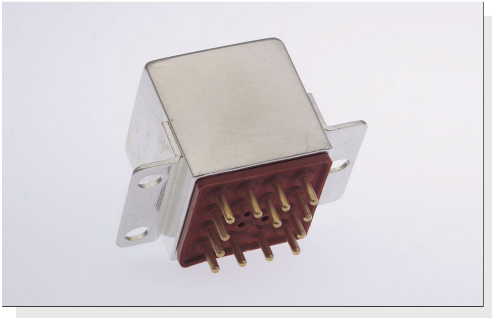


Series MC 300

**hermetically sealed relay
for severe environmental conditions**

**3 NO DB 10 Amp
1 Pdt 10 Amp
non latching relay**



General characteristics

No. of poles	3 normally open double break contacts and 1 pole double throw
Volume	16,4 cm ³ [1 in ³]
Mass	70 g [.16 lb. Max]
Reference Military Specifications	MIL-PRF-83536

Switching characteristics

Main contact	
Contact load at 28 Vdc or 115/200 Vac 400 Hz	
100 A	for 100 ms
10 A	permanent
Auxiliary contact	
Rated current at 28 Vdc	
5 A resistive	permanent
Time delay on operate	15 ms max
Time delay on release	10 ms for coil Vdc 40 ms for coil Vac
Life time	
Resistive load :	
Life at 10 A	100 000 cycles
In rush at 100 A during 100 ms then 10 A	50 000 cycles
Life at 1/4 In (2,5 A)	10 ⁶ cycles

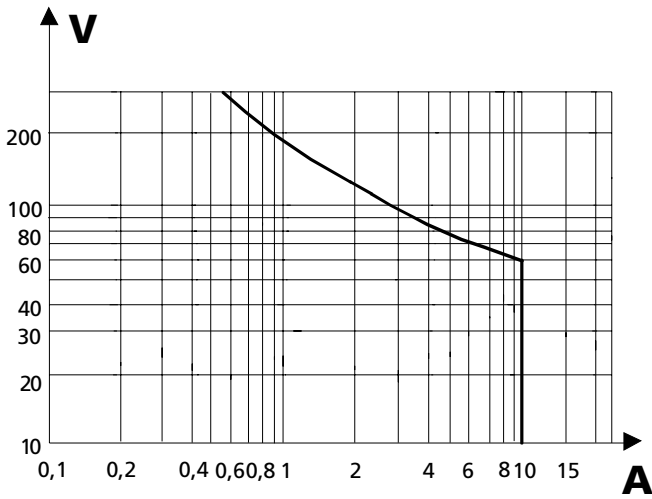


Fig. 1 Diagram

- Resistive load for voltages higher than 28 Vdc
The switching capability, for a life expectancy of 100 000 cycles, versus supply voltage is given by the Fig. 1 Diagram

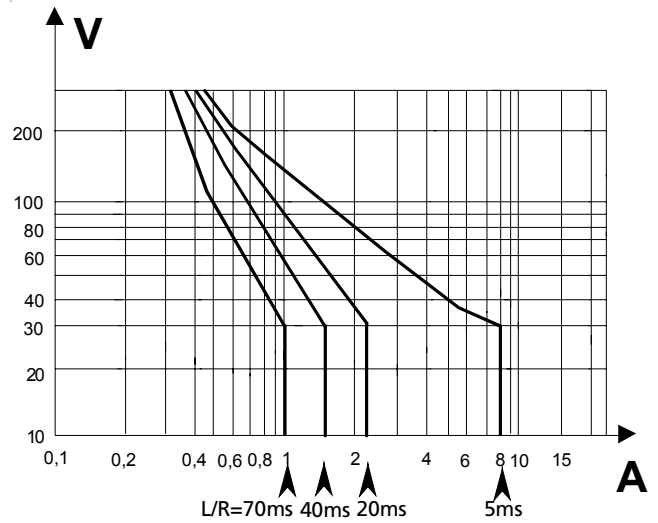


Fig. 2 Diagram

- Inductive load for voltages higher than 28 Vdc
The switching capability, for a life expectancy of 50 000 cycles, versus supply for different L / R is given by Fig. 2 Diagram

Environmental characteristics

Temperature Range	-70°C to +125°C
Vibration sinusoidal	30 g 70 to 3000 Hz
random	0,2 g ² / Hz 70 to 3000 Hz
Shock, any axis	100 g 6 ms
Seal	Hermetic (1 x 10 ⁻⁸ atm cm ³ /s)

Electrical characteristics

Contact voltage drop (@ Rated resistive load) - Initial - After guaranteed life	150 mV Max 275 mV Max
Dielectric strength @ sea level - Initial @ 60 Hz	Coil to case All other points 1 000 Vrms 1 250 Vrms
Insulation Resistance - Initial	100 Megohms min. @ 500 Vdc

Part numbering system

MC * 300 142 B ***

RELAIS TYPE

OPTIONAL

S Internal Voltage suppressor

MODEL NUMBER

IDENTIFICATION

1 Standard

COIL CODE

4 , 7 see page 4

MOUNTING STYLES

1 , 2 , see page 6

TERMINATION TYLES

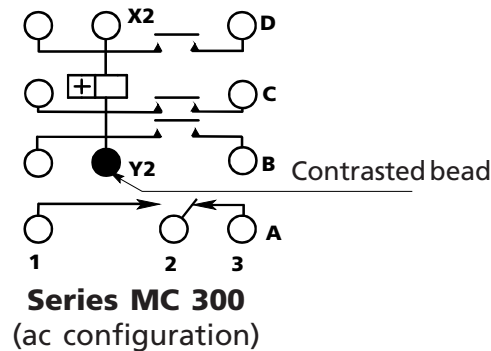
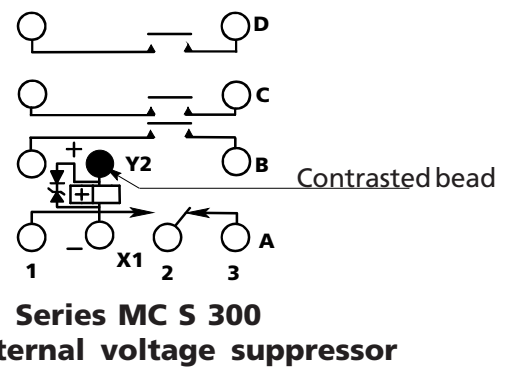
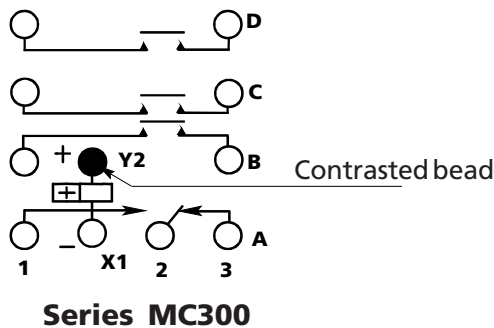
B , C , see page 5

Special instructions or specifications (on request)

Coil characteristics

COIL CODE COIL CODE	4	7
	courant continu DC	courant alternatif AC
Tension nominal <i>Nominal coil voltage</i>	28	110
Résistance bobine (ohms $\pm 10\%$ à 25° C) <i>Coil resistance (ohms $\pm 10\%$ at 25° C)</i>	210	-
Tension maxi d'enclenchement à 25° C <i>Max pick-up voltage at 25°C</i>	13	75
Tension maxi d'enclenchement à +125° C <i>Max pick-up voltage at + 125° C</i>	18	95,4
Tension de déclenchement de -70° C à +125° C <i>Drop out voltage over temperature range</i>	1,5 - 7	5 - 30

Connection diagram

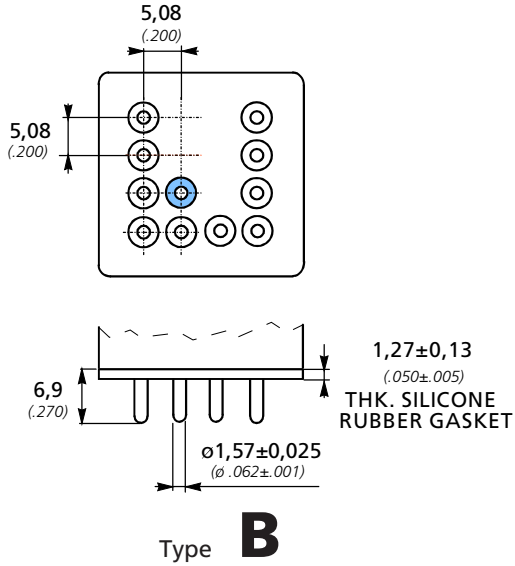


Reset coil last energized

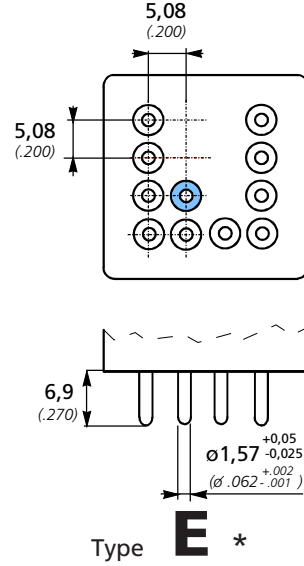
Viewed from terminals side
(unenergized coil)

Termination styles

For D C Coil

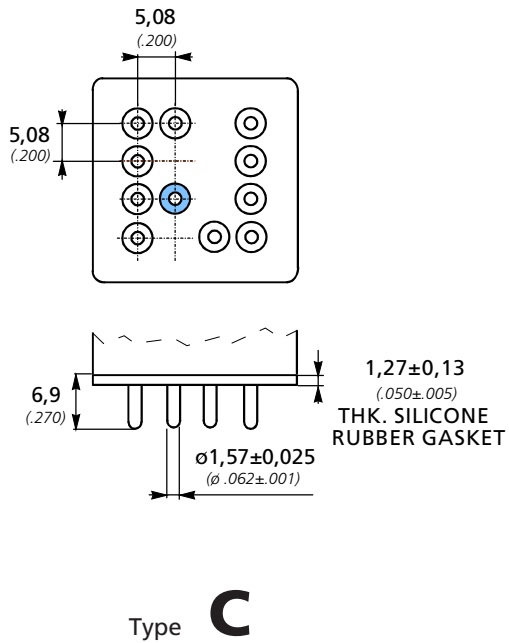


Gold plated pins for plug-in socket

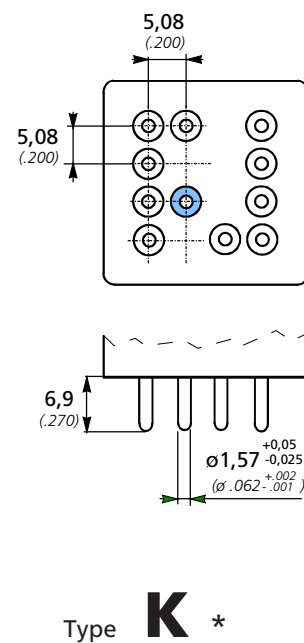


Solderable tinned pins for PCB mounting

For A C Coil



Gold plated pins for plug-in socket

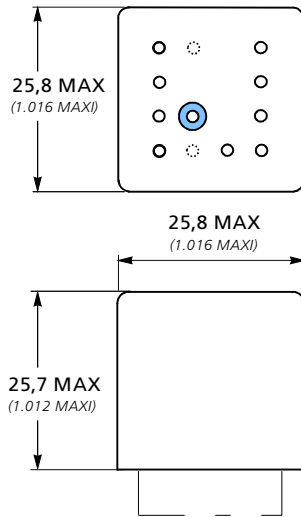


Solderable tinned pins for PCB mounting

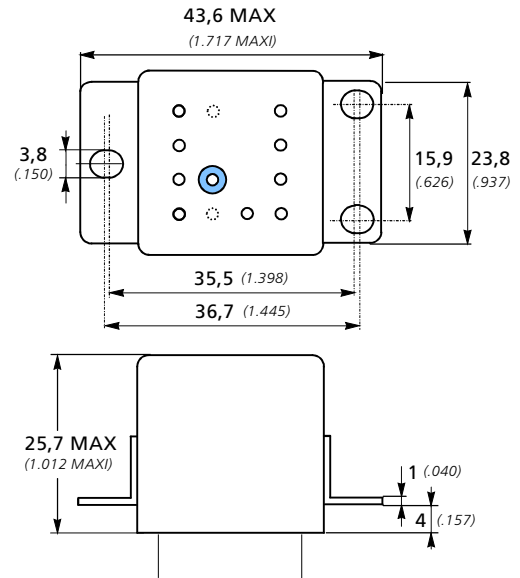
* Type E and K delivered without silicone gasket
Use mounting pad 564 2204

Mounting styles

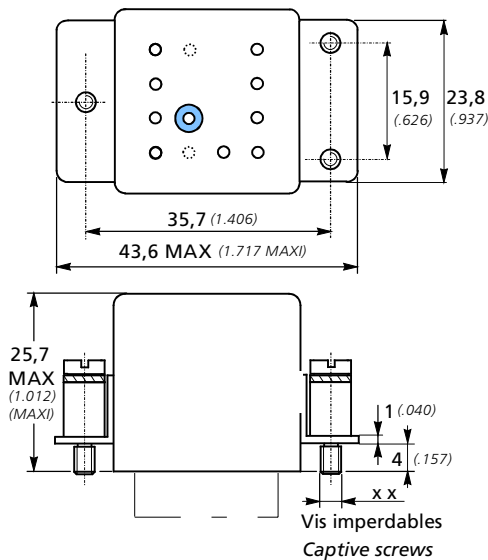
DIMENSIONS ARE IN mm (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS $\pm 0,25$ [.010]



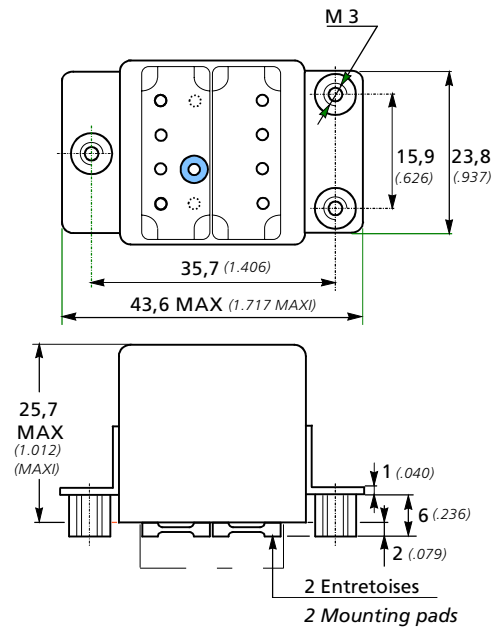
Housing **1**



Housing **2**



Housing **10** xx : screw M3
Housing **12** xx : screw 4-40-UNC 2A



Housing **19**

Coupling torque 0,45 m.N [3.9 IN-Lb]