

Rotary Cam Switch CSxxA

- Range of rotary cam switches with choice of 4 operators
- Key operators permit key removal in all latched positions
- Finger proof screw terminals to IP20 protection
- UL approved
- Designed to IEC 60947-3
- Switch body supplied with legend plate for use with square escutcheon frame actuator



Technical Datasheet



Options & Ordering Codes

CS **20A** - **PM** - **XX** **+G2**

Series
Rotary Cam Switches **CS**

Rated Thermal Current

20 Amp I _{th}	20A
32 Amp I _{th}	32A
50 Amp I _{th}	50A

Mounting

Single Hole Mounting (22.5mm)	
Panel Mounting	PM

Choose from list of available switch options - found overleaf

+G2 With Handle (only for Panel Mounting)

Accessories

Spare Key	B4-R455
Tightening Wrench	J7049

Specification

Data according to IEC 60947-3, VDE 0660, GB14048.3

	CS20A	CS32A	CS50A
Rated thermal current I _{th}	20A	32A	50A
Rated operational voltage U _e IEC/VDE/BS	690V		
Utilisation category AC21A, AC21B	20A	32A	50A
Utilisation category AC23B 400V	16A	30A	45A
Utilisation category AC15 220/240V 380/440V	6A 4A	12A 6A	16A 7A
Utilisation category DC21A, DC21B 30V	20A	32A	40A
Cable cross connection	0.75-2.5 mm ²	1.0-4.0 mm ²	1.5-6 mm ²
Contact material	Silver Alloy		
Mounting hole diameter	22.5mm		
Maximum backup fuse (gl)	20A	35A	50A
Protection class from rear	IP20		
Ambient Temperature	-40 to +60°C		
Storage Temperature	-50 to +90°C		

Data according to UL and cUL

	CS20A	CS32A	CS50A
Operational current (general use)	20A	35A	60A
Rated operational voltage U _e	600V		
Rated Insulation Voltage* U _i	660V		
DOL-Rating 3-Phase 110-120V	1.5hp	5.0hp	7.5hp
220-240V	3.0hp	5.0hp	15.0hp
440-480V	5.0hp	10.0hp	25.0hp
550-600V	7.5hp	15.0hp	30.0hp
DOL-Rating 1-Phase 110-120V	0.5hp	1.5hp	3.0hp
220-240V	1.5hp	5.0hp	7.5hp
Heavy Pilot Duty (AC)	A600		
Cable cross connection (solid)	12-20AWG	10-18AWG	10-12AWG
Cable cross connection (flexible)	14-20AWG	8-18AWG	6-12AWG
Tightening Torque	1-1.4Nm	1.7-1.8Nm	1.2-1.8Nm
Maximum backup fuse (gl)	40A	80A	150A

* Test voltage between open contacts is 2200V (1000V + 2 x U_e)

Handle Operators

RB2 Round Bezel



SP2 Square Escutcheon



Key Operators

RBK2 Round Bezel



SPK2 Square Escutcheon



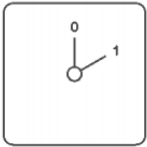
Rotary Cam Switch CSxxA



Technical Datasheet

Options & Ordering Codes continued

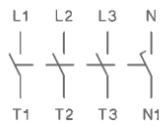
Off-On Switch



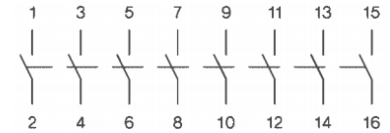
Description	Cells	Part Number
1 Pole	1	CSXXA-A1
2 Pole	1	CSXXA-A2
3 Pole	2	CSXXA-A3
4 Pole	2	CSXXA-A4
6 Pole	3	CSXXA-A6
8 Pole	3	CSXXA-A8

Connection Diagram

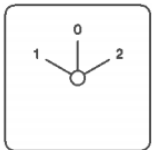
For 1-4 poles



For 6-8 poles



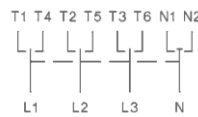
Changeover switches, with off



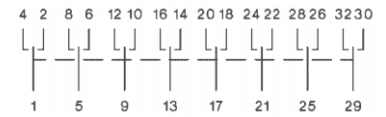
Description	Cells	Part Number
1 Pole	1	CSXXA-U1
2 Pole	2	CSXXA-U2
3 Pole	3	CSXXA-U3
4 Pole	4	CSXXA-U4
6 Pole	6	CSXXA-U6
8 Pole	8	CSXXA-U8

Connection Diagram

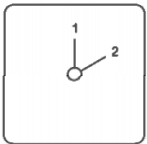
For 1-4 poles



For 6-8 poles



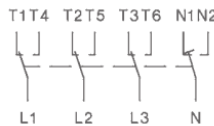
Changeover switches, without off



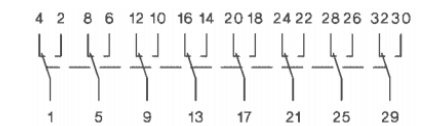
Description	Cells	Part Number
1 Pole	1	CSXXA-W1
2 Pole	2	CSXXA-W2
3 Pole	3	CSXXA-W3
4 Pole	4	CSXXA-W4
6 Pole	6	CSXXA-W6
8 Pole	8	CSXXA-W8

Connection Diagram

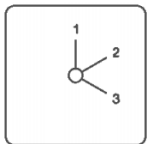
For 1-4 poles



For 6-8 poles



3 position step switches, without off

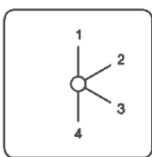


Description	Cells	Part Number
1 Pole	2	CSXXA-ST31
2 Pole	3	CSXXA-ST32
3 Pole	5	CSXXA-ST33

Connection Diagram



4 position step switches, without off

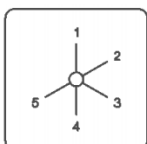


Description	Cells	Part Number
1 Pole	2	CSXXA-ST41
2 Pole	4	CSXXA-ST42
3 Pole	6	CSXXA-ST43

Connection Diagram

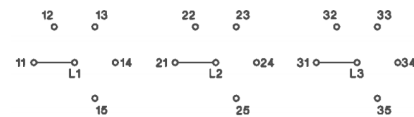


5 position step switches, without off

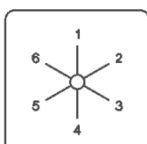


Description	Cells	Part Number
1 Pole	3	CSXXA-ST51
2 Pole	5	CSXXA-ST52
3 Pole	8	CSXXA-ST53

Connection Diagram

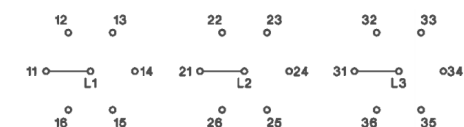


6 position step switches, without off



Description	Cells	Part Number
1 Pole	3	CSXXA-ST61
2 Pole	6	CSXXA-ST62
3 Pole	9	CSXXA-ST63

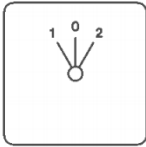
Connection Diagram



Rotary Cam Switch CSxxA

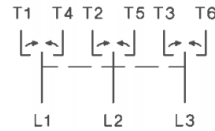
Options & Ordering Codes continued

Changeover switch, with spring return to off

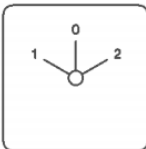


Description	Cells	Part Number
1 Pole	1	CSXXA-UR1
2 Pole	2	CSXXA-UR2
3 Pole	3	CSXXA-UR3

Connection Diagram

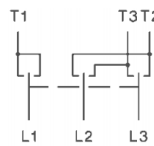


3 phase motor reversing switch

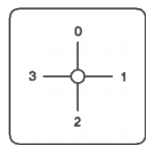


Description	Cells	Part Number
20A : 5.5kW @ 3~440V	3	CSXXA-WU3

Connection Diagram

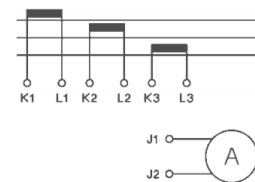
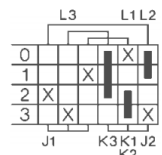


3 current transformers

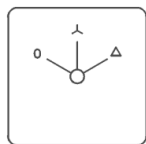


Description	Cells	Part Number
1 Pole	3	CSXXA-M31

Connection Diagram

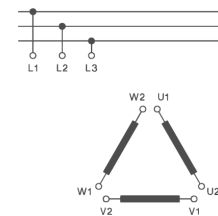
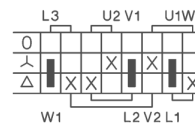


Star Delta switches



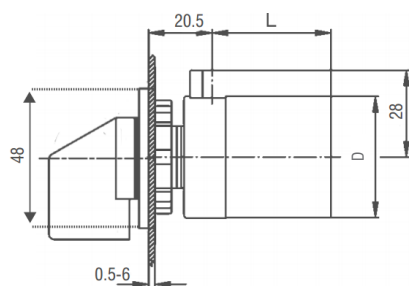
Description	Cells	Part Number
1 Rotary Direction 20A : 5.5kW @ 3~440V	4	CSXXA-SD

Connection Diagram

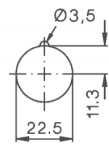


Dimensions (mm)

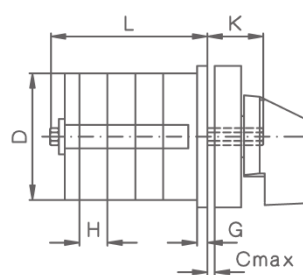
Central Fixing 22.5mm CSXXA



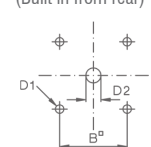
Mounting Hole



Panel Mounting



Mounting Hole (Built in from rear)



Type	Number of Additional Cells - Increased Length (L)							
	1	2	3	4	5	6	7	8
CS20A	36.5	46	55.5	65	74.5	84	93.5	103
CS32A	38.5	51	63.5	76	88.5	101	113.5	126
CS50A	44	59.5	75	90.5	106	121.5	137	152.5

	A	B	C	D	D1	D2	E	G	H	K	S
CS20A	48	36	5	44 ¹⁾	5	8	4	3.5	9.5	19	SW5
CS32A	48	36	5	56	5	8	4	3.5	12.5	19	SW5
CS50A	64	48	5	58 ²⁾	5	12	4.2	3	15.5	20	SW7

¹⁾ 44.5 x 42

²⁾ 58 x 58