

Cam operated Rotary Switches are in great demand owing to their sophistication and the marks of , and . Manufactured on the basis of latest concepts in switching technology, we switches are guaranteed for greater reliability in performance. Made to suit various circuits of multipole and multipositions, we switches enable easy hand operation. We cam operated Rotary Switches are designed for ON LOAD switching and assembled on add-n-block systems and are used for various applications.

Range

Switches are available up to 12 positions with 30°, 45°, 60° & 90° switching angles.

Instrument switches like Voltmeter/ Ammeter selector switches are available Phase to Phase, Phase to Neutral with off or without off, Direct and through CT operated to read Voltage and Amperage respectively.

Range of products includes Phase Change over, Forward/Reverse with single or Double speed, Star Delta switches for smooth change over and other Motor Control Applications.

These switches are available with Sheet Steel or Aluminium Housing.

APPROXIMATE DIMENSIONS. NOT FOR CONSTRUCTION

Amps	Other diameters O.D.	Adapter plate A.P	Position block P.B	Contact Block (C.B.)									Contact	CAP			
				1	2	3	4	5	6	7	8	9	10	11	12	cover C.C	C.C
10 Amps	035	-	11.0	9.5	19.0	28.5	38.0	47.5	57	66.5	76	8.5	95	104.5	114	4.0	5.0
10 Amps	046.5	8.0	12.0	12.0	24	36	48	60	72	84	96	108	120	132	114	4.0	7.5
10 Amps	050	8.0	13.5	15.0	30	45	60	75	90	105	120	135	150	165	180	3.5	7.5
10 Amps	070	10.0	14.5	21.3	42.6	63.9	85.2	106.5	127.8	149.1	170.4	191.7	21.3	234.3	255.6	4.5	9.0

Back of panel mounting size (length) = AP+ PB+CB+C.C+C.= + 0.5 mm Note: Exclude Thickness Of Adapter plate (A.P) for plastic version dimensions.

Mounting

Two types of mounting plates for flush back of panel mounting are available with different dimensions.

Indicating plate

Elegant and aesthetic indicating plates made of plastic are provided with attractive colour combination. Other colour combinations indicating plates are provided on request.

Specification

____/ Cam Operated Rotary Switches comply with IS 13947/Part5/Sec.1 of 1993 & JEC 947-5-1 and carry unique [SI mark.

Cam Operated Rotary Switches are certified by **CSA** International, Canada, US and they conform to European Standards **CE**.

Temperature

Cam Operated Rotary Switches are recommended for use up to 55° C ambient temperature, and they will withstand hot falling sand up to 300° F.

High Voltage

All switches withstand a test of 2.5 KV for one minute between phase and earth and between terminals when the switch is off.

Construction

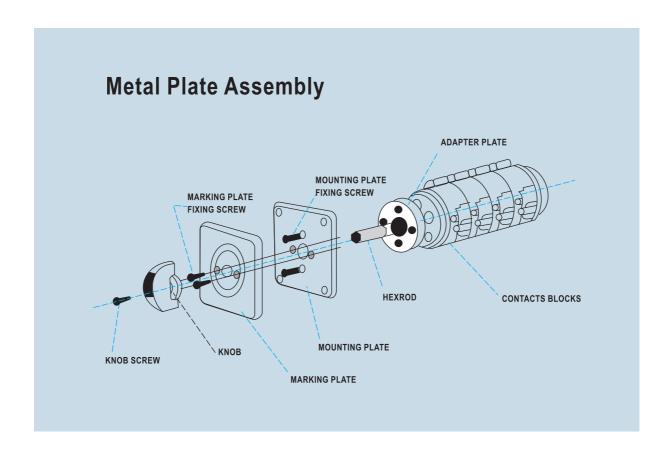
Cam operated Rotary switches are units of contact blocks assembled on add-on block system, supported by a hexagonal operating centre shaft. High quality insulating materials are used to withstand Mechanical & Electrical stress and have excellent effective properties.

Contact blocks are made of Engineering grade plastic to increase the hfe, insulation and mechanical strength.

Switches are provided with two independent sets of double break type contacts with silver contact tips. For perfect making and breaking, stainless steel springs are provided.

Different types of Cams are used for different contact sequences.

Beautiful and sleek knobs or handles are provided for smooth operation of making and breaking.



Plastic Plate Assembly FRONT PLATE AND PANEL MIXING SCREW MARKING PLATE MARKING PLATE RING MOUNTING PLATE PANEL THICKNESS 3 to 5 mm

ADAPTER PLATE HEX.ROD KNOB MARKING PLATE MOUNTING PLATE LENGTH CONTACT BLOCKS CONTACT BLOCK COVER CAP LENGTH LENGTH

0

Technical specifications

Generallyconforms to the specification of Low Voltage switchgear and control gear IS 13947 (part 5/Sec-1)1993 IEC 947-5-1 AC 15/DC 13.

Mechanical life

Maximum switching cycle

Class of mechanical durability Operating temperature

Detailing tempt

Rated voltage Rated impulce voltage

Frequency

Rated insulation voltage

Polution degree.

: 3 million operations

: Class 300 (300 operations/hour)

: 3

: -25 C to +55 C

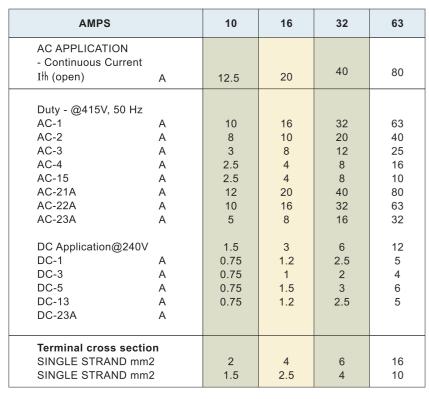
: 415 V AC/240 V DC

: 1.5 KV

: 50 Hz : 600 V AC

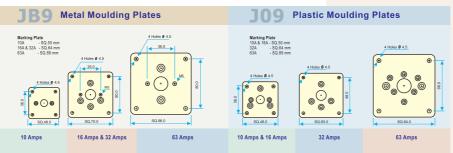
. 000 V AC

: 3



^{*} Duty rating according to IS 13947 (pt.5/Sec-1): 1993/IEC 947-5-1

NOTE: Due to induction of improvement from time to time the right is reserved to supply products which may differ slightly from those illustrated and described in this catalogue













ELECTRONIC TIMER DIN RAIL

ANALOG TIMER



FEATURES:

- · 2digit display
- DIN / screw mounting
- 5 Amps contact rating
- User programmable modes
- UP or DOWN count programmable
- · Finger protection terminals
- · Wide power range

ANALOG TIMER SPECIFICATIONS

Operating Voltage range 24V to 240V AC/DC for

Operating Voltage range

AVM Senes

230 V AC, ± 20%

Power consumption 7VA

Allowable ripple for DC 3% Maximum

Ambient temperature -10°C to 55°C for operating -25°C

to 65°C for storage

Contact rating 5A at 230 V AC for resistive

load

Humidity 35% to 85%

Rated Frequency 50 / 60 Hz ± 5%

Recovery time 0.1 sec minimum

Repeat accuracy ±1% maximum

Resetting time 0.1 sec minimum

Life Expectancy Mechanical -10 Million

operations min

Electrical -100,000 operation min

Setting Accuracy + 10% max w.r.t full scale

DIGITAL TIMER **DIN RAIL MODEL DC-99.**



FEATURES:

- 2digit display
- DIN / screw mounting
- 5 Amps contact rating
- User programmable modes
- UP or DOWN count programmable
- Finger protection terminals
- · Wide power range

DIGITAL TIMER SPECIFICATIONS

Range 0.1 second, to 99 hours

Set point T1 or T1 & T2

Units Seconds, Minutes, hours

Independent for T1 and T2

Resolution One count of display

Independent for T1 and T2

Modes on delay, interval, unequal cyclic on first, unequal cyclic

off first

Direction of counting UP (incrementing) or Down

(decrementing) selectable

Program lock Possible

Display 2 digit of size 7.5 mm

Accuracy 0.01 % of set time ± display

count

Timing Start delay 0.05 second max

Output 1 change over (potential free)

Contact rating 5A at 230 V AC for resistive

ioad

User programming By means of 2 key switches

Program memory Non volatile

Supply voltage 24V to 240V AC / DC

Power consumption Less than 2VA

Life Expectancy Mechanical -10 Million

operations min

Electrical-100,000 operations

min

Humidity 35% to 85%

Weight Approx. 130 gms.

ELECTRONIC TIMER DIN RAIL

MODEL	TIME RANGES	Modes	Supply voltage	Relay contact	
SVM330 SVM660 SVH330 SVH660	3/30 SEC/MIN 6/60 SEC/MIN 3/30 MIN/HOUR 6/60 MIN/HOUR	ON DELAY INTERVAL EQUAL CYCLIC ON FIRST	230V AC*	1 C/O**	
AVM330 AVM660 AVH330 AVH660	3/30 SEC/MIN 6/60 SEC/MIN 3/30 MIN/HOUR 6/60 MIN/HOUR	EQUAL CYCLIC OFF FIRST ALL MODES ARE USER SELECTAB LE	24-240 V AC/DC	1 C/O	
UEC660	6/60 SEC/M IN/HOUR	UN EQUAL CYCLIC ON FIRST UN EQUAL CYCLIC OFF FIRST	230V AC*	1 C/O**	
FR 009	ON TIME 6/60 SEC/MIN PAUSE TIME 6/60 SEC	FORWARD/ REVERSE	230V AC*	1 C/O	
RC 660	RUN TIME 6/60 SEC/MIN TRANSFER TIME 40/1 00 ms	STAR DELTA	230V AC*	1 C/O	

^{*} Other voltage ranges are also available as per customer requirement ** Models are also available with 2NO + 2NC

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