

ANNEXURE-II	
<u>MOTOR PROTECTION RELAY MPR300</u> <u>Range Required: 32-88 Amps</u>	
<u>Technical Specification as Required</u>	
<u>1. Protection offered</u>	
a. Thermal Over load	
b. Single Phasing	
c. Earth Fault	
b. Locked Rotor	
e. Under Current	
<u>2. Thermal Over Load Protection</u>	
a. Current Setting ranges as explained below	
<u>Catalog No.</u>	<u>Range of Im</u>
MPR300	32-88 A
b. Trip Time Characteristics - Class 10A, 10, 20 and 30 as per IEC 947- 4 -1	
c. Pre Alarm	
d. Thermal Memory - Provided.	
<u>3. Earth fault Protection</u>	
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.	
<u>4. Phase Unbalance Protection</u>	
a. Unbalance Current - 20% of Im (Factory Set)	
b. Trip Time Delay - 1 sec (Factory Set)	
<u>5. Locked rotor protection</u>	
a. LR Current- 3Im (Factory Set)	
b. Trip Time Delay - 1 sec (Factory Set)	
c. Disable Feature - Front panel DIP switch.	
<u>6. Under Current protection</u>	
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	
<u>7. Operational Indicators</u>	
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	
<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	