

Emergency stop switch

Distribution by Mouser



84-5220.0020







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FRONT

Front dimension: Ø 32 mm

Front form: Round

MOUNTING

Mounting cut-out: Ø 22.3 mm

Mounting type: Panel mounting

OPERATING-/INDICATION PART

Lens colour: Red-white

Lens material: Plastic, according to UL 94 V0

Lens illumination: Non illuminated

Lens shape: Mushroom-head

Lens optics: opaque

Lens: round

Switching position ring: Black

ELECTRICAL CHARACTERISTICS

Switching voltage and switching current:

Switch rating AC with silver contact (gold plated) Service category AC-15 as per EN IEC 60947-5-1

120 VAC 240 VAC Voltage 1,5 A Current 3 A

Switch rating AC with silver contact (gold plated) Service category DC-13 as per EN IEC 60947-5-1

NO/NC contacts NO contacts NC contacts (48 VA) (60 VA)

12 VDC/2.0 A 12 VDC/2.5 A 125 VDC/0.22 A 24 VDC/2.0 A 24 VDC/2.5 A 250 VDC/0.11 A

48 VDC/1.0 A 48 VDC/1.25 A 60 VDC/0.8 A 60 VDC/1.0 A

Contacts: 1 NC

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

Rated impulse withstand voltage

Uimp:

4 kV, according to EN IEC 60947-1

Rated insulation voltage Ui: 250 V according to EN / IEC 60947-1

Rated short-circuit current

caused:

1 000 A, type of short-circuit device 6 A gG (EN 60947-5-1)

Recommended minimum Silver contacts (gold plated)

operational data: Voltage 1 VAC/DC

Current 1 mA

250 V AC @ 1,5 A Switching rating:

Electrical lifetime: 50 000 cycles of operation

Electric strength: 500 VAC, 50 Hz, 1 minute according to DIN IEC 60512-2

Overvoltage category: III, according to EN / IEC 61058-1

Pollution degree: 3, according to EN IEC 60947-1

Protection class: II, according to EN / IEC 60947-5

Standards: According to EN 60947-5-1, EN 60947-5-5, DIN EN ISO 13850, EN IEC 60204

Thermal current Ith: 5 A

MECHANICAL CHARATERISTIC

Terminal: Plug-in terminal, 2.8 x 0.5 mm

Contact material: Gold

Switching action: Maintained

Switching system: Slow-make switching element

Twist to unlock Release type:

Mechanical lifetime: 250 000 cycles of operation

Operating force: 20 N ±4 N

Operating Travel: ca. 4 mm **Tightening torque:** Fixing nut 0.8 Nm

Weight: 0.028 kg

AMBIENT CONDITION

IP front protection: IP65, IP66, IP67, according to DIN EN 60529

IK Protection: IK07 as per IEC 62262

Operating temperature: $-25 \, ^{\circ}\text{C} \dots + 70 \, ^{\circ}\text{C}$

Storage temperature: $-25 \,^{\circ}\text{C} \dots + 85 \,^{\circ}\text{C}$

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

2-27

Vibration resistance: Max. 50 m / s² from 10 Hz ... 500 Hz, 10 cycles, 3-axis (sinusoidal EN IEC 60068-

2-6)

Climate resistance: Damp heat, cyclic: 96 hours, + 25 °C/97 %, + 55 °C/93 % relative humidity, as per

EN IEC 60068-2-30

Damp heat, steady: 56 days, + 40 °C/93 % relative humidity, according to EN IEC

60068-2-78

Saline mist: 96 hours, + 35 °C in chemical solution NaCl, as per EN IEC 60068-2-

11

Dry heat: 96 hours, + 70 °C, as per EN IEC 60068-2-2

Low temperature: 96 hours, - 40 °C (as per EN IEC 60068-2-1)

CERTIFICATE

Approbations: CB (IEC 60947-5-1. IEC60947-5-5), CCC, UL

Conformities: CE, UKCA, 2006 / 42 / EC (MD), 2011 / 65 / EC (RoHS)

REACH: REACH compliant

RoHS: RoHS compliant

OTHER

Short Description: Emergency stop switch, Ø 22.3 mm, Ø 32 mm, Mushroom-head, Non illuminated,

Red-white, Plastic, according to UL 94 V0, opaque, Round, 1 NC, Maintained, Plug-in terminal, 2.8 x 0.5 mm, IP65, IP66, IP67, according to DIN EN 60529,

Twist to unlock

Material: Plastic, according to UL 94 V0

Housing colour: Yellow

Housing material: Plastic, according to UL 94 V0

Hints: Twist to unlock clockwise, Foolproof according to EN IEC 60947-5-5, Lens colour

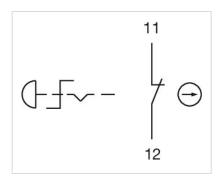
Red

Description component: The double-break switching system can be supplied for the following switching

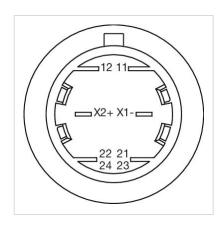
functions: 1 Normally closed, 2 Normally closed, 1 Normally closed + 1 Normally

open. The Normally closed contacts have forced opening according to EN 60947-5-5

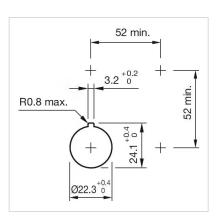
Wiring diagrams:



Component layouts:



Mounting cut-outs:



Dimension drawings:

