



Main

Range of product	Harmony K
Product or component type	Complete cam switch
Component name	K115
[I _{th}] conventional free air thermal current	115 A
Product mounting	Front mounting
Fixing mode	4 holes
Cam switch head type	With front plate 88 x 88 mm
Type of operator	Black handle
Rotary handle padlocking	Without
Presentation of legend	With metallic legend, 0 - 1 black marking
Cam switch function	Switch
Return	Without
Off position	With Off position
Poles description	4P
Switching positions	Right: 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
Rated operational power in W	7500 W AC-3 / 220/240 V 1 phase conforming to EN/IEC 60947-3 65000 W AC-23A / 660/690 V 3 phases conforming to EN/IEC 60947-3 5500 W AC-23A / 110 V 1 phase conforming to EN/IEC 60947-3 45000 W AC-23A / 380/440 V 3 phases conforming to EN/IEC 60947-3 3700 W AC-3 / 110 V 1 phase conforming to EN/IEC 60947-3 30000 W AC-3 / 660/690 V 3 phases conforming to EN/IEC 60947-3 30000 W AC-3 / 380/440 V 3 phases conforming to EN/IEC 60947-3 30000 W AC-23A / 220/240 V 3 phases conforming to EN/IEC 60947-3 22000 W AC-23A / 380/440 V 1 phase conforming to EN/IEC 60947-3 15000 W AC-3 / 220/240 V 3 phases conforming to EN/IEC 60947-3 15000 W AC-23A / 220/240 V 1 phase conforming to EN/IEC 60947-3 13000 W AC-3 / 380/440 V 1 phase conforming to EN/IEC 60947-3
[I _e] rated operational current AC	100 A AC-21A conforming to EN/IEC 60947-3
Short-circuit current	15000 A
Short circuit protection	125 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 35 mm ² Captive screw clamp terminals flexible, 2 x 25 mm ²
Tightening torque	2.5 N.m

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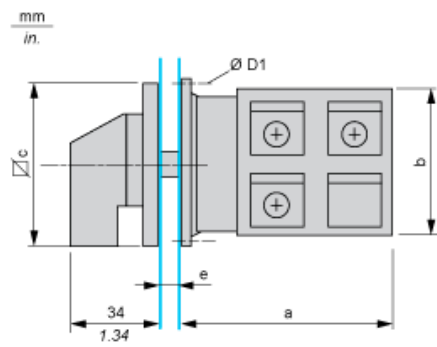
Switching capacity in mA	33000 mA DC at 90 V 3 contact(s) for inductive load (T = 50 ms) 33000 mA DC at 60 V 2 contact(s) for inductive load (T = 50 ms) 33000 mA DC at 30 V 1 contact(s) for inductive load (T = 50 ms) 115000 mA DC at 70 V 3 contact(s) for resistive load (T = 1 ms) 115000 mA DC at 48 V 2 contact(s) for resistive load (T = 1 ms) 115000 mA DC at 24 V 1 contact(s) for resistive load (T = 1 ms) 100000 mA DC at 95 V 2 contact(s) for resistive load (T = 1 ms) 100000 mA DC at 70 V 3 contact(s) for inductive load (T = 50 ms) 100000 mA DC at 48 V 2 contact(s) for inductive load (T = 50 ms) 100000 mA DC at 48 V 1 contact(s) for resistive load (T = 1 ms) 100000 mA DC at 24 V 1 contact(s) for inductive load (T = 50 ms) 100000 mA DC at 140 V 3 contact(s) for resistive load (T = 1 ms)
Mechanical durability	300000 cycles
CAD overall width	88 mm
CAD overall height	88 mm
CAD overall depth	128 mm
Product weight	0.745 kg

Environment

Standards	EN/IEC 60947-3
Product certifications	CULus 480 V 30 hp 3 phases CULus 240 V 20 hp 3 phases CULus 240 V 10 hp 1 phase CULus 120 V 5 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

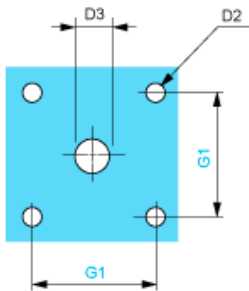


e support panel thickness 0.5 to 5.5 mm / 0.02 to 0.22 in.

a		b		c		D1	
mm	in.	mm	in.	mm	in.	mm	in.
88	3.46	84	3.30	88	3.46	5.4	0.21

Panel Cut-Out

Front Mounting

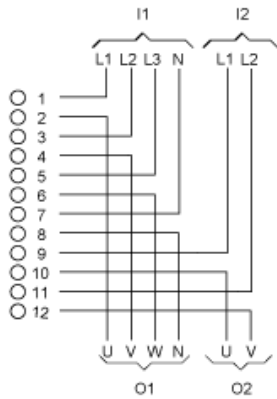


D2		D3		G1	
mm	in.	mm	in.	mm	in.
6	0.24	13	0.51	68	2.68

Link Positions (Factory Mounted)

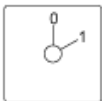
Diagram for 1 to 6-pole Switches

Select the number of poles according to the product characteristics



- I1 Input 1
- I2 Input 2
- O1 Output 1
- O2 Output 2

Marking



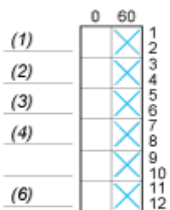
Angular Position of Switch



Switching Program

Diagram for 1 to 6-pole Switches


Select the number of poles according to the product characteristics





- (1) 1-pole
- (2) 2-pole
- (3) 3-pole
- (4) 4-pole
- (6) 6-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:

