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DS-P0-PX-12-16-20-EN / 09.06.2022
Rev. 3

EN
datasheet

P012... / P016... / P020...
PX12... / PX16... / PX20...

CAM SWITCHES
SIZES: 12 A / 16 A / 20 A

	P012... P016... P020...	PX12... PX16... PX20...
Specifications	p.2	p.2
Terminal protection class	 IP20	 IP10
R Rear panel mounting	 p.5	 p.6
B Base mounting DIN rail mounting	 p.7	-
D DIN mounting 46 mm with actuator (equipped with typical actuator p.n. 027/....)	 p.8	-

Code reading

Cam switch series (this datasheet)

Cam switch electrical scheme (see p.9)

Cam switch mounting type

Code example

P	0	1	2	0	0	0	1	R

Cam switch series

Cam switch electrical scheme

Cam switch mounting type

SEE AVAILABLE ACTUATORS ON p.16

SPECIFICATIONS

General characteristics

Protection class	control	EN 60529 UL50 / NEMA	IP65 Type 1 - 4 - 4X	
	control with knob only		IP40	
	terminals		P012... / P016... / P020... PX12... / PX16... / PX20...	IP20 IP10
Material group		EN 60947-1	II	
Pollution grade		EN 60947-1	3	
Flammability		UL94	V0 (live electrical parts)	
Ambient temperature	operating storage		-40 ... +85°C -40 ... +70°C	
Climate withstand		IEC 68 part 2-3 IEC 68 part 2-30	damp heat, steady state damp heat, cyclic	
Terminal screw identification	conforming to		EN50013	
Connections	terminal block caliber	EN60947-1	A3	
	terminal screw		M3.5	
	tightening torque	EN60947-1 UL508	0.8 N·m (7.2 lb·in) 7.5 lb·in (0.85 N·m)	
Connectable section	flexible conductors		1 × 0.75 ... 4 mm² or 2 × 0.75 ... 2.5 mm² AWG 18 ... 10	
	solid conductors		1 × 0.75 ... 4 mm² or 2 × 0.75 ... 2.5 mm² AWG 18 ... 10	
Contacts			double breaking	
Opening angles			30° - 45° - 60° - 90°	
Mechanical lifetime	@ 120 operations / hour		1 million cycles	
Electrical lifetime	@ 120 operations / hour		P012... / PX12... 1 million cycles P016... / PX16... 0.75 million cycles P020... / PX20... 0.75 million cycles	

EN 60947-3 characteristics

		P012... / PX12...	P016... / PX16...	P020... / PX20...
Rated operating voltage	Ue	690 V	690 V	690 V
Rated insulation voltage	Ui	690 V	690 V	690 V
Rated impulse withstand voltage (sectionable)	Uimp	4 kV	4 kV	4 kV
Rated thermal current	Ith	16 A	20 A	25 A
Rated enclosed thermal current	Ithe	12 A	16 A	20 A
Frequency		50/60 Hz	50/60 Hz	50/60 Hz

Alternate current

Rated operating current		Ie		P012... / PX12...		P016... / PX16...		P020... / PX20...	
AC-21A	Switching of resistive loads, including moderate overloads		690 V	12 A		16 A		20 A	
AC-22A	Switching of mixed resistive and inductive loads, including moderate overloads		690 V	12 A		16 A		20 A	
AC-23A	Switching of motor loads or other highly inductive loads	1 phase - 1 pole	110 V	12 A	1.1 kW	14 A	1.5 kW	18 A	2 kW
			230 V	12 A	2.2 kW	14 A	3 kW	18 A	4 kW
		3 phases - 3 poles	230 V	10 A	3 kW	14 A	3 kW	16 A	5 kW
			400 V	10 A	5.5 kW	14 A	7.5 kW	16 A	9 kW
			500 V	10 A	7.5 kW	14 A	10 kW	16 A	11 kW
			690 V	10 A	7.5 kW	14 A	10 kW	16 A	12.5 kW
AC-3	Squirrel-cage motors: starting, switches off motors during running time	1 phase - 1 pole	110 V	10 A	0.75 kW	12 A	1.1 kW	16 A	1.5 kW
			230 V	10 A	2 kW	12 A	2.2 kW	16 A	3.5 kW
		3 phases - 3 poles	230 V	8 A	2.2 kW	10 A	3 kW	12 A	4 kW
			400 V	8 A	4 kW	10 A	5 kW	12 A	6 kW
			500 V	8 A	5.5 kW	10 A	7.5 kW	12 A	8 kW
			690 V	6 A	5.5 kW	8 A	7.5 kW	10 A	9 kW

AC-23A	Nominal breaking capacity (cosφ 0.45)		230 V	80 A		104 A		128 A	
			400 V	80 A		104 A		128 A	
			500 V	80 A		112 A		128 A	
			690 V	80 A		112 A		128 A	
	Power dissipation for each pole			0.3 W		0.35 W		0.4 W	

Direct current

Rated operating current		Ie		P012... / PX12...	P016... / PX16...	P020... / PX20...
DC-21A	Switching resistive loads with light overloads	1 phase	50 V	10 A	12 A	16 A
DC-22A	Switching resistive loads with light overloads	1 phase	30 V	8 A	10 A	12 A

Short circuit characteristics

		P012... / PX12...	P016... / PX16...	P020... / PX20...
Rated short-time short circuit withstand current (1 s)	Icw	300 A	300 A	300 A
Rated short circuit making capacity	Icm	1200 A	1200 A	1200 A
Conditional rated short circuit withstand current		5 kA	5 kA	5 kA
Fuse rating (type gG)	690 V	20 A	20 A	20 A

UL 508 characteristics

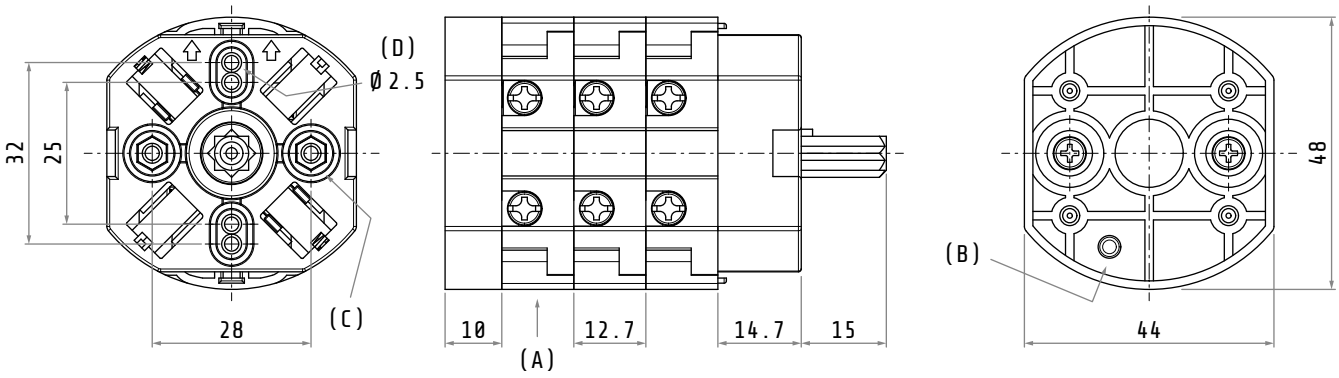
			P012... / PX12...		P016... / PX16...		P020... / PX20...	
General use		600 V AC	12 A		16 A		20 A	
Standard motor load	1 phase - 2 poles	120 V AC	0.5 HP	9.8 FLA	1 HP	16 FLA	1.5 HP	20 FLA
		240 V AC	1 HP	8 FLA	1.5 HP	10 FLA	2 HP	12 FLA
	3 phases - 3 poles	200 V AC	1.5 HP	6.9 FLA	3 HP	11.04 FLA	5 HP	17.5 FLA
		240 V AC	3 HP	9.6 FLA	5 HP	15.2 FLA	5 HP	15.2 FLA
		480 V AC	5 HP	7.6 FLA	7.5 HP	11 FLA	10 HP	14 FLA
		600 V AC	5 HP	6.1 FLA	7.5 HP	9 FLA	10 HP	11 FLA

Marking

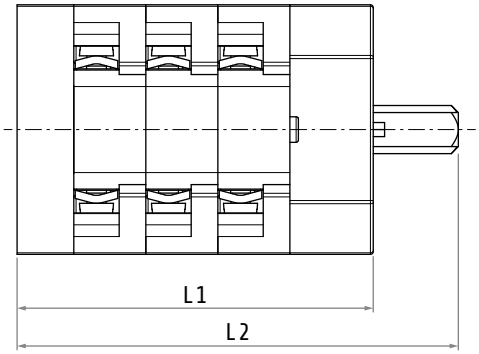
Compliance by passed test	Approved
CE	cULus, EAC

OVERALL DIMENSIONS

Rear panel mounting **P012... / P016... / P020...**



Terminal protection class IP20



Dimensions in mm
Illustrations NOT in scale

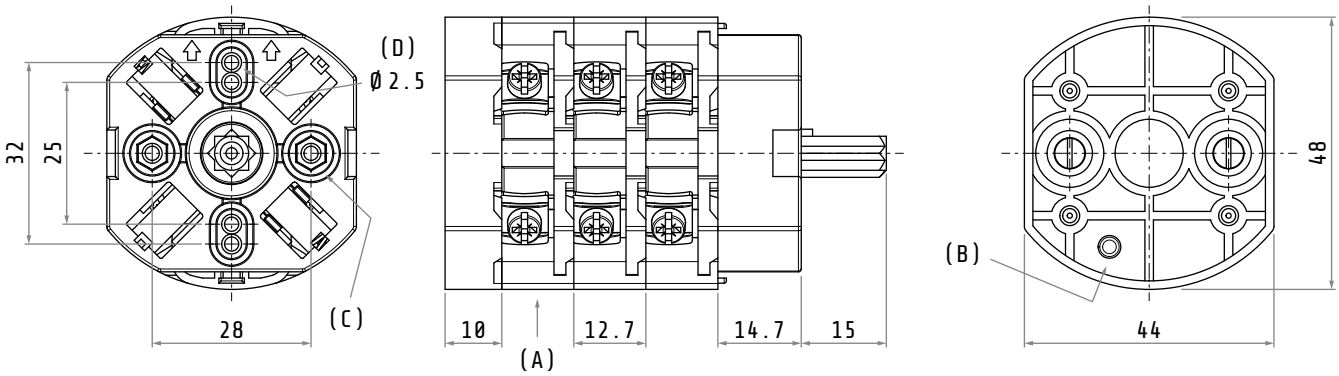
(A)	wafer (thickness = 12.7 mm)
(B)	reference notch
(C)	metric screw (M3) fixing hole
(D)	self tapping screw (Ø 3.2) fixing hole

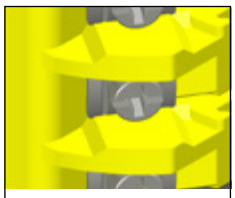
Some dimensions depend on the number of wafers of the cam switch and can be calculated with these formulas:

L1 [mm]	10 + (12.7 × n. of wafers) + 14.7
L2 [mm]	L1 + 15

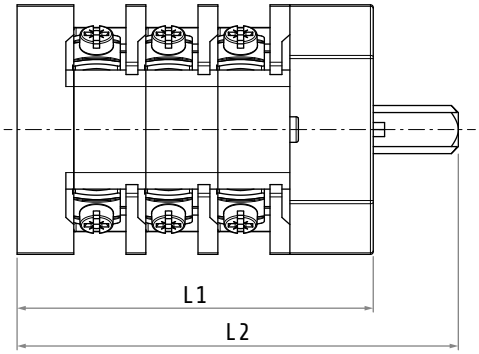
Examples:

n. of wafers	1	2	3	4	5	6
L1 [mm]	37.4	50.1	62.8	75.5	88.2	100.9
L2 [mm]	52.4	65.1	77.8	90.5	103.2	115.9





Terminal protection class IP10



Dimensions in mm
Illustrations NOT in scale

(A)	wafer (thickness = 12.7 mm)
(B)	reference notch
(C)	metric screw (M3) fixing hole
(D)	self tapping screw (Ø 3.2) fixing hole

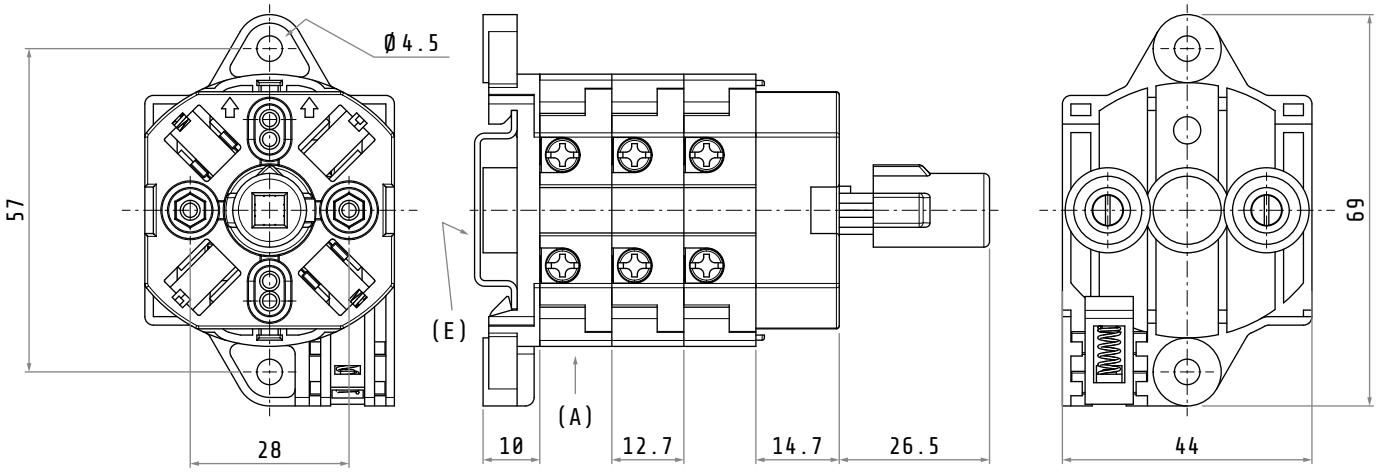
Some dimensions depend on the number of wafers of the cam switch and can be calculated with these formulas:

L1 [mm]	10 + (12.7 × n. of wafers) + 14.7
L2 [mm]	L1 + 15

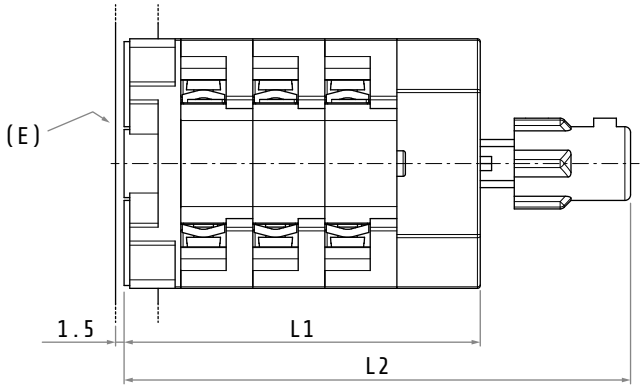
Examples:

N. of wafers	1	2	3	4	5	6
L1 [mm]	37.4	50.1	62.8	75.5	88.2	100.9
L2 [mm]	52.4	65.1	77.8	90.5	103.2	115.9

Base mounting / DIN rail mounting P012... / P016... / P020...



Terminal protection class IP20



Dimensions in mm
Illustrations NOT in scale

(A)	wafer (thickness = 12.7 mm)
(E)	DIN rail 35 mm (EN 46277/3)

Some dimensions depend on the number of wafers of the cam switch and can be calculated with these formulas:

L1 [mm]	10 + (12.7 × n. of wafers) + 14.7
L2 [mm]	L1 + 26.5

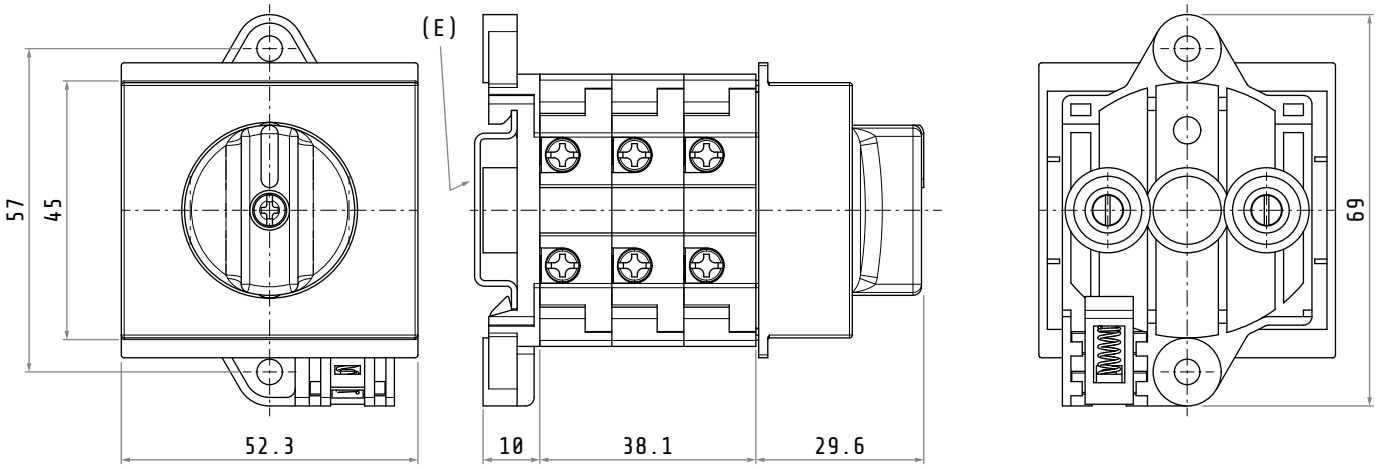
Examples:

N. of wafers	1	2	3	4	5	6
L1 [mm]	37.4	50.1	62.8	75.5	88.2	100.9
L2 [mm]	63.9	76.6	89.3	102	114.7	127.4

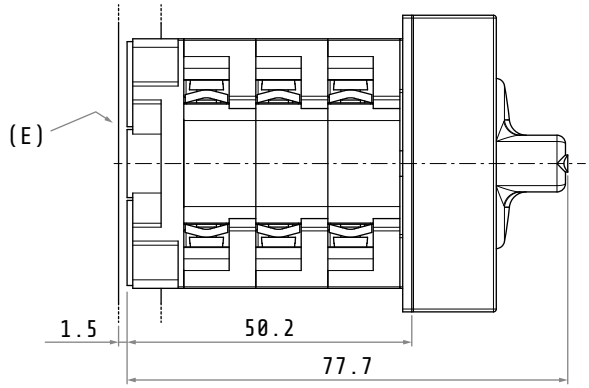
Please note

This configuration allows both base mounting and DIN mounting.

DIN mounting Ø 46 mm with actuator P012... / P016... / P020...



Terminal protection class IP20



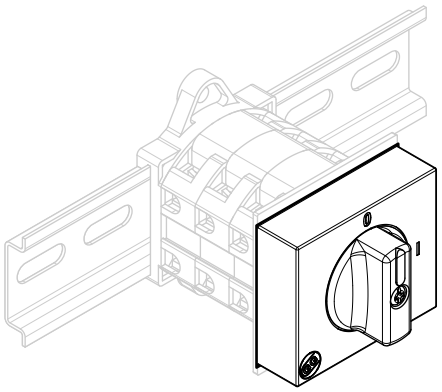
Dimensions in mm
Illustrations NOT in scale

(E)	DIN rail 35 mm (EN 46277/3)

Please note

The standard cam switches for DIN mounting with actuator are built with 3 wafers.

The standard cam switches for DIN mounting with actuator are typically equipped with actuator p.n. 027/.... (separated and to be assembled).



This installation implies DIN rails in 46 mm standard boxes like in the picture on the left.

ELECTRICAL SCHEMES

Code checking pattern

Series				Function				Mounting

Example: cam switch on catalog

P	0	1	2	0	0	0	1	R

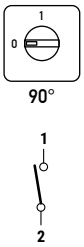
Example: cam switch NOT on catalog

P	0	1	2	0	0	0	1	B

Function		N. of wafers	R P012 / PX12 P016 / PX16 P020 / PX20	B P012 P016 P020	D P012 P016 P020
ON-OFF switches 0-1 p.10					
0001	ON-OFF switch 1 pole	1	×	-	×
0002	ON-OFF switch 2 poles	1	×	×	×
0003	ON-OFF switch 3 poles	2	×	×	×
0004	ON-OFF switch 4 poles	2	×	×	×
0005	ON-OFF switch 5 poles	3	×	-	×
0006	ON-OFF switch 6 poles	3	×	×	×
0007	ON-OFF switch 3 poles with spring return to zero	2	×	-	-
Changeover switches 1-0-2 p.10					
0008	Changeover switch 1 pole	1	×	×	×
0009	Changeover switch 2 poles	2	×	×	×
0010	Changeover switch 3 poles	3	×	×	×
0011	Changeover switch 4 poles	4	×	×	-
Motor switches p.11					
0012	Reversing switch 3 poles	3	×	-	-
0013	Reversing switch 3 poles with spring return to zero	3	×	-	-
0014	Dahlander pole changing two speed switch	4	×	-	-
0015	Star-delta starter switch	4	×	-	-
0016	Reversing switch single phase with centrifugal cut-out	3	×	-	-
0031	Reversing-dahlander pole changing two speed switch	6	×	-	-
0017	Starter switch single phase with auxiliary phase	2	×	-	-
0018	Reversing-starter switch single phase with auxiliary phase	3	×	-	-
Ammeter and voltmeter switches p.12					
0019	Ammeter selector switch 1 pole for 3 current trasformers	3	×	-	×
0020	Voltmeter selector switch phase-neutral	2	×	-	×
0021	Voltmeter selector switch phase-phase	2	×	-	×
0022	Voltmeter selector switch phase-phase for two circuits	4	×	-	-
0023	Voltmeter selector switch phase-phase and phase-neutral	3	×	-	×
0024	Voltmeter selector switch phase-phase and 1 phase-neutral	3	×	-	×
Step switches p.13					
0025	Step switch 1-2 positions without zero 1 pole	1	×	-	-
0026	Step switch 1-2 positions without zero 2 poles	2	×	-	-
0027	Step switch 1-2 positions without zero 3 poles	3	×	-	-
0038	Step switch 1-2-3 positions without zero 1 pole	2	×	-	-
0039	Step switch 1-2-3 positions without zero 2 poles	3	×	-	-
0040	Step switch 1-2-3 positions without zero 3 poles	5	×	-	-
0041	Step switch 1-2-3-4 positions without zero 1 pole	2	×	-	-
0042	Step switch 1-2-3-4 positions without zero 2 poles	4	×	-	-
0043	Step switch 1-2-3-4 positions without zero 3 poles	6	×	-	-
0028	Step switch 0-1-2 positions with zero 1 pole	1	×	-	-
0032	Step switch 0-1-2 positions with zero 2 poles	2	×	-	-
0033	Step switch 0-1-2 positions with zero 3 poles	3	×	-	-
0029	Step switch 0-1-2-3 positions with zero 1 pole	2	×	-	-
0034	Step switch 0-1-2-3 positions with zero 2 poles	3	×	-	-
0035	Step switch 0-1-2-3 positions with zero 3 poles	5	×	-	-
0030	Step switch 0-1-2-3-4 positions with zero 1 pole	2	×	-	-
0036	Step switch 0-1-2-3-4 positions with zero 2 poles	4	×	-	-
0037	Step switch 0-1-2-3-4 positions with zero 3 poles	6	×	-	-

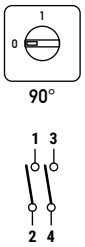
ON-OFF switches 0-1 — 1/1

0001 • 1 pole



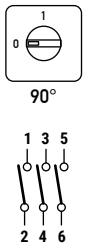
1				
	1-2			×
W	CNT	0		1

0002 • 2 poles



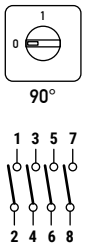
1	3-4			×
	1-2			×
W	CNT	0		1

0003 • 3 poles



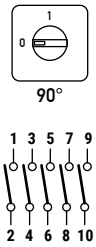
2				
	5-6			×
1	3-4			×
	1-2			×
W	CNT	0		1

0004 • 4 poles



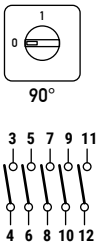
2	7-8			×
	5-6			×
1	3-4			×
	1-2			×
W	CNT	0		1

0005 • 5 poles



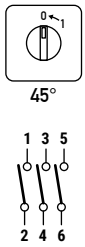
3				
	9-10			×
2	7-8			×
	5-6			×
1	3-4			×
	1-2			×
W	CNT	0		1

0006 • 6 poles



3	11-12			×
	9-10			×
2	7-8			×
	5-6			×
1	3-4			×
	1-2			×
W	CNT	0		1

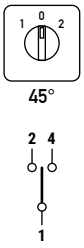
0007 • 3 poles with spring return to zero



2			
	5-6		×
1	3-4		×
	1-2		×
W	CNT	0	1

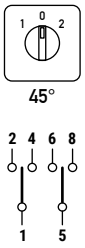
Changeover switches 1-0-2 — 1/1

0008 • 1 pole



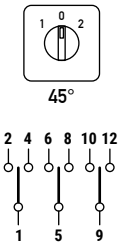
1	3-4			×
	1-2	×		
W	CNT	1	0	2

0009 • 2 poles



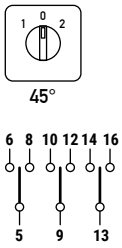
2	7-8			×
	5-6	×		
1	3-4			×
	1-2	×		
W	CNT	1	0	2

0010 • 3 poles



3	11-12			×
	9-10	×		
2	7-8			×
	5-6	×		
1	3-4			×
	1-2	×		
W	CNT	1	0	2

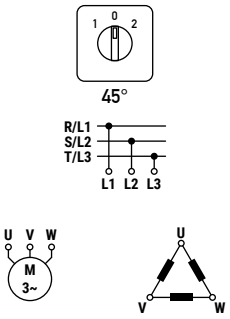
0011 • 4 poles



4	15-16			×
	13-14	×		
3	11-12			×
	9-10	×		
2	7-8			×
	5-6	×		
1	3-4			×
	1-2	×		
W	CNT	1	0	2

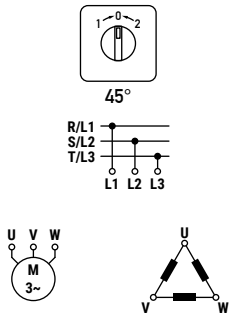
Motor switches 1/1

0012 • Reversing switch 3 poles



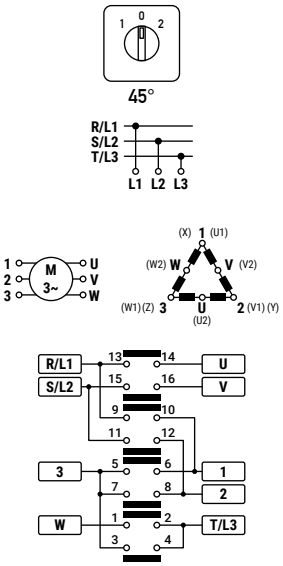
W	CNT	1	0	2
3	9-10	×		×
2	7-8	×		
	5-6			×
1	3-4			×
	1-2	×		

0013 • Reversing switch 3 poles with spring return to zero



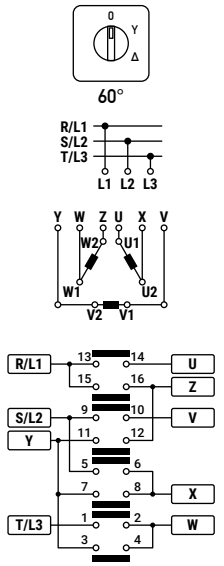
W	CNT	1	0	2
3	11-12			×
	9-10	×		
2	7-8	×		
	5-6			×
1	3-4			×
	1-2	×		

0014 • Dahlander pole changing two speed switch



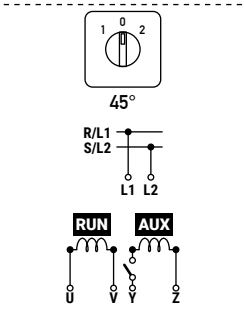
W	CNT	1	0	2
4	15-16			×
	13-14			×
3	11-12	×		
	9-10	×		
2	7-8			×
	5-6			×
1	3-4	×		
	1-2			×

0015 • Star-Delta starter switch



W	CNT	1		Y		Δ
4	15-16					×
	13-14			×	×	×
3	11-12			×		
	9-10			×	×	×
2	7-8			×		
	5-6					×
1	3-4					×
	1-2			×	×	×

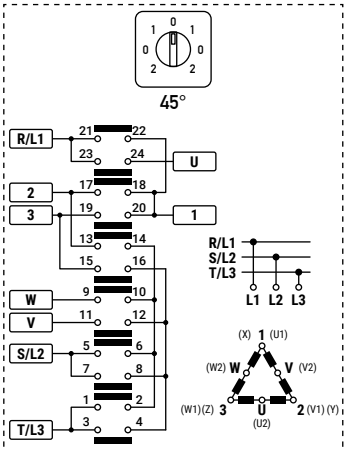
0016 • Reversing switch single phase with centrifugal cut-out



RUN Run winding
AUX Auxiliary winding

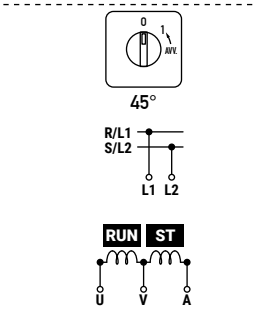
W	CNT	1	0	2
3	11-12	×		
	9-10			×
2	7-8			×
	5-6	×		
1	3-4	×		×
	1-2	×		×

0031 • Reversing-Dahlander pole changing two speed switch



W	CNT	2	0	1	0	1	0	2
6	23-24	×						×
	21-22			×		×		
5	19-20	×						×
	17-18	×						×
4	15-16			×		×		
	13-14			×		×		
3	11-12	×						×
	9-10	×						×
2	7-8					×		×
	5-6	×		×				
1	3-4	×		×				
	1-2					×		×

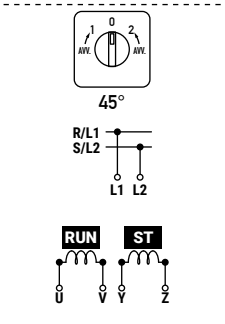
0017 • Starter switch single phase with auxiliary phase



RUN Run winding
ST Starter winding

W	CNT	1	2	AVV.
2	7-8			
	5-6			
1				
	1-2			×

0018 • Reversing-starter switch single phase with auxiliary phase

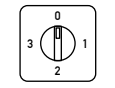


RUN Run winding
ST Starter winding

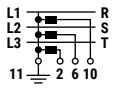
W	CNT	AVV.	1	0	2	AVV.
3	11-12					
	9-10					
2	7-8					×
	5-6	×				
1	3-4					
	1-2					

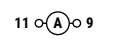
Ammeter and voltmeter switches 1/1

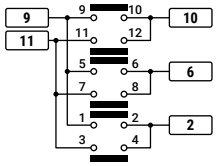
0019 • Ammeter selector switch
1 pole for 3 current trasformers



90°



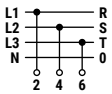


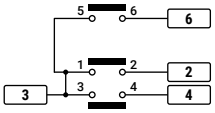


3	11-12	×	×		×	×	×	×	×
	9-10		×	×	×				
2	7-8	×	×	×	×		×	×	×
	5-6					×	×	×	
1	3-4	×	×	×	×	×	×		×
	1-2						×	×	×
W	CNT	0		1		2		3	

0020 • Voltmeter selector
switch phase-neutral

45°

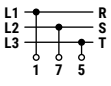


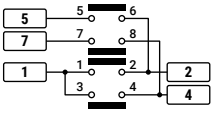


2						
	5-6					×
1	3-4				×	
	1-2			×		
W	CNT	1	L1-N	L2-N	L3-N	

0021 • Voltmeter selector
switch phase-phase

45°

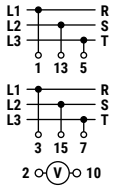


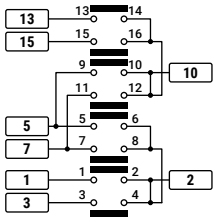


2	7-8	×	×			
	5-6			×	×	
1	3-4				×	
	1-2		×			
W	CNT	1	L1-L2	L2-L3	L3-L1	

0022 • Voltmeter selector switch
phase-phase for two circuits

45°

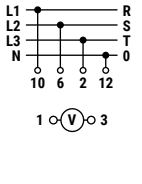


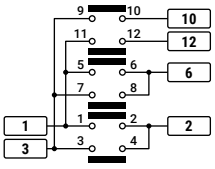


4	15-16		×	×				
	13-14					×	×	
3	11-12	×						
	9-10							×
2	7-8		×					
	5-6						×	
1	3-4	×		×				
	1-2					×		×
W	CNT	L3-L1	L2-L3	L1-L2	0	L3-L1	L2-L3	L1-L2
		1				2		

0023 • Voltmeter selector switch
phase-phase and phase-neutral

45°

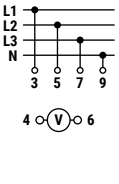


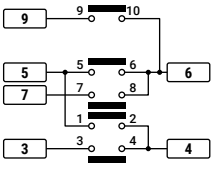


3	11-12					×	×	×
	9-10	×		×		×		
2	7-8			×				
	5-6		×				×	
1	3-4	×	×					
	1-2							×
W	CNT	L3-L1	L2-L3	L1-L2	0	L1-N	L2-N	L1-L2

0024 • Voltmeter selector switch
phase-phase and 1 phase-neutral

45°

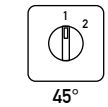




3								
	9-10							×
2	7-8	×	×					
	5-6				×			
1	3-4	×		×		×		
	1-2		×					
W	CNT	L3-L1	L2-L3	L1-L2	0	L1-N		

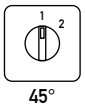
Step switches 1/3

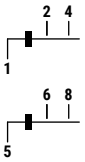
0025 • Step switch 1-2 positions without zero 1 pole



1	3-4		×
	1-2	×	
W	CNT	1	2

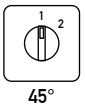
0026 • Step switch 1-2 positions without zero 2 poles

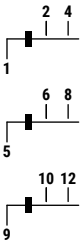




2	7-8		×
	5-6	×	
1	3-4		×
	1-2	×	
W	CNT	1	2

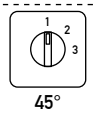
0027 • Step switch 1-2 positions without zero 3 poles

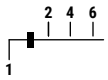




3	11-12		×
	9-10	×	
2	7-8		×
	5-6	×	
1	3-4		×
	1-2	×	
W	CNT	1	2

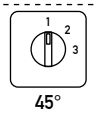
0038 • Step switch 1-2-3 positions without zero 1 pole

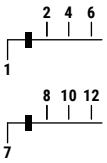




2				
	5-6			×
1	3-4		×	
	1-2	×		
W	CNT	1	2	3

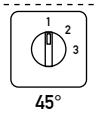
0039 • Step switch 1-2-3 positions without zero 2 poles

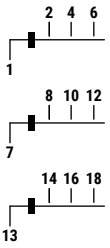




3	11-12			×
	9-10		×	
2	7-8	×		
	5-6			×
1	3-4		×	
	1-2	×		
W	CNT	1	2	3

0040 • Step switch 1-2-3 positions without zero 3 poles

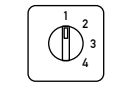


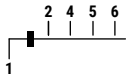


5				
	17-18			×
4	15-16		×	
	13-14	×		
3	11-12			×
	9-10		×	
2	7-8	×		
	5-6			×
1	3-4		×	
	1-2	×		
W	CNT	1	2	3

Step switches 2/3

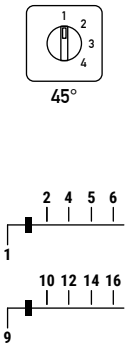
0041 • Step switch 1-2-3-4 positions without zero 1 pole





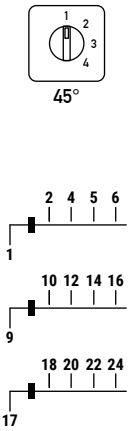
W	CNT	1	2	3	4
2	7-8				×
	5-6			×	
1	3-4		×		
	1-2	×			

0042 • Step switch 1-2-3-4 positions without zero 2 poles



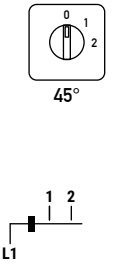
W	CNT	1	2	3	4
4	15-16				×
	13-14			×	
3	11-12		×		
	9-10	×			
2	7-8				×
	5-6			×	
1	3-4		×		
	1-2	×			

0043 • Step switch 1-2-3-4 positions without zero 3 poles



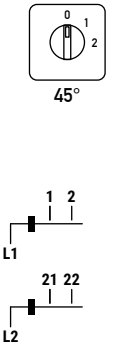
W	CNT	1	2	3	4
6	23-24				×
	21-22			×	
5	19-20		×		
	17-18	×			
4	15-16				×
	13-14			×	
3	11-12		×		
	9-10	×			
2	7-8				×
	5-6			×	
1	3-4		×		
	1-2	×			

0028 • Step switch 0-1-2 positions with zero 1 pole



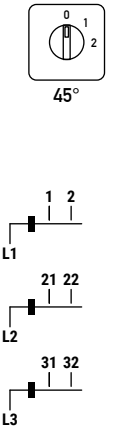
W	CNT	0	1	2
1	3-4			×
	1-2		×	

0032 • Step switch 0-1-2 positions with zero 2 poles



W	CNT	0	1	2
2	7-8			×
	5-6		×	
1	3-4			×
	1-2		×	

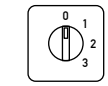
0033 • Step switch 0-1-2 positions with zero 3 poles



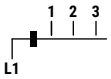
W	CNT	0	1	2
3	11-12			×
	9-10		×	
2	7-8			×
	5-6		×	
1	3-4			×
	1-2		×	

Step switches 3/3

0029 • Step switch 0-1-2-3 positions with zero 1 pole



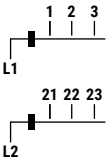
45°



W	CNT	0	1	2	3
2	7-8				×
	5-6		×		
1					
	1-2			×	

0034 • Step switch 0-1-2-3 positions with zero 2 poles

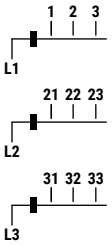
45°



W	CNT	0	1	2	3
3	11-12				×
	9-10		×		
2	7-8			×	
	5-6			×	
1	3-4				×
	1-2		×		

0035 • Step switch 0-1-2-3 positions with zero 3 poles

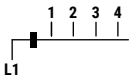
45°



W	CNT	0	1	2	3
5	19-20			×	
4	15-16				×
	13-14		×		
3	11-12				×
	9-10		×		
2	7-8			×	
	5-6			×	
1	3-4				×
	1-2		×		

0030 • Step switch 0-1-2-3-4 positions with zero 1 pole

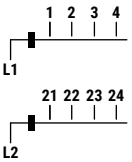
45°



W	CNT	0	1	2	3	4
2	7-8				×	
	5-6		×			
1	3-4					×
	1-2			×		

0036 • Step switch 0-1-2-3-4 positions with zero 2 poles

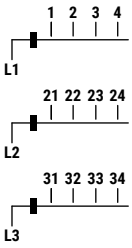
45°



W	CNT	0	1	2	3	4
4	15-16				×	
	13-14		×			
3	11-12					×
	9-10			×		
2	7-8				×	
	5-6		×			
1	3-4					×
	1-2			×		

0037 • Step switch 0-1-2-3-4 positions with zero 3 poles

45°



W	CNT	0	1	2	3	4
6	23-24				×	
	21-22		×			
5	19-20					×
	17-18			×		
4	15-16				×	
	13-14		×			
3	11-12					×
	9-10			×		
2	7-8				×	
	5-6		×			
1	3-4					×
	1-2			×		

Cam switches / actuators matrix

Check the “Operation schemes matrix” (p.17) to identify the available operation scheme for each operator.




Series and size		P012 P016 P020	PX12 PX16 PX20	P012 P016 P020	P012 P016 P020
Terminal protection class		IP20	IP10	IP20	IP20
Mounting type		R		B	D
48×48	Grey/Black				-
screw	IP65	001/...		020/...	-
Ø 22	IP65	056X/...		095/...	-
48×48	Yellow/Red				-
screw	IP65	002/...		030/...	-
Ø 22	IP65	058X/...		070/...	-
48×48	Grey/Black padlock in 0				-
screw	IP65 / 4-4X	003/...		005/...	-
Ø 22	IP65 / 4-4X	-		077/...	
Ø 22	IP65	059X/...		-	-
48×48	Yellow/Red padlock in 0				-
screw	IP65 / 4-4X	004/...		006/...	-
Ø 22	IP65 / 4-4X	-		069/...	-
Ø 22	IP65	060X/...		-	-
ring	Grey/Black with knob			-	-
Ø 22	IP65	028X *		-	-
ring	Grey/Black with key			-	-
Ø 22	IP65	029X *		-	-
ring 48×48	Grey/Black with key			-	-
Ø 22	IP65	057X/...		-	-
45×52	Grey/Black	-		-	
screw	-	-		-	027/...
67×67	Grey/Black max 3 padlocks				-
screw	IP65 / 4-4X	009/...		011/...	-
Ø 22	IP65 / 4-4X	-		063/...	-
Ø 22	IP65	061X/...		-	-
67×67	Yellow/Red max 3 padlocks				-
screw	IP65 / 4-4X	010/...		012/...	-
Ø 22	IP65 / 4-4X	-		064/...	
Ø 22	IP65	062X/...		-	-

* These actuators do not have any operation scheme on the “Operation schemes matrix”.

Operation schemes matrix

Actuator code example: 001/0001

	ON-OFF switches 0-1			Changeover switches 1-0-2 / Motor switches						Step switches						Ammeter switches	Voltmeter switches				
	90°	90°	45°	45°	45°	45°	60°	45°	45°	45°	45°	45°	45°	45°	45°	90°	45°	45°	45°	45°	45°
001/...	0001	0001-1	0007	0008	0017	0013	0015	0018	0031	0025	0028	0038	0029	0041	0030	0019	0020	0021	0022	0023	0024
002/...	0001	0001-1	0007	0008	0017	0013	0015	0018	0031	-	-	-	-	-	-	-	-	-	-	-	-
003/...	0001	0001-1	0007	0008	0017	0013	0015	0018	0031	-	-	-	-	-	-	-	-	-	-	-	-
004/...	0001	0001-1	0007	0008	0017	0013	0015	0018	0031	-	-	-	-	-	-	-	-	-	-	-	-
005/...	0001	0001-1	-	0008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
006/...	0001	0001-1	-	0008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
007/...	0001	0001-1	0007	0008	-	0013	0015	-	0031	0025	0028	0038	0029	0041	0030	-	-	-	-	-	-
008/...	0001	0001-1	0007	0008	-	-	0015	-	0031	-	-	-	-	-	-	-	-	-	-	-	-
009/...	0001	0001-1	-	0008	0017	0013	0015	0018	0031	-	-	-	-	-	-	-	-	-	-	-	-
010/...	0001	0001-1	0007	0008	0017	0013	0015	0018	0031	-	-	-	-	-	-	-	-	-	-	-	-
011/...	0001	0001-A	-	0008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
012/...	0001	0001-2	-	0008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
020/...	0001	-	-	0008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
027/...	-	0001	-	0008	-	-	-	-	-	-	-	-	-	-	-	0019	0020	0021	-	0023	0024
030/...	0001	-	-	0008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
056X/...	0001	0001-1	0007	0008	0017	0013	0015	0018	0031	0025	0028	0038	0029	0041	0030	0019	0020	0021	0022	0023	0024
057X/...	0001	0001-1	0007	0008-CA	-	0013-CA	-	-	-	-	0028-CA	-	0029-CA	-	-	-	-	-	-	-	-
058X/...	0001	0001-1	0007	0008	-	0013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
059X/...	0001	0001-1	-	0008	-	0013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
060X/...	0001	0001-1	-	0008	-	0013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
061X/...	0001	0001-1	0007	0008	-	0013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
062X/...	0001	0001-1	0007	0008	-	0013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
063/...	0001	0001-1	-	0008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
064/...	0001	0001-1	-	0008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
069/...	0001	-	-	0008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
070/...	0001	-	-	0008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
077/...	0001	-	-	0008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
095/...	0001	-	-	0008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-