

Actuator

51-
281.0252F

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Your product:



51-281.0252F Actuator

MOUNTING

Design:	Flush
Mounting type:	Panel mounting

OPERATING-/INDICATION PART

Lens illumination:	Illuminated
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ELECTRICAL CHARACTERISTICS

Switching voltage and switching current:	250 VAC, 5 A (ohmic) 250 VAC, 3 A (Soldering terminal) 250 VAC, 2 A (inductive, $\cos(\phi) = 0.7$) 125 VAC, 3 A (inductive, $\cos(\phi) = 0.7$) 220 VDC, 0.1 A (inductive, L:R = 30 ms) 110 VDC, 0.2 A (inductive, L:R = 30 ms) 60 VDC, 0.7 A (inductive, L:R = 30 ms) 24 VDC, 2 A (inductive, L:R = 30 ms)
Contacts:	1 NC / 1 NO
Rated Operational Voltage U_e:	250 VAC/DC according to EN IEC 60947-1
Switching rating:	250 V @ 3 A
Electrical lifetime:	50 000 cycles of operation
Electric strength:	2500 VAC, 50 Hz, 1 min. between all terminals and earth, according to IEC 61058-1, part 15
Protection class:	II
Standards:	According to EN/IEC 61058-1
Thermal current I_{th}:	The maximum current in continuous operation and at ambient temperature not exceeding the quoted maximum values. 3 A

MECHANICAL CHARACTERISTICS

Terminal:	Soldering terminal
Contact material:	Gold
Switching action:	Maintained
Switching system:	Snap-action switching element
Switching system:	Self-cleaning, double-break snap action switching system, 1 normally closed and 1 normally open contact per element.
Mechanical lifetime:	1 Mil. cycles of operation (RCC/RPB)
Operating force:	1,8 ... 6 N, depending on the number of switching elements
Operating Travel:	3 mm
Tightening torque:	Fixing nut max. 0.5 Nm
Wire cross section:	Snap-action switching element with tinned soldering terminals at the sides Max. wire diameter 2 wires à 1.2 mm Max. wire cross-section of stranded cable 1 x 1 mm ²
Weight:	0.006 kg

AMBIENT CONDITION

IP front protection:	IP65, according to DIN EN 60529
Operating temperature:	– 25 °C ... + 55 °C, mounted as a block, make sure the heat can escape freely
Storage temperature:	– 40 °C ... + 85 °C
Shock resistance:	15 g for 11 ms, as per DIN / EN 60512-4-3, DIN / EN 60068-2-27 (Single impacts, semi-sinusoidal)
Vibration resistance:	10 g at 10 Hz...1500 Hz, amplitude 0.75 mm (Sinusoidal), according to DIN EN 60512-4-4, DIN EN 60068-2-6
Climate resistance:	Standard condition, as per DIN EN 60068-2-30 Changing condition, as per DIN EN 60068-2-14

CERTIFICATE

Approbations:	CB (IEC 61058-1), CQC, CSA, DNV, EAC, ENEC (EN 61058-1), UL, VDE
Conformities:	CE, UKCA, 2011 / 65 / EC (RoHS), 2014 / 30 / EU (EMC), 2014 / 35 / EU (LVD)
REACH:	REACH compliant
RoHS:	RoHS compliant

OTHER

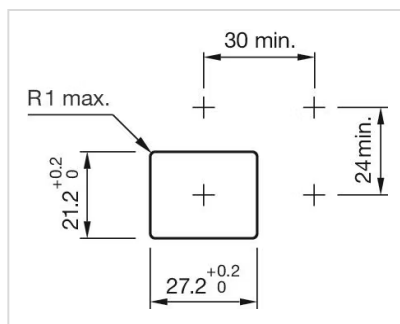
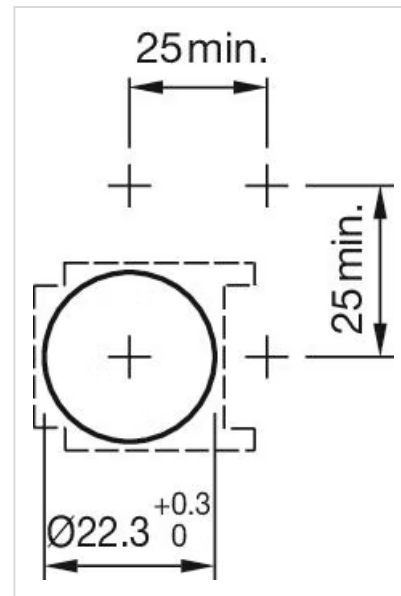
Short Description:	Actuator, Illuminated, 1 NC / 1 NO, Maintained, Soldering terminal, IP65, according to DIN EN 60529
Housing colour:	Black

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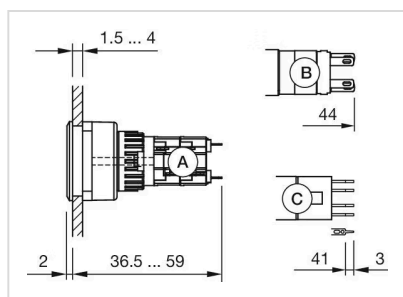
The diagram shows a 2D lattice structure. A central square is labeled with vertices 1 (top-left), 3 (top-right), 2 (bottom-left), and 4 (bottom-right). Inside this square, there are four vertical lines extending from the top and bottom edges, and two horizontal lines connecting the left and right edges. To the right of the square, there is a vertical line with a double-headed arrow pointing to it, labeled x_2+ at the top and x_1- at the bottom. To the left of the square, there is a horizontal line with a double-headed arrow pointing to it, labeled x_1+ at the top and x_2- at the bottom.

Figure 1 shows the dimensions of the test specimens. The specimens are arranged in three rows, labeled A, B, and C. Row A shows a single circular specimen with a diameter of 118 mm. Row B shows two circular specimens, one with a diameter of 118 mm and one with a diameter of 100 mm. Row C shows two square specimens, one with a side length of 118 mm and one with a side length of 100 mm. The specimens are arranged in a grid. The dimensions are given in millimeters (mm).

A = Universal terminal (rear side)
B = Plug-in terminal (rear side)
C = Anti twist device
D = Drilling plan



Dimension drawings:



A = Solder terminal

B = Plug-in terminal 2.8 mm x 0.5 mm

C = Universal terminal 2.0 mm x 0.5 mm