

# K50D004HP

cam switch - 4-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 legend, OFF-ON black marking
Cam switch function	Switch
Return	Without
Off position	With Off position
Poles description	4P
Switching positions	Right: 0° - 90°
IP degree of protection	IP40 conforming to IEC 529 IP40 conforming to NF C 20-010

## Complementary

Switching angle	90 °
[Ui] rated insulation voltage	690 V degree of pollution 3 conforming to EN 60947-1 690 V degree of pollution 3 conforming to IEC 60947-1
Short-circuit current	5000 A
Short circuit protection	63 A by cartridge fuse, type gG
[Uimp] rated impulse withstand voltage	6 kV conforming to EN 947-1 6 kV conforming to IEC 947-1
Contacts 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	2 N.m

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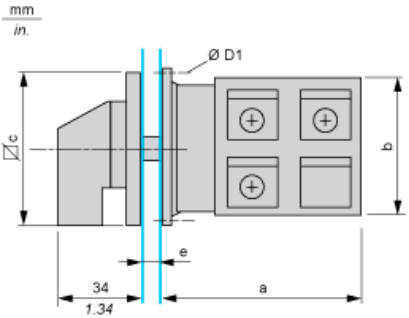
Switching capacity in mA	15000 mA DC at 120 V 2 contact(s) for inductive load (T = 50 ms) 15000 mA DC at 180 V 3 contact(s) for inductive load (T = 50 ms) 15000 mA DC at 60 V 1 contact(s) for inductive load (T = 50 ms) 20000 mA DC at 140 V 3 contact(s) for inductive load (T = 50 ms) 20000 mA DC at 48 V 1 contact(s) for inductive load (T = 50 ms) 20000 mA DC at 95 V 2 contact(s) for inductive load (T = 50 ms) 30000 mA DC at 30 V 1 contact(s) for inductive load (T = 50 ms) 30000 mA DC at 60 V 2 contact(s) for inductive load (T = 50 ms) 30000 mA DC at 90 V 3 contact(s) for inductive load (T = 50 ms) 3500 mA DC at 110 V 1 contact(s) for inductive load (T = 50 ms) 3500 mA DC at 220 V 2 contact(s) for inductive load (T = 50 ms) 3500 mA DC at 330 V 3 contact(s) for inductive load (T = 50 ms) 37000 mA DC at 120 V 2 contact(s) for resistive load (T = 1 ms) 37000 mA DC at 180 V 3 contact(s) for resistive load (T = 1 ms) 37000 mA DC at 60 V 1 contact(s) for resistive load (T = 1 ms) 40000 mA DC at 140 V 3 contact(s) for resistive load (T = 1 ms) 40000 mA DC at 24 V 1 contact(s) for inductive load (T = 50 ms) 40000 mA DC at 48 V 1 contact(s) for resistive load (T = 1 ms) 40000 mA DC at 48 V 2 contact(s) for inductive load (T = 50 ms) 40000 mA DC at 70 V 3 contact(s) for inductive load (T = 50 ms) 40000 mA DC at 95 V 2 contact(s) for resistive load (T = 1 ms) 50000 mA DC at 24 V 1 contact(s) for resistive load (T = 1 ms) 50000 mA DC at 48 V 2 contact(s) for resistive load (T = 1 ms) 50000 mA DC at 70 V 3 contact(s) for resistive load (T = 1 ms)
Mechanical durability	300000 cycles
CAD overall width	64 mm
CAD overall height	64 mm
CAD overall depth	103 mm
Product weight	0.305 kg

## Environment

Standards	EN/IEC 60947-3
Product certifications	CULus 120 V 3 hp 1 phase CULus 480 V 25 hp 3 phases CULus 240 V 7.5 hp 1 phase CULus 240 V 7.5 hp 3 phases
Protective treatment	TC
Ambient air temperature for operation	-25...55 °C
Ambient air temperature for storage	-40...70 °C
Class of protection against electric shock	Class II conforming to IEC 60536 Class II conforming to NF C 20-030
RoHS EUR status	Compliant
RoHS EUR conformity date	0627

Dimensions

Rear Mounting

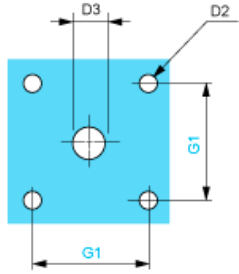


e support panel thickness 0.5 to 5.5 mm / 0.02 to 0.22 in in.

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

Panel Cut-Out

Front Mounting

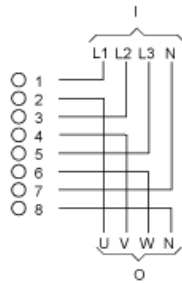


D2	D3	G1			
mm	in.	mm	in.	mm	in.
4.5	0.18	10	0.39	48	1.89

Link Positions (Factory Mounted)

Diagram for 3 to 4-pole Switches

Select the number of poles according to the product characteristics



I Input  
 O Output

Marking



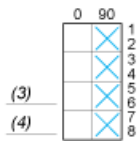
Angular Position of Switch



Switching Program

Diagram for 3 to 4-pole Switches


Select the number of poles according to the product characteristics



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

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:

