

Ziegler

Redefine Innovative Metering

Technical Datasheet

ISOLATOR | CHANGEOVER | MULTI-STEP |
SELECTOR

CAM SWITCH

ZIEGLER SWITCHES

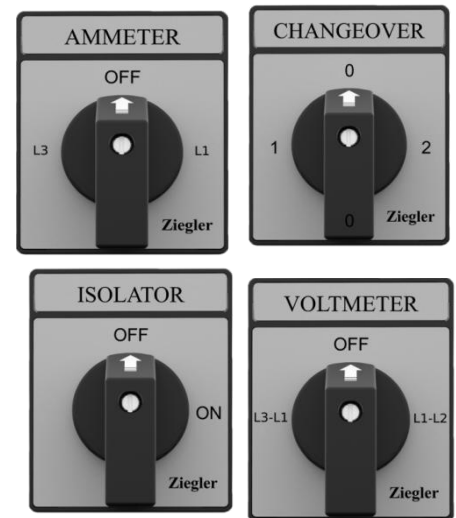
CAM SWITCH

ISOLATOR | CHANGEOVER | MULTI-STEP | SELECTOR

Cam Switches are classified mainly in four types - Instrumentation, Isolator, Changeover and Multistep. These Switches offer a complete range of cam switches for control, instrumentation and motor starting applications, maximizing the benefits and optimizing your use of asset. These Switches are manually operated, independently programmable control switches for main and auxiliary circuits with up to 24 contacts and are offered with switching angles of 30°, 45°, 60° or 90°. A focused standard range of Ziegler Cam Series Rotary Cam Switches cover most applications with different contact design, contact material and terminal allow their use as a control switches, instrumentation switches and motor control switches, as well as in electronic circuitry and in an aggressive environment according to IEC/EN 60947-1, 60947-3 and 60947-5-1.

Product Features

- Compact Design.
- Reliable Design.
- Multi pole.
- Quick and Easy Installation.
- High Protection Class.
- Touch proof terminals with IP 20 protection for 6A to 20A switches.
- IP 50 protection for front facia.
- Multi pole design.
- Quick and easy installation.
- Arrow marking on knob for long distance visibility.

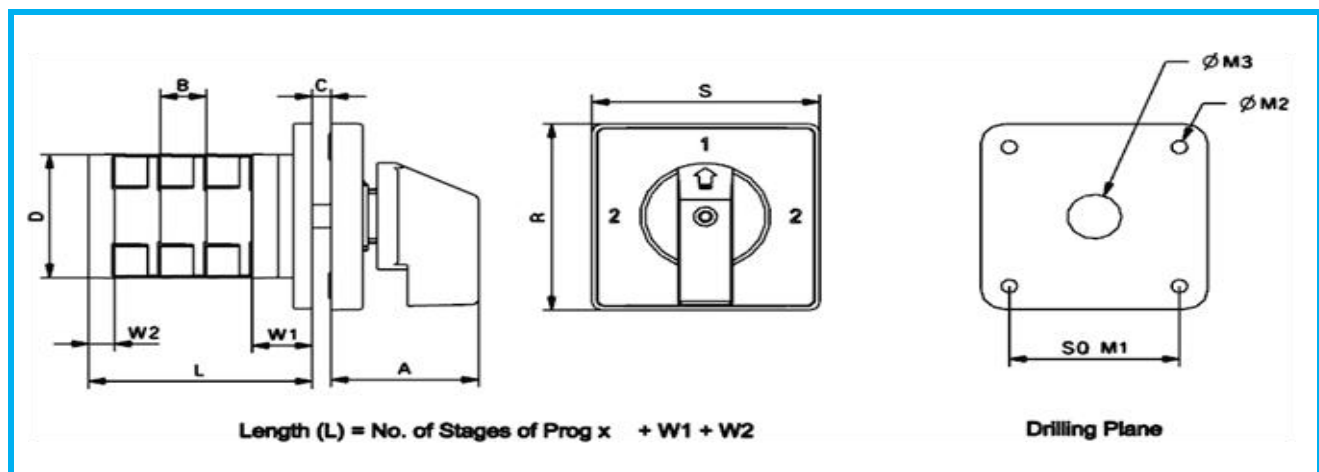


- ZCAM 6A
- ZCAM 20A
- ZCAM 40A

- ZCAM 10A
- ZCAM 25A
- ZCAM 63A
- ZCAM 200A

- ZCAM 16A
- ZCAM 32A
- ZCAM 100A

Rotary cam switches Dimensional details



ZIEGLER SWITCHES

CAM SWITCH

Type	A	B	C _(Max.)	D	M1	M2	M3	R	S	W1	W2
Ziegler Cam 6A	29	9.7	4	32	36	4	8	48	48	13	7
Ziegler Cam 10A	29	9.5	4	43	36	4	7	60	48	19	5
Ziegler Cam 16A	29	9.5	4	43	36	4	7	60	48	19	5
Ziegler Cam 20A	29	9.5	4	43	36	4	7	60	48	19	5
Ziegler Cam 25A	34	14.3	4	53	48	4	12	64	64	24	6.2
Ziegler Cam 32A	34	14.3	4	53	48	4	12	64	64	24	6.2
Ziegler Cam 40A	34	14.3	4	53	48	4	12	64	64	24	6.2
Ziegler Cam 63A	34	14.3	4	53	48	4	12	64	64	24	6.2
Ziegler Cam 100A	49	29	4	88	68	5.5	18	88	88	27	7
Ziegler Cam 200A	49	29	4	88	68	5.5	18	88	88	27	7

INSTALLATION

Panel Mounting Assembly

Procedure:-

1. First unscrew knob and front plate.
2. Insert the Cam Switch from inside of the panel door and then mount front plate on it keeping panel door in between.
3. Insert mounting screws and screw them tightly.
4. Install marking plate on it and follow it with knob.
5. Top marking Sticker on Front Plate should be on top side of the switch.


AC DUTY RATINGS

Category	Typical AC Application
AC-1	Non-Inductive or slightly inductive loads, Resistance furnaces
AC-3	Squirrel-cage motors: starting switching off motors during running
AC-15	Control of AC electromagnetic loads.
AC-21-A	Switching of resistive loads, including moderate overloads (frequent switching)
AC-23-A	Switching of motor loads or other highly inductive loads(frequent switching)

ZIEGLER SWITCHES

CAM SWITCH

TECHNICAL SPECIFICATION

Conformance to standards : European : IEC 60947-1 IEC 60947-3 IEC 60947-5 		Operating Conditions : Frequency : 50/60 Hz Operating Temp. : -25°C to 60°C Over voltage category : III Storage : -40°C to 80°C Max.Altitude : 2000m IP: 50 Front		Switch Life : Mechanical Life : 1 Lac operations @ 300 Cycles/hr Electrical Life : 10,000 operations @ 100% Rated duty at 120 cycles/hr Contacts : Double break type AgNi Double break type AgCdO									
Parameter		Unit	6A	10A	16A	20A	25A	32A	40A	63A	100A	200A	
Rated operational voltage (Ue)		V	440	440	690	690	690	690	690	690	690	690	
Rated Insulation voltage (Ui)		V	440	440	690	690	690	690	690	690	690	690	
Rated operational current (Ie)		A	6	10	16	20	25	32	40	63	100	200	
Conventional free air thermal current (Ith)		A	6	10	16	20	25	32	40	63	100	200	
Rated short time withstand current (Icw)		(1s- Current) A	72	120	192 *	240 *	300	384	480	756	1200	2400	
Rated Impulse withstand voltage (Uimp)		KV	4	4	4	4	6	6	6	6	6	6	
Rated Fuse short circuit current		KA	3	3	5	5	10	10	10	10	15	25	
Fuse size (Type gG /gM)		A	6	10	16	20	25	32	50	63	100	200	
AC23A 3phase		220-240V	KW	1.1	1.8	3	3.7	4.7	5.5	7.5	11	22	22
		380-440V	KW	1.8	3	5.5	7.5	7.5	11	15	18.5	37	37
		500V	KW	-	-	5.5	7.5	11	15	18.5	22	45	45
		660-690V	KW	-	-	5.5	7.5	11	15	18.5	22	45	45
AC23A 1phase		110V	KW	0.25	0.37	0.55	0.75	1.5	2.2	2.2	3	-	-
		220-240V	KW	0.5	0.75	1.5	2.2	3	3.7	5.5	7.5	-	-
		380-440V	KW	0.75	1.1	2.2	3.7	5.5	7.5	7.5	11	-	-
AC3 3phase		220-240V	KW	1.1	1.5	3	3	4.7	5.5	7.5	11	22	22
		380-440V	KW	1.8	2.2	5.5	5.5	7.5	11	15	18.5	37	37
		500V	KW	-	-	5.5	5.5	11	15	18.5	22	45	45
		600-690V	KW	-	-	5.5	5.5	11	15	18.5	22	45	45
AC3 1phase		110V	KW	0.25	0.3	0.55	0.6	1.5	2.2	2.2	3	-	-
		220-240V	KW	0.5	0.55	1.5	2.2	3	3.7	5.5	7.5	-	-
		380-440V	KW	0.75	0.75	2.5	3	5.5	7.5	7.5	11	-	-
AC21A/AC1			A	6	10	16	20	25	32	40	63	100	200
AC15		220-240V	A	2	2.5	5	5	8	14	16	16	20	-
		380-440V	A	1	1.5	4	4	5	6	7	7	10	-
Terminal cross -section													
Single / Multiple(Prepared with lug)		Min	mm2	1	0.7	1.5	1.5	2.5	2.5	4	4	10	10
		Max	mm2	1.5	1.5	4	4	4	6	10	16	35	70
Fine strand with sleeve(Prepared with lug)		Min	mm2	1	0.7	1	1	1.5	1.5	2.5	2.5	10	10
		Max	mm2	1.5	1.5	2.5	2.5	4	4	6	16	35	50
Terminal screw			Metric	M3	M3	M3	M3	M4	M4	M4	M4	M10	M10
Terminal tightening torque			Nm	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	2.5	2.5

ZIEGLER SWITCHES

CAM SWITCH

<p>Ziegler CAM I</p> <p>Ziegler CAM-160 Ziegler CAM-190 Ziegler CAM-160 CR Ziegler CAM-145</p>	<p>ISOLATORS</p> <p>ISOLATORS 60D ROTATIONS ISOLATORS 90D ROTATIONS ISOLATORS 90D COMPLETE ROTATIONS ISOLATORS 45D ROTATIONS</p>
<p>Ziegler CAM C</p> <p>Ziegler CAM-COFF 60 Ziegler CAM-COFF 90 Ziegler CAM-CWOFF 90 Ziegler CAM-PC 90</p>	<p>CHANGEOVER</p> <p>Changeover with OFF 60 D Rotation Changeover with OFF 90 D Rotation Changeover with out OFF 90 D Rotation Phase Changeover 90 D Rotation</p>
<p>Ziegler CAM M</p> <p>Ziegler CAM-MOFF (3W) Ziegler CAM-MOFF (4W) Ziegler CAM-MOFF (5W) Ziegler CAM-MOFF (6W) Ziegler CAM-MOFF (7W) Ziegler CAM-MOFF (8W) Ziegler CAM-MOFF (9W) Ziegler CAM-MOFF (10W) Ziegler CAM-MOFF (11W)</p> <p>Ziegler CAM-MWOFF (3W) Ziegler CAM-MWOFF (4W) Ziegler CAM-MWOFF (5W) Ziegler CAM-MWOFF (6W) Ziegler CAM-MWOFF (7W) Ziegler CAM-MWOFF (8W) Ziegler CAM-MWOFF (9W) Ziegler CAM-MWOFF (10W) Ziegler CAM-MWOFF (11W) Ziegler CAM-MWOFF (12W)</p>	<p>MULTISTEP</p> <p>Multi step with Off 3 way Multi step with Off 4 way Multi step with Off 5 way Multi step with Off 6 way Multi step with Off 7 way Multi step with Off 8 way Multi step with Off 9 way Multi step with Off 10 way Multi step with Off 11 way</p> <p>Multi step without Off 3 way Multi step without Off 4 way Multi step without Off 5 way Multi step without Off 6 way Multi step without Off 7 way Multi step without Off 8 way Multi step without Off 9 way Multi step without Off 10 way Multi step without Off 11 way Multi step without Off 12 way</p>
<p>Ziegler CAM INS</p> <p>Ziegler CAM APM Ziegler CAM VOLT</p>	<p>INSTRUMENT SWITCHES</p> <p>Ammeter selector switch Voltmeter selector switch</p>

Isolator :- In order to isolate a particular area of the operation, these Isolator switches are used. Isolator are basically ON-OFF switches. Isolator are widely used in mains circuit, motor ON-OFF & other special applications.

Changeover :- In order to change a particular area of the operation, changeover switches are used. Changeover switches are widely used in auto/manual changeovers, distribution panels, UPS & other special applications.

Multistep :- In order to connect the different circuits in a common supply or vice-versa, multi-step switches are used. These switches can also be called as Pole-Way Switches, as they generally described by poles and ways. It has countless applications for instance, tap changing switch for stabilizer.

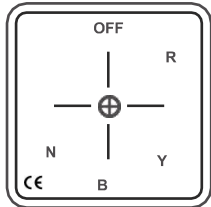
Selector Switch :- In order to measure current in the circuit or voltage drop across the circuit instrument switches are used. For current Ammeter selector switch is used and for voltage measurement voltmeter selector switch is used.

ZIEGLER SWITCHES

CAM SWITCH

SELECTORS SWITCH

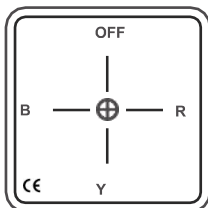
AMMETER SELECTORS SWITCH



DESCRIPTION	CURRENT RATING									
	6A	10A	16A	20A	25A	32A	40A	63A	100A	200A
Line Currents with Off	*	*	*	*	-	-	-	-	-	-

OUTPUT SIDE	A2	A1				
INPUT SIDE	R		Y		B	N
OFF	X		X		X	X
R		X	X		X	X
Y	X			X	X	X
B	X		X			X
N	X		X		X	X

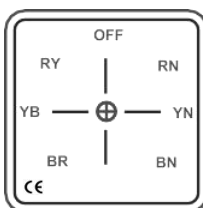
AMMETER SELECTORS SWITCH



DESCRIPTION	CURRENT RATING									
	6A	10A	16A	20A	25A	32A	40A	63A	100A	200A
Line Currents with Off	*	*	*	*	-	-	-	-	-	-

OUTPUT SIDE	A2	A1				
INPUT SIDE	R		Y		B	
OFF	X		X		X	
R		X	X		X	
Y	X			X	X	
B	X		X			X

VOLTMETER SELECTORS SWITCH



DESCRIPTION	CURRENT RATING									
	6A	10A	16A	20A	25A	32A	40A	63A	100A	200A
Voltage between phases and individual phases to neutral with OFF	*	*	*	*	-	-	-	-	-	-

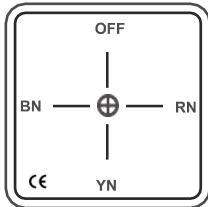
OUTPUT SIDE	V2	V1				
INPUT SIDE	B		Y		R	N
BR		X			X	
YB		X	X			
RY				X	X	
OFF						

ZIEGLER SWITCHES

CAM SWITCH

RN					X	X
YN			X			X
BN	X					X

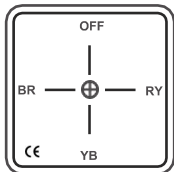
VOLTMETER SELECTORS SWITCH



DESCRIPTION	CURRENT RATING									
	6A	10A	16A	20A	25A	32A	40A	63A	100A	200A
Voltage between phase to neutral with OFF	*	*	*	*	-	-	-	-	-	-

OUTPUT SIDE	V1	V21				
INPUT SIDE	N	R	N	Y	N	B
OFF						
RN	X	X				
YN			X	X		
BN					X	X

VOLTMETER SELECTORS SWITCH



DESCRIPTION	CURRENT RATING									
	6A	10A	16A	20A	25A	32A	40A	63A	100A	200A
Voltage between phases with OFF	*	*	*	*	-	-	-	-	-	-

OUTPUT SIDE	V2	V1			
INPUT SIDE	R		Y		B
OFF					
RY	X			X	
YB			X		X
BR		X			X

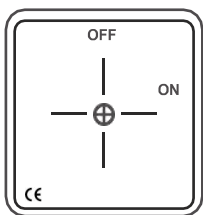
ISOLATOR SWITCH

ISOLATORS

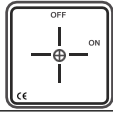
1. ZCAM - I60 (ISOLATORS 60D ROTATIONS)
2. ZCAM - I90 (ISOLATORS 90D ROTATIONS)
3. ZCAM - I90CR (ISOLATORS 90D COMPLETE ROTATIONS)
4. ZCAM - I45 (ISOLATORS 45D ROTATIONS)

ISOLATORS

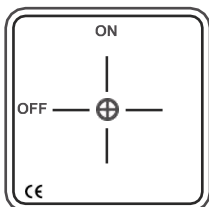
Ziegler CAM-I60



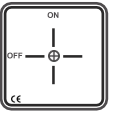
DESCRIPTION	CURRENT RATING										
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A	
1 P ON-OFF	*	*	*	*	*	*	*	*	*	*	*
2 P ON-OFF	*	*	*	*	*	*	*	*	*	*	*
3 P ON-OFF	*	*	*	*	*	*	*	*	*	*	*

OUTPUT SIDE	1A	1B	1C	1D	1E	1F	1G	1H	1I	1J	1K	1L
												
INPUT SIDE	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LL
POLES	1	2	3	4	5	6	7	8	9	10	11	12
OFF												
ON	X	X	X	X	X	X	X	X	X	X	X	X

Ziegler CAM I90

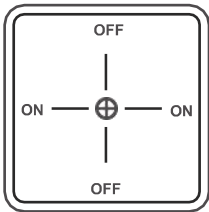


DESCRIPTION	CURRENT RATING										
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A	
1 P ON-OFF	*	*	*	*	*	*	*	*	*	*	*
2 P ON-OFF	*	*	*	*	*	*	*	*	*	*	*
3 P ON-OFF	*	*	*	*	*	*	*	*	*	*	*

OUTPUT SIDE	1A	1B	1C	1D	1E	1F	1G	1H	1I	1J	1K	1L
												
INPUT SIDE	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LL
POLES	1	2	3	4	5	6	7	8	9	10	11	12
OFF												
ON	X	X	X	X	X	X	X	X	X	X	X	X

ISOLATOR SWITCH

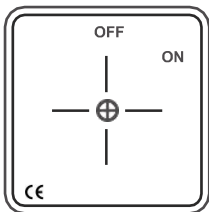
Ziegler CAM I90 CR



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1 P ON-OFF	*	*	*	*	*	*	*	*	*	*
2 P ON-OFF	*	*	*	*	*	*	*	*	*	*
3 P ON-OFF	*	*	*	*	*	*	*	*	*	*

OUTPUT SIDE	1A	1B	1C	1D	1E	1F	1G	1H	1I	1J	1K	1L
INPUT SIDE	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LL
POLES	1	2	3	4	5	6	7	8	9	10	11	12
OFF												
ON	X	X	X	X	X	X	X	X	X	X	X	X

Ziegler CAM I45



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1 P ON-OFF	*	*	*	*	*	*	*	*	*	*
2 P ON-OFF	*	*	*	*	*	*	*	*	*	*
3 P ON-OFF	*	*	*	*	*	*	*	*	*	*

OUTPUT SIDE	1A	1B	1C	1D	1E	1F	1G	1H	1I	1J	1K	1L
INPUT SIDE	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LL
POLES	1	2	3	4	5	6	7	8	9	10	11	12
OFF												
ON	X	X	X	X	X	X	X	X	X	X	X	X

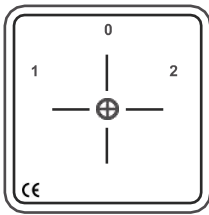
CHANGEOVER SWITCH

CHANGE OVER

- 1) ZCAM-COFF 60 Changeover with OFF 60 D Rotation
- 2) ZCAM-COFF 90 Changeover with OFF 90 D Rotation
- 3) ZCAM-CWOFF 90 Changeover with out OFF 90 D Rotation
- 4) ZCAM-PC 90 Phase Changeover 90 D Rotation

CHANGEOVER

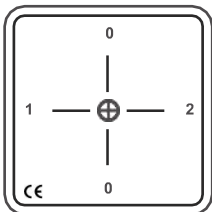
ZCAM - COFF 60



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1 P 2W OFF	*	*	*	*	*	*	*	*	*	*
2 P 2W OFF	*	*	*	*	*	*	*	*	*	*
3 P 2W OFF	*	*	*	*	*	*	*	*	*	*

OUTPUT SIDE	1A	2A	1B	2B	1C	2C	1D	2D	1E	2E	1F	2F
INPUT SIDE	LA	LA	LB	LB	LC	LC	LD	LD	LE	LE	LF	LF
POLES	1		2		3		4		5		6	
0												
1	X		X		X		X		X		X	
2		X		X		X		X		X		X

Ziegler CAM COFF 90

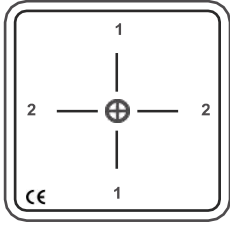


DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1 P 2W OFF	*	*	*	*	*	*	*	*	*	*
2 P 2W OFF	*	*	*	*	*	*	*	*	*	*
3 P 2W OFF	*	*	*	*	*	*	*	*	*	*

OUTPUT SIDE	1A	2A	1B	2B	1C	2C	1D	2D	1E	2E	1F	2F
INPUT SIDE	LA	LA	LB	LB	LC	LC	LD	LD	LE	LE	LF	LF
POLES	1		2		3		4		5		6	
0												
1	X		X		X		X		X		X	
2		X		X		X		X		X		X

CHANGEOVER SWITCH

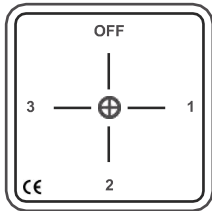
ZCAM - CWOFF 90



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1 P 2W WOFF	*	*	*	*	*	*	*	*	*	*
2 P 2W WOFF	*	*	*	*	*	*	*	*	*	*
3 P 2W WOFF	*	*	*	*	*	*	*	*	*	*

OUTPUT SIDE	1A	2A	1B	2B	1C	2C	1D	2D	1E	2E	1F	2F
INPUT SIDE	LA	LA	LB	LB	LC	LC	LD	LD	LE	LE	LF	LF
POLES	1		2		3		4		5		6	
O												
1	X		X		X		X		X		X	
2		X		X		X		X		X		X

ZCAM - PCF 90



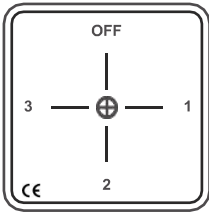
DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1 P 3W OFF	*	*	*	*	*	*	*	*	*	*
2 P 3W OFF	*	*	*	*	*	*	*	*	*	*
3 P 3W OFF	*	*	*	*	*	*	*	*	*	*

OUTPUT SIDE	1A	2A	1B	3A	2B	3B	1C	2C	3C	
INPUT SIDE	LA	LA	LB	LA	LB	LB	LC	LC	LC	
POLES	1		2		1		2		3	
O										
1	X		X				X		X	
2		X			X			X	X	
3				X		X			X	

MULTISTEP SWITCH

MULTISTEP

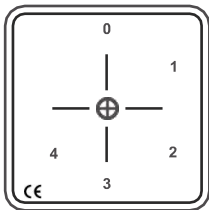
ZIEGLER CAM MOFF 3 way



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1P 3W-OFF	*	*	*	*	*	*	*	*	*	*
2P 3W-OFF	*	*	*	*	*	*	*	*	*	*
3P 3W-OFF	*	*	*	*	*	*	*	*	*	*
4P 3W-OFF	*	*	*	*	*	*	*	*	*	*

OUTPUT SIDE	1A	2A	1B	3A	2B	3B	1C	2C	1D	3C	2D	3D
INPUT SIDE	LA	LA	LB	LB	LC	LC	LD	LD	LE	LE	LF	LF
POLES	1		2		1		2		3		4	
O												
1	X		X				X		X			
2		X			X			X			X	
3				X		X				X		X

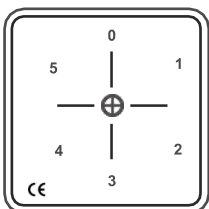
ZIEGLER CAM MOFF 4 way



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1P 4W-OFF	*	*	*	*	*	*	*	*	*	*
2P 4W-OFF	*	*	*	*	*	*	*	*	*	*
3P 4W-OFF	*	*	*	*	*	*	*	*	*	*


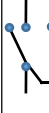









OUTPUT SIDE	1A	2A	3A	4A	1B	2B	3B	4B	1C	2C	3C	4C
INPUT SIDE	LA	LA	LA	LA	LB	LB	LB	LB	LC	LC	LC	LC
POLES	1				2				3			
O												
1	X				X				X			
2		X				X				X		
3			X				X				X	
4				X				X				X

ZIEGLER CAM MOFF 5 way

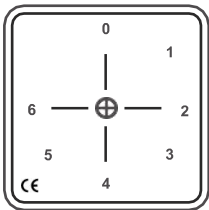


DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1P 5W-OFF	*	*	*	*	*	*	*	*	*	*
2P 5W-OFF	*	*	*	*	*	*	*	*	*	*


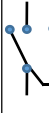





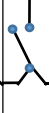





MULTISTEP SWITCH

OUTPUT SIDE	1A	2A	3A	4A	5A	1B	2B	3B	4B	5B
										
INPUT SIDE	LA	LA	LA	LA	LA	LB	LB	LB	LB	LB
POLES	1					2				
0										
1	X					X				
2		X					X			
3			X					X		
4				X					X	
5					X					X

ZIEGLER CAM MOFF 6 way



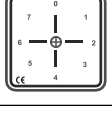


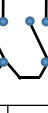
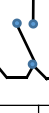



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1P 6W-OFF	*	*	*	*	*	*	*	*	*	*
2P 6W-OFF	*	*	*	*	*	*	*	*	*	*

OUTPUT SIDE	1A	2A	3A	4A	5A	6A	1B	2B	3B	4B	5B	6B
												
INPUT SIDE	LA	LA	LA	LA	LA	LA	LB	LB	LB	LB	LB	LB
POLES	1						2					
0												
1	X						X					
2		X						X				
3			X						X			
4				X						X		
5					X						X	
6						X						X

ZIEGLER CAM MOFF 7 way



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1P 7W-OFF	*	*	*	*	*	*	*	*	*	*

OUTPUT SIDE	1A	2A	3A	4A	5A	6A	7A
							
INPUT SIDE	LA	LA	LA	LA	LA	LA	LA
POLES	1						
0							
1	X						
2		X					
3			X				
4				X			
5					X		
6						X	
7							X

MULTISTEP SWITCH

ZIEGLER CAM MOFF 8 way



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1P 8W-OFF	*	*	*	*	*	*	*	*	*	*

OUTPUT SIDE	1A	2A	3A	4A	5A	6A	7A	8A
INPUT SIDE	LA	LA	LA	LA	LA	LA	LA	LA
POLES	1							
0								
1	X							
2		X						
3			X					
4				X				
5					X			
6						X		
7							X	
8								X

ZIEGLER CAM MOFF 9 way



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1P 9W-OFF	*	*	*	*	*	*	*	*	*	*











OUTPUT SIDE	1A	2A	3A	4A	5A	6A	7A	8A	9A
INPUT SIDE	LA	LA	LA	LA	LA	LA	LA	LA	LA
POLES	1								
0									
1	X								
2		X							
3			X						
4				X					
5					X				
6						X			
7							X		
8								X	
9									X

ZIEGLER CAM MOFF 10 way



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1P 10W-OFF	*	*	*	*	*	*	*	*	*	*

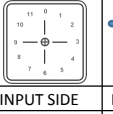


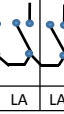






MULTISTEP SWITCH

OUTPUT SIDE	1A	2A	3A	4A	5A	6A	7A	8A	9A	10A
										
INPUT SIDE	LA	LA	LA	LA	LA	LA	LA	LA	LA	LA
POLES	1									
0										
1	X									
2		X								
3			X							
4				X						
5					X					
6						X				
7							X			
8								X		
9									X	
10										X

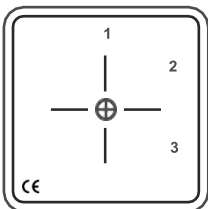
ZIEGLER CAM MOFF 11 way



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1P 11W-OFF	*	*	*	*	*	*	*	*	*	*

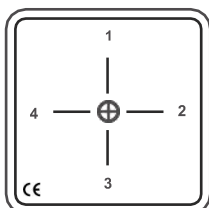
OUTPUT SIDE	1A	2A	3A	4A	5A	6A	7A	8A	9A	10A	11A
											
INPUT SIDE	LA	LA	LA	LA	LA	LA	LA	LA	LA	LA	LA
POLES	1										
0											
1	X										
2		X									
3			X								
4				X							
5					X						
6						X					
7							X				
8								X			
9									X		
10										X	
11											X

ZIEGLER CAM MWOFF 3 way



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1P 3W-WOFF	*	*	*	*	*	*	*	*	*	*
2P 3W-WOFF	*	*	*	*	*	*	*	*	*	*
3P 3W-WOFF	*	*	*	*	*	*	*	*	*	*
4P 3W-WOFF	*	*	*	*	*	*	*	*	*	*

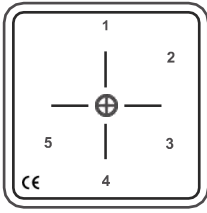
ZIEGLER CAM MWOFF 4 way



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1P 4W-WOFF	*	*	*	*	*	*	*	*	*	*
2P 4W-WOFF	*	*	*	*	*	*	*	*	*	*
3P 4W-WOFF	*	*	*	*	*	*	*	*	*	*

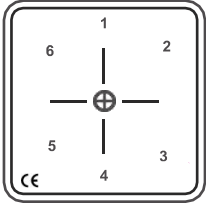
MULTISTEP SWITCH

ZIEGLER CAM MWOFF 5 way



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1P 5W-WOFF	*	*	*	*	*	*	*	*	*	*
2P 5W-WOFF	*	*	*	*	*	*	*	*	*	*

ZIEGLER CAM MWOFF 6 way



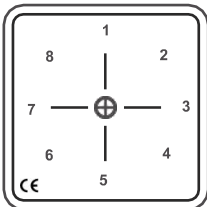
DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1P 6W-WOFF	*	*	*	*	*	*	*	*	*	*
2P 6W-WOFF	*	*	*	*	*	*	*	*	*	*

ZIEGLER CAM MWOFF 7 way



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1P 7W-WOFF	*	*	*	*	*	*	*	*	*	*

ZIEGLER CAM MWOFF 8 way



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1P 8W-WOFF	*	*	*	*	*	*	*	*	*	*

ZIEGLER CAM MWOFF 9 way



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1P 9W-WOFF	*	*	*	*	*	*	*	*	*	*

ZIEGLER CAM MWOFF 10 way



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1P 10W-WOFF	*	*	*	*	*	*	*	*	*	*

MULTISTEP SWITCH

ZIEGLER CAM MWOFF 11 way



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1P 11W-WOFF	*	*	*	*	*	*	*	*	*	*

ZIEGLER CAM MWOFF 12 way



DESCRIPTION	CURRENT RATING									
	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
1P 12W-WOFF	*	*	*	*	*	*	*	*	*	*

Ordering information

CSTX	X	X	X	X	X	XX	X	X	X	X	XX
CST1 : Changeover											
CST2 : Multistep											
CST3 : Isolator											
CST4 : Instrument Switches											
Ampere code :											
1 : 6A		1									
B : 10A		B									
C : 16A		C									
J : 20A		J									
D : 25A		D									
E : 32A		E									
F : 40A		F									
G : 63A		G									
H : 100 A		H									
I : 200A		I									
Angle :											
3 : 30 Degree			3								
4 : 45 Degree			4								
6 : 60 Degree			6								
9 : 90 Degree			9								
Ammeter / Voltmeter											
1 : Ammeter R Y B 90 Degree				1							
2 : Ammeter R Y B N60 Degree				2							
3 : Voltmeter 7 position RY YB BR O RN YN BN				3							
4 : Voltmeter RY YB BR O				4							
5 : Voltmeter RN YN BN O				5							
0 : N.A.				0							

MULTISTEP SWITCH

Rotation Angle : T : 360 Degree rotation angle L : Less than 360° rotation degree	T L						
Pole : 1...9 : 1.....9 pole A : 10 pole B : 11 pole C : 12 pole	1.....9 A B C						
No. of ways 01.....12:1.....12 ways		1.....12 XX					
OFF/W W : without off O : with off			W O				
Knob Shape F : Flang shape				F			
Front Plate & knob Color A : Silver and Black Y : Yellow and Red					A Y		
Blank						0	
Customer Specification							00

Note:-

For non Standard switches or for customize one kindly contact the Sales Engineer.

Ziegler

Redefine Innovative Metering

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