



## body for BCD encoded output switch - 1 pole - 45° - 12 A - for Ø 22 mm

K1D028B

! Discontinued on: Oct 20, 2020



#### Main

Range Of Product	Harmony K	
Product Or Component Type	Cam switch body	
Component Name	K1	
[Ith] 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° - 45° - 90° - 135° - 180° - 225° - 270° - 315°	
Mounting Location	g Location Front	
Fixing Mode	Ø 22 mm hole	
Bezel Material	Plastic	

## Complementary

Number Of Decimal	8
Switching Angle	45 °
[Ui] Rated Insulation Voltage	690 V 3)IEC 60947-1
[Ithe] Conventional Enclosed Thermal Current	10 A
Rated Operational Power In W	10500 W AC-21, 500 - 660 V 3 phase IEC 947-3 1100 W AC-3, 230 V 3 phase IEC 947-3 1500 W AC-23A, 230 V 3 phase IEC 947-3 1500 W AC-3, 400 V 1 phase IEC 947-3 1500 W AC-3, 400 V 3 phase IEC 947-3 1500 W AC-3, 500 V 3 phase IEC 947-3 1500 W AC-3, 690 V 3 phase IEC 947-3 2200 W AC-23A, 400 V 3 phase IEC 947-3 2200 W AC-23A, 500 V 3 phase IEC 947-3 2200 W AC-23A, 690 V 3 phase IEC 947-3 4800 W AC-21, 230 V 3 phase IEC 947-3 600 W AC-3, 230 V 1 phase IEC 947-3 8300 W AC-21, 400 V 3 phase IEC 947-3

[le] Rated Operational Current Ac

1.8 A 690 V AC-3 3 phase IEC 947-3 2.8 A 500 V AC-3 3 phase IEC 947-3 2.8 A 690 V AC-23A 3 phase IEC 947-3  $3.3~\mathrm{A}~400~\mathrm{V}~\mathrm{AC}\text{--}3~\mathrm{3}~\mathrm{phase}~\mathrm{IEC}~947\text{--}3$ 3.8 A 500 V AC-23A 3 phase IEC 947-3 4.6 A 230 V AC-3 3 phase IEC 947-3 4.8 A 400 V AC-23A 3 phase IEC 947-3 5.6 A 230 V AC-23A 3 phase IEC 947-3 1 A 500 V AC-15 IEC 947-5-1 2 A 400 V AC-15 IEC 947-5-1 3 A 230 V AC-15 IEC 947-5-1

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

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 gG	
[Uimp] Rated Impulse Withstand Voltage	4 kV in isolating function 6 kV IEC 947-1	
Contact 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	
Net Weight	0.24 lb(US) (0.11 kg)	

## **Environment**

Standards	EN 60947-3 power circuit EN 60947-5-1 control circuit CENELEC EN 50013	
Product Certifications	CSA 240 V 1 hp 1 phase CSA 240 V 3 hp 3 phase 2 UL 240 V 1 hp 3 phase UL 240 V 0.33 hp 1 phase 2	
Protective Treatment	TC	
Ambient Air Temperature For Operation	-13131 °F (-2555 °C)	
Ambient Air Temperature For Storage	-40158 °F (-4070 °C)	
Shock Resistance	30 gn IEC 68-2-27	
Vibration Resistance	5 gn 10150 Hz)IEC 68-2-6	
Overvoltage Category	Class II IEC 536 Class II NF C 20-030	

# Ordering and shipping details

Category	18406-WORLD SERVICE PARTS(OTHER OP INT)	
Discount Schedule	CS2	
Gtin	3389110476873	
Returnability	No	
Country Of Origin	CZ	

# **Contractual warranty**

Warranty 18 months



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**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

## Well-being performance

<b>⊘</b>	Reach Free Of Svhc	
<b>⊘</b>	Toxic Heavy Metal Free	
<b>⊘</b>	Mercury Free	
<b>⊘</b>	Rohs Exemption Information	Yes

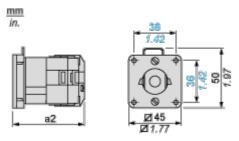
### **Certifications & Standards**

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**

## **Body with Plastic Base**

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



a2 59 mm/2.32 in.

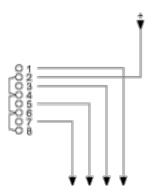
#### K1D028B

**Technical Description** 

#### **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.



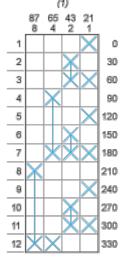
## **Angular Position of Switch**



#### **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).

Example:

