

# Product data sheet

## Characteristics

# K50C003HP

cam switch - 3-pole - 90° - 50 A - screw mounting



### Main

Range of Product	Harmony K
Product or Component Type	Complete cam switch
Component name	K50
[Ith] conventional free air thermal current	50 A
Product mounting	Front mounting
Fixing Mode	4 holes
Cam switch head type	With front plate 64 x 64 mm
Type of operator	Black handle
Rotary handle padlocking	Without
Presentation of legend	With metallic, OFF-ON black
Cam switch function	Switch
Return	Without
Off position	With Off position
Poles description	3P
Switching positions	Right: 0° - 90°
IP degree of protection	IP40 IEC 529 IP40 NF C 20-010

### Complementary

Switching angle	90 °
[Ui] rated insulation voltage	690 V 3)EN 60947-1 690 V 3)IEC 60947-1
Short-circuit current	5000 A
Short-circuit protection	63 A cartridge fuse gG
[Uiimp] rated impulse withstand voltage	6 KV EN 947-1 6 kV IEC 947-1
Contact operation	Slow-break
Positive opening	With
Electrical connection	Captive screw clamp terminals flexible 2 x 6 mm <sup>2</sup> Captive screw clamp terminals solid 2 x 10 mm <sup>2</sup>
Tightening torque	17.70 lbf.in (2 N.m)

Switching capacity in mA	15000 mA DC 120 V 2 inductive 50 ms) 15000 mA DC 180 V 3 inductive 50 ms) 15000 mA DC 60 V 1 inductive 50 ms) 20000 mA DC 140 V 3 inductive 50 ms) 20000 mA DC 48 V 1 inductive 50 ms) 20000 mA DC 95 V 2 inductive 50 ms) 30000 mA DC 30 V 1 inductive 50 ms) 30000 mA DC 60 V 2 inductive 50 ms) 30000 mA DC 90 V 3 inductive 50 ms) 3500 mA DC 110 V 1 inductive 50 ms) 3500 mA DC 220 V 2 inductive 50 ms) 3500 mA DC 330 V 3 inductive 50 ms) 37000 mA DC 120 V 2 resistive 1 ms) 37000 mA DC 180 V 3 resistive 1 ms) 37000 mA DC 60 V 1 resistive 1 ms) 40000 mA DC 140 V 3 resistive 1 ms) 40000 mA DC 24 V 1 inductive 50 ms) 40000 mA DC 48 V 1 resistive 1 ms) 40000 mA DC 48 V 2 inductive 50 ms) 40000 mA DC 70 V 3 inductive 50 ms) 40000 mA DC 95 V 2 resistive 1 ms) 50000 mA DC 24 V 1 resistive 1 ms) 50000 mA DC 48 V 2 resistive 1 ms) 50000 mA DC 70 V 3 resistive 1 ms)
Mechanical durability	300000 cycles
CAD overall width	2.52 in (64 mm)
CAD overall height	2.52 in (64 mm)
CAD overall depth	4.06 in (103 mm)
Net Weight	0.61 lb(US) (0.275 kg)

## Environment

Standards	EN/IEC 60947-3
Product certifications	CULus 120 V 3 hp 1 phase CULus 480 V 25 hp 3 phase CULus 240 V 7.5 hp 1 phase CULus 240 V 7.5 hp 3 phase
Protective treatment	TC
Ambient Air Temperature for Operation	-13...131 °F (-25...55 °C)
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Electrical shock protection class	Class II IEC 60536 Class II NF C 20-030

## Ordering and shipping details

Category	21446-9003 K CAM SWITCHES
Discount Schedule	CS1
GTIN	3389110079883
Nbr. of units in pkg.	1
Package weight(Lbs)	9.45 oz (268.0 g)
Returnability	No
Country of origin	AT

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.83 in (7.2 cm)
Package 1 width	2.83 in (7.2 cm)
Package 1 Length	4.53 in (11.5 cm)
Unit Type of Package 2	S03
Number of Units in Package 2	30
Package 2 Weight	18.85 lb(US) (8.548 kg)
Package 2 Height	11.81 in (30 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

## Offer Sustainability

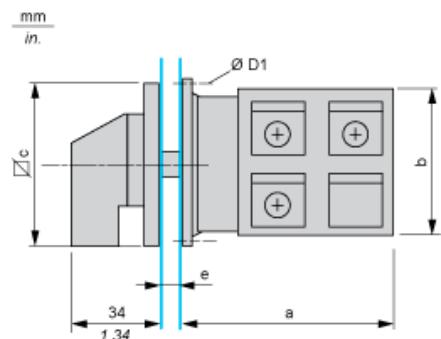
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<input checked="" type="checkbox"/> <a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <input checked="" type="checkbox"/> <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	<input checked="" type="checkbox"/> Yes
China RoHS Regulation	<input checked="" type="checkbox"/> <a href="#">China RoHS Declaration</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

## Contractual warranty

Warranty	18 months
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## Dimensions

### Rear Mounting



e support panel thickness 0.5 to 5.5 mm / 0.02 to 0.22 in in.

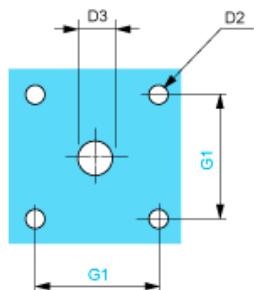
a		b		c		D1	
mm	in.	mm	in.	mm	in.	mm	in.
63.3	2.49	60	2.36	64	2.52	4.1	0.16

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Panel Cut-Out

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Front Mounting



D2		D3		G1	
mm	in.	mm	in.	mm	in.
4.5	0.18	10	0.39	48	1.89

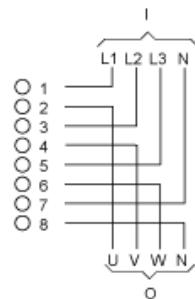
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### Link Positions (Factory Mounted)

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#### Diagram for 3 to 4-pole Switches

Select the number of poles according to the product characteristics

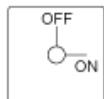


I      Input  
O      Output

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### Marking

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### Angular Position of Switch

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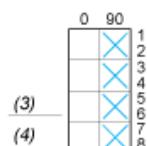
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### Switching Program

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#### Diagram for 3 to 4-pole Switches

Select the number of poles according to the product characteristics



(3) 3-pole  
(4) 4-pole

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### Convention Used for Switching Program Representation

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 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:

