



PART NO.

MC24S3 Series

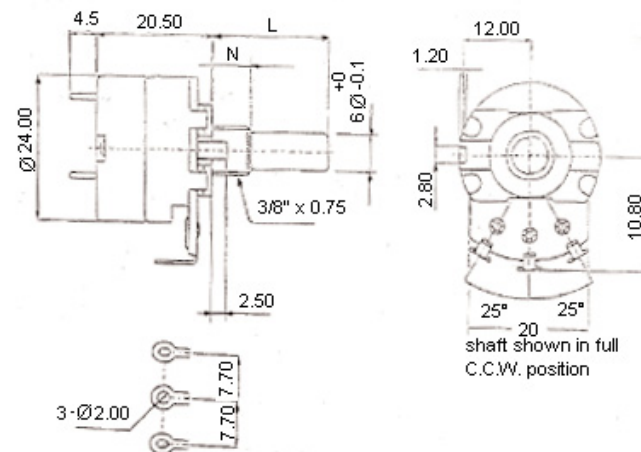
REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	suresh	31/5/05	shashi	31/5/05	NK	14/6/05

Model : 24S3 - with L-42R/PH

Electrical Characteristics

All resistance	2K2 - 1MΩ	All resistance tolerance	±20%
Resistance taper	Linear B and Logarithmic A taper		
Resistance taper Characteristics	A 50%	B 50%	
	15 - 25%	40 - 60%	
Power rating	B taper : 500V 0.5W A taper : 250V 0.25W		
Residual resistance	R ≥ 250KΩ 0.1%	10Ω maximum (between terminal 1 and 2)	
	250KΩ > R > 10KΩ	10Ω maximum (between terminal 1 and 2)	
	10KΩ ≥ R	10Ω maximum (between terminal 1 and 2)	
Noise	47mV maximum		
Switch rated power	125V ac at 1A		
Switch contact resistance	0.3mΩ maximum		
Insulation resistance	More than 100MΩ at 500V dc		
Withstanding voltage	1 minute at 500V ac		
Sliding life	15,000 cycles		



Length = 20.5 (body), 42 (spindle, incorporated bush).
 Diameter = 24 (body), 6 (spindle).
 Mounting bush = 3/8inch x 0.75.
 Length = 6.5.
 Panel cut-out = 8.2 diameter.

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DRAWING TITLE:			
MC24 Series SPST Switch			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M100000026	39166_DWG	
SCALE: NTS	U.O.M.: mm	SHEET: 1 OF 3	



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Mechanical Characteristics

Total rotational angle	300° ±10°
Stopper strength	5kgf.cm maximum/3 seconds
Rotational torque	30 to 200gf.cm
Switch action	150 to 450g.cm
Switch rotational angle	50° ±5°
Pull-push strength	10kgf.cm maximum/3 seconds
Switch circuit	SPST
Solder heat resistance	300°C, 3 seconds (only for hand-soldering)
Remark	Shaft : Plastic Bushing material : Plastic

Specification Table

Taper	OHMIC Values	Part Number
Linear	2K2	MC24S3-B2.2K,L-42R/PH
	4K7	MC24S3-B4.7K,L-42R/PH
	10K	MC24S3-B10K,L-42R/PH
	100K	MC24S3-B100K,L-42R/PH
	1M	MC24S3-B1M,L-42R/PH
Logarithmic	4K7	MC24S3-A4.7K,L-42R/PH
	1M	MC24S3-A1M,L-42R/PH

OHMIC Value: K in OHMIC value represent thousands,
In code 2K2, Resistance is 2200 Ohms.
M in OHMIC value represent millions,
In code 1M, Resistance is 1,000,000 Ohms.

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