Your Expert Partner for Human Machine Interfaces



Actuator

14-

143.025K2

Distribution by DigiKey









14-143.025K2 Actuator

FRONT

Front bezel material: Aluminium

Front bezel colour: Nature

ELECTRICAL CHARACTERISTICS

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.

Switching voltage and switching

current:

250 VAC, 5 A (ohmic)

250 VAC, 2 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: 3 NC / 3 NO

Electric strength: 3000 VAC, 50 Hz, 1 min. between all terminals and earth, according to EN/IEC

61058-1

Protection class:

Standards: According to EN/IEC 61058-1

Rated Operational Voltage Ue: 250 VAC/DC according to EN IEC 61058-1

Electrical lifetime: 50 000 cycles of operation

MECHANICAL CHARATERISTIC

Switching system: Snap-action switching element

Contact material: Gold

Operating force: 3 N ... 6 N, depending on the number of switching elements

Switching positions: 2 positions

Switching angle: 42° right

Mechanical lifetime: 2 Mio. cycles of operation

Weight: 0.033 kg

Tightening torque: Fixing nut max. 0.25 Nm

Operating Travel: ca. 42°

Terminal: Soldering terminal

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

normally open contact per element.

Switching action: Rest (a) - Momentary

AMBIENT CONDITION

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

Vibration resistance: Max. 100 m / s² from 10 Hz ... 500 Hz, (sinusoidal EN IEC 60068-2-6)

Shock resistance: Max. 150 m / s², pulse width 11 ms, 3-axis, (semi-sinusoidal as per EN IEC 60068-

2-27)

Operating temperature: - 25 °C, mounted as a block, make sure the heat can escape freely

Climate resistance: Standard condition, as per DIN EN 60068-2-78

Standard cyclic, as per DIN IEC 60068-2-30

IP front protection: IP65, according to DIN EN 60529

CERTIFICATE

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

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

OTHER

Housing colour: Black

Hints: Lock numbers 1001, lock type KABA

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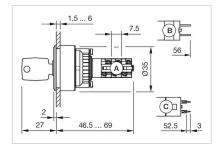
max. number of switching

elements:

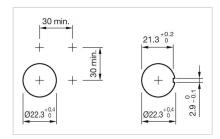
Short Description: Actuator, Nature, Aluminium, anodised, 3 NC / 3 NO, Rest (a) - Momentary,

Soldering terminal, IP65, according to DIN EN 60529

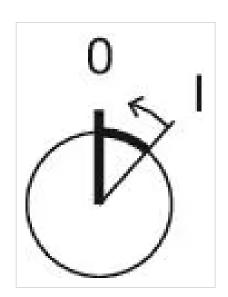
Dimension drawings:



Mounting cut-outs:



Switching positions:



Wiring diagrams:

