

1. General:

This Switch complies with international standard IEC 60947-1, IEC 60947-3 & IEC 60947-5.

This product must be used after mounting in panel with hardware supplied, with wires permanently connected to terminals as specified.

2. Meaning of symbols:

- C ← European Conformity Mark
- → Switch/Disconnector Symbol

3. Specification:

Refer technical data chart.

4. Equipment Installation:

- * Due consideration should be given to space behind the cam switch to allow for bends in connecting cables.
- * The products do not have internal protection against overload & short circuit,hence external safety protection should be provided. It is recommended to install protective device near a equipment.

- * Select mounting location which is protected from water on front and back side of switch.
- * Ensure that wires do not remain under tension.

5. Operation & Maintenance:

- * Equipment must be installed & maintained by suitably qualified person.
- * If equipment is used in a manner not specified by manufacturer, the protection provided by the equipment may be impaired.
- * Disconnect supply before installation of Switch and during maintenance.
- * Ensure that cables are properly tighten with self lifting screw.

6. Testing:

* Cables should be connected at specified position as shown in connection diagram.

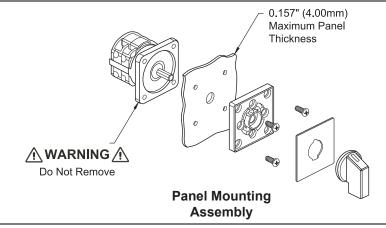
* It is recommended to test the switch before installation as per connection diagram using multimeter.

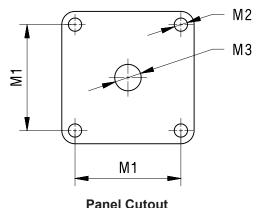
7. Servicing of Cam Switches:

- * Cam switch need not required to be serviced if proper fuse protection and dust protection are provided. However if contact failure occurs due to accumulation of dust near contact area, dust can be cleaned by blowing air.
- * If contact are slightly welded due to insufficient fuse protection, weld can be opened by forcibly operating the knob to a limited extent.

№ NOTICE

This product has been designed for environment A. Use of this product in environment B may cause unwanted electromagnetic disturbances in which case the user may be required to take adequate mitigation measures.





Details

Туре	M1	M2	М3	
Rish Cam 16A	36	4	7	
Rish Cam 25A	48	4	12	

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Technical Data

Conformance to standards :

European: IEC 60947-1

IEC 60947-3 IEC 60947-5

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 Switch Life:

Mechanical Life: 1 Lac operations @ 300 Cycles/hr

Electrical Life: 10,000 opeartions @ 100% Rated duty at 120 cycles/hr

Contacts : Double break type AgNi Double break type AgCdO

Indian: IS 13947-1/3/5	IP: 50 Front	m		
Parameter		Unit	16A	25A
Rated operational voltage (Ue)		V	690	690
Rated Insulation voltage (Ui)		V	690	690
Rated operational current (le)		Α	16	25
rated uniterrupetd current (Ith)		Α	20	32
Rated Impulse withstand voltage (Uin	np)	KV	4	6
Rated short time withstand current (Ic	w) (1s- Current)	Α	192 *	300
Rated Fuse short circuit current		KA	5	10
Fuse size (Type gG /gM)		А	16	25
AC23A 3phase	220-240V	KW	3	4.7
	380-440V	KW	5.5	7.5
	500V	KW	5.5	11
	660-690V	KW	5.5	11
AC23A 1phase	110V	KW	0.55	1.5
	220-240V	KW	1.5	3
	380-440V	KW	2.2	5.5
AC3 3phase	220-240V	KW	3	4.7
	380-440V	KW	5.5	7.5
	500V	KW	5.5	11
	600-690V	KW	5.5	11
AC3 1phase	110V	KW	0.55	1.5
	220-240V	KW	1.5	3
	380-440V	KW	2.5	5.5
AC21A/AC1		А	16	25
AC15	220-240V	А	5	8
	380-440V	Α	4	5
Terminal cross -section				
Single / Multiple	Min	mm2	1.5	2.5
	Max	mm2	4	4
Fine strand with sleeve	Min	mm2	1	1.5
	Max	mm2	2.5	4
Terminal screw		Metric	M3	M4
Terminal tightening torque		Nm	0.8	1.2

^{*} Rated short time withstand current (0.5s- current)

SR. NO.								NO. OF STAGES		
	Spring Return ON-OFF									
1	OUTPUT SIDE	1A	1B	1C	1D					
	OFF ON 90°	90	90	90	90			1-2		
	INPUT SIDE	LA	LB	LC	LD					
	POLES	1	2	3	4					
	OFF									
	ON	Х	Х	Х	Х					
	Offered up to 4 poles									
	Spring Return Double Throw									
	OUTPUT SIDE	1A	2A	1B	2B	1C 2C				
2	0 1 2	90						1-3		
-	INPUT SIDE	LA	LA	LB	LB	LC LC		' "		
	POLES		1	2 3						
	0									
	1	Х		Х		X				
	2		Χ		Х	X				
	Offered up to 3 poles									
	Spring Return Changeover without Off									
	OUTPUT SIDE	1A	2A	1B	2B	1C 2C				
3	1 2	90						1-3		
	INPUT SIDE	LA	LA	LB	LB	LC LC				
	POLES	•	1	2	2	3				
	1	Х		Х	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	X				
	2		Х		Х	X				
	Offered up to 3 poles									