

Type	C2-A2x/ ... V Standard relay, 2 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
Max. switching current	10 A		
Max. peak inrush current (20 ms.)	30 A		
Max. switching voltage	250 V		
Max. AC load (Fig 1 1)	2,5 kVA		
Max. DC load	See Fig 2		

Coils			
Coil resistance	see table; tolerance ± 10 %		
Pull-in voltage	≤ 0,8 x U _N		
Pull-in voltage	≥ 0,1 x U _N		
Nominal power	2,2 VA (AC)/1,3 W (DC)		

Table	VAC	Ω	mA	VDC	Ω	mA
	24	67	92	24	443	54
	48	296	46	48	1K8	27
	115	1K7	19	110	9K2	12
	230	7K1	9,5	220	36K1	6

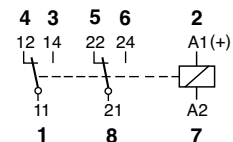
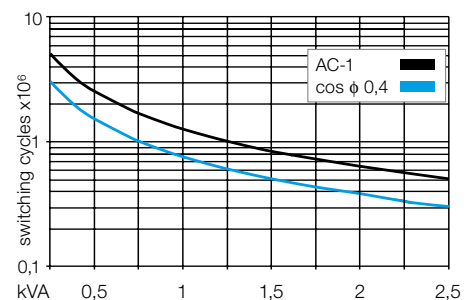
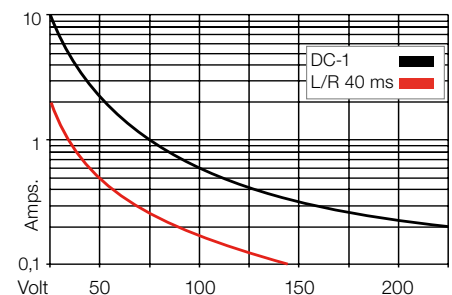
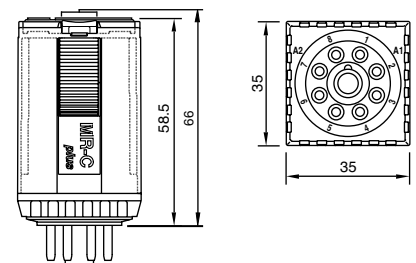
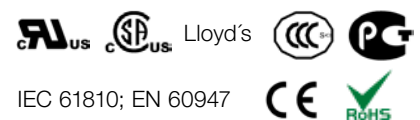
Insulation	Volt rms, 1 min
Open contact	1000 V
Between adjacent poles	2,5 kV
Between contacts and coil	2,5 kV
Insulation resistance at 500 V	≥ 1 GΩ
Insulation, IEC 61810-1	2,5 kV/3

Specifications	
Ambient temperature operation/storage	-40 (no ice)...60 °C /-40 ... 80 °C
Pick-up time + bounce time	16 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 ops. switching cycles
Operating frequency at nominal load	≤ 1200/ops/h
Protection degree	IP40
Weight	90 g

Standard types			
VAC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240)	C2-A20/AC ... V	C2-A28/AC ... V	C2-A29AC ... V
LED	C2-A20X/AC ... V	C2-A28X/AC ... V	C2-A29X/AC ... V
RC Suppressor	C2-A20R/AC ... V	C2-A28R/AC ... V	C2-A29R/AC ... V
VDC 24, 48, 110, 220	C2-A20/DC ... V	C2-A28/DC ... V	C2-A29/DC ... V
LED	C2-A20X/DC ... V	C2-A28X/DC ... V	C2-A29X/DC ... V
Free wheeling diode	C2-A20DX/DC ... V	C2-A28DX/DC ... V	C2-A29DX/DC ... V
Polarity and free wheeling diode	C2-A20FX/DC ... V	C2-A28FX/DC ... V	C2-A29FX/DC ... V
AC/DC bridge rectifier 24 V, 48 V, 60 V	C2-A20BX/UC ... V	C2-A28BX/UC ... V	C2-A29BX/UC ... V

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

Accessories	
Socket:	S2-B, S2-S, S2-L, S2-P, S2-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	C2-T2x/ ... V Standard relay for low level 2 Change-over contacts			
Maximum contact load	6 A/250 V	AC-1	6 A/30 V	DC-1
Recommended minimum contact load	5 mA/5 V	Code 1		
	1 mA/5 V	Code 2		

Contacts

Material	Standard	Code 1	AgNi + 0,2 µ Au
	Optional	Code 2	AgNi + 10 µ Au
Rated current			6 A
Switch-on current max. (20 ms)			15 A
Switching voltage max.			250 V
AC load (Fig 1)			1,2 kVA
DC load			see Fig. 2

Coil

Coil resistance	see table; tolerance ± 10 %
Pick-up voltage	≤ 0,8 × U _N
Release voltage	≥ 0,1 × U _N
Nominal power	2,2 VA (AC)/1,3 W (DC)

Coil table

VAC	Ω	mA	VDC	Ω	mA
24	67	92	24	443	54
48	296	46	48	1K8	27
115	1K7	19	110	9K2	12
230	7K1	9,5	220	36K1	6

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

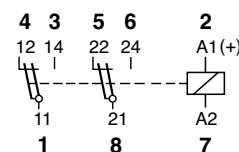
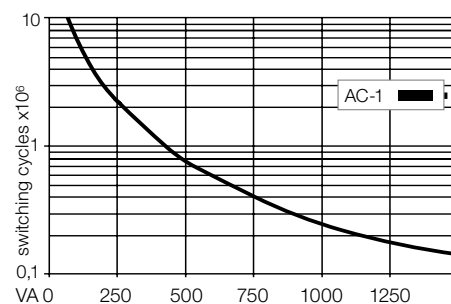
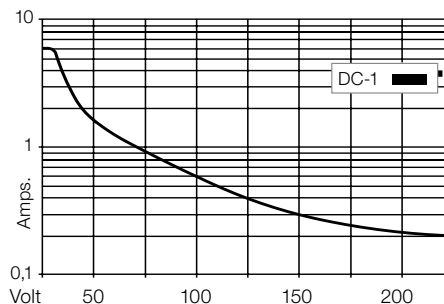
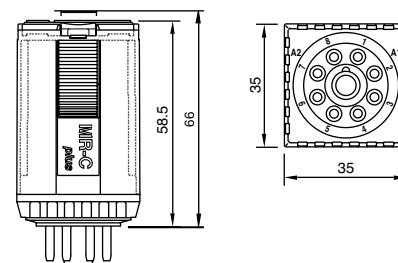
Specifications

Ambient temperature operation/storage	-40 (no ice)...60 °C / -40 ... 80 °C
Pick-up time/bounce time	16 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)****LED****RC Suppressor****VDC 24, 48, 110, 220****LED****Free wheeling diode****Polarity and free wheeling diode****AC/DC bridge rectifier 24 V, 48 V, 60 V**
C2-T21/AC ... V
C2-T21X/AC ... V
C2-T21R/AC ... V
C2-T21/DC ... V
C2-T21X/DC ... V
C2-T21DX/DC ... V
C2-T21FX/DC ... V
C2-T21BX/UC ... V
C2-T22/AC ... V
C2-T22X/AC ... V
C2-T22R/AC ... V
C2-T22/DC ... V
C2-T22X/DC ... V
C2-T22DX/DC ... V
C2-T22FX/DC ... V
C2-T22BX/UC ... V

"... Enter the voltage for full type designation

Accessories
 Socket:
 Optional accessories (blanking plug):

S2-B, S2-S, S2-L, S2-P, S2-P0
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

Type	C2-G2x/ ... V Standard relays, DC application 2 open contacts		
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Maximum contact load	10 A/250 V AC-1	1,2 A/110 V DC-1
	10 A/30 V DC-1	0,4 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)/1,6 W (DC)

Coil table

VAC	Ω	mA	VDC	Ω	mA
24	65	100	24	360	66
48	286	50	48	1K4	34
115	1K7	21	110	7K6	15
230	6K8	10	220	30K3	7,5

Insulation

	Volt rms, 1 min
Contact open	2000 V
Contact/contact	2,5 kV
Contact/coil	2,5 kV
Insulation resistance at 500 V	$\geq 1 \text{ G}\Omega$
Insulation, EN 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)****LED****RC Suppressor****VDC 24, 48, 110, 220****LED****Free wheeling diode****Polarity and free wheeling diode****AC/DC bridge rectifier 24 V, 48 V, 60 V****C2-G20/AC ... V****C2-G20X/AC ... V****C2-G20R/AC ... V****C2-G20/DC ... V****C2-G20X/DC ... V****C2-G20DX/DC ... V****C2-G20FX/DC ... V****C2-G20BX/UC ... V**

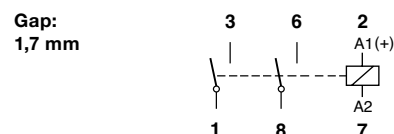
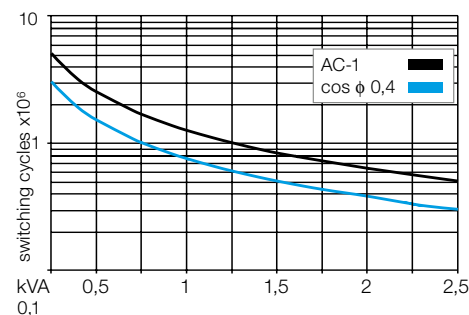
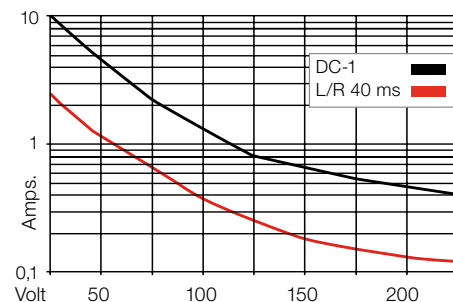
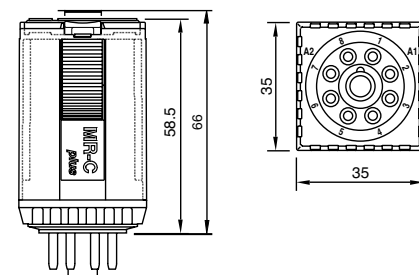
"..." Enter the voltage for full type designation

Accessories

Socket:

S2-B, S2-S, S2-L, S2-P, S2-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