Specifications



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

K1D023MCH

() Discontinued on: Oct 20, 2020

#### (!) Discontinued

#### 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 black marking
Cam Switch Function	Voltmeter switch
Return	Without
Type Of Measurement	Between 3 phases and neutral
Off Position	With Off position
Switching Positions	Right: 0° - 45° - 90° - 135°
Ip Degree Of Protection	IP65 conforming to IEC 529

## 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 1100 W AC-3, 230 V 3 phases conforming to IEC 947-3 1500 W AC-33, 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 2200 W AC-3, 690 V 3 phases conforming to IEC 947-3 2200 W AC-23A, 400 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 2200 W AC-23A, 690 V 3 phases conforming to IEC 947-3 2200 W AC-23A, 690 V 3 phases conforming to IEC 947-3 800 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-25
	SUDUUU Eycles AC-S
Maximum Operating Rate	8333 cyc/mn AC-15
	2.5 cyc/mn AC-21
	2.5 cyc/mn AC-23
	2.5 cyc/mn AC-3
Short-Circuit Current	10000 A
Short-Circuit Protection	16 A cartridge fuse, type gG
[Uimp] Rated Impulse Withstand	4 kV in isolating function
Voltage	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
Cod Quarall Danth	50 mm
Cad Overall Depth	59 mm
Net Weight	0.16 kg
-	č

# Environment

Standards	EN 60947-3 for power circuit EN 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

# **Contractual warranty**

Warranty

18 months

#### Sustainability

**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

Reach Free Of Svhc

Fa

Toxic Heavy Metal Free	
Mercury Free	
Rohs Exemption Information	Yes

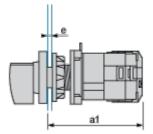
#### **Certifications & Standards**

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
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 with Plastic Base

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

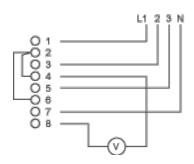


a1 80.5 mm/3.17 in.

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

**Technical Description** 

Link Positions (Factory Mounted)



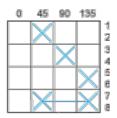
Marking



Marking



#### 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:

