Product data sheet
Characteristics

K115C503HP
cam switch - 3-pole - 90° - 115 A - rear mounting

Main

Range of product	Harmony K
Product or component type	Complete cam switch
Component name	K115
[Ith] conventional free air thermal current	115 A
Product mounting	Rear 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, 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 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
Rated operational power in W	65000 W AC-23A / 660/690 V 3 phases conforming to EN/IEC 60947-3 15000 W AC-23A / 220/240 V 1 phase conforming to EN/IEC 60947-3 22000 W AC-23A / 380/440 V 1 phase conforming to EN/IEC 60947-3 13000 W AC-3 / 380/440 V 1 phase conforming to EN/IEC 60947-3 45000 W AC-23A / 380/440 V 3 phases 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 7500 W AC-3 / 220/240 V 1 phase conforming to EN/IEC 60947-3 5500 W AC-23A / 110 V 1 phase conforming to EN/IEC 60947-3 15000 W AC-3 / 220/240 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-23A / 220/240 V 3 phases conforming to EN/IEC 60947-3

[Ie] 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
[Uimp] rated impulse withstand voltage	6 kV conforming to EN 947-1 6 kV conforming to IEC 947-1
Contact operation	Slow-break
Positive opening	With
Electrical connection	Captive screw clamp terminals flexible, 1 x 25 mm² Captive screw clamp terminals solid, 1 x 35 mm²
Tightening torque	2.5 N.m
Switching capacity in mA	100000 mA DC at 140 V 3 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 48 V 1 contact(s) for resistive load (T = 1 ms) 100000 mA DC at 48 V 2 contact(s) for inductive load (T = 50 ms) 100000 mA DC at 70 V 3 contact(s) for inductive load (T = 50 ms) 100000 mA DC at 95 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) 115000 mA DC at 48 V 2 contact(s) for resistive load (T = 1 ms) 115000 mA DC at 70 V 3 contact(s) for resistive load (T = 1 ms) 33000 mA DC at 30 V 1 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 90 V 3 contact(s) for inductive load (T = 50 ms)
Mechanical durability	300000 cycles
CAD overall width	88 mm
CAD overall height	88 mm
CAD overall depth	281 mm
Product weight	0.72 kg

Environment

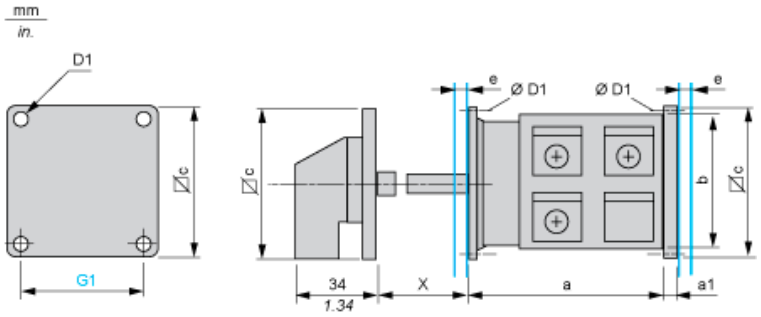
Standards	EN/IEC 60947-3
Product certifications	CULus 120 V 5 hp 1 phase CULus 240 V 10 hp 1 phase CULus 240 V 20 hp 3 phases CULus 480 V 30 hp 3 phases
Protective treatment	TC
Ambient air temperature for operation	-25...55 °C
Ambient air temperature for storage	-40...70 °C
Electrical shock protection class	Class II conforming to NF C 20-030 Class II conforming to IEC 60536

Contractual warranty

Warranty period	18 months

Dimensions

Rear Mounting

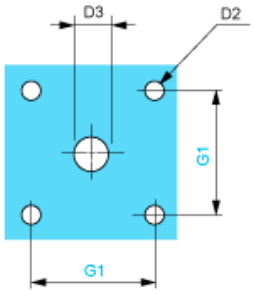


e support panel thickness 0.5 to 5.5 mm / 0.02 to 0.22 in in.

a		a1		b		c		D1		G1		X	
mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
88	3.46	8.9	0.35	84	3.30	88	3.46	5.4	0.21	68	2.68	120 to 150	4.72 to 5.90

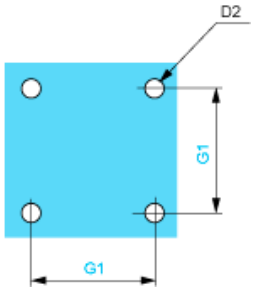
Panel Cut-Out

Front Mounting



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

Rear Mounting

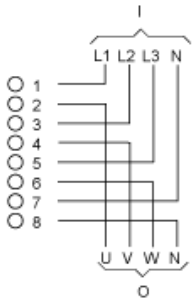


D2		G1	
mm	in.	mm	in.
6	0.24	68	2.68

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

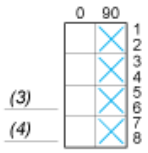
Marking

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: