

LED Phase Changeover Switch





- Rish Cam switch 63A with single LED
- Rish Cam switch 63A with three LED









LED Phase Changeover Switch

Product Features



• Three Phase indication :

The three LED indicate the presence or absence of phases R. Y. and B. Respectively. Therefore does not require an additional indicating device in the distribution board.

Output indication:

Selected Output Phase Indication. Therefore does not require an additional indicating device in the distribution board.

• Wiring Routing:

No need of external wiring for indication device. Input connections are internally derived from bus bar.

Compact Size :

Their compact dimensions optimize the space inside distribution boards. They have been specially designed to make wiring and use easier.

Reliable Design :

These switches are tested in various laboratories as per National and International standards for performance and user safety.

Quick & Easy Installation :

Captive +/- screw save installation time. The ability to assemble a bus bar on a direct on switch terminal.

Protection Class:

IP 50 protection class from front of cam switch. to eliminate the risk of touching live parts without adding any protective covers.



Application

Phase Changeover switch :

The cam switch is used for the changeover/shift of the supply from one phase to another phase. In Phase Selection Distribution Board, the phase priority selection is manually carried out by selector switch & user can select the desired selection of phase according to his own choice i.e. R Phase, Y Phase, B Phase.

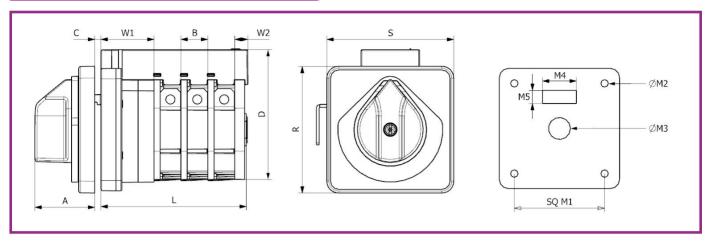
• Phase Selector DB:

Phase selector DBs provide flexibility in selecting and interchanging the phases in case there is a power outage in one particular phase.



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Rotary Cam Switches Dimensional Details

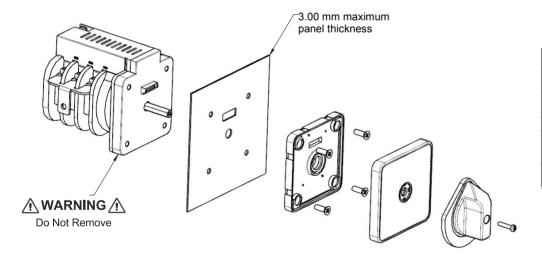


Length(L)=NO. Of Stages of Prog x S+W1+W2

Туре	Α	В	c _(Max.)	D	L	R	s	W1	W2	M1	M2	М3	M4	M5
Rish CSW 3LED 63A	32	14.50	3	69	77	67.5	67.5	28	7	48	4	12	18	7
Rish CSW 1LED 63A	32	14.50	3	69	77	67.5	67.5	28	7	48	4	12	18	7

All the dimensions are in mm.

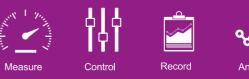
Installation



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)				

Panel Mounting Assembly



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Technical Data

Conformance to standards:

European : *****IEC 60947-1 IEC 60947-3

IEC 60947-5

C€ Indian :

IS 13947-1/3/5

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 : 2000 m

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 AgCdO

IF. 50 FIGHT			
Parameter		Unit	63A
Rated operational voltage (Ue)		V	690
Rated Insulation voltage (Ui)		V	690
Rated operational current (le)		А	63
Conventional free air thermal current (Ith)		Α	63
Rated short time withstand current (Icw)	(1s- Current)	Α	756
Rated Fuse short circuit current		KA	10
Fuse size (Type gG /gM)		А	63
AC23A 3phase	220-240V	KW	11
	380-440V	KW	18.5
	500V	KW	22
	660-690V	KW	22
AC23A 1phase	110V	KW	3
	220-240V	KW	7.5
	380-440V	KW	11
AC3 3phase	220-240V	KW	11
	380-440V	KW	18.5
	500V	KW	22
	600-690V	KW	22
AC3 1phase	110V	KW	3
	220-240V	KW	7.5
	380-440V	KW	11
AC21A/AC1		А	63
AC15	220-240V	А	16
	380-440V	А	7
Terminal cross -section			
Single / Multiple(Prepared with lug)	Min	mm2	4
	Max	mm2	16
Fine strand with sleeve(Prepared with lug)	Min	mm2	2.5
	Max	mm2	16
Terminal screw		Metric	M4
Terminal tightening torque		Nm	1.2

^{*}Dielectric properties pass without electronic circuits









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Ordering Information



Sr.No	Ordering Code	Description
1	CSS1-G90T301OF1000	CHANGEOVER 63A 90D 3P 1W OFF 1L3S
2	CSS1-G90T301OF3000	CHANGEOVER 63A 90D 3P 1W OFF 3L3S





