CST SERIES
- CAM SWITCHES

- Complete range of cam switches for control, instrumentation and motor starting applications.
- Available for currents from 6 A to 200 A.
- Quick and easy installation.
- Compact size with many switching programs.
- Multi pole design.
- Long distance visibility.
- Touch-proof terminals with IP20 protection.

TYPES:

CST1 - CHANGEOVER
CST2 - MULTI-STEP
CST3 - ISOLATOR
CST4 - SELECTOR

APPLICATION EXAMPLES

Switching on the (emergency) power supply.

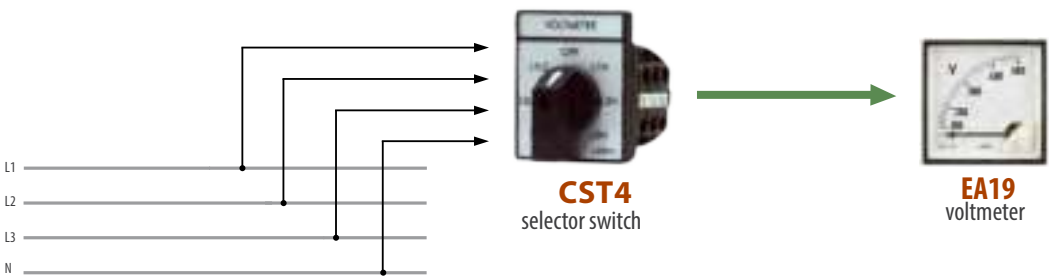
machine park

power supply network

CST1
changeover

power generator

Measurement of phase and phase-to-phase voltage using only one voltmeter.

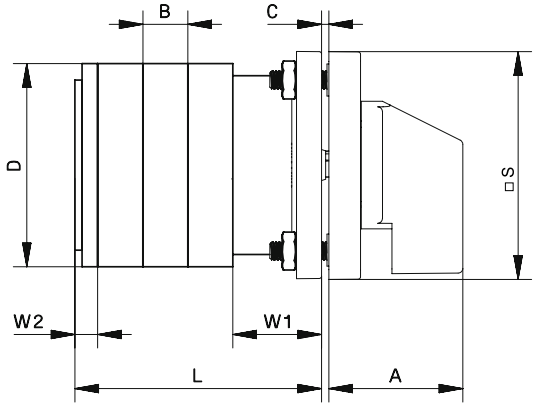


CST4
selector switch

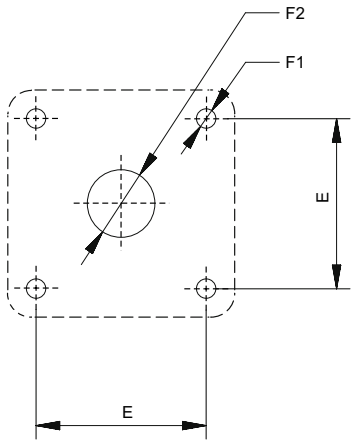
EA19
voltmeter

CST1/CST2/CST3/CST4
- CAM SWITCHES

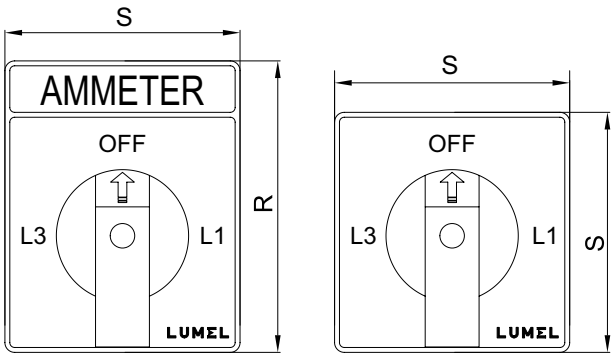
EXTERNAL DIMENSIONS



L = No. of Stages of Prog x B + W1 + W2

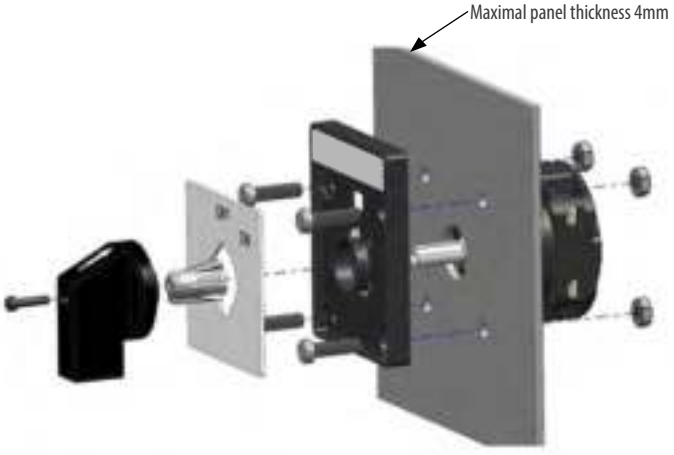


Drilling plane



Type	A	B	$C_{(max)}$	D	E	F1	F2	R	S	W1	W2
6 A	29 mm	9.7 mm	4 mm	32 mm	36 mm	4 mm	8 mm	48 mm	48 mm	13 mm	7 mm
10 A	29 mm	9.5 mm	4 mm	43 mm	36 mm	4 mm	7 mm	60 mm	48 mm	19 mm	5 mm
16 A	29 mm	9.5 mm	4 mm	43 mm	36 mm	4 mm	7 mm	60 mm	48 mm	19 mm	5 mm
20 A	29 mm	9.5 mm	4 mm	43 mm	36 mm	4 mm	7 mm	60 mm	48 mm	19 mm	5 mm
25 A	34 mm	14.3 mm	4 mm	53 mm	48 mm	4 mm	12 mm	64 mm	64 mm	24 mm	6.2 mm
32 A	34 mm	14.3 mm	4 mm	53 mm	48 mm	4 mm	12 mm	64 mm	64 mm	24 mm	6.2 mm
40 A	34 mm	14.3 mm	4 mm	53 mm	48 mm	4 mm	12 mm	64 mm	64 mm	24 mm	6.2 mm
63 A	34 mm	14.3 mm	4 mm	53 mm	48 mm	4 mm	12 mm	64 mm	64 mm	24 mm	6.2 mm
100 A	49 mm	29 mm	4 mm	88 mm	68 mm	5.5 mm	18 mm	88 mm	88 mm	27 mm	7 mm
200 A	49 mm	29 mm	4 mm	88 mm	68 mm	5.5 mm	18 mm	88 mm	88 mm	27 mm	7 mm

INSTALLATION



AC DUTY RATINGS

Class	Application
AC-1	Non-Inductive or slightly inductive loads (cosφ ≥ 0,95); 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)

CST1/CST2/CST3/CST4 - CAM SWITCHES

TECHNICAL DATA

PARAMETERS		UNIT	6 A	10 A	16 A	20 A	25 A	32 A	40 A	63 A	100 A	200 A
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 uniterrupetd current (Ith)		A	8	12	20	25	25	32	40	63	100	200
Rated short time withstand current (Icw)		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
The power of the receiver in terms of use												
AC23A 3 phase	220-240 V	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 1 phase	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 3 phase	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 1 phase	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	Min	mm^2	0.7	0.7	1.5	1.5	2.5	2.5	4	4	10	10
	Max	mm^2	1.5	1.5	4	4	4	6	10	16	35	70
Fine strand with sleeve	Min	mm^2	0.7	0.7	1	1	1.5	1.5	2.5	2.5	10	10
	Max	mm^2	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

* Rated short time withstand current (0.5s- current)

RATED OPERATING CONDITIONS

Frequency	50/60 Hz	
Operating temperature	-25°C...60°C	
Storage temperature	-40°C...80°C	
Installation category	III	
Altitude a.s.l.	2000 m	
Protection grade	IP50 from frontal side	IP20 from terminal side
Standards	IEC 60947-1 , IEC 60947-3, IEC 60947-5	

SWITCH LIFE

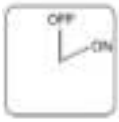
Mechanical Life	100 000 operations at 300 cycles/hr	
Electrical Life	10 000 operations at 100% rated duty at 120 cycles/hr	
Contacts	double break	type AgNi
	double break	type AgCdO

CST3 SERIES
- ISOLATORS

WIRING DIAGRAMS AND CODING

ISOLATORS **CST3**

Ordering code CST3-_60L_XXOF_ _00



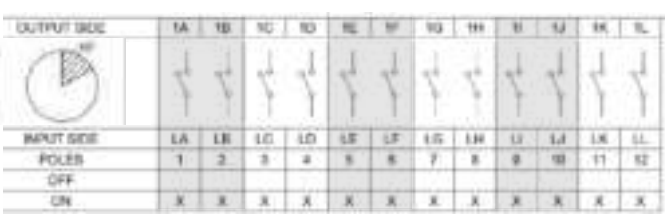
Isolator CST3-	_	60L	_	XXOF	_	_	00
Rated current:							
6 A	A						
10 A	B						
16 A	C						
25 A	D						
32 A	E						
40 A	F						
63 A	G						
100 A	H						
200 A	I						
Pole:							
1 pole			1				
2 poles			2				
....			...				
9 poles			9				
10 poles			A				
11 poles			B				
12 poles			C				
Front plate colour:							
silver background and black knob					A		
yellow background and red knob					Y		
Acceptance tests:							
without additional quality requirements						0	
with an extra quality inspection certificate						1	

ITEMS AVAILABLE FROM OUR STOCK:

CST3-C60L3XXOFA000
- Isolator 16A, angle 60°, rotation angle <360°, 3 poles, with OFF, rectangular knob, silver background, black knob

CST3-C60L3XXOFY000
- Isolator 16A, angle 60°, rotation angle <360°, 3 poles, with OFF, rectangular knob, yellow background, red knob

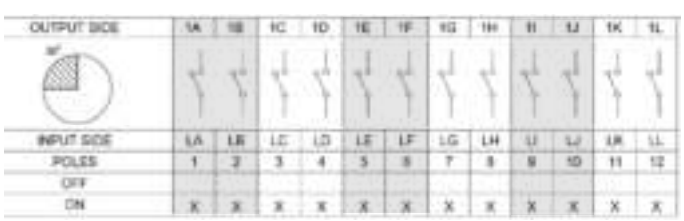
Description	6A	10A	16A	25A	32A	40A	63A	100A	200A
	Stage number								
1-polar ON-OFF	1	1	1	1	1	1	1	1	1
2-polar ON-OFF	1	1	1	1	1	1	1	1	1
3-polar ON-OFF	2	2	2	2	2	2	2	2	2
4-polar ON-OFF	2	2	2	2	2	2	2	2	2
5-polar ON-OFF	3	3	3	3	3	3	3	3	3
6-polar ON-OFF	3	3	3	3	3	3	3	3	3



Ordering code CST3-_90L_XXOF_ _00

Isolator CST3-	_	90L	_	XXOF	_	_	00
Rated current:							
6 A	A						
10 A	B						
16 A	C						
25 A	D						
32 A	E						
40 A	F						
63 A	G						
100 A	H						
200 A	I						
Pole:							
1 pole			1				
2 poles			2				
....			...				
9 poles			9				
10 poles			A				
11 poles			B				
12 poles			C				
Front plate colour:							
silver background and black knob					A		
yellow background and red knob					Y		
Acceptance tests:							
without additional quality requirements						0	
with an extra quality inspection certificate						1	

Description	6A	10A	16A	25A	32A	40A	63A	100A	200A
	Stage number								
1-polar ON-OFF	1	1	1	1	1	1	1	1	1
2-polar ON-OFF	1	1	1	1	1	1	1	1	1
3-polar ON-OFF	2	2	2	2	2	2	2	2	2
4-polar ON-OFF	2	2	2	2	2	2	2	2	2
5-polar ON-OFF	3	3	3	3	3	3	3	3	3
6-polar ON-OFF	3	3	3	3	3	3	3	3	3



CST3 SERIES
- ISOLATORS

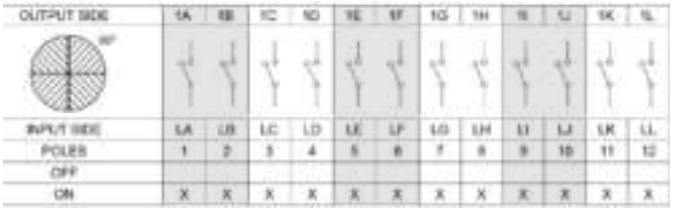
WIRING DIAGRAMS AND CODING

ISOLATORS **CST3**

Ordering code CST3-_90T_XXOF_ _00

Isolator CST3-	_	90T	_	XXOF	_	_	00
Rated current:							
6 A	A						
10 A	B						
16 A	C						
25 A	D						
32 A	E						
40 A	F						
63 A	G						
100 A	H						
200 A	I						
Pole:							
1 pole		1					
2 poles		2					
....		...					
9 poles		9					
10 poles		A					
11 poles		B					
12 poles		C					
Front plate colour:							
silver background and black knob					A		
yellow background and red knob					Y		
Acceptance tests:							
without additional quality requirements						0	
with an extra quality inspection certificate						1	

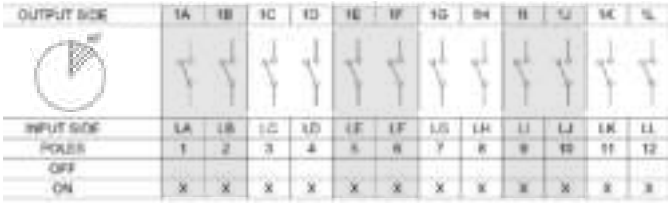
Description	6A	10A	16A	25A	32A	40A	63A	100A	200A
	Stage number								
1-polar ON-OFF	1	1	1	1	1	1	1	1	1
2-polar ON-OFF	1	1	1	1	1	1	1	1	1
3-polar ON-OFF	2	2	2	2	2	2	2	2	2
4-polar ON-OFF	2	2	2	2	2	2	2	2	2
5-polar ON-OFF	3	3	3	3	3	3	3	3	3
6-polar ON-OFF	3	3	3	3	3	3	3	3	3



Ordering code CST3-_40L_XXOF_ _00

Isolator CST3-	_	40L	_	XXOF	_	_	00
Rated current:							
6 A	A						
10 A	B						
16 A	C						
25 A	D						
32 A	E						
40 A	F						
63 A	G						
Pole:							
1 pole		1					
2 poles		2					
....		...					
9 poles		9					
10 poles		A					
11 poles		B					
12 poles		C					
Front plate colour:							
silver background and black knob					A		
yellow background and red knob					Y		
Acceptance tests:							
without additional quality requirements						0	
with an extra quality inspection certificate						1	

Description	6A	10A	16A	25A	32A	40A	63A
	Stage number						
1-polar ON-OFF	1	1	1	1	1	1	1
2-polar ON-OFF	1	1	1	1	1	1	1
3-polar ON-OFF	2	2	2	2	2	2	2
4-polar ON-OFF	2	2	2	2	2	2	2
5-polar ON-OFF	3	3	3	3	3	3	3
6-polar ON-OFF	3	3	3	3	3	3	3



CST3 SERIES
- ISOLATORS

WIRING DIAGRAMS AND CODING

ISOLATORS **CST3**

CODING OF **CST3** SERIES

Isolator CST3-	_	_	0	_	_	XX	O	F	_	_	00
Rated current:											
6 A	A										
10 A	B										
16 A	C										
25 A	D										
32 A	E										
40 A	F										
63 A	G										
100 A	H										
200 A	I										
Angle:											
45°		4									
60°		6									
90°		9									
----------			0								
Rotation angle:											
360° *				T							
less than 360°				L							
Pole:											
1 pole					1						
2 poles					2						
....					...						
9 poles					9						
10 poles					A						
11 poles					B						
12 poles					C						
----------						XX					
----------							O				
----------								F			
Front plate colour:											
silver background and black knob									A		
yellow background and red knob									Y		
Acceptance tests:											
without additional quality requirements										0	
with an extra quality inspection certificate										1	
Version:											
standard											00
custom-made**											XX

* - only for rotation angle 90°
** - only after agreeing with the manufacturer

CST1/CST2/CST3/CST4 SERIES
- CAM SWITCHES

ACCESSORIES - ORDERING

Ordering code	Description	View	Cam switch type
20-042-06-00007	CAM SWITCH KNOB (Black)		CST1,CST2,CST3,CST4
20-042-06-00008	CAM SWITCH KNOB (Red)		CST1,CST2,CST3,CST4
20-042-06-00009	FRONT PLATE CAM SWITCH (Yellow)		CST1,CST2,CST3,CST4
20-042-06-00010	Yellow BLANK PAPER FOR MARKING PLATE		CST1,CST2,CST3,CST4
20-042-06-00011	Yellow BLANK PAPER FOR NAME PLATE		CST1,CST2,CST3,CST4
20-042-06-00012	BLANK NAME PLATE		CST1,CST2,CST3,CST4
20-042-06-00013	BLANK MARKING PLATE		CST1,CST2,CST3,CST4
20-042-06-00016	SCREWS AND NUTS		CST1,CST2,CST3,CST4

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