

Product datasheet

Specifications



Cam stepping switch, Harmony K, multifixing, plastic, 3 poles, 2 steps, 45°, 12A, 45x45mm, metallic legend, marked 1/2, 35mm black handle

K1F022NLH

! Discontinued

! Discontinued on: 1 Jul 2020

Main

Range Of Product	Harmony K
Product Or Component Type	Complete cam switch
Component Name	K1
[Ith] Conventional Free Air Thermal Current	12 A
Mounting Location	Front
Fixing Mode	Multifixing
Cam Switch Head Type	With front plate 45 x 45 mm
Type Of Operator	Black handle, length = 35 mm
Rotary Handle Padlocking	Without
Presentation Of Legend	With metallic legend, 1 - 2 black marking
Cam Switch Function	Stepping switch
Return	Without
Off Position	Without Off position
Poles Description	3P
Switching Positions	Right: 0° - 45°
Ip Degree Of Protection	IP40 conforming to IEC 60529

Complementary

Number Of Steps	2
Switching Angle	45 °
[Ui] Rated Insulation Voltage	690 V (pollution degree 3) conforming to IEC 60947-1
[Ithe] Conventional Enclosed Thermal Current	10 A

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

Rated Operational Power In W	10500 W AC-21, 500..660 V 3 phases conforming to IEC 947-3 1100 W AC-3, 230 V 3 phases conforming to IEC 947-3 1500 W AC-23A, 230 V 3 phases conforming to IEC 947-3 1500 W AC-3, 400 V 1 phase conforming to IEC 947-3 1500 W AC-3, 400 V 3 phases conforming to IEC 947-3 1500 W AC-3, 500 V 3 phases conforming to IEC 947-3 1500 W AC-3, 690 V 3 phases conforming to IEC 947-3 2200 W AC-23A, 400 V 3 phases conforming to IEC 947-3 2200 W AC-23A, 500 V 3 phases conforming to IEC 947-3 2200 W AC-23A, 690 V 3 phases conforming to IEC 947-3 4800 W AC-21, 230 V 3 phases conforming to IEC 947-3 600 W AC-3, 230 V 1 phase conforming to IEC 947-3 8300 W AC-21, 400 V 3 phases conforming to IEC 947-3
[Ie] Rated Operational Current Ac	1.8 A at 690 V AC-3 3 phases conforming to IEC 947-3 2.8 A at 500 V AC-3 3 phases conforming to IEC 947-3 2.8 A at 690 V AC-23A 3 phases conforming to IEC 947-3 3.3 A at 400 V AC-3 3 phases conforming to IEC 947-3 3.8 A at 500 V AC-23A 3 phases conforming to IEC 947-3 4.6 A at 230 V AC-3 3 phases conforming to IEC 947-3 4.8 A at 400 V AC-23A 3 phases conforming to IEC 947-3 5.6 A at 230 V AC-23A 3 phases conforming to IEC 947-3 1 A at 500 V AC-15 conforming to IEC 947-5-1 2 A at 400 V AC-15 conforming to IEC 947-5-1 3 A at 230 V AC-15 conforming to 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, type gG
[Uimp] Rated Impulse Withstand Voltage	4 kV in isolating function 6 kV conforming to IEC 947-1
Contact Operation	Slow-break
Positive Opening	With
Electrical Connection	Captive screw clamp terminals flexible, clamping capacity: 2 x 1.5 mm ² Captive screw clamp terminals solid, clamping capacity: 1 x 2.5 mm ²
Mechanical Durability	1000000 cycles
Cad Overall Width	45 mm
Cad Overall Height	45 mm
Cad Overall Depth	97 mm
Net Weight	0.17 kg

Environment

Standards	IEC 60947-3 for power circuit IEC 60947-5-1 for control circuit CENELEC EN 50013
Product Certifications	CSA 240 V 3 hp 3 phases 2 -pole(s) UL 240 V 0.33 hp 1 phase 2 -pole(s) CSA 240 V 1 hp 1 phase UL 240 V 1 hp 3 phases
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 conforming to IEC 68-2-6 (f = 10...150 Hz)
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Overvoltage Category	Class II conforming to IEC 536 Class II conforming to NF C 20-030
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Packing Units

Unit Type Of Package 1	PCE
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Number Of Units In Package 1	1
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Package 1 Height	16.3 cm
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Package 1 Width	16.3 cm
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Package 1 Length	16.3 cm
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Package 1 Weight	170 g
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Unit Type Of Package 2	S01
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Number Of Units In Package 2	10
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Package 2 Height	15 cm
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Package 2 Width	15 cm
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Package 2 Length	40 cm
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Package 2 Weight	1.7 kg
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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-CO₂ 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 >](#)



Transparency RoHS/REACH

Well-being performance

Reach Free Of Svhc

Toxic Heavy Metal Free

Mercury Free

Rohs Exemption Information Yes

Certifications & Standards

Reach Regulation

[REACH Declaration](#)

Eu Rohs Directive

Pro-active compliance (Product out of EU RoHS legal scope)

[EU RoHS Declaration](#)

China Rohs Regulation

[China RoHS declaration](#)

Environmental Disclosure

[Product Environmental Profile](#)

Weee

The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

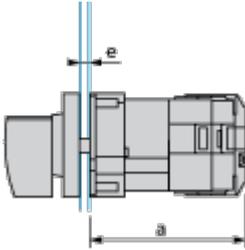
Circularity Profile

No need of specific recycling operations

Dimensions Drawings

Operating Head and Body

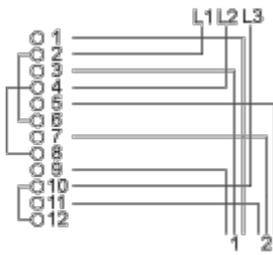
Front Mounting "Multi-Fixing"



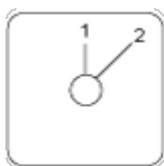
- a 73 mm/2.87 in.
- e support panel thickness 1 mm to 6 mm./0.039 in. to 0.24 in.

Technical Description

Link Positions (Factory Mounted)



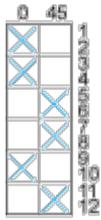
Marking



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:

