



Main

Range of Product	Harmony K
Product or Component Type	Cam switch body
Component name	K1
[I _{th}] conventional free air thermal current	12 A
Sub-assembly composition	Contact blocks + fixing plate
Cam switch function	Stepping switch
Off position	Without Off position
Poles description	1P
Switching positions	Right: 0° - 45° - 90° - 135°
Mounting Location	Front
Fixing Mode	Ø 22 mm hole
Bezel material	Metal

Complementary

Number of steps	4
Switching angle	45 °
[U _i] rated insulation voltage	690 V 3)IEC 60947-1
[I _{the}] conventional enclosed thermal current	10 A
Rated operational power in W	10500 W AC-21, 500 - 660 V 3 phase IEC 947-3 1100 W AC-3, 230 V 3 phase IEC 947-3 1500 W AC-23A, 230 V 3 phase IEC 947-3 1500 W AC-3, 400 V 1 phase IEC 947-3 1500 W AC-3, 400 V 3 phase IEC 947-3 1500 W AC-3, 500 V 3 phase IEC 947-3 1500 W AC-3, 690 V 3 phase IEC 947-3 2200 W AC-23A, 400 V 3 phase IEC 947-3 2200 W AC-23A, 500 V 3 phase IEC 947-3 2200 W AC-23A, 690 V 3 phase IEC 947-3 4800 W AC-21, 230 V 3 phase IEC 947-3 600 W AC-3, 230 V 1 phase IEC 947-3 8300 W AC-21, 400 V 3 phase IEC 947-3
[I _e] rated operational current AC	1.8 A 690 V AC-3 3 phase IEC 947-3 2.8 A 500 V AC-3 3 phase IEC 947-3 2.8 A 690 V AC-23A 3 phase IEC 947-3 3.3 A 400 V AC-3 3 phase IEC 947-3 3.8 A 500 V AC-23A 3 phase IEC 947-3 4.6 A 230 V AC-3 3 phase IEC 947-3 4.8 A 400 V AC-23A 3 phase IEC 947-3 5.6 A 230 V AC-23A 3 phase IEC 947-3 1 A 500 V AC-15 IEC 947-5-1 2 A 400 V AC-15 IEC 947-5-1 3 A 230 V AC-15 IEC 947-5-1
Electrical durability	1000000 Cycles AC-15 1000000 Cycles AC-21 500000 Cycles AC-23 500000 cycles AC-3
Maximum operating rate	2.5 Cyc/Mn AC-21 2.5 Cyc/Mn AC-23 2.5 Cyc/Mn AC-3 8.333 cyc/mn AC-15
Short-circuit current	10000 A
Short-circuit protection	16 A cartridge fuse gG

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[Uimp] rated impulse withstand voltage	4 kV in isolating function 6 kV IEC 947-1
Contact operation	Slow-break
Positive opening	With
Electrical connection	Captive screw clamp terminals flexible 2 x 1.5 mm ² Captive screw clamp terminals solid 1 x 2.5 mm ²
Mechanical durability	1000000 cycles
Net Weight	0.41 lb(US) (0.188 kg)

Environment

Standards	IEC 60947-3 power circuit IEC 60947-5-1 control circuit CENELEC EN 50013
Product certifications	CSA 240 V 1 hp 1 phase CSA 240 V 3 hp 3 phase 2 UL 240 V 1 hp 3 phase UL 240 V 0.33 hp 1 phase 2
Protective treatment	TC
Ambient Air Temperature for Operation	-13...131 °F (-25...55 °C)
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Shock resistance	30 gn IEC 68-2-27
Vibration resistance	5 gn 10...150 Hz IEC 68-2-6

Packing Units

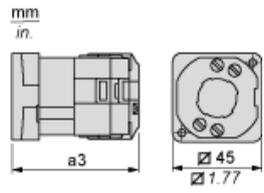
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.56 in (6.5 cm)
Package 1 Width	2.56 in (6.5 cm)
Package 1 Length	4.33 in (11.0 cm)
Package 1 Weight	7.55 oz (214.0 g)
Unit Type of Package 2	S01
Number of Units in Package 2	10
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	5.91 in (15.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	5.26 lb(US) (2.385 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Body with Metal Base, Secured by Needle Screws

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

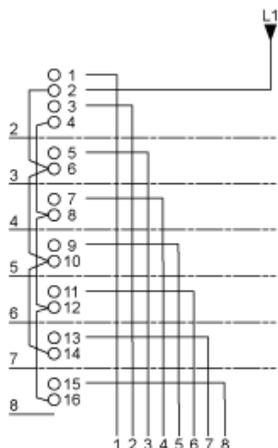


a3 65 mm/2.56 in.

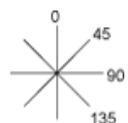
Link Positions (Factory Mounted)

Diagram for 2 to 8-step Stepping Switches

Select the number of steps according to the product characteristics.



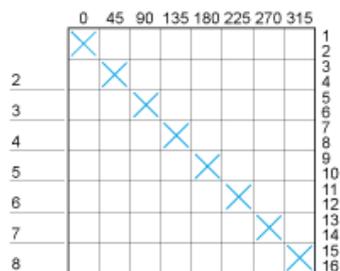
Angular Position of Switch



Switching Program

Diagram for 2 to 8-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°, spring return is over 30° after the last position (for a maximum of 3 simultaneous contacts).

Example:

