

# K1F027MCH

cam voltmeter switch - 3L and 3L-N - 45° - 12 A - for Ø 22 mm



## Main

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| Range of product   | Harmony K  |
| Product or component type                                | Complete cam switch  |
| Component name   | K1   |
| [I <sub>th</sub> ] 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, 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                                      | Left: 0° - 315° - 270° - 225°<br>Right: 0° - 45° - 90° - 135°                |
| IP degree of protection                                  | IP65 conforming to NF C 20-010<br>IP65 conforming to IEC 529                 |

## Complementary

|   |  |
|---|--|
| Switching angle   | 45 °   |
| [U <sub>i</sub> ] rated insulation voltage                | 690 V degree of pollution 3 conforming to IEC 60947-1  |
| [I <sub>the</sub> ] conventional enclosed thermal current | 10 A   |
| Rated operational power in W                              | 600 W AC-3 /230 V 1 phase conforming to IEC 947-3<br>1100 W AC-3 /230 V 3 phases conforming to IEC 947-3<br>1500 W AC-3 /400 V 3 phases conforming to IEC 947-3<br>1500 W AC-3 /500 V 3 phases conforming to IEC 947-3<br>1500 W AC-3 /690 V 3 phases conforming to IEC 947-3<br>1500 W AC-3 /400 V 1 phase conforming to IEC 947-3<br>1500 W AC-23A /230 V 3 phases conforming to IEC 947-3<br>2200 W AC-23A /400 V 3 phases conforming to IEC 947-3<br>2200 W AC-23A /500 V 3 phases conforming to IEC 947-3<br>2200 W AC-23A /690 V 3 phases conforming to IEC 947-3<br>4800 W AC-21 /230 V 3 phases conforming to IEC 947-3<br>8300 W AC-21 /400 V 3 phases conforming to IEC 947-3<br>10500 W AC-21 /500...660 V 3 phases conforming to IEC 947-3 |
| [I <sub>e</sub> ] rated operational current AC            | 1 A at 500 V AC-15 conforming to IEC 947-5-1<br>1.8 A at 690 V AC-3 3 phases conforming to IEC 947-3<br>2 A at 400 V AC-15 conforming to IEC 947-5-1<br>2.8 A at 500 V AC-3 3 phases conforming to IEC 947-3<br>2.8 A at 690 V AC-23A 3 phases conforming to IEC 947-3<br>3 A at 230 V AC-15 conforming to IEC 947-5-1<br>3.3 A at 400 V AC-3 3 phases conforming to IEC 947-3<br>3.8 A at 500 V AC-23A 3 phases conforming to IEC 947-3<br>4.6 A at 230 V AC-3 3 phases conforming to IEC 947-3<br>4.8 A at 400 V AC-23A 3 phases conforming to IEC 947-3<br>5.6 A at 230 V AC-23A 3 phases conforming to IEC 947-3   |
| Electrical durability                                     | 500000 cycles AC-3<br>500000 cycles AC-23<br>1000000 cycles AC-15<br>1000000 cycles AC-21  |

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| Operating rate                         | 2.5 cyc/mn AC-3<br>2.5 cyc/mn AC-23<br>2.5 cyc/mn AC-21<br>8.333 cyc/mn AC-15   |
| Short-circuit current                  | 10000 A   |
| Short circuit protection               | 16 A by cartridge fuse , type gG  |
| [Uimp] rated impulse withstand voltage | 4 kV in isolating function<br>6 kV conforming to IEC 947-1  |
| Contacts operation                     | Slow-break  |
| Positive opening                       | With  |
| Electrical connection                  | Captive screw clamp terminals solid cable, 1 x 2.5 mm <sup>2</sup><br>Captive screw clamp terminals flexible cable, 2 x 1.5 mm <sup>2</sup> |
| Mechanical durability                  | 1000000 cycles  |
| Product weight                         | 0.19 kg   |

## Environment

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| Standards                                  | CENELEC EN 50013<br>EN 60947-3 for power circuit<br>EN 60947-5-1 for control circuit<br>IEC 60947-3 for power circuit<br>IEC 60947-5-1 for control circuit |
| Product certifications                     | CSA 240 V 1 hp 1 phase<br>CSA 240 V 3 hp 3 phases 2 -pole(s)<br>UL 240 V 0.33 hp 1 phase 2 -pole(s)<br>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 , 10...150 Hz conforming to IEC 68-2-6  |
| Class of protection against electric shock | Class II conforming to IEC 536<br>Class II conforming to NF C 20-030   |
| RoHS EUR conformity date                   | 0910   |
| RoHS EUR status                            | Compliant  |