# Product datasheet Characteristics

### K1F027MLH

cam voltmeter switch - 3L and 3L-N -  $45^{\circ}$  - 12 A - screw mounting



#### Main

IVIAIII		
Range of product	Harmony K	
Product or component type	Complete cam switch	
Component name	K1	
[lth] conventional free air thermal current	12 A	
Mounting location	Front	
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 - 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° Right: 0° - 45° - 90° - 135°	
IP degree of protection	IP40 conforming to IEC 529 IP40 conforming to NF C 20-010	

#### Complementary

<u> </u>		<u></u>
Switching angle	45 °	i.
[Ui] rated insulation voltage	690 V degree of pollution 3 conforming to IEC 60947-1	. <u>w</u>
[Ithe] conventional enclosed thermal current	10 A	mentatio
Rated operational power in W	600 W AC-3 / 230 V 1 phase conforming to IEC 947-3 1500 W AC-3 / 400 V 1 phase conforming to IEC 947-3 1100 W AC-3 / 230 V 3 phases conforming to IEC 947-3 8300 W AC-21 / 400 V 3 phases conforming to IEC 947-3 1500 W AC-3 / 690 V 3 phases conforming to IEC 947-3	isclaimer: This doc.

	2200 W AC-23A / 400 V 3 phases conforming to IEC 947-3 1500 W AC-3 / 500 V 3 phases conforming to IEC 947-3 2200 W AC-23A / 500 V 3 phases conforming to IEC 947-3 1500 W AC-3 / 400 V 3 phases conforming to IEC 947-3 1500 W AC-23A / 230 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 10500 W AC-21 / 500660 V 3 phases conforming to IEC 947-3
[le] rated operational current AC	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 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
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 947-1
Contacts operation	Slow-break
Positive opening	With
Electrical connection	Captive screw clamp terminals flexible, 2 x 1.5 mm <sup>2</sup> Captive screw clamp terminals solid, 1 x 2.5 mm <sup>2</sup>
Mechanical durability	1000000 cycles
CAD overall width	45 mm
CAD overall height	45 mm
CAD overall depth	97 mm
Product weight	0.17 kg
Environment	
Standards	CENELEC EN 50013

Standards	CENELEC EN 50013 EN 60947-3 for power circuit EN 60947-5-1 for control circuit IEC 60947-3 for power circuit 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	-2555 °C
Ambient air temperature for storage	-4070 °C
Shock resistance	30 gn conforming to IEC 68-2-27
Vibration resistance	5 gn, 10150 Hz conforming to IEC 68-2-6

#### Contractual warranty

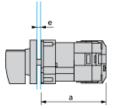
Warranty period	18 months		

# Product datasheet Dimensions Drawings

### K1F027MLH

### Operating Head and Body

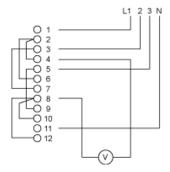
Front Mounting "Multi-Fixing"



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

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### Link Positions (Factory Mounted)



## K1F027MLH

Marking



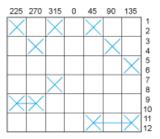
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### Angular Position of Switch



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Switching Program



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#### 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:

