Product data sheet
Characteristics

K1F003MCH
cam ammeter switch - 3 circuits - 90° - 12 A - for Ø 22 mm

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, 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	IP65 conforming to IEC 529 IP65 conforming to NF C 20-010

Complementary

Switching angle	90 °
[Ui] rated insulation voltage	690 V degree of pollution 3 conforming to IEC 60947-1
[Ithe] conventional enclosed thermal current	10 A
Rated operational power in W	1500 W AC-3 / 500 V 3 phases conforming to IEC 60947-3 10500 W AC-21 / 500...660 V 3 phases conforming to IEC 60947-3 1500 W AC-3 / 400 V 1 phase conforming to IEC 60947-3 2200 W AC-23A / 690 V 3 phases conforming to IEC 60947-3 1500 W AC-23A / 230 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 / 400 V 3 phases conforming to IEC 60947-3 4800 W AC-21 / 230 V 3 phases conforming to IEC 60947-3 1100 W AC-3 / 230 V 3 phases conforming to IEC 60947-3 600 W AC-3 / 230 V 1 phase conforming to IEC 60947-3 1500 W AC-3 / 400 V 3 phases conforming to IEC 60947-3 8300 W AC-21 / 400 V 3 phases conforming to IEC 60947-3

	1500 W AC-3 / 690 V 3 phases conforming to IEC 60947-3
[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
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 by 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, 2 x 1.5 mm² Captive screw clamp terminals solid, 1 x 2.5 mm²
Mechanical durability	1000000 cycles
CAD overall width	45 mm
CAD overall height	50 mm
CAD overall depth	69 mm
Product weight	0.19 kg

Environment

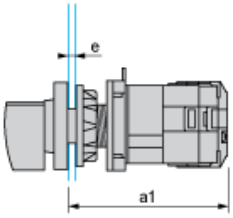
Standards	CENELEC EN 50013 EN/IEC 60947-3 for power circuit EN/IEC 60947-5-1 for control circuit
Product certifications	CSA 240 V 1 hp 1 phase CSA 240 V 3 hp 3 phases 2 -pole(s) UL 240 V 1 hp 3 phases UL 240 V 0.33 hp 1 phase 2 -pole(s)
Protective treatment	TC
Ambient air temperature for operation	-25...55 °C
Ambient air temperature for storage	-40...70 °C
Shock resistance	30 gn conforming to IEC 68-2-27
Vibration resistance	5 gn, 10...150 Hz conforming to IEC 68-2-6
Electrical shock protection class	Class II conforming to IEC 536 Class II conforming to NF C 20-030

Contractual warranty

Warranty period	18 months

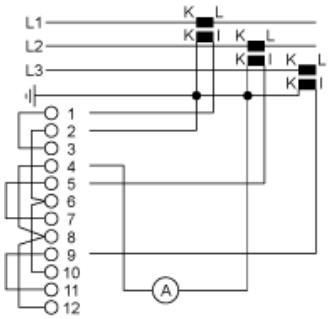
Operating Head and Body with Plastic Base

Front Mounting by Ø 22 mm/0.87 in. Hole

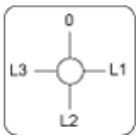


a1 90.5 mm/3.53 in.
e support panel thickness 1 mm to 6 mm./0.039 in. to 0.24 in.

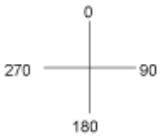
Link Positions (Factory Mounted)



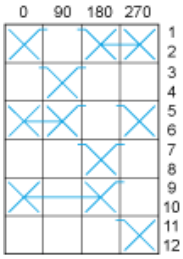
Marking



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: