

# Product datasheet

Specifications



Cam changeover switch, Harmony K, Ø 22mm, plastic, 3 poles, 2 positions, 30°, 12A, 45x45mm, metallic legend, marked 1/2, 35mm black handle

K1F013UCH

## 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	Ø 22 mm hole
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	Changeover switch
Return	Without
Off Position	Without Off position
Poles Description	3P
Switching Positions	Right: 30° Left: 330°
Ip Degree Of Protection	IP65 conforming to IEC 60529

## Complementary

Switching Angle	30 °
[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 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

<b>[Ie] Rated Operational Current Ac</b>	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
<b>Electrical Durability</b>	1000000 cycles AC-15 1000000 cycles AC-21 500000 cycles AC-23 500000 cycles AC-3
<b>Maximum Operating Rate</b>	2.5 cyc/mn AC-21 2.5 cyc/mn AC-23 2.5 cyc/mn AC-3 8.333 cyc/mn AC-15
<b>Short-Circuit Current</b>	10000 A
<b>Short-Circuit Protection</b>	16 A cartridge fuse, type gG
<b>[Uimp] Rated Impulse Withstand Voltage</b>	4 kV in isolating function 6 kV conforming to IEC 947-1
<b>Contact Operation</b>	Slow-break
<b>Positive Opening</b>	With
<b>Electrical Connection</b>	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>
<b>Mechanical Durability</b>	1000000 cycles
<b>Cad Overall Width</b>	45 mm
<b>Cad Overall Height</b>	50 mm
<b>Cad Overall Depth</b>	69 mm
<b>Net Weight</b>	0.19 kg

## Environment

<b>Standards</b>	IEC 60947-3 for power circuit IEC 60947-5-1 for control circuit CENELEC EN 50013
<b>Product Certifications</b>	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
<b>Protective Treatment</b>	TC
<b>Ambient Air Temperature For Operation</b>	-25...55 °C
<b>Ambient Air Temperature For Storage</b>	-40...70 °C
<b>Shock Resistance</b>	30 gn conforming to IEC 68-2-27
<b>Vibration Resistance</b>	5 gn conforming to IEC 68-2-6 (f = 10...150 Hz)
<b>Electrical Shock Protection Class</b>	Class II conforming to IEC 536 Class II

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	4.9 cm

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Package 1 Width	5.6 cm
Package 1 Length	13.4 cm
Package 1 Weight	188.0 g

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## Contractual warranty

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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 >](#)



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**

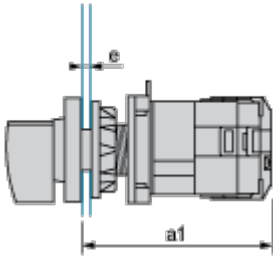
No need of specific recycling operations

Dimensions Drawings

Operating Head and Body with Plastic Base

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



a1 90.5 mm/3.53 in.

e support panel thickness 1 mm to 6 mm./0.039 in. to 0.24 in.

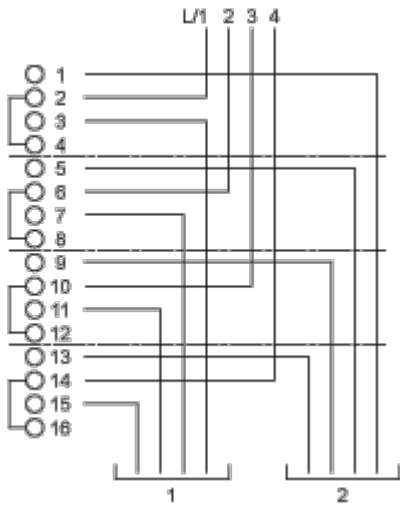
Technical Description

Link Positions (Factory Mounted)

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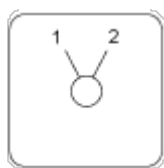
Diagram for 1 to 4-pole Switches

Select the number of poles according to the product characteristics.



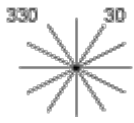
Marking

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Angular Position of Switch

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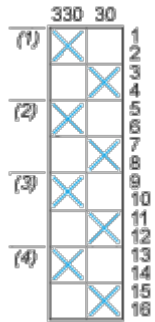


Switching Program

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Diagram for 1 to 4-pole Switches

Select the number of poles according to the product characteristics.



- (1) 1-pole
- (2) 2-pole
- (3) 3-pole
- (4) 4-pole

**Convention Used for Switching Program Representation**

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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:

