

Actuator

51-

146.025D2F









51-146.025D2F Actuator

FRONT

Front dimension: 18 mm x 18 mm

Front form: Square

MOUNTING

Design: Flush

Mounting cut-out: 21 mm x 21 mm

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: 2 NC / 2 NO

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

Switching rating: 250 V @ 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 CHARATERISTIC

Terminal: Soldering terminal

Contact material: Gold

Switching action: Rest (a) - Momentary

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: 42° 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: 0.026 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

Central 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, 21 mm, 21 mm, 18 mm, 18 mm, Square, 2 NC / 2 NO, Rest (a) -

Momentary, Soldering terminal, IP65, according to DIN EN 60529

Housing colour: Black

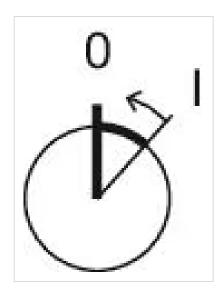
Hints: Standard lock: DOM 311

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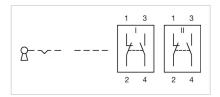
max. number of switching

elements:

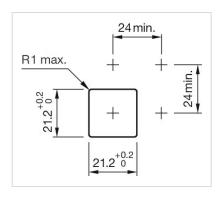
Switching positions:



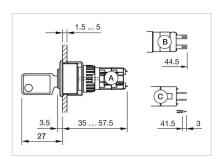
Wiring diagrams:



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