



## Main

Commercial Status	Commercialised
Range of product	Harmony K
Product or component type	Complete cam switch
Component name	K10
[Ith] 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	3P
Switching positions	Left: 0° - 300° Right: 0° - 60°
IP degree of protection	IP65 (operating head) conforming to IEC 60529 IP20 (contact block)

## Complementary

Switching angle	60 °
[Ui] rated insulation voltage	440 V, degree of pollution: 3 conforming to IEC 60947-1
Rated operational power in W	750 W AC-23A, 220/240 V 1 phase 370 W AC-23A, 110/120 V 1 phase 1800 W AC-23A, 220/240 V 3 phases
Rated power in hp	0.75 hp at 220/240 V AC, 1 phase 0.75 hp at 110/120 V AC, 3 phases 0.33 hp at 110/120 V AC, 1 phase 1 hp at 220/240 V AC, 3 phases
[Ie] rated operational current AC	6 A at 120 V AC-15 3 A at 240 V AC-15 10 A at 400 V AC-21A 10 A at 400 V AC-1
[Ie] rated operational current DC	0.7 A at 110 V resistive load 0.3 A at 220 V resistive load 10 A at 24 V resistive load
Electrical durability	100000000 cycles
Short circuit protection	10 A by cartridge fuse, type gG
[Uimp] 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 mm <sup>2</sup>
Mechanical durability	1000000 cycles
CAD overall width	30 mm
CAD overall height	30 mm
CAD overall depth	100 mm
Product weight	0.055 kg

## Environment

Standards	EN/IEC 60947-5-1 EN/IEC 60947-3 CENELEC EN 50013
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

Cam Switch

Front Mounting by  $\varnothing 16$  mm/0.63 in. or  $\varnothing 22$  mm/0.87 in. hole



- a 75 mm/2.95 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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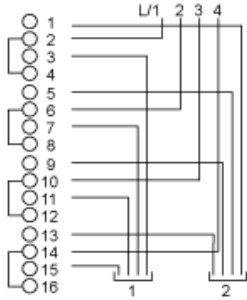
Ø 16 mm/0.63 in. and Ø 22 mm/0.87 in. Panel Cut-outs



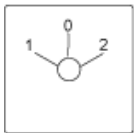
Link Positions (Factory Mounted)

Diagram for 1 to 4-pole Switches

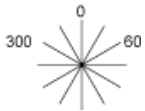
Select the number of poles according to the product characteristics.



Marking



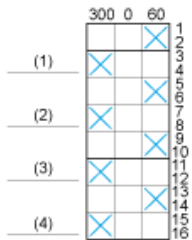
Angular Position of Switch



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:

