



### Main

Range of product	Harmony K
Product or component type	Complete cam switch
Component name	K1
[I <sub>th</sub> ] conventional free air thermal current	12 A
Product mounting	Front mounting
Fixing mode	6 screws Ø 5.2 mm
Cam switch head type	With front plate 55 x 100 mm
Type of operator	Black handle
Rotary handle padlocking	With
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	1P
Switching positions	Left: 0° - 300° Right: 0° - 60°
IP degree of protection	IP40 conforming to IEC 529 IP40 conforming to NF C 20-010

### Complementary

Switching angle	60 °
[U <sub>i</sub> ] rated insulation voltage	690 V (pollution degree 3) conforming to IEC 60947-1
[I <sub>the</sub> ] conventional enclosed thermal current	10 A
Rated operational power in W	10500 W AC-21, 500...660 V 3 phases conforming to IEC 60947-3 1100 W AC-3, 230 V 3 phases conforming to IEC 60947-3 1500 W AC-23A, 230 V 3 phases conforming to IEC 60947-3

	1500 W AC-3, 400 V 1 phase conforming to IEC 60947-3 1500 W AC-3, 400 V 3 phases conforming to IEC 60947-3 1500 W AC-3, 500 V 3 phases conforming to IEC 60947-3 1500 W AC-3, 690 V 3 phases conforming to IEC 60947-3 2200 W AC-23A, 400 V 3 phases conforming to IEC 60947-3 2200 W AC-23A, 500 V 3 phases conforming to IEC 60947-3 2200 W AC-23A, 690 V 3 phases conforming to IEC 60947-3 4800 W AC-21, 230 V 3 phases conforming to IEC 60947-3 600 W AC-3, 230 V 1 phase conforming to IEC 60947-3 8300 W AC-21, 400 V 3 phases conforming to IEC 60947-3
[I <sub>e</sub> ] rated operational current AC	1 A at 500 V AC-15 conforming to IEC 60947-5-1 2 A at 400 V AC-15 conforming to IEC 60947-5-1 3 A at 230 V AC-15 conforming to IEC 60947-5-1 1.8 A at 690 V AC-3 3 phases conforming to IEC 60947-3 2.8 A at 500 V AC-3 3 phases conforming to IEC 60947-3 2.8 A at 690 V AC-23A 3 phases conforming to IEC 60947-3 3.3 A at 400 V AC-3 3 phases conforming to IEC 60947-3 3.8 A at 500 V AC-23A 3 phases conforming to IEC 60947-3 4.6 A at 230 V AC-3 3 phases conforming to IEC 60947-3 4.8 A at 400 V AC-23A 3 phases conforming to IEC 60947-3 5.6 A at 230 V AC-23A 3 phases conforming to IEC 60947-3
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, type gG
[U <sub>imp</sub> ] rated impulse withstand voltage	4 kV in isolating function 6 kV conforming to IEC 60947-1
Contact operation	Slow-break
Positive opening	With
Electrical connection	Captive screw clamp terminals flexible, clamping capacity: 2 x 1.5 mm <sup>2</sup> Captive screw clamp terminals solid, clamping capacity: 1 x 2.5 mm <sup>2</sup>
Mechanical durability	1000000 cycles
CAD overall width	55 mm
CAD overall height	100 mm
CAD overall depth	53 mm
Net weight	0.17 kg

## Environment

Standards	CENELEC EN 50013 EN/IEC 60947-3 for power circuit EN/IEC 60947-5-1 for control circuit
Product certifications	CSA 240 V 1 hp 1 phase CSA 240 V 3 hp 3 phases 2 pole(s) UL 240 V 1 hp 3 phases 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 (f= 10...150 Hz) conforming to IEC 68-2-6
Electrical shock protection class	Class II conforming to IEC 536 Class II conforming to NF C 20-030

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Package 1 Weight	298 g
Package 1 Height	7.5 cm
Package 1 width	10 cm
Package 1 Length	5 cm

### Offer Sustainability

Sustainable offer status	Green Premium product
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

### Contractual warranty

Warranty	18 months
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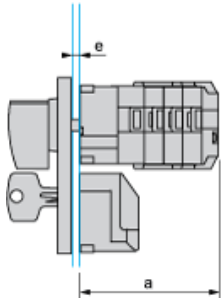
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Operating Head and Body with Plastic Base and Key Locking

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Front Mounting by 6 Screws

55 mm x 100 mm / 2.17 in. x 3.94 in. front plate

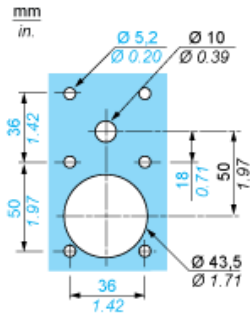


- a 53 mm/2.09 in.
- e support panel thickness 1 mm to 6 mm./0.039 in. to 0.24 in.



Operating Head and Body with Plastic Base and Key Locking

Panel Cut-out



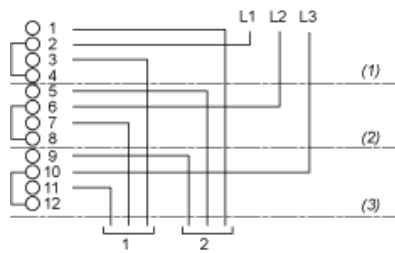
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Link Positions (Factory Mounted)

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Diagram for 1 to 3-pole Switches

Select the number of poles according to the product characteristics.



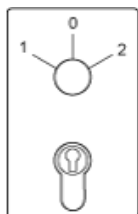
- (1) 1-pole
- (2) 2-pole
- (3) 3-pole



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Marking

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Angular Position of Switch

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Switching Program

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300	0	60	
✕			1
			2
		✕	3
			4



## Convention Used for Switching Program Representation

Contact closed

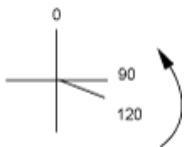
Contact closed in 2 positions and maintained between the 2 positions

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:



K1B001UZ4 is replaced by the following product range:



### Harmony K

Ø 16-22 mm rotary cam switches

Rotary cam switches from 10 to 150A. Modular switches with plastic and metal heads to meet most industrial applications

Reason for Substitution: End of life | Substitution date: 30 April 2020