Long life series

C21 with single contacts

8 pin plug-in relay, 2-pole, according to IEC 67-I-5a

Type	**C21/...V**
	Long Life Relay
	2 change over contacts
	Types with LED status indicator
	Types with free wheeling diode
	Manual actuator and mech. status indicator
Maximum contact load	**10 A / 250 V AC-1, 4 A / 440 V AC-1**
	10 A / 30 V DC-1
Recommended minimum contact load	**50 mA / 10 V**

Contacts

Type	single contact micro disconnection
Material	AgCuNi
Rated operational current	10 A
Max. inrush current (20 ms)	40 A
Rated/Max. switching voltage AC-1	250 V / 440 V
Max. AC load	2500 VA AC-1
Max. DC load 30 V / 230 V DC-1 (Fig. 2)	300 W / 90 W

Coils (Values are valid at 20 °C)

Pick-up voltage	≤ 0.8 x V_N
Release voltage AC / DC	> 0.15 x V_N / > 0.05 x V_N
Nominal power AC / DC	2.5 VA / 1.2 W

Coil Table

V_N AC	Ω	mA	V_N DC	Ω	mA
24	52	104	**12**	115	104
48	240	55	**24**	480	50
115	1350	23	**48**	1850	26
230	5600	11.5	**110**	9000	12
			220	29000	7.6

Types with LED indicator take additional 5 … 10 mA @ < 80 V

Insulation

Test voltage open contact	1.5 kVrms, 1 minute
Test voltage between adjacent poles	1.5 kVrms, 1 minute
Test voltage between contacts and coil	2 kVrms, 1 minute

General Specifications

Ambient temperature operation, storage	-40 … +70 °C
Pickup time AC / DC	3 … 10 ms / ≤ 12 ms
Release time AC / DC	2 … 15 ms / ≤ 3.5 ms
Bounce time NO contact AC / DC	3 … 6 ms / approx. 3.5 ms
Mechanical life	≥ 10^8 operations
Operating frequency at nominal load	≤ 360 operations / h
Ingress Protection degree	IP 40
Weight	80 g

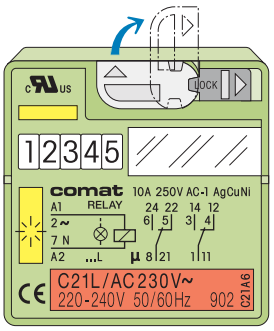
Standard types

AC 50 Hz / 60 Hz: 24, 48, 115, 230	**C21/AC...V**
LED	**C21L/AC...V**
DC: 12, 24, 48, 110, 220	**C21/DC...V**
Free wheeling diode	**C21D/DC...V**
LED + Free wheeling diode	**C21DL/DC...V**

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

Accessories

Socket:	**EC-8, S2-B, S2-S, S2-L, S2-P, S2-PO**



Connection diagram

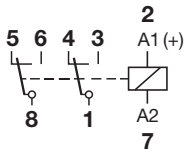


Fig.1 AC voltage endurance

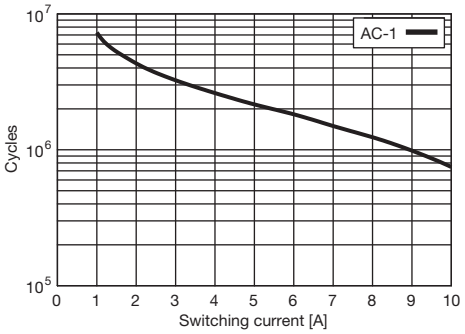
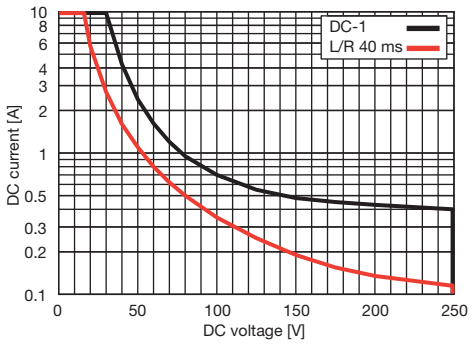
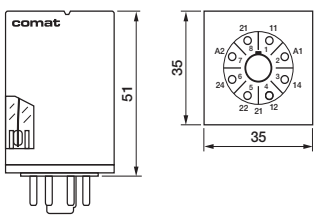


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities

This issue replaces all previous issues. Availability, errors and specifications subject to change without notice.