



## Main

|                                                          |                                                                       |
|----------------------------------------------------------|-----------------------------------------------------------------------|
| Range of product                                         | Harmony K                                                             |
| Product or component type                                | Complete cam switch                                                   |
| Component name                                           | K10                                                                   |
| [I <sub>th</sub> ] conventional free air thermal current | 10 A                                                                  |
| Product mounting                                         | Front mounting                                                        |
| Fixing mode                                              | Ø 16 or 22 mm hole                                                    |
| Cam switch head type                                     | With front plate 30 x 30 mm                                           |
| Type of operator                                         | Black handle                                                          |
| Rotary handle padlocking                                 | Without                                                               |
| Presentation of legend                                   | With metallic legend, 1 - 0 - 2 black marking                         |
| Cam switch function                                      | Changeover switch                                                     |
| Return                                                   | Without                                                               |
| Off position                                             | With Off position                                                     |
| Poles description                                        | 2P                                                                    |
| Switching positions                                      | Left: 0° - 300°<br>Right: 0° - 60°                                    |
| IP degree of protection                                  | IP20 (contact block)<br>IP65 (operating head) conforming to IEC 60529 |

## Complementary

|                                                     |                                                                                                                                             |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Switching angle                                     | 60 °                                                                                                                                        |
| [U <sub>i</sub> ] rated insulation voltage          | 440 V, degree of pollution: 3 conforming to IEC 60947-1                                                                                     |
| Rated operational power in W                        | 1800 W AC-23A, 220/240 V 3 phases<br>370 W AC-23A, 110/120 V 1 phase<br>750 W AC-23A, 220/240 V 1 phase                                     |
| Rated power in hp                                   | 1 hp at 220/240 V AC, 3 phases<br>0.33 hp at 110/120 V AC, 1 phase<br>0.75 hp at 110/120 V AC, 3 phases<br>0.75 hp at 220/240 V AC, 1 phase |
| [I <sub>e</sub> ] rated operational current AC      | 10 A at 400 V AC-1<br>10 A at 400 V AC-21A<br>3 A at 240 V AC-15<br>6 A at 120 V AC-15                                                      |
| [I <sub>e</sub> ] rated operational current DC      | 10 A at 24 V resistive load<br>0.3 A at 220 V resistive load<br>0.7 A at 110 V resistive load                                               |
| Electrical durability                               | 100000000 cycles                                                                                                                            |
| Short circuit protection                            | 10 A by cartridge fuse, type gG                                                                                                             |
| [U <sub>imp</sub> ] rated impulse withstand voltage | 4 kV conforming to IEC 60947-1                                                                                                              |
| Contacts operation                                  | Slow-break                                                                                                                                  |
| Electrical connection                               | Captive screw clamp terminals, clamping capacity: 2 x 1.5 mm²                                                                               |
| Mechanical durability                               | 1000000 cycles                                                                                                                              |
| CAD overall width                                   | 30 mm                                                                                                                                       |
| CAD overall height                                  | 30 mm                                                                                                                                       |
| CAD overall depth                                   | 88 mm                                                                                                                                       |
| Product weight                                      | 0.045 kg                                                                                                                                    |

## Environment

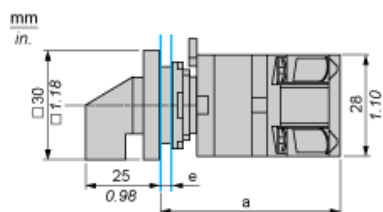
|                                            |                                                        |
|--------------------------------------------|--------------------------------------------------------|
| Standards                                  | CENELEC EN 50013<br>EN/IEC 60947-3<br>EN/IEC 60947-5-1 |
| Product certifications                     | CULus                                                  |
| Protective treatment                       | TC                                                     |
| Ambient air temperature for operation      | -20...55 °C                                            |
| Ambient air temperature for storage        | -40...70 °C                                            |
| Class of protection against electric shock | Class II conforming to IEC 60536                       |
| RoHS EUR status                            | Compliant                                              |
| RoHS EUR conformity date                   | 0627                                                   |

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Cam Switch

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Front Mounting by Ø16 mm/0.63 in. or Ø 22 mm/0.87 in. hole



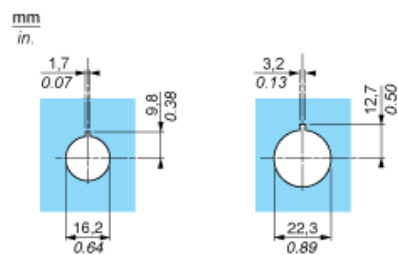
- a 63 mm/2.48 in.
- e support panel thickness: 0.5 mm to 5 mm/0.02 in. to 0.2 in.

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Cam Switch

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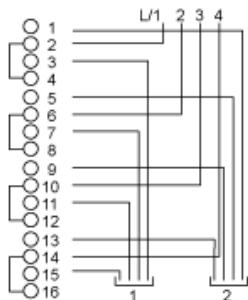
Ø 16 mm/0.63 in. and Ø 22 mm/0.87 in. Panel Cut-outs



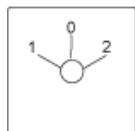
## Link Positions (Factory Mounted)

### Diagram for 1 to 4-pole Switches

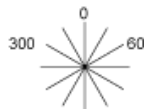
Select the number of poles according to the product characteristics.



## Marking



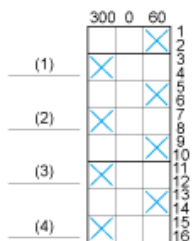
## Angular Position of Switch



## Switching Program

### Diagram for 1 to 4-pole Switches

Select the number of poles according to the product characteristics.



- (1) 1-pole
- (2) 2-pole
- (3) 3-pole
- (4) 4-pole

## Convention Used for Switching Program Representation

☒ Contact closed

☒ Contact closed in 2 positions and maintained between the 2 positions



Sealed assembly for auto-maintain control



Overlapping contacts



Spring return position: for a switching angle of  $90^\circ$ , spring return is over  $30^\circ$  after the last position (for a maximum of 3 simultaneous contacts).

Example:

