



Main

Range of product	Harmony K
Product or component type	Complete cam switch
Component name	K50
[I _{th}] 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, 0 - 1 - 2 black marking
Cam switch function	2-speed motor pole change switch
Return	Without
Motor type	Tapped Dahlander winding
Off position	With Off position
Poles description	3P
Switching positions	Right: 300° - 0° - 60°
IP degree of protection	IP40 conforming to NF C 20-010 IP40 conforming to IEC 529

Complementary

Switching angle	60 °
[U _i] 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	5000 A
Short circuit protection	63 A by cartridge fuse, type gG
[U _{imp}] 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 10 mm ² Captive screw clamp terminals flexible, 2 x 6 mm ²
Tightening torque	2 N.m

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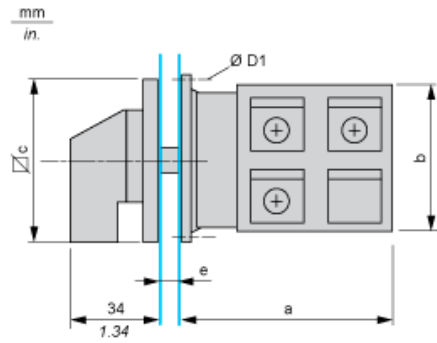
Switching capacity in mA	50000 mA DC at 70 V 3 contact(s) for resistive load (T = 1 ms) 50000 mA DC at 48 V 2 contact(s) for resistive load (T = 1 ms) 50000 mA DC at 24 V 1 contact(s) for resistive load (T = 1 ms) 40000 mA DC at 95 V 2 contact(s) for resistive load (T = 1 ms) 40000 mA DC at 70 V 3 contact(s) for inductive load (T = 50 ms) 40000 mA DC at 48 V 2 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 24 V 1 contact(s) for inductive load (T = 50 ms) 40000 mA DC at 140 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) 37000 mA DC at 180 V 3 contact(s) for resistive load (T = 1 ms) 37000 mA DC at 120 V 2 contact(s) for resistive load (T = 1 ms) 3500 mA DC at 330 V 3 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 110 V 1 contact(s) for inductive load (T = 50 ms) 30000 mA DC at 90 V 3 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 30 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) 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) 15000 mA DC at 60 V 1 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 120 V 2 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	138 mm
Product weight	0.61 kg

Environment

Standards	EN/IEC 60947-3
Product certifications	CULus 240 V 7.5 hp 3 phases CULus 240 V 7.5 hp 1 phase CULus 480 V 25 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

Front Mounting

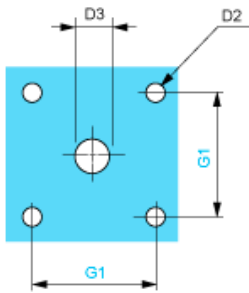


e support panel thickness 0.5 to 5.5 mm / 0.02 to 0.22 in in.

a		b		c		D1	
mm	in.	mm	in.	mm	in.	mm	in.
98.3	3.87	60	2.36	64	2.52	4.1	0.16

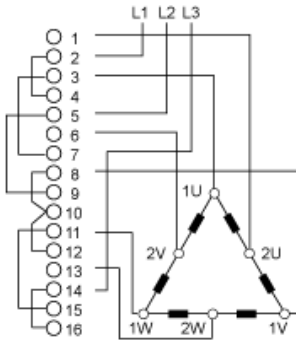
Panel Cut-Out

Front Mounting

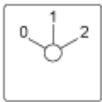


D2		D3		G1	
mm	in.	mm	in.	mm	in.
4.5	0.18	10	0.39	48	1.89

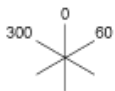
Link Positions (Factory Mounted)



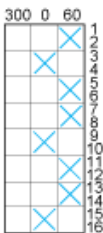
Marking



Angular Position of Switch



Switching Program



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:

