

ANNEXURE-II

MOTOR PROTECTION RELAY MPR300

Range Required: 16-44 Amps

Technical Specification as Required

1. Protection offered

a. Thermal Over load

b. Single Phasing

c. Earth Fault

b. Locked Rotor

e. Under Current

2. Thermal Over Load Protection

a. Current Setting ranges as explained below

<u>Catalog No.</u>	<u>Range of Im</u>
MPR300	16-44 A

b. Trip Time Characteristics - Class 10A, 10, 20 and 30 as per IEC 947- 4 -1

c. Pre Alarm

d. Thermal Memory - Provided.

3. Earth fault Protection

a. Current setting 5 to 50% of Im (Front Panel).

b. Trip time delay - 100 msec (Factory Set).

c. Disable feature - DIP Switch on Front Panel.

4. Phase Unbalance Protection

a. Unbalance Current - 20% of Im (Factory Set)

b. Trip Time Delay - 1 sec (Factory Set)

5. Locked rotor protection

a. LR Current- 3Im (Factory Set)

b. Trip Time Delay - 1 sec (Factory Set)

c. Disable Feature - Front panel DIP switch.

6. Under Current protection

a. Under Current Threshold - 20% of Im (Factory Set)

b. Trip Time Delay- 3 Sec (Factory Set)

c. Disable Feature - Available from Front Panel DIP Switch

7. Operational Indicators

a. Indications for Power on LED.

b. Indication for Trip on each of the 5 faults.	
LED starts flashing when fault is detected. Become steady on when the relay trips after the preset	
<u>8. Trip Contacts</u>	
a. 2 N/O + 2 N/C	Manual reset
b. Rated Voltage	250 V AC/30 V DC
c. Rated Current	2-5 Amps
d. Breaking capacity	2000 VA/ 240W (Resistive)
<u>9. Auxiliary power supply</u>	
a. 240 V AC +/- 20%	
b. 110 V AC +/- 20%	
<u>10. Operating Temperature</u>	
0 to 60 deg. C	
<u>11. Accuracy</u>	
Trip Accuracy: As per IEC 947-4-1	
Pick up Accuracy: +/- 12.5%	
<u>12. Reference Standards</u>	
IEC 60255, IEC 61000 and IEC 60068	
<u>13. Over all dimensions</u>	
80mm W x 95mm H x 100mm D	
14. Weight Less than 600 Gms	