

K1C024BL

body for BCD encoded output switch - 1 pole - 45° -
12 A - screw mounting



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°
Mounting location	Front
Fixing mode	Multifixing
Bezel material	Plastic

Complementary

Number of decimal	4
Switching angle	45 °
[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	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 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 / 500 - 660 V 3 phases conforming to IEC 947-3
[Ie] 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
Contact operation	Slow-break
Positive opening	With

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of 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.

Electrical connection	Captive screw clamp terminals flexible, 2 x 1.5 mm ² Captive screw clamp terminals solid, 1 x 2.5 mm ²
Mechanical durability	1000000 cycles
Product weight	0.121 kg

Environment

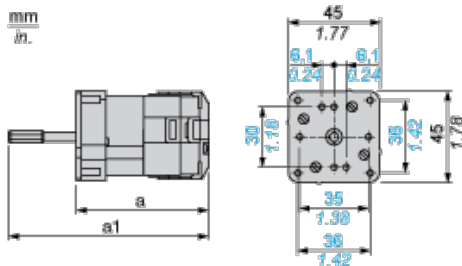
standards	CENELEC EN 50013 EN 60947-3 for power circuit EN 60947-5-1 for control circuit IEC 60947-3 for power circuit IEC 60947-5-1 for control circuit
product certifications	CSA 240 V 1 hp 1 phase CSA 240 V 3 hp 3 phases 2 -pole(s) UL 240 V 1 hp 3 phases UL 240 V 0.33 hp 1 phase 2 -pole(s)
protective treatment	TC
ambient air temperature for operation	-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
overvoltage category	Class II conforming to IEC 536 Class II conforming to NF C 20-030

Contractual warranty

Warranty period	18 months
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Body

Front Mounting "Multi-Fixing", 2 or 4 Screws



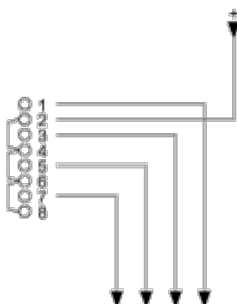
a 63 mm/2.48 in.

a1 87 mm/3.42 in.

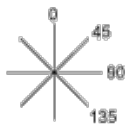
Link Positions (Factory Mounted)

Diagram for 1 to 12-decimal BCD Encoded Output Switches

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



Angular Position of Switch



Switching Program

Diagram for 1 to 6-decimal BCD Encoded Output Switches

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

(1)

	87	65	43	21	
	8	4	2	1	
1				X	0
2			X		45
3			X	X	90
4	X				135
5	X	X		X	180
6	X	X	X		225

(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:

