



DATASHEET

Issue 2.0



Multifunction Meters
Transducers & Isolators
Temperature Controllers
Converters & Recorders
Digital Panel Meters
Current Transformers
kWh Energy Meters
Analogue Panel Meters
Shunts
Digital Bargraphs
Digital Multimeters
Protection Relays
Synchroscope Series
Rotary Switches
Power Supplies
Test & Measurement

LED PHASE CHANGEOVER SWITCH

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

SUBJECT TO CHANGE WITHOUT NOTICE

This datasheet superseded all previous versions – please keep for future reference

Product Features:

- Three Phase indication
- Output indication
- Wiring Routing
- Compact Size
- Reliable Design
- Quick & Easy Installation
- Protection Class

LED Phase Changeover Switch



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.

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.

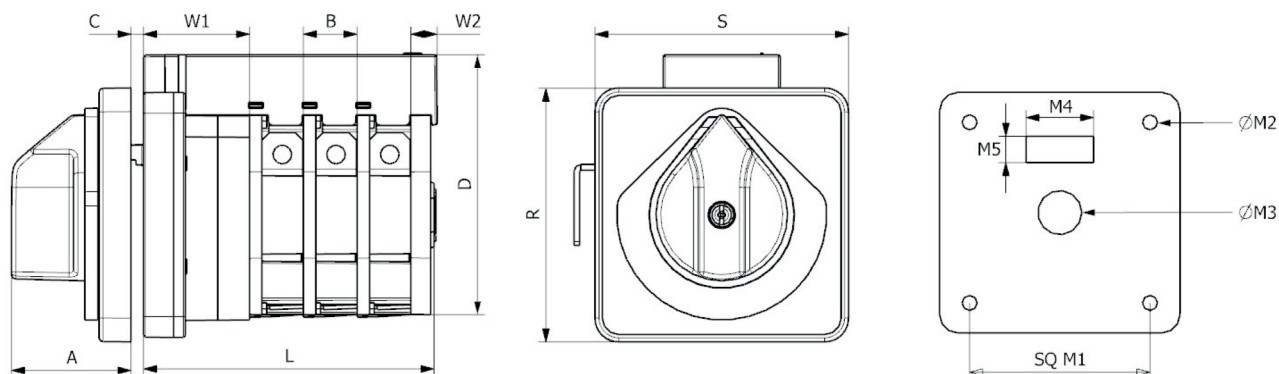
Compact Size: Their compact dimensions optimize the space inside distribution boards. They have been specially designed to make wiring and use easier.

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.

Rotary Cam Switches Dimensional Details

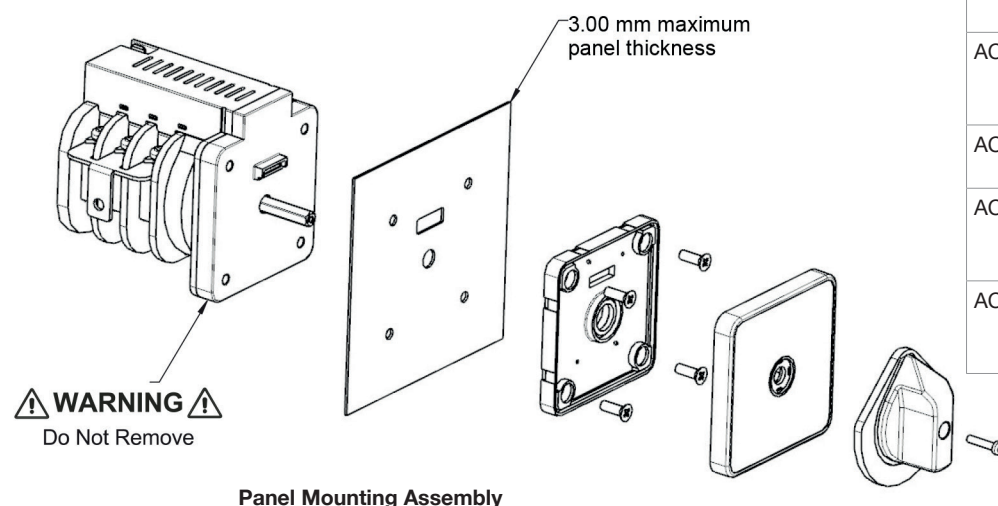


Length(L)=NO. Of Stages of Prog x S+W1+W2

Type	A	B	C (Max.)	D	L	R	S	W1	W2	M1	M2	M3	M4	M5
CSW 3LED 63A	32	14.50	3	69	77	67.5	67.5	28	7	48	4	12	18	7
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)

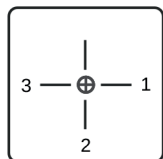
Technical Data

Conformance to standards: European: IEC 60947-1 IEC 60947-3 IEC 60947-5 CE 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
--	---	--

Parameter		Unit	63A
Rated operational voltage (Ue)		V	690
Rated Insulation voltage (Ui)		V	690
Rated operational current (Ie)		A	63
Conventional free air thermal current (Ith)		A	63
Rated short time withstand current (Icw)	(1s- Current)	A	756
Rated Fuse short circuit current		KA	10
Fuse size (Type gG /gM)		A	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		A	63
AC15	220-240V	A	16
	380-440V	A	7
Terminal cross -section			
Single / Multiple(Prepared with lug)	Min	mm ²	4
	Max	mm ²	16
Fine strand with sleeve(Prepared with lug)	Min	mm ²	2.5
	Max	mm ²	16
Terminal screw		Metric	M4
Terminal tightening torque		Nm	1.2

*Dielectric properties pass without electronic circuits

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

Contact



Sifam Tinsley Instrumentation Ltd

1 Warner Drive
Springwood Industrial Estate
Braintree
Essex
CM7 2YW

Tel: 01376 335271
Email: sales@sifamtinsley.com

www.sifamtinsley.co.uk