

C7-A1x**1 pole | changeover contact | Faston**

Maximum contact load	16 A/250 V AC-1	0.5 A/110 V DC-1
	16 A/24 V DC-1	0.2 A/220 V DC-1
Recommended minimum contact load	10mA/10V	

Contacts

Material	Standard	Code 0	⚡ AgNi
Rated Load			16 A
Max. inrush current (20 ms)			40 A (120 A for code 5)
Switching voltage max.			250 V
AC load fig. 1			4 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	1.2 VA (AC)/1.3 W (DC)

Coil table

V AC	Ω	mA	V DC	Ω	mA
24	174	50	12	111	108
48	686	25	24	432	55
115	4K3	10.4	48	1K7	28
230	18K6	5.2	110	9K2	12

Insulation

Contact open	1000 V
Contact/coil	2.5 kV
Insulation resistance at 500 V	$\geq 1 \text{ G}\Omega$
Insulation, IEC 61810-1	2.5 kV

Specifications

Ambient temperature operation/storage	-40...60 °C / -40 ... 80 °C (no ice)
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.
AC/DC voltage endurance at rated load	$\geq 100\,000$ switching cycles
Max. switching frequency at rated load	1200/h
Weight	43 g

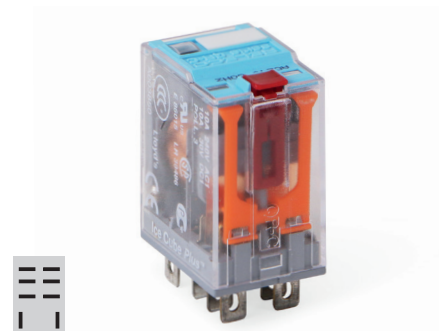
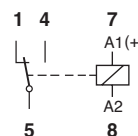
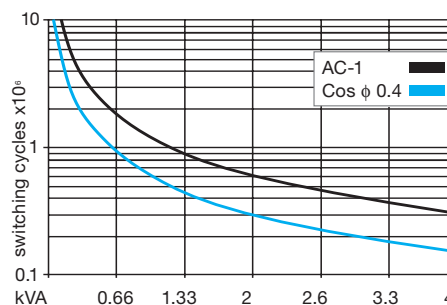
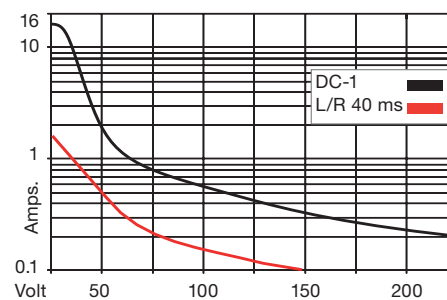
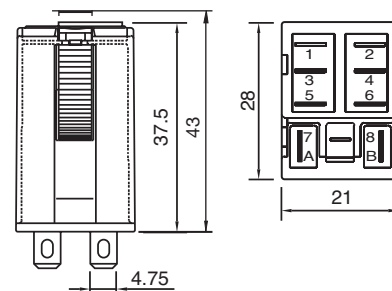
Product References**V AC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240) LED****C7-A10X/AC ... V****V DC 12, 24, 48, 110****LED****Free wheeling diode (only 24 DC)****Polarity and free wheeling diode****C7-A10X/DC ... V
C7-A10DX/DC 24 V
C7-A10FX/DC ... V**

Other voltages on request

"..." List Coil Voltage to complete Product References

Accessories

Socket	S7-C, S7-IO, S7-P
Push only	S9-OP (BAG 10 PCS)
Blanking Plug	S9-NP (BAG 10 PCS)

**Connection diagram****fig. 1 AC voltage endurance****fig. 2 DC load limit curve****Dimensions (mm)****Technical approvals, conformities**

IEC/EN 61810; IEC/EN 60947

1.3 Industrial Relays - pluggable

C7-A2x

2 pole | changeover contact | Faston

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		
	5 mA/5 V	Code 8		

Contacts

Material	Standard	Code 0	AgNi
	Optional	Code 8	AgNi + 5 µ Au
Rated Load			10 A
Max. inrush current (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 × U _N
Release voltage	≥ 0.1 × U _N
Nominal power	1.2 VA (AC)/1 W (DC)

Coil table

V AC	Ω	mA	V DC	Ω	mA
24	174	50	12	148	85
48	686	25	24	594	43
115	4K3	10.4	48	2K3	21
230	18K6	5.2	110	11K4	10

Insulation

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

Specifications

Ambient temperature operation/storage	-40...60 °C / -40 ... 80 °C (no ice)
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	≥ 100 000 switching cycles
Max. switching frequency at rated load	1200/h
Weight	43 g

Product References

V AC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240)

LED

C7-A20X/AC ... V

C7-A28X/AC ... V

V DC 12, 24, 48, 110

LED

C7-A20X/DC ... V

C7-A28X/DC ... V

Free wheeling diode (only 24 DC)

C7-A20DX/DC 24 V

C7-A28DX/DC 24 V

Polarity and free wheeling diode

C7-A20FX/DC ... V

C7-A28FX/DC ... V

AC/DC bridge rectifier 24 V, 48 V, 60 V

C7-A20BX/UC ... V

C7-A28BX/UC ... V

Other voltages on request

"..." List Coil Voltage to complete Product References

Accessories

Socket	S7-C, S7-IO, S7-P,
Push only	S9-OP (BAG 10 PCS)
Blanking Plug	S9-NP (BAG 10 PCS)



Connection diagram

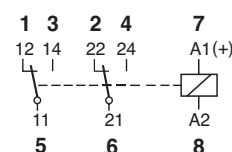


fig. 1 AC voltage endurance

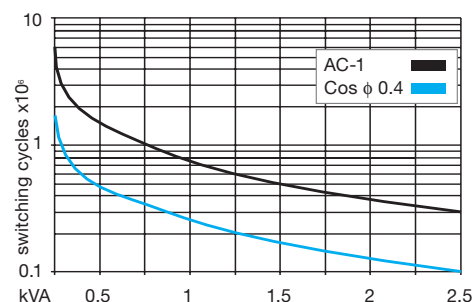
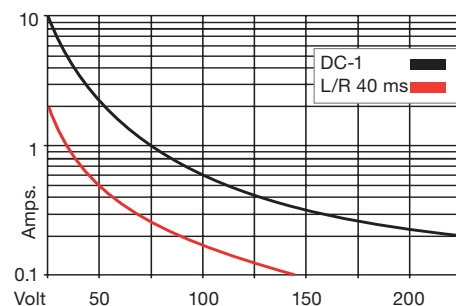
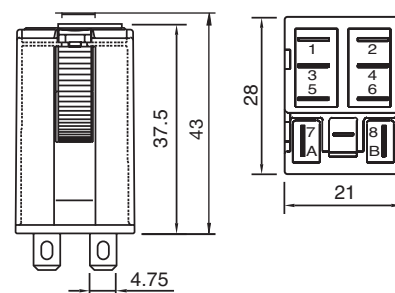


fig. 2 DC load limit curve



Dimensions (mm)



Technical approvals, conformities



IEC/EN 61810; IEC/EN 60947