



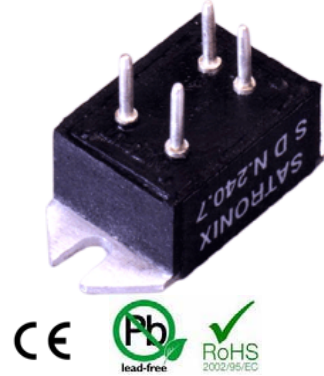
www.satronixindia.com

PCB /CHASSIS MOUNT TYPE AC -SSR **SDN-240-7 / SDN-240-7K**

Features

- Economical photo coupler isolation which can be connected directly to IC logic circuits such as TTL, CMOS etc
- No noise feedback from O/P to I/P circuits.
- Zero voltage turn-on /random turn-on
- Faster switching response.
- Long life highly reliable.
- Termination pins are polarized to prevent reverse plugging.

(J: Zero voltage turn-on; K: Random turn-on)



Description

SDN-240-7 is a PCB/ Chassis mount AC SSR from Satronix. It is a DC input controlled AC switching SSR with rated operational voltage up to 330 VACrms. It has fast switching with less response time $\leq 10\text{ms}$. It is an economical unit providing O/P to I/P isolation and has a long life. They are available in two options: zero voltage turn on or random turn on

Type Selection Guide

Type	SDN-240-7 /SDN-240-7R
Input Control Voltage	3 – 32 VDC
Rated operational Voltage	25 – 330 VACrms
Rated operational current AC rms.	7 amps

For load current $> 3\text{A}$ external Heatsink is required.

Input Specifications

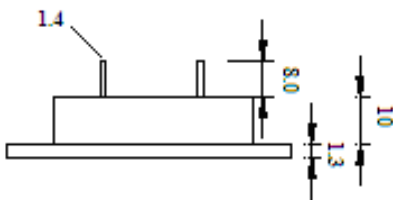
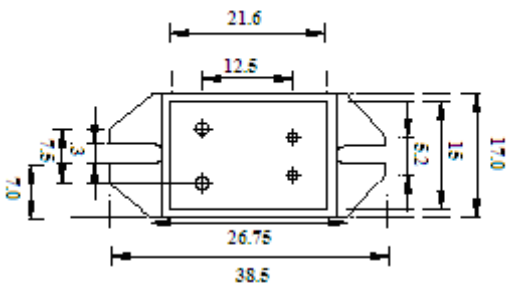
Type	SDN-240-7/SDN-240-7R
Control Voltage	3 – 32 VDC
Input Current @ 5 VDC	10 mA
Pick-up voltage	5 VDC
Turn – off Voltage at 100 °C max	1 VDC
Input Resistance	0.5 – 2.0 K Ohms

Output Specifications

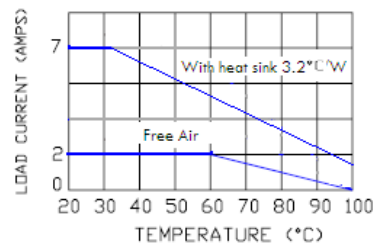
Type	SDN-240-7/SDN-240-7R
RMS on-state current (IT)	7 A
Load Voltage Rating	25 – 330 V rms
Frequency Rating	47 – 70 Hz
O/P Voltage drops@ Current Max. (VTM)	1.6 Vrms
Non repetitive surge peak on-state current(t=20 ms) (ITMS)	100 Amps
Turn – On time (50Hz) MAX	10 ms
Turn – Off time (50Hz) MAX	10 ms
Over Voltage Rating (Transient Peak)	600 V peak
Max Off-state leakage current @ voltage – (IDRM)	< 10mA
Holding current (IHO)	50 mA
Dv/Dt @Voltage (out)	200 V/μs
I ² T Fusing (10 ms)	78 A ² S
Operating Temperature	– 30 to 80 °C

Mechanical Specifications

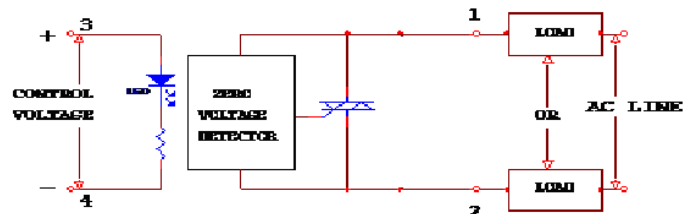
All Dimensions are in mm



Thermal Derating Curve



Connection diagram



add diode across

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