

Product data sheet

Specifications



Cam ammeter switch, Harmony K,
multifixing, plastic, 3 positions,
position 0, 90°, 12A,
45x45mm, metallic legend, marked 0
L1 L2 L3, 35mm black handle

K1F003MLH

Main

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|---|--|
| 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 | 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, 0 - L1 - L2 - L3 black marking |
| Cam Switch Function | Ammeter switch |
| Return | Without |
| Type Of Measurement | For 3 circuits |
| Off Position | With Off position |
| Switching Positions | Right: 0° - 90° - 180° - 270° |
| Ip Degree Of Protection | IP40 conforming to IEC 529 IP40 conforming to NF C 20-010 |

Complementary

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|--|--|
| Switching Angle | 90 ° |
| [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

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|--|--|
| [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 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 | 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 conforming to IEC 68-2-6 (f = 10...150 Hz) |
| Electrical Shock Protection Class | Class II conforming to IEC 536 Class II conforming to NF C 20-030 |

Packing Units

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|------------------------------|----------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 6.600 cm |

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|------------------------------|-----------|
| Package 1 Width | 6.600 cm |
| Package 1 Length | 11.200 cm |
| Package 1 Weight | 180.000 g |
| Unit Type Of Package 2 | S03 |
| Number Of Units In Package 2 | 40 |
| Package 2 Height | 30 cm |
| Package 2 Width | 30 cm |
| Package 2 Length | 40 cm |
| Package 2 Weight | 7.655 kg |
| Unit Type Of Package 3 | P06 |
| Number Of Units In Package 3 | 320 |
| Package 3 Height | 75.000 cm |
| Package 3 Width | 60.000 cm |
| Package 3 Length | 80.000 cm |
| Package 3 Weight | 70.820 kg |

Contractual warranty

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|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

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 |

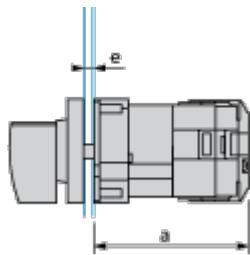
Certifications & Standards

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|---------------------------|--|
| 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 |
| California Proposition 65 | WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |

Dimensions Drawings

Operating Head and Body

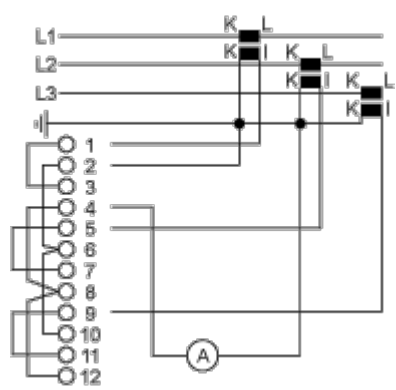
Front Mounting "Multi-Fixing"



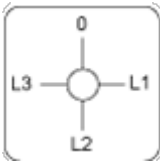
- a 73 mm/2.87 in.
- e support panel thickness 1 mm to 6 mm./0.039 in. to 0.24 in.

Technical Description

Link Positions (Factory Mounted)



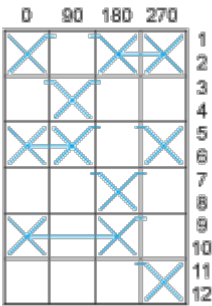
Marking



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:

