

Type **C18-B15PTL/...V**
Standard relay, 1 change-over contact

Maximum contact load **16 A/250V AC-1**

16 A/30V DC-1

Recommended minimum contact load **1 mA/1V AC/DC**

Contacts

Material AgSnO₂
 Rated current 16 A
 Switching voltage max. 250 V
 Switch-on current max. (500 ms) 25 A
 Bounce time 2 ms

Coil

Coil resistance see table; tolerance $\pm 10\%$
 Pick-up voltage 75 % of U_N (DC) / 80 % of U_N (AC)
 Release voltage $\leq 0,1 U_N$ (DC) / $\leq 0,3 U_N$ (AC)
 Nominal power 1 VA (AC) / 0.53 W (DC) @ 23 °C

Coil Data (DC voltage)

Coil Voltage Code	Nominal Voltage (VDC)	Coil Resistance (Ω) $\pm 10\%$	Must operate voltage max. (VDC)	Must release voltage min (VDC)
12	12	270	9.00	1.2
24	24	1080	18.00	2.4
36	36	1350	27.00	3.6
48	48	4340	36.00	4.8
110	110	22830	82.5	11

Coil Data (AC voltage 50/60Hz)

Coil Voltage Code	Nominal Voltage (VAC)	Coil Resistance (Ω) $\pm 10\%$	Must operate voltage max. (VAC)	Must release voltage min (VAC)	Max. allowable voltage (VAC)
24	24	253	19.2	7.2	26.4
110	110	5819	88.0	33	121
230	230	23276	184	69	253

Insulation

Insulation resistance (coil to contact) $\geq 100 M\Omega$ @ 500V DC, 50 % RH
 Dielectric strength 5 kV
 Coil to contact 5000 Vrms, 1 min
 Contact to contact 1000 Vrms, 1 min

Specifications

Ambient temperature operation/storage -55 (no ice)...70 °C / -55...70 °C
 Pick-up time 10 ms
 Release time 5 ms
 Mechanical / electrical life ops $\geq 1 \times 10^7 / 1 \times 10^5$
 Weight 17 g
 Max. switching frequency 20 Hz
 Tightness RT2
 Protection class IP40

Standard types

VAC 50 Hz/60 Hz: 24, 110 (120), 230 (240)
VDC 12, 24, 36, 48, 110

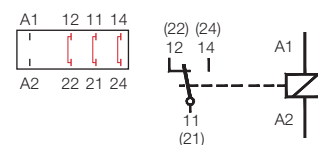
C18-B15PTL/AC...V
C18-B15PTL/DC...V

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

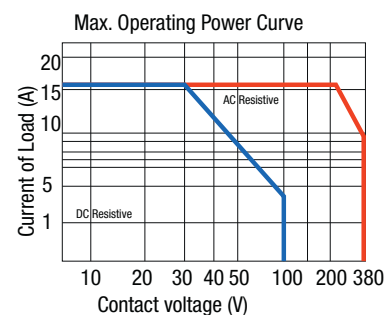
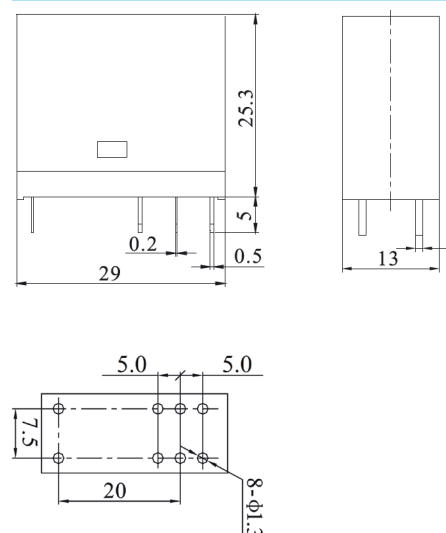
Accessories

Socket
 Retaining clip, plastic
 Label
 Modules

S16-M
CP-16
BS16-K/10
See datasheet socket S16-M

**Connection diagram**

To not destroy the relay in use over 10A, it's necessary to build bridges between contacts 22-12, 21-11 and 24-14 on the socket.

Fig. 1 Max. Operating Power Curve**Dimensions [mm]****Technical approvals, conformities**