

K1F013NZ4

Cam stepping switch, Harmony K, screw mounting, plastic, 2 poles, 3 steps marked 1/2/3, 60°, 12A, black handle, key operated lock



Main

Range of Product	Harmony K
Product or Component Type	Complete cam switch
Component name	K1
[I _{th}] 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, 1 - 2 - 3 black
Cam switch function	Stepping switch
Return	Without
Off position	Without Off position
Poles description	2P
Switching positions	Right: 0° - 60° - 120°
IP degree of protection	IP40 conforming to IEC 529 IP40 conforming to NF C 20-010

Complementary

Number of steps	3
Switching angle	60 °
[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 60947-3 1100 W AC-3, 230 V 3 phase IEC 60947-3 1500 W AC-23A, 230 V 3 phase IEC 60947-3 1500 W AC-3, 400 V 1 phase IEC 60947-3 1500 W AC-3, 400 V 3 phase IEC 60947-3 1500 W AC-3, 500 V 3 phase IEC 60947-3 1500 W AC-3, 690 V 3 phase IEC 60947-3 2200 W AC-23A, 400 V 3 phase IEC 60947-3 2200 W AC-23A, 500 V 3 phase IEC 60947-3 2200 W AC-23A, 690 V 3 phase IEC 60947-3 4800 W AC-21, 230 V 3 phase IEC 60947-3 600 W AC-3, 230 V 1 phase IEC 60947-3 8300 W AC-21, 400 V 3 phase IEC 60947-3
[I _e] rated operational current AC	1 A 500 V AC-15 IEC 60947-5-1 2 A 400 V AC-15 IEC 60947-5-1 3 A 230 V AC-15 IEC 60947-5-1 1.8 A 690 V AC-3 3 phase IEC 60947-3 2.8 A 500 V AC-3 3 phase IEC 60947-3 2.8 A 690 V AC-23A 3 phase IEC 60947-3 3.3 A 400 V AC-3 3 phase IEC 60947-3 3.8 A 500 V AC-23A 3 phase IEC 60947-3 4.6 A 230 V AC-3 3 phase IEC 60947-3 4.8 A 400 V AC-23A 3 phase IEC 60947-3 5.6 A 230 V AC-23A 3 phase IEC 60947-3

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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
[Uimp] rated impulse withstand voltage	4 kV in isolating function 6 kV IEC 60947-1
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
CAD overall width	2.17 in (55 mm)
CAD overall height	3.94 in (100 mm)
CAD overall depth	2.87 in (73 mm)
Net Weight	0.37 lb(US) (0.17 kg)

Environment

Standards	CENELEC EN 50013 EN/IEC 60947-3 power circuit EN/IEC 60947-5-1 control circuit
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
Electrical shock protection class	Class II IEC 536 Class II NF C 20-030

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.74 in (9.5 cm)
Package 1 Width	3.94 in (10.0 cm)
Package 1 Length	1.97 in (5.0 cm)
Package 1 Weight	12.63 oz (358.0 g)

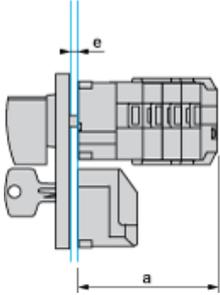
Offer Sustainability

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
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.

Operating Head and Body with Plastic Base and Key Locking

Front Mounting by 6 Screws

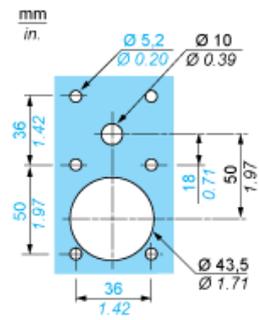
55 mm x 100 mm / 2.17 in. x 3.94 in. front plate



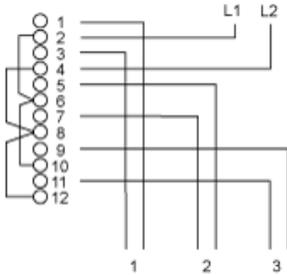
- a 73 mm/2.87 in.
- e support panel thickness 1 mm to 6 mm./0.039 in. to 0.24 in.

Operating Head and Body with Plastic Base and Key Locking

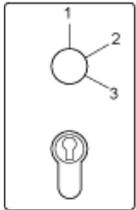
Panel Cut-out



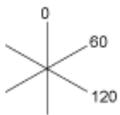
Link Positions (Factory Mounted)



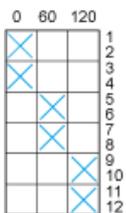
Marking



Angular Position of Switch



Switching Program



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:

