## Safety switch

Series Safety Hinge Switch SHS


| Electrical Data |  |  |
| :--- | :--- | :--- |
| Rated insulation voltage | $U_{i}$ | 250 V |
| Rated impulse withstand voltage | $\mathrm{U}_{\text {imp }}$ | $2,5 \mathrm{kV}$ |
| Conv. thermal current | $\mathrm{I}_{\text {the }}$ | 3 A |
| Rated operational voltage | $\mathrm{U}_{\mathrm{e}}$ | $230 \mathrm{~V} \mathrm{AC} / 60 \mathrm{~V} \mathrm{DC}$ |
| Utilization category |  | $\mathrm{AC}-15,230 \mathrm{~V} \mathrm{AC} / 1,5 \mathrm{~A}, \mathrm{DC}-13,60 \mathrm{~V} \mathrm{DC} \mathrm{/} \mathrm{0,5} \mathrm{~A}$ |
| Direct opening action | $\Theta$ | acc. to IEC/EN 60947-5-1, annex K |
| Short-circuit protective device |  | Fuse 4 A gG |
| Protection class | I |  |


| Mechanical data |  |
| :--- | :--- |
| Enclosure | $\mathrm{GD}-\mathrm{Zn}$ |
| Cover | $\mathrm{GD}-\mathrm{Zn}$ |
| Wing | $\mathrm{GD}-\mathrm{Zn}$ |
| Ambient air temperature | $-25^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ (with permanently installed cable) |
| Contact type | 1 Change-over |
| Mechanical life | $1 \times 10^{6}$ operating cycles |
| Switching frequency | max. 1200 switching operations / hour |
| Attachment | $4 \times \mathrm{M} 6$ screws DIN 7984 or DIN 6912 |
| Connection type | $3 \times 0,5 \mathrm{~mm} 2$ ( AWG 20 ); $1,2 \mathrm{~m}$ long; with conductor end sleeves |
|  | minimum bending radius $=25 \mathrm{~mm}$ |
| Weight | $\approx 0,4 \mathrm{~kg}+0,8 \mathrm{~kg}$ cable |
| Installation position | operator definable |
| Protection type | IP 67 in acc. with IEC/EN 60529 |
| Switching angle | $+/-3^{\circ}$ from fixing point $\left(180^{\circ}\right)$ |
| Direct opening angle | $+/-10^{\circ}$ from fixing point $\left(180^{\circ}\right)$ |
| Direct opening torque | $1,5 \mathrm{Nm}$ |
| Mechanical load | $\mathrm{F}_{\mathrm{R} 1}=$ max. 1000 N |
| (see dimensioned drawing for the | $\mathrm{F}_{\mathrm{R} 2}=$ max. 500 N |
| introduction direction of the forces) | $\mathrm{F}_{\mathrm{A}}=$ max. 750 N |


| ID for safety engineering |
| :--- |
| B10d $2 \times 10^{6}$ switching cycles |


| Standards |  |
| :--- | :--- |
| VDE 0660 T100, DIN EN 60947-1, IEC 60947-1 |  |
| VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1 |  |
| VDE 0113 T1, DIN EN 60204-1 |  |
| DIN EN ISO 13849-1 |  |

EU Conformity $\quad$ acc. to directive 2006/42/EC

## Approvals

CCC

## Notes

At least two SHS hinge switches are required per protective installation! Confer max. load/stress.
The use and operation of SHS safety hinges at $70^{\circ} \mathrm{C}$ ambient temperature can accelerate supply cable aging!
Protect the supply cable against mechanical influences and damage. We recommend installing cables in cable conduits or ducts.
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The manufacturer/supply of the machines/plants is obliged to duly observe the effective standards for determining the required safety margins between separative safety devices and points of risk or danger.
These standards include, but are not limited to: EN 294, EN 349, EN 953, EN 1088.

