

Type	C4-A4x/ ... V		
	Standard relays, 4 change-over contacts		
Maximum contact load	10 A/250 V AC-1	0,5 A/110 V DC-1	
	10 A/30 V DC-1	0,2 A/220 V DC-1	
Recommended minimum contact load	10 mA/10 V Code 0, 9		
	5 mA/5 V Code 8		
Contacts			
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 (Fig 1)		2,5 kVA	
DC load		see Fig. 2	

Coil	
Coil resistance	see table; tolerance ± 10 %
Pick-up voltage	≤ 0,8 x U _N
Release voltage	≥ 0,1 x U _N
Nominal power	2,4 VA (AC)/1,4 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>24</td> <td>414</td> <td>58</td> </tr> <tr> <td>48</td> <td>286</td> <td>50</td> <td>48</td> <td>1K6</td> <td>30</td> </tr> <tr> <td>115</td> <td>1K7</td> <td>21</td> <td>110</td> <td>8K1</td> <td>13</td> </tr> <tr> <td>230</td> <td>6K8</td> <td>10</td> <td>220</td> <td>35K7</td> <td>6,2</td> </tr> </tbody> </table>	VAC	Ω	mA	VDC	Ω	mA	24	65	100	24	414	58	48	286	50	48	1K6	30	115	1K7	21	110	8K1	13	230	6K8	10	220	35K7	6,2
VAC	Ω	mA	VDC	Ω	mA																										
24	65	100	24	414	58																										
48	286	50	48	1K6	30																										
115	1K7	21	110	8K1	13																										
230	6K8	10	220	35K7	6,2																										

Insulation	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 61810-1	2,5 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	8 ms/≤ 1 ms
Mechanical life ops	AC: 10 Mill./DC: 20 Mill.
DC voltage endurance at rated load	≥ 100000 switching cycles
Switching frequency at rated load	≤ 1200/ops/h
Protection class	IP40
Weight	90 g

Standard types		
VAC 50 Hz/60 Hz: 24, 48, 115, (120), 230, (240)	C4-A40/AC ... V C4-A40X/AC ... V C4-A40R/AC ... V	C4-A48/AC ... V C4-A48X/AC ... V C4-A48R/AC ... V
LED		
RC suppressor		
VDC 24, 48, 110, 220	C4-A40/DC ... V C4-A40X/DC ... V C4-A40DX/DC ... V C4-A40FX/DC ... V	C4-A48/DC ... V C4-A48X/DC ... V C4-A48DX/DC ... V C4-A48FX/DC ... V
LED		
Free wheeling diode		
Polarity and free wheeling diode		
AC/DC bridge rectifier 24 V, 48 V, 60 V	C4-A40BX/UC ... V	C4-A48BX/UC ... V

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

Accessories	
Socket:	S4-J, S4-L, S4-P, S4-P0
Optional accessories (blanking plug):	SO-NP, SO-OP



Connection diagram

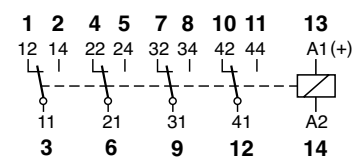


Fig. 1 AC voltage endurance

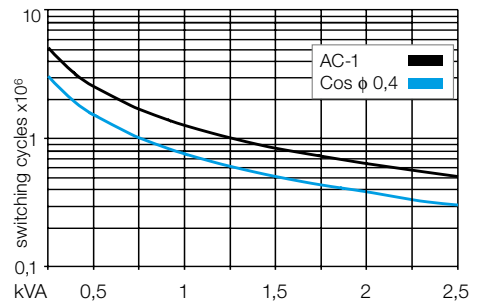
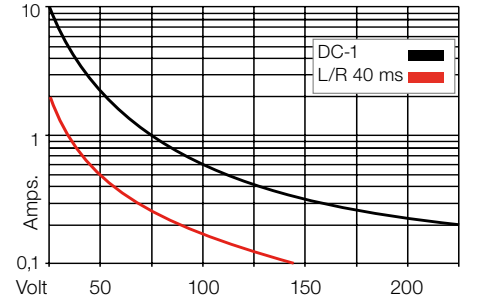
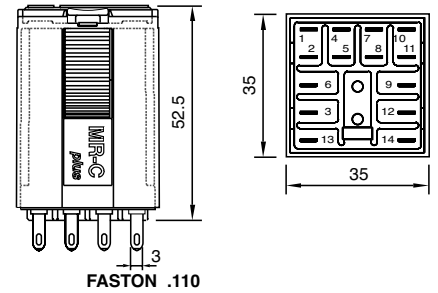


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities



IEC 61810; EN 60947

C4-X2x

14-pin, power relay, double-make, faston

Type	C4-X2x/ ... V Power relays, DC application 2-pole, NO, double make			
Maximum contact load	10 A/250 V AC-1	7 A/110 V DC-1		
	10 A/30 V DC-1	1,2 A/220 V DC-1		

Contacts			
Material	Standard	Code 0	AgNi
Rated current			10 A
Switch-on current max. (20 ms)			30 A
Switching voltage max			250 V
AC load (Fig 1)			2,5 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)/1,3 W (DC)

Coil table					
VAC	Ω	mA	VDC	Ω	mA
24	65	100	24	443	54
48	286	50	48	1K8	27
115	1K7	21	110	9K2	12
230	6k8	10	220	36K1	6

Insulation	
Contact open	Volt rms, 1 min 2500 V
Contact/contact	2,5 kV
Contact/coil	2,5 kV
Insulation resistance at 500 V	$\geq 1 \text{ G}\Omega$
Insulation, IEC 61810-1	2,5 kV/3

Specifications	
Ambient temperature operation/storage	-40 (no ice)...60 °C / -40 ... 80 °C
Pick-up time/bounce time	20 ms/ $\leq 3 \text{ ms}$
Release time/bounce time	8 ms/ $\leq 1 \text{ ms}$
Mechanical life ops	AC: 10 Mill./DC: 20 Mill.
DC voltage endurance at rated load	≥ 100000 switching cycles
Switching frequency at rated load	≤ 1200 /ops/h
Protection class	IP40
Weight	90 g

Standard types	
VAC 50 Hz/60 Hz: 24, 48, 115, (120), 230, (240)	C4-X20/AC ... V C4-X20X/AC ... V C4-X20R/AC ... V
LED	
RC Suppressor	
VDC 24, 48, 110, 220	C4-X20/DC ... V C4-X20X/DC ... V C4-X20DX/DC ... V C4-X20FX/DC ... V
LED	
Free wheeling diode	
Polarity and free wheeling diode	
AC/DC bridge rectifier 24 V, 48 V, 60 V	C4-X20BX/UC ... V

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

Accessories	
Socket:	S4-S, S4-L, S4-P, S4-P0
Optional accessories (blanking plug):	SO-NP, SO-OP



Connection diagram

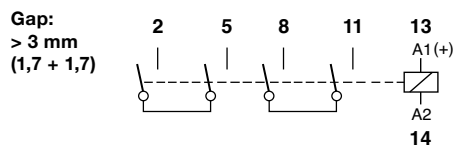


Fig. 1 AC voltage endurance

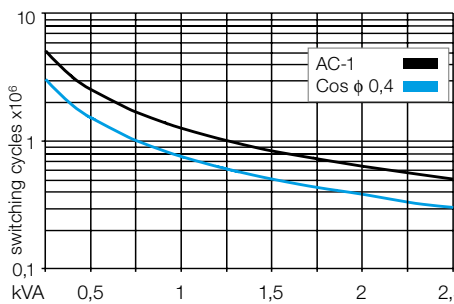
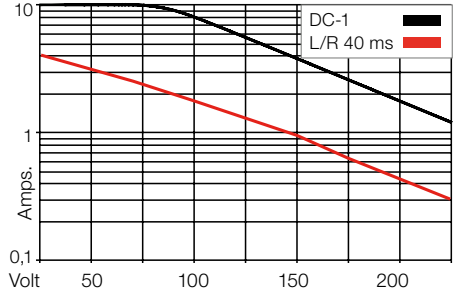
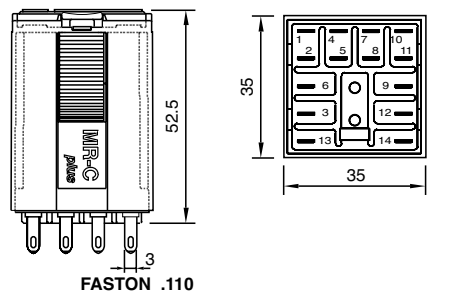


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities

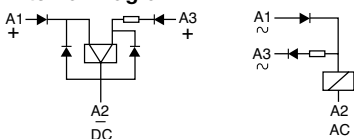


Type	C4-R3x/ ... V Magnetic remanence relay 3 change-over contact
Maximum contact load	10 A/250 V AC-1 0,5 A/110 V DC-1 10 A/10 V DC-1 0,2 A/220 V DC-1
Recommended minimum contact load	10 mA/10 V Code 0, 9 5 mA/5 V Code 8

Contacts			
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		

Coil	
Coil resistance	see table; tolerance ± 10 %
ON pulse power	1,5 VA/W
OFF pulse power	0,5 VA/W
	1 Winding for AC, 2 Windings for DC
Pull-in ON/OFF	≤ 0,8 x U _N

Internal Diagram:



Coil table

VAC	mA ON	mA OFF	VDC	mA ON	mA OFF
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

Insulation	Volt rms, 1 min
Contact open	1000 V
Contact/contact	2,5 kV
Contact/coil	2,5 kV
Insulation resistance at 500 V	≥ 1 G.Ω
Insulation, IEC 61810-1	2,5 kV/3

Specifications

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

Standard types

VAC 50 Hz/60 Hz: 24, 48, 115, 230

VDC 12, 24, 48, 110

C4-R30/AC ... V	C4-R38/AC ... V	C4-R39/AC ... V
C4-R30/DC ... V	C4-R38/DC ... V	C4-R39/DC ... V

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

Accessories

Socket:	S4-J, S4-L, S4-P, S4-P0
Optional accessories (blanking plug):	SO-NP, SO-OP



Connection diagram

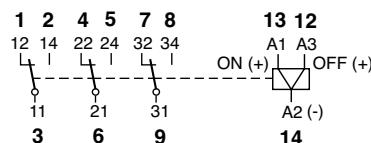


Fig. 1 AC voltage endurance

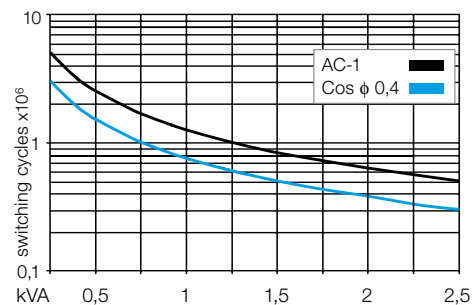
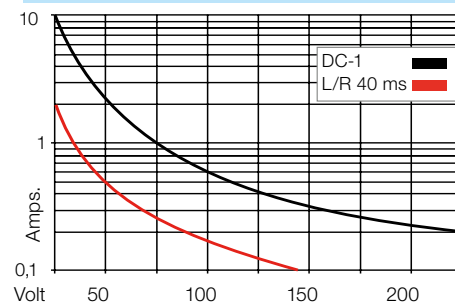
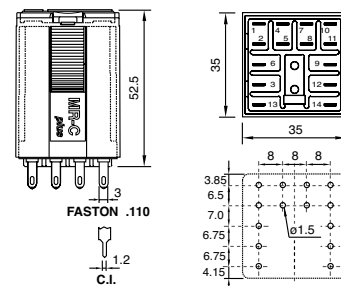


Fig. 2 DC load limit curve



Dimensions [mm]



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