

# Actuator

51-

145.025D2F

Distribution by DigiKey









## 51-145.025D2F Actuator

Front dimension: 18 mm x 18 mm

**MOUNTING** 

Design: flush

**Mounting cut-out:** 21 mm x 21 mm

#### **ELECTRICAL CHARACTERISTICS**

Electric strength: 2500 VAC, 50 Hz, 1 min. between all terminals and earth, according to IEC 61058-

1, part 15

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

**Electrical lifetime:** 50 000 cycles of operation

Switching voltage and switching

current:

250 VAC, 5 A (ohmic)

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)

Protection class:

Contacts: 1 NC / 1 NO

**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**

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<sup>2</sup>

Switching action: Rest (a) - Momentary

Terminal: Soldering terminal

Switching angle: 42° right

**Switching positions:** 2 positions

**Switching system:** Self-cleaning, double-break snap action switching system, 1 normally closed and 1

normally open contact per element.

**Mechanical lifetime:** 50 000 cycles of operation

**Weight:** 0.026 kg

**Tightening torque:** Fixing nut max. 0.5 Nm

Contact material: Gold

Switching system: Snap-action switching element

**AMBIENT CONDITION** 

**Shock resistance:** 15 g for 11 ms, as per DIN / EN 60512-4-3, DIN / EN 60068-2-27 (Single impacts,

semi-sinusoidal)

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

**Climate resistance:** Standard condition, as per DIN EN 60068-2-30

Changing condition, as per DIN EN 60068-2-14

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

**IP front protection:** IP65, according to DIN EN 60529

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

**CERTIFICATE** 

**Conformities:** CE, UKCA, 2011 / 65 / EC (RoHS), 2014 / 30 / EU (EMC), 2014 / 35 / EU (LVD)

Approbations: CB (IEC 61058-1), CQC, CSA, DNV, ENEC (EN 61058-1), UL

**OTHER** 

Housing colour: Black

Hints: Standard lock: DOM 311

Short Description: Actuator, 21 mm x 21 mm, 18 mm x 18 mm, 1 NC / 1 NO, Rest (a) - Momentary,

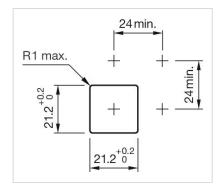
Soldering terminal, IP65, according to DIN EN 60529

max. number of switching

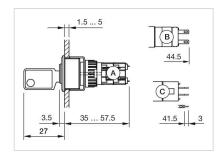
elements:

4

Mounting cut-outs:



## Dimension drawings:



## Wiring diagrams:

### Switching positions:

