Cam switches, for building-in, SK100 D


## Ordering code

$$
\text { SK } 100-\square \text { ID } \begin{array}{|l|l|}
\hline & \\
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\end{array}
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For special customer request it is possible to produce switches with different switching programs and without mechanical interlock.
It is recommended that TS35 rail, on which the switch will be mounted, is installed on supports (not directly on the base).

## Components

Fronts of cam switches
Front I SK100-1408 for assemblies D... (mounted directly on the door with a mechanical lock)
Front III SK100-1410 for assemblies D... (padlockable, mounted directly on the door
with a mechanical lock)

## Shafts

Shaft with a lock SK100-1901
Axle coupling, complete SK100-1900\R01

## Dimensions



$L_{0}$ [mm]
100
150
200
300

Technical data

| Rated insulation voltage $U_{e}$ | 690 V |
| :---: | :---: |
| Rated withstand impulse voltage $\mathrm{U}_{\text {imp }}$ | 6 kV |
| Rated continuous current $I_{u}$ | 100 A |
| Rated operational current $I_{c}$ | 100 A |
| Conventional rated thermal current in the air $\mathrm{I}_{\text {th }}$ | 100 A |
| Conventional rated thermal current in the enclosure $\mathrm{I}_{\text {the }}$ | 100 A |
| Frequency | $50 / 60 \mathrm{~Hz}$ |
| Rated operational current $\mathrm{l}_{\mathrm{e}}$ for $\mathrm{AC}-21 \mathrm{~A}, ~ A C-22 A$ | $100 \mathrm{~A}(230 / 400 / 500 / 690 \mathrm{~V})$ |
| Rated operational power $\mathrm{P}_{\mathrm{e}}$ for AC-23A | $\begin{aligned} & 18 \mathrm{~kW}(230 \mathrm{~V}) \\ & 31 \mathrm{~kW}(400 \mathrm{~V}) \\ & 38 \mathrm{~kW}(500 \mathrm{~V}) \\ & 50 \mathrm{~kW}(690 \mathrm{~V}) \end{aligned}$ |
| Rated operational power $\mathrm{P}_{\mathrm{e}}$ for AC-3 | $\begin{aligned} & 18 \mathrm{~kW}(230 \mathrm{~V}) \\ & 25 \mathrm{~kW}(400 \mathrm{~V}) \\ & 30 \mathrm{~kW}(500 \mathrm{~V}) \\ & 38 \mathrm{~kW}(690 \mathrm{~V}) \end{aligned}$ |
| Switching angle | $45^{\circ}-90^{\circ}$ |
| Short-time short-circuit withstand current $\mathrm{I}_{\text {cw }}$ (1s) | 1.7 kA |
| Rated short-circuit making current $\mathrm{I}_{\mathrm{cm}}$ | 2.5 kA |
| Wire gauge | $16 . .35 \mathrm{~mm}^{2}$ (solid) <br> $16 . .25 \mathrm{~mm}^{2}$ (stranded) |
| Panel mounting | $\square 68$ |
| Screws in the terminals | M6 |
| Tightening torque, wires (hold down) | 4.4 Nm |
| Mechanical endurance | 3.0 mln (transposition cycles) |
| Ambient temperature | $\begin{aligned} & -40 \ldots+70^{\circ} \mathrm{C} \text { (work) } \\ & -40 \ldots+70^{\circ} \mathrm{C} \text { (storage) } \\ & \hline \end{aligned}$ |
| Protection level: PN-EN 60529 to the panel | IP65 |
| Protection level of OB enclosure | IP65 |
| Protection level of the terminals | IP20 |
| Pollution degree EN 60947-1 | 3 |
| Protection class in OB housing | \\| |
| Vibration test (acc. to IEC 60068-2-6) | ```2...100 Hz (frequency) 13.2 Hz (frequency) \pm mm (acceleration amplitude) \pm0.7 g (acceleration amplitude)``` |
| Shock test (acc. to IEC 60068-2-27) | 15 g (peak acceleration) <br> 11 ms (impulse duration) |
| Damp heat cyclic test (acc. to IEC 60068-2-30) | $55^{\circ} \mathrm{C}$ (ambient temperature) 95\% (relative humidity) |
| Salt mist cyclic test (acc. to IEC 60068-2-52) | severity 1 |

