



### Main

range of product	Harmony K
product or component type	Complete cam switch
component name	K1
[Ith] conventional free air thermal current	12 A
mounting location	Front
fixing mode	Ø 22 mm hole
cam switch head type	With front plate 45 x 45 mm
type of operator	Black handle, length = 35 mm
rotary handle padlocking	Without
presentation of legend	With metallic legend, 0 - 1 black marking
cam switch function	Switch
return	Without
off position	With Off position
poles description	1P
switching positions	Right: 0° - 45°
IP degree of protection	IP65 conforming to NF C 20-010 IP65 conforming to IEC 529

### Complementary

switching angle	45 °
[Ui] rated insulation voltage	690 V degree of pollution 3 conforming to IEC 60947-1
[Ithe] conventional enclosed thermal current	10 A
rated operational power in W	4800 W AC-21 / 230 V 3 phases conforming to IEC 947-3 2200 W AC-23A / 500 V 3 phases conforming to IEC 947-3 10500 W AC-21 / 500...660 V 3 phases conforming to IEC 947-3 600 W AC-3 / 230 V 1 phase conforming to IEC 947-3 2200 W AC-23A / 400 V 3 phases conforming to IEC 947-3 1100 W AC-3 / 230 V 3 phases conforming to IEC 947-3 8300 W AC-21 / 400 V 3 phases conforming to IEC 947-3 2200 W AC-23A / 690 V 3 phases conforming to IEC 947-3 1500 W AC-3 / 400 V 1 phase conforming to IEC 947-3 1500 W AC-3 / 400 V 3 phases conforming to IEC 947-3 1500 W AC-3 / 690 V 3 phases conforming to IEC 947-3 1500 W AC-23A / 230 V 3 phases conforming to IEC 947-3 1500 W AC-3 / 500 V 3 phases conforming to IEC 947-3
[Ie] rated operational current AC	3 A at 230 V AC-15 conforming to IEC 947-5-1 1 A at 500 V AC-15 conforming to IEC 947-5-1 5.6 A at 230 V AC-23A 3 phases conforming to IEC 947-3 3.8 A at 500 V AC-23A 3 phases conforming to IEC 947-3 3.3 A at 400 V AC-3 3 phases conforming to IEC 947-3 2.8 A at 690 V AC-23A 3 phases conforming to IEC 947-3 1.8 A at 690 V AC-3 3 phases conforming to IEC 947-3 4.8 A at 400 V AC-23A 3 phases conforming to IEC 947-3 2 A at 400 V AC-15 conforming to IEC 947-5-1 2.8 A at 500 V AC-3 3 phases conforming to IEC 947-3 4.6 A at 230 V AC-3 3 phases conforming to IEC 947-3
electrical durability	1000000 cycles AC-21 500000 cycles AC-23 500000 cycles AC-3 1000000 cycles AC-15
operating rate	8333 cyc/mn AC-15 2.5 cyc/mn AC-23 2.5 cyc/mn AC-3 2.5 cyc/mn AC-21

short-circuit current	10000 A
short circuit protection	16 A by cartridge fuse, type gG
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 947-1 4 kV in isolating function
contacts operation	Slow-break
positive opening	With
electrical connection	Captive screw clamp terminals solid, 1 x 2.5 mm <sup>2</sup> Captive screw clamp terminals flexible, 2 x 1.5 mm <sup>2</sup>
mechanical durability	1000000 cycles
CAD overall width	45 mm
CAD overall height	50 mm
CAD overall depth	49 mm
product weight	0.123 kg
compatibility code	K1S

## Environment

standards	UL 508 for control circuit EN/IEC 60947-3 for power circuit CSA C22.2 No 14 for control circuit UL 508 for power circuit CSA C22.2 No 14 for power circuit EN/IEC 60947-5-1 for control circuit
product certifications	CSA 240 V 1 hp 1 phase UL 240 V 1 hp 3 phases CSA 240 V 3 hp 3 phases 2 -pole(s) UL 240 V 0.33 hp 1 phase 2 -pole(s)
protective treatment	TC
ambient air temperature for operation	-25...55 °C
ambient air temperature for storage	-40...70 °C
shock resistance	30 gn conforming to IEC 68-2-27
vibration resistance	5 gn, 10...150 Hz conforming to IEC 68-2-6
overvoltage category	Class II conforming to NF C 20-030 Class II conforming to IEC 536

## Contractual warranty

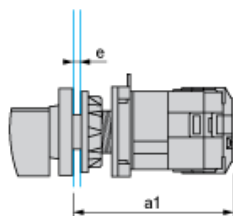
Warranty period	18 months
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Operating Head and Body with Plastic Base

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Front Mounting by  $\varnothing$  22 mm/0.87 in. Hole



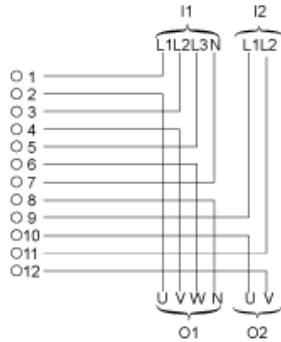
a1 70.5 mm/2.78 in.

e support panel thickness 1 mm to 6 mm./0.039 in. to 0.24 in.

Link Positions (Factory Mounted)

Diagram for 1 to 6-pole Switches

Select the number of poles according to the product characteristics.

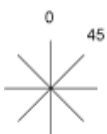


- I1 Input 1
- I2 Input 2
- O1 Output 1
- O2 Output 2

Marking



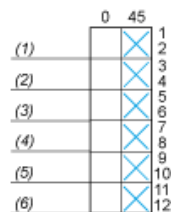
Angular Position of Switch



Switching Program

Diagram for 1 to 6-pole Switches

Select the number of poles according to the product characteristics.





- (1) 1-pole
- (2) 2-pole
- (3) 3-pole
- (4) 4-pole
- (5) 5-pole
- (6) 6-pole


## Convention Used for Switching Program Representation


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 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:

