

Actuator

51-

138.025D2F

Distribution by DigiKey









51-138.025D2F Actuator

/IN

Front dimension: Ø 25 mm

Front form: Round

MOUNTING

Design: Flush

Mounting type: Panel mounting

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: 4 NC / 4 NO

Rated Operational Voltage Ue: 250 VAC/DC according to EN IEC 60947-1

Switching rating: $250 \lor @ 5 A$

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:

Standards: According to EN/IEC 61058-1

Thermal current Ith: 5 A, according to EN / IEC 60947-5-1

The maximum current in continuous operation and at ambient temperature not

exceeding the quoted maximum values.

MECHANICAL CHARACTERISTICS

Terminal: Soldering terminal

Contact material: Gold

Switching action: Rest (a) - Maintained (a)

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.

Switching positions: 2 positions

Switching angle: 90° right

Mechanical lifetime: 50 000 cycles of operation

Operating force: 1,8 ... 6 N, depending on the number of switching elements

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 mm²

Weight: 0.02 kg

AMBIENT CONDITION

IP front protection: IP65, according to DIN EN 60529

Operating temperature: $-25 \, ^{\circ}\text{C} \, ... \, + 55 \, ^{\circ}\text{C}$

Storage temperature: $-40 \, ^{\circ}\text{C} \dots + 85 \, ^{\circ}\text{C}$

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, ENEC (EN 61058-1), UL

Ce, UKCA, 2011 / 65 / EC (RoHS), 2014 / 30 / EU (EMC), 2014 / 35 / EU (LVD)

REACH: REACH compliant

RoHS: RoHS compliant

Short Description:

Actuator, Ø 25 mm, Round, 4 NC / 4 NO, Rest (a) - Maintained (a), Soldering terminal, IP65, according to DIN EN 60529

Hints:

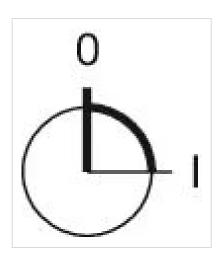
Standard lock: DOM 311

max. number of switching

elements:

4

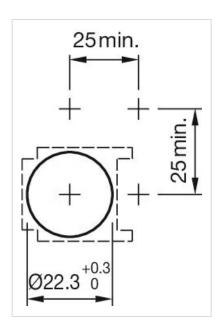
Switching positions:



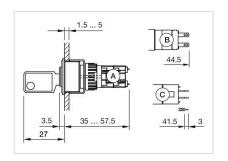
Wiring diagrams:



Mounting cut-outs:



Dimension drawings:



A = Solder terminal

B = Solder terminal 2.8 mm x 0.5 mm C = Universal terminal 2.0 mm x 0.5 mm