

# Actuator

51-  
143.025D2F

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## 51-143.025D2F Actuator

### FRONT

**Front dimension:** Ø 25 mm

### MOUNTING

**Design:** flush

### ELECTRICAL CHARACTERISTICS

**Thermal current I<sub>th</sub>:** 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.

**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

**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)

**Rated Operational Voltage U<sub>e</sub>:** 250 VAC/DC according to EN IEC 60947-1

**Protection class:** II

**Standards:** According to EN/IEC 61058-1

**Contacts:** 3 NC / 3 NO

### MECHANICAL CHARACTERISTIC

**Switching angle:** 42° right

**Switching system:** Snap-action switching element

|                             |  |
|-----------------------------|--|
| <b>Tightening torque:</b>   | Fixing nut max. 0.5 Nm   |
| <b>Wire cross section:</b>  | Snap-action switching element with tinned soldering terminals at the sides<br>Max. wire diameter 2 wires à 1.2 mm<br>Max. wire cross-section of stranded cable 1 x 1 mm <sup>2</sup> |
| <b>Contact material:</b>    | Gold   |
| <b>Switching system:</b>    | Self-cleaning, double-break snap action switching system, 1 normally closed and 1 normally open contact per element.   |
| <b>Switching positions:</b> | 2 positions  |
| <b>Mechanical lifetime:</b> | 50 000 cycles of operation   |
| <b>Weight:</b>              | 0.026 kg   |
| <b>Switching action:</b>    | Rest (a) - Momentary   |
| <b>Terminal:</b>            | Soldering terminal   |

## AMBIENT CONDITION

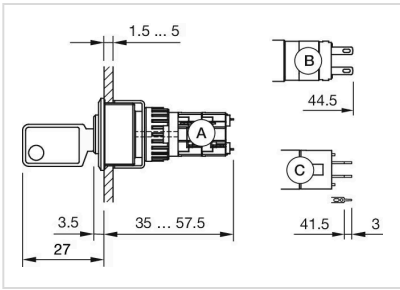
|                               |  |
|-------------------------------|--|
| <b>IP front protection:</b>   | IP65, according to DIN EN 60529  |
| <b>Operating temperature:</b> | - 25 °C ... + 55 °C  |
| <b>Storage temperature:</b>   | - 40 °C ... + 85 °C  |
| <b>Vibration resistance:</b>  | 10 g at 10 Hz...1500 Hz, amplitude 0.75 mm (Sinusoidal), according to DIN EN 60512-4-4, DIN EN 60068-2-6 |
| <b>Climate resistance:</b>    | Standard condition, as per DIN EN 60068-2-30<br>Changing condition, as per DIN EN 60068-2-14             |
| <b>Shock resistance:</b>      | 15 g for 11 ms, as per DIN / EN 60512-4-3, DIN / EN 60068-2-27 (Single impacts, semi-sinusoidal)         |

## CERTIFICATE

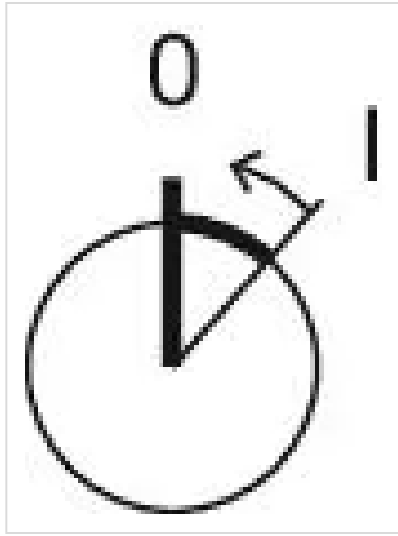
|                      |   |
|----------------------|---|
| <b>Approbations:</b> | CB (IEC 61058-1), CQC, CSA, DNV, ENEC (EN 61058-1), UL                      |
| <b>Conformities:</b> | CE, UKCA, 2011 / 65 / EC (RoHS), 2014 / 30 / EU (EMC), 2014 / 35 / EU (LVD) |

## OTHER

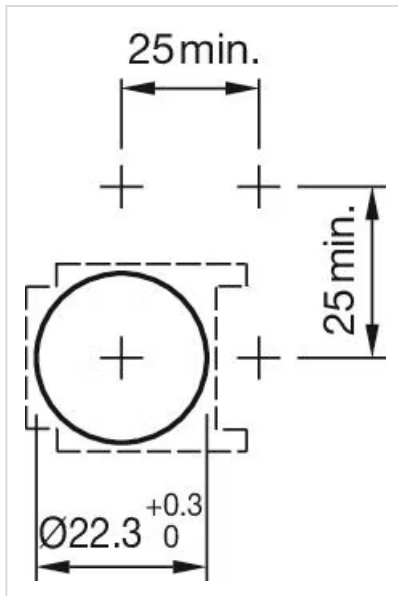
|   |   |
|---|---|
| <b>Short Description:</b>                 | Actuator, Ø 25 mm, 3 NC / 3 NO, Rest (a) - Momentary, Soldering terminal, IP65, according to DIN EN 60529 |
| <b>Hints:</b>                             | Standard lock: DOM 311  |
| <b>max. number of switching elements:</b> | 4   |
| <b>Dimension drawings:</b>                |   |



**Switching positions:**



**Mounting cut-outs:**



**Wiring diagrams:**

