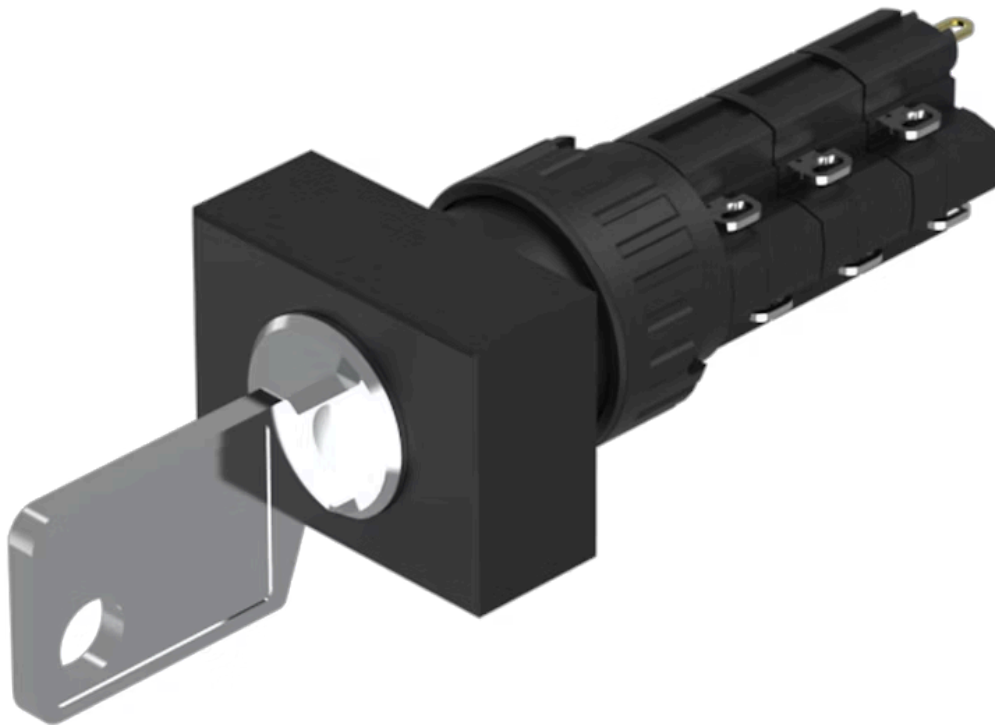


Actuator

51-
297.025D2F

Distribution by
DigiKey

DigiKey



<https://digikey.eao.com/p/51-297.025D2F>

Your product:



51-297.025D2F Actuator

FRONT

Front dimension: 24 mm x 18 mm

MOUNTING

Design: flush

Mounting cut-out: 21 mm x 27 mm

ELECTRICAL CHARACTERISTICS

Contacts: 3 NC / 3 NO

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)

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

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

Thermal current I_{th} : 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.

Protection class: II

Standards: According to EN/IEC 61058-1

MECHANICAL CHARACTERISTIC

Mechanical lifetime: 50 000 cycles of operation

Contact material:	Gold
Switching system:	Snap-action switching element
Switching angle:	90° right
Tightening torque:	Fixing nut max. 0.5 Nm
Switching system:	Self-cleaning, double-break snap action switching system, 1 normally closed and 1 normally open contact per element.
Weight:	0.026 kg
Switching action:	Rest (a) - Maintained
Switching positions:	2 positions
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 ²
Terminal:	Soldering terminal

AMBIENT CONDITION

Climate resistance:	Standard condition, as per DIN EN 60068-2-30 Changing condition, as per DIN EN 60068-2-14
Operating temperature:	- 25 °C ... + 55 °C
IP front protection:	IP65, according to DIN EN 60529
Storage temperature:	- 40 °C ... + 85 °C
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
Shock resistance:	15 g for 11 ms, as per DIN / EN 60512-4-3, DIN / EN 60068-2-27 (Single impacts, semi-sinusoidal)

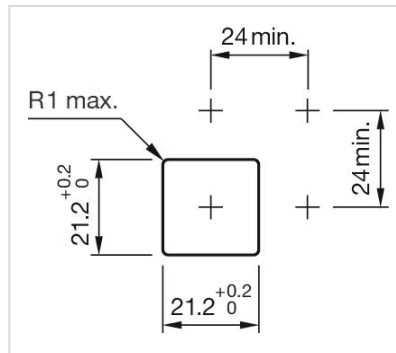
CERTIFICATE

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

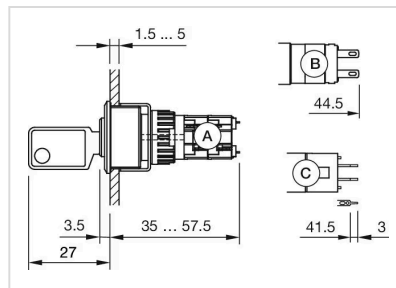
OTHER

Short Description:	Actuator, 21 mm x 27 mm, 24 mm x 18 mm, 3 NC / 3 NO, Rest (a) - Maintained, Soldering terminal, IP65, according to DIN EN 60529
max. number of switching elements:	4
Hints:	Standard lock: DOM 311
Housing colour:	Black

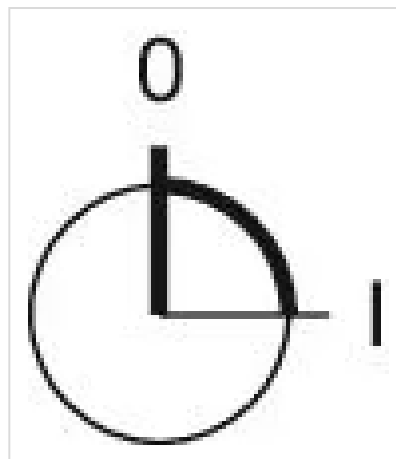
Mounting cut-outs:



Dimension drawings:



Switching positions:



Wiring diagrams:

