

# Product datasheet

Specifications



## cam changeover switch - 3 pole - 12 A - front mounting - red handle

K1F003UZ2

 **Discontinued on:** 1 Jul 2020

 **Discontinued**

### Main

Range Of Product	Harmony K
Product Or Component Type	Complete cam switch
Component Name	K1
[Ith] 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	Red 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	3P
Switching Positions	Right: 0° - 60° Left: 0° - 300°
Ip Degree Of Protection	IP40 conforming to IEC 529 IP40 conforming to NF C 20-010

### Complementary

Switching Angle	60 °
[Ui] Rated Insulation Voltage	690 V (pollution degree 3) conforming to IEC 60947-1
[Ithe] 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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[Ie] 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
[Uimp] 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	73 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 Height	9.5 cm

Package 1 Width	10 cm
Package 1 Length	5 cm
Package 1 Weight	358 g

## Contractual warranty

Warranty	18 months
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# Sustainability





**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)

## Well-being performance

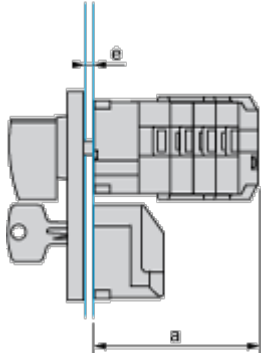
	Reach Free Of Svhc	
	Toxic Heavy Metal Free	
	Mercury Free	
	Rohs Exemption Information	Yes
Reach Regulation		<a href="#">REACH Declaration</a>
Eu Rohs Directive		Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
China Rohs Regulation		<a href="#">China RoHS declaration</a>
Weee		The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Operating Head and Body with Plastic Base and Key Locking

Front Mounting by 6 Screws

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

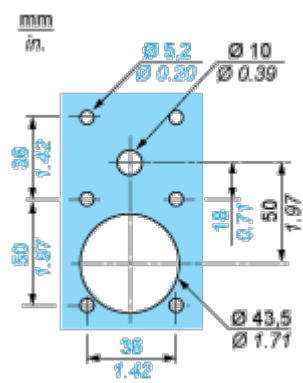


- a 73 mm/2.87 in.
- e support panel thickness 1 mm to 6 mm./0.039 in. to 0.24 in.

Mounting and Clearance

Operating Head and Body with Plastic Base and Key Locking

Panel Cut-out

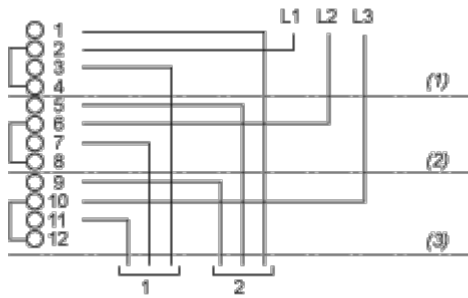


## Technical Description

### Link Positions (Factory Mounted)

### Diagram for 1 to 3-pole Switches

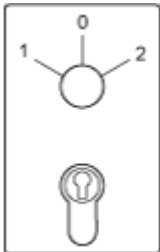
Select the number of poles according to the product characteristics.



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

Marking

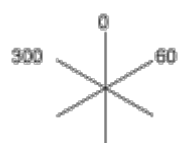
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Angular Position of Switch

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Switching Program

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300	0	60	
X			1
			2
		X	3
			4
X			5
			6
		X	7
			8
X			9
			10
		X	11
			12

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:

