



## Main

Range of product	Harmony K
Product or component type	Cam switch body
Component name	K2
[I <sub>th</sub> ] conventional free air thermal current	20 A
Sub-assembly composition	Contact blocks + fixing plate
Cam switch function	Stepping switch
Off position	With Off position
Poles description	2P
Switching positions	Right: 0° - 45° - 90° - 135°
Product mounting	Front mounting
Fixing mode	Ø 22 mm hole
Bezel material	Metal

## Complementary

Number of steps	3
Switching angle	45°
[U <sub>i</sub> ] rated insulation voltage	690 V degree of pollution 3 conforming to IEC 60947-1
[I <sub>the</sub> ] conventional enclosed thermal current	16 A
Rated operational power in W	8000 W AC-21 / 230 V 3 phases conforming to IEC 947-3 5500 W AC-23A / 690 V 3 phases conforming to IEC 947-3 5500 W AC-23A / 500 V 3 phases conforming to IEC 947-3 5500 W AC-23A / 400 V 3 phases conforming to IEC 947-3 4000 W AC-3 / 690 V 3 phases conforming to IEC 947-3 4000 W AC-3 / 500 V 3 phases conforming to IEC 947-3 4000 W AC-3 / 400 V 3 phases conforming to IEC 947-3 4000 W AC-23A / 230 V 3 phases conforming to IEC 947-3 2200 W AC-3 / 400 V 1 phase conforming to IEC 947-3 2200 W AC-3 / 230 V 3 phases conforming to IEC 947-3 17000 W AC-21 / 500 - 660 V 3 phases conforming to IEC 947-3 14000 W AC-21 / 400 V 3 phases conforming to IEC 947-3 1300 W AC-3 / 230 V 1 phase conforming to IEC 947-3
[I <sub>e</sub> ] rated operational current AC	8.9 A at 500 V AC-23A 3 phases conforming to IEC 947-3 8.3 A at 230 V AC-3 3 phases conforming to IEC 947-3 6.5 A at 500 V AC-3 3 phases conforming to IEC 947-3 6.4 A at 690 V AC-23A 3 phases conforming to IEC 947-3 4.7 A at 690 V AC-3 3 phases conforming to IEC 947-3 14.6 A at 230 V AC-23A 3 phases conforming to IEC 947-3 10.8 A at 400 V AC-23A 3 phases conforming to IEC 947-3 8 A at 400 V AC-3 3 phases conforming to IEC 947-3 4 A at 230 V AC-15 conforming to IEC 947-5-1 3 A at 400 V AC-15 conforming to IEC 947-5-1 2 A at 500 V AC-15 conforming to IEC 947-5-1
Electrical durability	600000 cycles AC-21 600000 cycles AC-15 200000 cycles AC-3 200000 cycles AC-23
Operating rate	8.333 cyc/mn AC-15 2.5 cyc/mn AC-3 2.5 cyc/mn AC-23 2.5 cyc/mn AC-21
Short-circuit current	10000 A
Short circuit protection	20 A by cartridge fuse, type gG
[U <sub>imp</sub> ] 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
Product weight	0.218 kg

## Environment

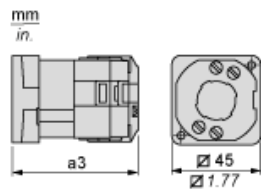
Standards	EN/IEC 60947-5-1 for control circuit EN/IEC 60947-3 for power circuit CENELEC EN 50013
Product certifications	UL 240 V 0.33 hp 1 phase 2 -pole(s) UL 240 V 1 hp 3 phases CSA 240 V 3 hp 3 phases 2 -pole(s) CSA 240 V 1 hp 1 phase
Protective treatment	TC
Ambient air temperature for operation	-25...55 °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
Class of protection against electric shock	Class II conforming to NF C 20-030 Class II conforming to IEC 536

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Body with Metal Base, Secured by Needle Screws

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

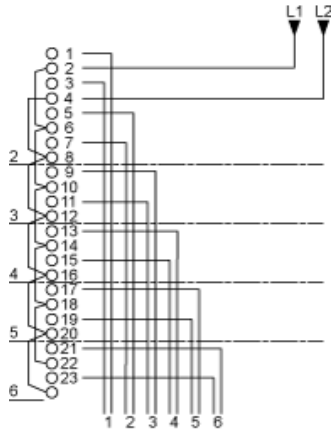


a3 75 mm/2.95 in.

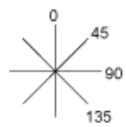
Link Positions (Factory Mounted)

Diagram for 2 to 6-step Stepping Switches

Select the number of steps according to the product characteristics.



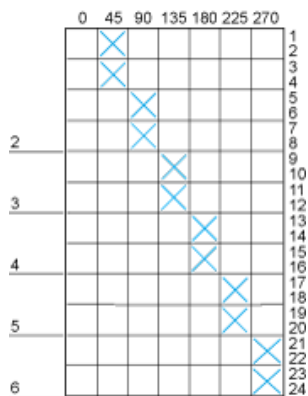
Angular Position of Switch



Switching Program

Diagram for 2 to 6-step Stepping Switches

Select the number of steps according to the product characteristics.



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:

