



**ELECTRONIC
AUTOMATION**

RESEARCH & DEVELOPMENT

PRODUCT SPECIFICATION

**PRODUCT : RPD-01
REVERSE POWER DEVICE**

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Function

: **Reverse power**, Under Voltage, Over Voltage
Monitor and Control

System input:

Input voltage : 85 to 270V AC
Input Current : Current inputs (AR) Ib=5A. (in-Built CT)
Input Frequency : 50 / 60Hz \pm 5%
Control output : 1c/o rated for 5A @ 250VAC /28VDC resistive load

Power consumption

: 5VA / 1W

Accuracy :

Voltage : \pm 4V of display value
Current : \pm 5% of Ib \pm 1 digit. (Ib=5A)
Trip time : \pm 1% of set delay \pm 2sec.

General:

Trip setting : Under Voltage \rightarrow 85 to 230V AC
Over Voltage \rightarrow 250 to 270V AC
Reverse Current \rightarrow 2% to 20% of Nominal current

Minimum sensing current : 0.1A
Maximum setting current : 5A(Above 5A>Ext. CT can be used, CT setting max.500/5 in steps of 5)
Nominal current : 5A
Trip time delay : 1 to 20secs settable for OV, UV, RC
Recovery Time : 2 sec Min.
Power On Delay : 1 to 10 sec settable
Mode of Operation : Auto/Manual
Hysteresis : Voltage \rightarrow \pm 3V
Current \rightarrow 2% to 6% of full scale

Climatic:

Ambient Temperature : Operation \rightarrow -10°C to +55°C
Storage \rightarrow -25°C to +80°C
Humidity : MAX 85% RH @ 40°C

Mechanical Endurance :

Service life (under no load) : 10⁶ operations minimum
Rated frequency of operation : 1800 \pm 5% operations per hour max.

Electrical Endurance:

Electrical life (under full load) : 10⁵ operations minimum

Electrical Safety:

Insulation resistance : >100M ohm @ 500V DC

Dielectric strength : a) 2.5KV AC, 50Hz for 1 minute.
(Between current carrying & non-current carrying parts)
b) 1.5KV AC, 50Hz for 1 minute.
(Between contacts & control circuit)
c) 750V AC, 50Hz for 1 minute.
(Between non-continuous relay contacts)

Electrical connection

: Screw type terminals with self lifting clamps

Dimension

: 76 X 78 X 115mm (W x H x D)