





Cam voltmeter switch, Harmony K, phases phases and phases neutral, 22mm, plastic, 7 positions, 45°, 12A, 45x45mm,metallic legend, 35mm black handle

K1F027MCH

#### 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	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, 0 - L1N - L2N - L3N - L1L2 - L2L3 - L3L1 black marking	
Cam Switch Function	Voltmeter switch	
Return	Without	
Type Of Measurement	Between 3 phases and between each of the 3 phases and neutral	
Off Position	With Off position	
Switching Positions	Right: 0° - 45° - 90° - 135° Left: 0° - 315° - 270° - 225°	
Ip Degree Of Protection	IP65 conforming to IEC 60529	

#### Complementary

Switching Angle	45 °
[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, 500660 V 3 phases conforming to IEC 947-3

1000 W AC-21, 300...300 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, 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, 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

[le] 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 <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	45 mm
Cad Overall Height	50 mm
Cad Overall Depth	69 mm
Net Weight	0.19 kg
Environment	
Standards	IEC 60947-3 for power circuit IEC 60947-5-1 for control circuit CENELEC EN 50013
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	-2555 °C
Ambient Air Temperature For Storage	-4070 °C
Shock Resistance	30 gn conforming to IEC 68-2-27
Vibration Resistance	5 gn conforming to IEC 68-2-6 (f = 10150 Hz)
Overvoltage Category	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

Package 1 Height

1

6.5 cm

Package 1 Width	6.5 cm
Package 1 Length	16.5 cm
Package 1 Weight	203.0 g
Unit Type Of Package 2	S01
Number Of Units In Package 2	8
Package 2 Height	15.0 cm
Package 2 Width	15.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	1.848 kg

# **Contractual warranty**

Warranty 18 months

## Sustainability Screen Premium\*

**Green Premium**<sup>TM</sup> **label** is Schneider Electric's commitment to delivering products with best-inclass 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

<b>②</b>	Reach Free Of Svhc	
<b>9</b>	Toxic Heavy Metal Free	
<b>②</b>	Mercury Free	
<b>⊘</b>	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
<b>Environmental Disclosure</b>	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

23 Apr 2024

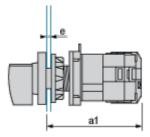
## **Product datasheet**

### K1F027MCH

**Dimensions Drawings** 

#### Operating Head and Body with Plastic Base

#### Front Mounting by Ø 22 mm/0.87 in. Hole



a1 90.5 mm/3.53 in.

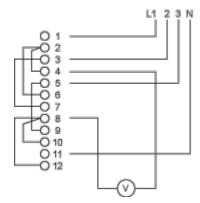
23 Apr 2024

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

## K1F027MCH

**Technical Description** 

#### **Link Positions (Factory Mounted)**



#### **Marking**



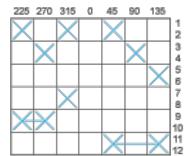
#### **Angular Position of Switch**



## **Product datasheet**

## K1F027MCH

#### **Switching Program**



#### **Convention Used for Switching Program Representation**

Contact closed

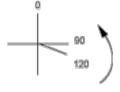
Contact closed in 2 positions and maintained between the 2 positions

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:



10