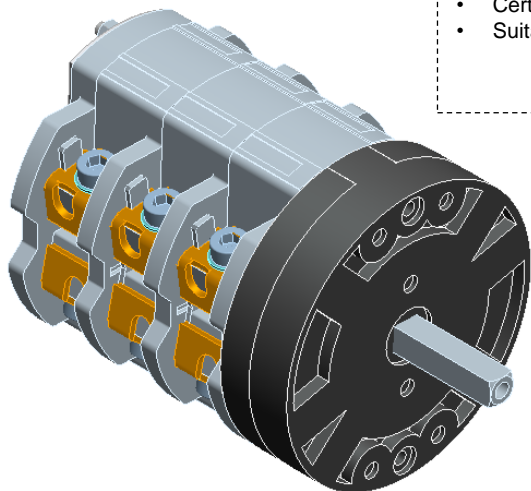


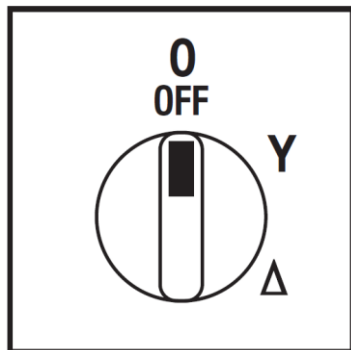
Cod. CA2000010PL4



(purely indicative picture)



**Positions**



**Standard and Approvals**

- Switch according to IEC/EN 60947-3
- Certified UL60947-4-1A and CAN/CSA C22.2 No. 60947-4-1-07
- Suitable as Manual Motor Controller



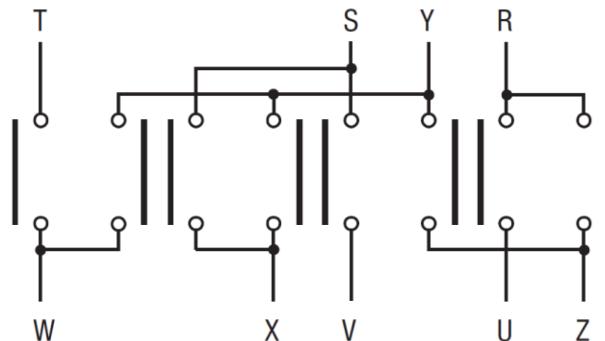
**Technical characteristics**

- STAR-DELTA starter
- IP00 Protection degree
- Rated operational current Ie: 160A (AC-21A)
- Rated thermal current Ith: 200A
- Rated insulation voltage Ui: 690V
- Panel mounting
- Switching angle: 60°
- Self-extinguishing thermosetting/thermoplastic class V2 housing
- Assembled with metal shaft and threaded stud bolts to ensure maximum operating reliability
- Positive opening double break contacts, made of silver and alloy

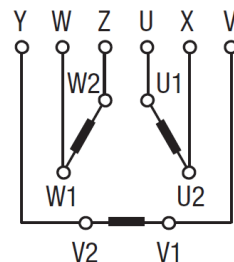
**Technical characteristics: Plate and knob**

- Transparent plate 130x130mm and black knob
- IP40 Protection degree
- Fixing with 4 screws at 30x90mm

**Electrical diagram and function**



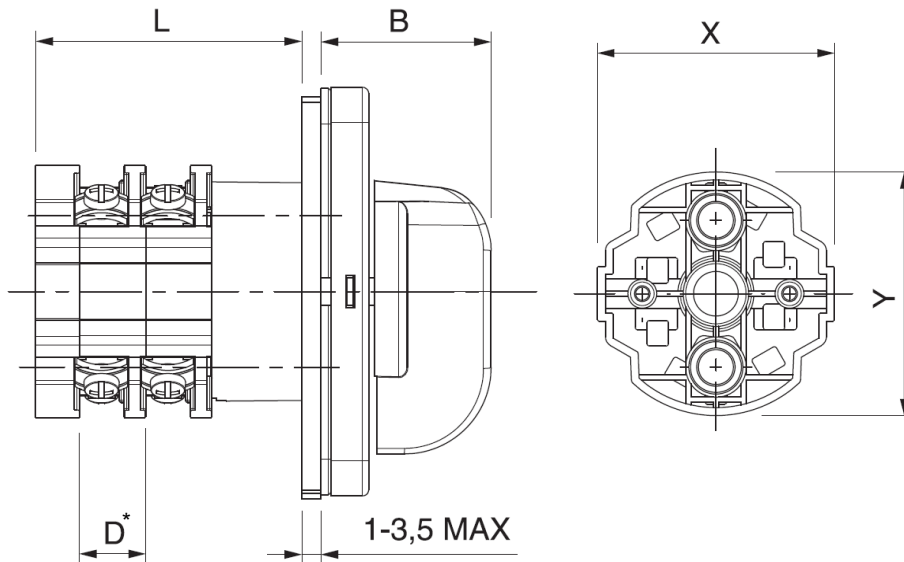
	Δ	X	X	X		X	X	X	CR	60°							
	Y	X			X	X	X	CA									
	0							CQ									
Contact	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Angle
Element	1			2			3			4							



**Cod. CA2000010PL4**

Measures in mm (in)

**Dimensions**

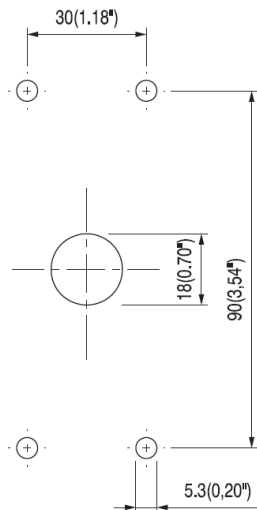


Handle	B
PL3	44 (1,73")
<b>PL4</b>	<b>62 (2,44")</b>
PL5	63 (2,48")
PL9	73 (2,87")
3N3-3L3	44 (1,73")
RL6-RK6	39 (1,54")

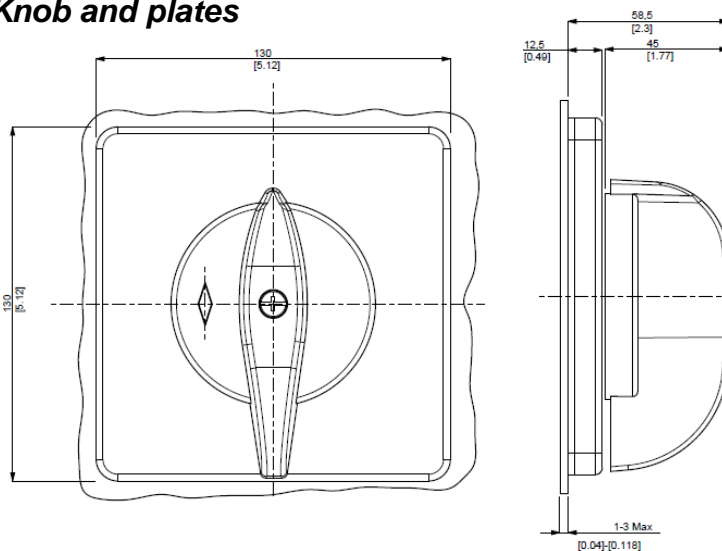
X	Y	D	L	no. of stages					
				1	2	3	<b>4</b>	5	6
-	∅ 110	39		90	129	168	<b>207</b>	246	285
-	∅ (4,33")	(1,54")		(3,54")	(5,08")	(6,61")	<b>(8,15")</b>	(9,69")	(11,22")

\* D – size of the single element

**Drilling template**



**Knob and plates**



### Cod. CA2000010PL4

<b>Technical data IEC 947-3 EN 60947-3</b>			
Rated insulation voltage	Ui	V	690
Rated operating voltage	Ue	V	690
Rated impulse withstand voltage	Uimp	kV	6
Rated thermal current for open switch	Ith	A	115
Rated thermal current for enclosed switch	Ithe	A	100
Rated operation frequency		Hz	50/60
Power dissipation for each pole		W	4,7
<b>Rated operating current</b>			
AC-21A Switching resistive loads, including moderate overloads	Ie	A	115/110 <sup>5</sup>
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads	Ie	A	110
AC-20A Connecting and disconnecting under no loads conditions			-
<b>Rated operating power</b>			
AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole	230V	Kw (A)	30 (95)
	400V	Kw (A)	45 ( 85)
	500V	Kw (A)	30 (40)
	690V	Kw (A)	-
AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole	110V	Kw (A)	9 (102)
	230V	Kw (A)	15 (82)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole	230V	Kw (A)	22 (70)
	400V	Kw (A)	37 (67)
	500V	Kw (A)	30 (40)
	690V	Kw (A)	-
AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole	110V	Kw (A)	7,5 (85)
	230V	Kw (A)	11 (60)
	400V	Kw (A)	-
AC-4 Squirrel cage motors: starting, pluggign, inching	230V	Kw (A)	7,5 (85)
	400V	Kw (A)	11 (20)
AC-15 Control of a.c electromagnetic loads	230V	A	-
	400V	A	-
Rated breaking capability in AC-23A (cos φ=0,45)	230V	A	760
	400V	A	680
<b>Short circuit protection</b>			
Rated short time withstand current	Icw	A	1500
Rated short-circuit make capacity	Icm	A	3000
Rated conditional short-circuit current	-	kA	15
With fuses class gG	500V	A	125
<b>Technical data UL/CSA</b>			
Rated operating voltage	Ue	UL/CSA V	600/600
General use current	Ie	UL/CSA A	125/100
Short circuit rating @600Vac		Arms	-
Fuse size (Class RK5, 600Vac, 200kA A.I.C.)		A	-
<b>Rated operating power</b>			
1 phase - 2 pole	120V	Hp (A)	10 (100)/5
	240V	Hp (A)	15 (68)/12
3 phase - 3 pole	200V	Hp (A)	20 (62,1)/-
	240V	Hp (A)	25 (68)/24
	480V	Hp (A)	40(52)/50
	600V	Hp (A)	50(52)/65
<b>Mechanical characteristics</b>			
Mechanical life		Cycles x 10 <sup>6</sup>	0,3
		Cycles/hr	120
<b>Connection according to IEC 9471-1 and EN 50947-1 (Power contacts)</b>			
Connecting capability	With flexible wires	Min-Max	mm <sup>2</sup>
		Min-Max	AWG
	With solid wires	Min-Max	mm <sup>2</sup>
Connection terminal screw dimensions		Type	M8
Screw tightening torque		Nm	2,8
<b>Protection degree IEC 529 EN 60529</b>			
Terminals		IP	00
<b>Ambient conditions</b>			
Operating ambient temperature		°C	-25 ÷ +55
Storage ambient temperature		°C	-30 ÷ +70
Withstand to constant humid according to IEC 60068			2-78
Withstand to cyclic humid according to IEC 60068			2-30

Notes:  
<sup>5</sup> = at 500V