# K1D031B

Cam switch body for BCD encoded withoutput switch, Harmony K, Ø 22mm, plastic, 1 pole, 11 positions without 0 position, 45°, 12A





### Main

Range of product	Harmony K
Product or component type	Cam switch body
Component name	K1
[lth] conventional free air thermal current	12 A
Sub-assembly composition	Contact blocks + fixing plate
Cam switch function	BCD encoded output switch
Off position	Without Off position
Switching positions	Right: 0° - 30° - 60° - 90° - 120° - 150° - 180° - 210° - 240° - 270° - 300°
Mounting location	Front
Fixing mode	Ø 22 mm hole
Bezel material	Plastic

### Complementary

Complementary	
Number of decimal	11
Switching angle	30 °
[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 947-3 1100 W AC-3, 230 V 3 phases conforming to IEC 947-3 1500 W AC-23A, 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 1500 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 4800 W AC-21, 230 V 3 phases conforming to IEC 947-3 600 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-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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

[Uimp] rated impulse withstand voltage	4 KV in isolating function 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
Net weight	0.11 kg

### Environment

Standards	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 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	

# Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	7.8 cm	
Package 1 Width	6.5 cm	
Package 1 Length	6.5 cm	
Package 1 Weight	110.0 g	

# Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	☐ China RoHS Declaration
RoHS exemption information	€Yes
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

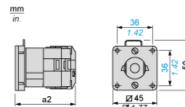
### Contractual warranty

144	10 11
Warranty	18 months
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# K1D031B

# Body with Plastic Base

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



a2 59 mm/2.32 in.

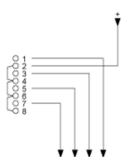
# Product data sheet Technical Description

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### Link Positions (Factory Mounted)

### Diagram for 1 to 12-decimal BCD Encoded Ouput Switches

Select the maximum number of decimals according to the product characteristics.



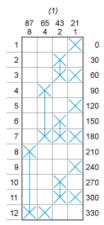
### Angular Position of Switch



### **Switching Program**

### Diagram for 1 to 12-decimal BCD Encoded Ouput Switches

Select the maximum number of decimals according to the product characteristics.



(1) Contact marking value

### 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).

