Product data sheet
Characteristics

K63C003HP
cam switch - 3-pole - 90° - 63 A - screw mounting

Main

Range of product	Harmony K
Product or component type	Complete cam switch
Component name	K63
[Ith] conventional free air thermal current	63 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 padlock-ing	Without
Presentation of legend	With metallic legend, OFF-ON black marking
Cam switch function	Switch
Return	Without
Off position	With Off position
Poles description	3P
Switching positions	Right: 0° - 90°
IP degree of protection	IP40 conforming to NF C 20-010 IP40 conforming to IEC 529

Complementary

Switching angle	90 °
[Ui] rated insulation voltage	690 V degree of pollution 3 conforming to IEC 60947-1 690 V degree of pollution 3 conforming to EN 60947-1
Short-circuit current	10000 A
Short circuit protection	80 A by cartridge fuse, type gG
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 947-1 6 kV conforming to EN 947-1
Contacts operation	Slow-break
Positive opening	With
Electrical connection	Captive screw clamp terminals solid, 2 x 16 mm² Captive screw clamp terminals flexible, 2 x 10 mm²
Tightening torque	2.5 N.m
Switching capacity in mA	63000 mA DC at 95 V 2 contact(s) for resistive load (T = 1 ms) 63000 mA DC at 70 V 3 contact(s) for resistive load (T = 1 ms) 63000 mA DC at 70 V 3 contact(s) for inductive load (T = 50 ms) 63000 mA DC at 48 V 2 contact(s) for resistive load (T = 1 ms) 63000 mA DC at 48 V 2 contact(s) for inductive load (T = 50 ms) 63000 mA DC at 48 V 1 contact(s) for resistive load (T = 1 ms) 63000 mA DC at 24 V 1 contact(s) for resistive load (T = 1 ms) 63000 mA DC at 24 V 1 contact(s) for inductive load (T = 50 ms) 63000 mA DC at 140 V 3 contact(s) for resistive load (T = 1 ms) 55000 mA DC at 90 V 3 contact(s) for inductive load (T = 50 ms) 55000 mA DC at 60 V 2 contact(s) for inductive load (T = 50 ms) 55000 mA DC at 30 V 1 contact(s) for inductive load (T = 50 ms) 30000 mA DC at 60 V 1 contact(s) for resistive load (T = 1 ms) 30000 mA DC at 180 V 3 contact(s) for resistive load (T = 1 ms) 30000 mA DC at 120 V 2 contact(s) for resistive load (T = 1 ms) 20000 mA DC at 95 V 2 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 140 V 3 contact(s) for inductive load (T = 50 ms)
Mechanical durability	300000 cycles
CAD overall width	64 mm

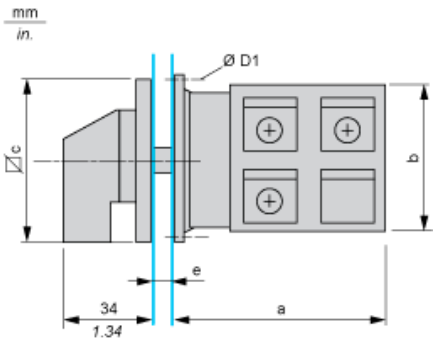
CAD overall height	64 mm
CAD overall depth	111 mm
Product weight	0.345 kg

Environment

Standards	EN/IEC 60947-3
Product certifications	CULus 240 V 7.5 hp 1 phase CULus 480 V 25 hp 3 phases CULus 240 V 10 hp 3 phases CULus 120 V 3 hp 1 phase
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 NF C 20-030 Class II conforming to IEC 60536

Dimensions

Rear Mounting

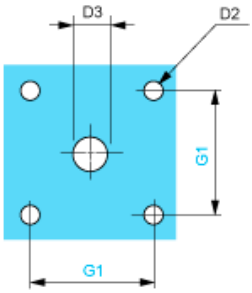


e support panel thickness 0.5 to 5.5 mm / 0.02 to 0.22 in in.

a		b		c		D1	
mm	in.	mm	in.	mm	in.	mm	in.
71.3	2.81	66	2.60	64	2.52	5.4	0.21

Panel Cut-Out

Front Mounting

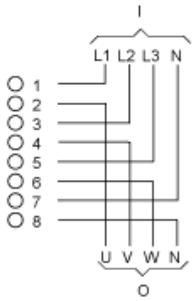


D2		D3		G1	
mm	in.	mm	in.	mm	in.
4.5	0.18	10	0.39	48	1.89

Link Positions (Factory Mounted)

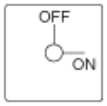
Diagram for 3 to 4-pole Switches

Select the number of poles according to the product characteristics



I Input
O Output

Marking

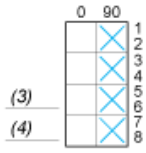


Angular Position of Switch

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: