S - sensitive coil, 250 mW	
E - sensitive coil, 500 mW	
N - sensitive coil, 800 mW	
W - tungsten and silver contacts	
Number of contacts	Special executions
	H - Orange push only test button
	N - Black blanking plug i.e. no test button
	P - pins for printed circuit
	E - cover for flange panel mounting
	Additions to the coil
	D - free wheeling diode (DC only)
	F - polarity and free wheeling diodes (dc only)
	B - rectifying bridge for AC/DC relays
	R - RC suppressor (only MR-C types)
	Contact materials
	0 - standard
	9 - gold-flashed contact, 0,2μ Au
	8 - gold-plated contact, 10μ Au
	4 - sensitive MRC relays
	2 - gold-plated 10μ Au (twin and C9 relays)
	1 - flashed 0,2μ Au (twin and C9 relays)



MRC 14 PIN (FLAT BLADE) STANDARD/POWER/LATCHING

- Lockable test button
- Marking label on relay
- 2 window mechanical flag (not available on C4-X20)
- Colour coded test button
- Coil voltage marked on top of relay
- Label carries full technical information
- CE marked

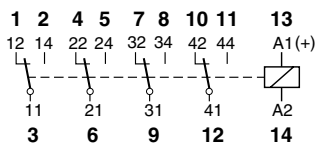


C4-A40... General purpose Four change-over contacts, 10 A

10A/250V AC1	10 A @ 30V DC1
6A/250V AC15	0,5A @ 110V DC1

Contacts

Materials code 0 (standard); options: 8 - 9
 Max. switching current 10 A
 Peak inrush current (20 ms) 30 A
 Max. switching voltage, (pollution 3) 250 V
 Max. switching voltage, (pollution 2) 400 V
 Max. AC load (Table 11) 2 KVA
 Max. DC load See Table 2, page 126



Standard types (50/60 Hz and DC)

AC 24, 48, 115 (110 ... 120), 230
 X = LED (optional) C4-A40 X/ ... V
 RC suppressor C4-A40R ... V
 (LED not possible with RC suppressor)

DC 12, 24, 48, 110, 120/125, 220

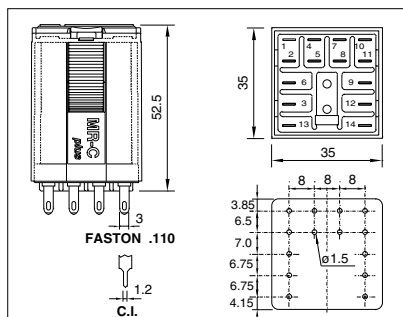
X = LED (optional) C4-A40 X/ ... V
 Free wheeling diode C4-A40D X/ ... V
 Free wheeling and polarity C4-A40F X/ ... V
 AC/DC rectifier (60V max.) C4-A40B X/ ... V

Specifications

Nominal coil power: 2,4 VA (AC), 1,4 W (DC)
 Operate time 20 ms.
 Release time 8 ms.
 Isolation: EN60947 pollution 3, Gr C 250V
 Dielectric strength, contacts/coil 2,5 KV
 Dielectric strength, pole/pole 2,5 KV

Lloyd's

Dimensions (mm)

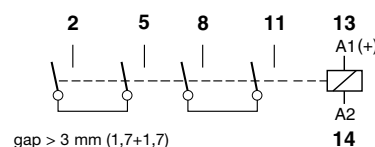


C4-X20... Power relay, DC Double pole, NO, double make

10A / 250V AC1	1,2A @ 220V DC1
7A @ 110V DC1	0,3A @ 220V DC13

Contacts

Materials code 0 (standard)
 Max. switching current 10 A
 Peak inrush current (20 ms) 30 A
 Max. switching voltage, (pollution 3) 250 V
 Max. switching voltage, (pollution 2) 400 V
 Max. AC load (Table 11) 2 KVA
 Max. DC load See Table 10



Standard types (50/60 Hz and DC)

AC 24, 48, 115 (110 ... 120), 230
 X = LED (optional) C4-X20 X/ ... V
 RC suppressor C4-X20R ... V
 (LED not possible with RC suppressor)

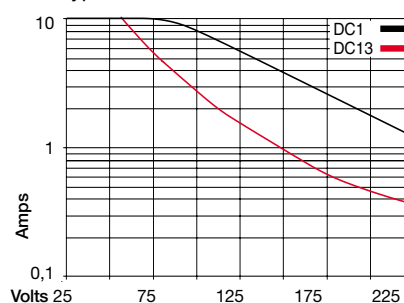
DC 12, 24, 48, 110, 120/125, 220

X = LED (optional) C4-X20 X/ ... V
 Free wheeling diode C4-X20D X/ ... V
 Free wheeling and polarity C4-X20F X/ ... V
 AC/DC rectifier (60V max.) C4-X20B X/ ... V

Specifications

Nominal coil power: 2,4 VA (AC), 1,3 W (DC)
 Operate time 20 ms.
 Release time 8 ms.
 Isolation: EN60947 pollution 3, Gr C 250V
 Dielectric strength, contacts/coil 2,5 KV
 Dielectric strength, pole/pole 2,5 KV

Table 10 Máx. DC load
Type C3-X10, C4-X20

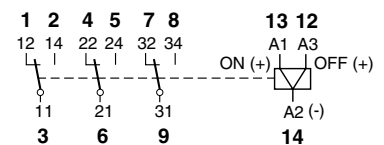


C4-R30... Latching relay Three change-over contacts, 10 A

10A/250V AC1	10 A @ 30V DC1
6A/250V AC15	0,5A @ 110V DC1

Contacts

Materials code 0 (standard); options: 8 - 9
 Max. switching current 10 A
 Peak inrush current (20 ms) 30 A
 Max. switching voltage, (pollution 3) 250 V
 Max. switching voltage, (pollution 2) 400 V
 Max. AC load (Table 11) 2 KVA
 Max. DC load See Table 2, page 126



Standard types (50/60 Hz and DC)

AC 24, 48, 115 (110 ... 120), 230
 C4-R30 / ... V

DC 12, 24, 48, 110, 125

Two coils C4-R30 / ... V

Note: All AC and DC coils withstand permanent connection.

Specifications

ON pulse power 1,5 VA/ W
 OFF pulse power 0,5 VA/ W
 Min. pulse length for ON/OFF control: 50 ms.
 Isolation: EN60947 pollution 3, Gr C 250V
 Dielectric strength, contacts/coil 2,5 KV
 Dielectric strength, pole/pole 2,5 KV

Table 11 Electrical life (ops x 10⁶)
Types C4-A40, C4-X20, C4-R30

