

## C21 with single contacts

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

<b>Type</b>	<b>C21/...V</b> Long Life Relay 2 change over contacts Types with LED status indicator Types with free wheeling diode Manual actuator and mech. status indicator
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<b>Maximum contact load</b>	<b>10 A / 250 V AC-1, 4 A / 440 V AC-1</b> <b>10 A / 30 V DC-1</b>
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<b>Recommended minimum contact load</b>	<b>50 mA / 10 V</b>
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<b>Contacts</b>	single contact micro disconnection
Type	AgCuNi
Material	10 A
Rated operational current	40 A
Max. inrush current (20 ms)	250 V / 440 V
Rated/Max. switching voltage AC-1	2500 VA AC-1
Max. AC load	300 W / 90 W
Max. DC load 30 V / 230 V DC-1 (Fig. 2)	

<b>Coils</b> (Values are valid at 20 °C)	
Pick-up voltage	$\leq 0.8 \times V_N$
Release voltage AC / DC	$> 0.15 \times V_N / > 0.05 \times V_N$
Nominal power AC / DC	2.5 VA / 1.2 W

**Coil Table**

$V_N$ AC	$\Omega$	mA	$V_N$ DC	$\Omega$	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

<b>Insulation</b>	
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

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

**Standard types**

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

LED

DC: 12, 24, 48, 110, 220

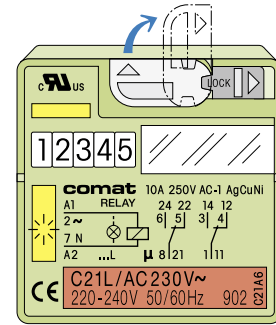
Free wheeling diode

LED + Free wheeling diode

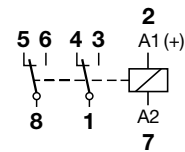
<b>C21/AC...V</b>
<b>C21L/AC...V</b>
<b>C21/DC...V</b>
<b>C21D/DC...V</b>
<b>C21DL/DC...V</b>

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

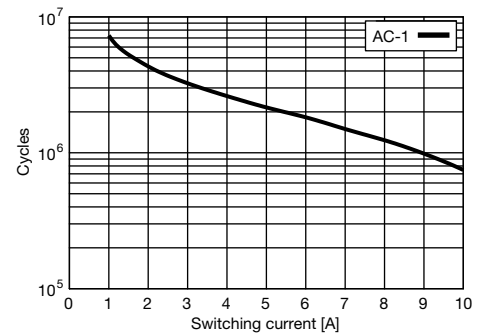
<b>Accessories</b>	
Socket:	<b>EC-8, S2-B, S2-S, S2-L, S2-P, S2-PO</b>



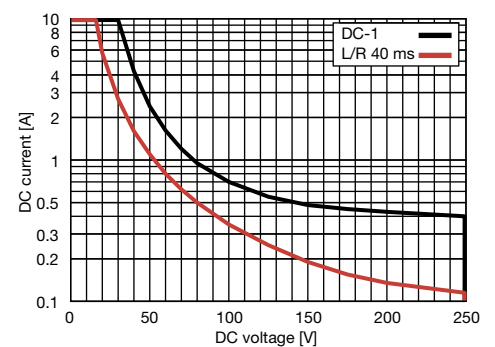
**Connection diagram**



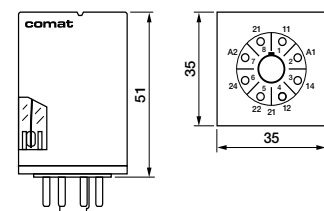
**Fig.1 AC voltage endurance**



**Fig. 2 DC load limit curve**



**Dimensions [mm]**



**Technical approvals, conformities**

