

We touch your **electricity** everyday!

- * Versatile & programmable relay
- * Rated 1A/5A - 50/60 Hz site selectable
- * Modular design with self CT shorting



CSEPRO-M

Advance Motor Protection & Monitoring System

Application

The CSEPRO-M relay is the ideal answer to problems requiring more versatile or accurate protection for a motor with thermal modeling. It employs the latest technique for the protection of medium & large sized three phase AC motors with high inertia load in all type of ordinary contactors controlled or circuit breaker controlled motor drives. It handles fault condition during motor start up, normal run, idling and cooling down at standstill in all industrial application like pump, fan, mill, crusher etc

Features

Main Features:

- 1A & 5A combined CT input programmable
- Modular design with self CT shorting
- SCADA communication (local & remote)
- Wide auxiliary supply range
- DI/DO matrix programmability
- Disturbance record
- Event record
- Fault record

Protection & Control

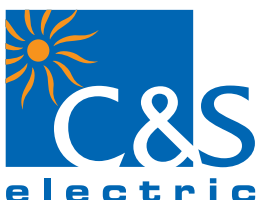
- Motor thermal model
- Under / over current
- Sensitive ground fault
- Lock rotor / Stall
- Phase loss / Incorrect phase sequence
- Unbalance / NPS
- Trip circuit supervision
- Circuit breaker failure protection

Metering & Monitoring

- Current, NPS, Thermal capacity,
- Motor running time, Total no. of trips,
- Start - Stop history, Maxi meter
- Disturbance / Harmonics / Event / Fault

Communication

- Modbus RTU
- IEC 60870-5-103
- IEC 61850
- Modbus TCP



Electronic Division
Unit - Protection & Control

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Model Selection Chart

CSEPRO-M xxx Series	ANSI	CSEPROM200	CSEPROM240	CSEPROM270
CT inputs		4	4	6
VT inputs		-	3	-
Opto inputs (max)		6	6	6
Opto contacts (max)		6	6	6
Function keys/hotkeys		●	●	●
Programming logic		-	●	●
PROTECTION				
Motor protection				
-Motor differential	87M	-	-	●
Locked rotor	50LR	●	●	●
Stall	50S	●	●	●
Reverse power	32R	-	●	-
Acceleration		-	●	-
Startup monitoring/ Excessive long start	66/48/51	●	●	●
Negative sequence over-voltage	47	-	●	-
Loss of load	37	●	●	●
Under-current	37P	●	●	●
Anti backspin (start internal)		●	●	●
Phase over current	50/51P	●	●	-
Ground fault	50N/51P	●	●	●
Negative sequence over-current (unbalance)	46	●	●	●
Thermal overload	49	●	●	●
Under / over-voltage	27/59	-	●	-
Residual over-voltage	59N	-	●	-
Circuit breaker failure	50BF	●	●	●
Trip circuit supervision	74TC	●	●	●
COMMUNICATION				
Front (USB)		●	●	●
Rear (RS-485) Modbus		●	●	●
Modbus on fiber optics		●	●	●
RJ-45 Modbus TCP/IP		●	●	●
IEC 60870-5-103 on fiber optics		●	●	●
RJ-45 IEC 60870-5-101		●	●	●
RS-485 IEC 60870-5-103		●	●	●
RJ-45 IEC 61850		●	●	●
SNTP Time Synch RJ-45		●	●	●
Webserver on RJ-45		●	●	●

Technical Data

Auxiliary voltage Uaux 24-260V AC/DC

Rated phase current I_p 1A & 5A (site selectable)

-current measuring range 30xI_p

Rated neutral current I_n 1A & 5A (site selectable)

Thermal withstand capability in current circuit
At I_p=1A
Continuous=5xI_p
for 10 Sec=30xI_p
for 1 Sec=100xI_p

Rated frequency f_n 50/60 Hz

Digital inputs (external voltage) 6 programmable

Trip contacts 6 programmable

Records

Disturbance recorder (1200 cycles) All analog channels and binary inputs/outputs

Event recorder 100

Fault recorder 10

Tests and Environment IEC 60255 / 60068

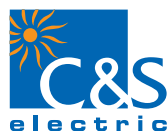
(EMC Emission / Immunity / Mechanical / EMI)

Operating temperature 70°C

Degree of protection IP54

Weight 1.5 kg

Dimension (WxHxD) 125.0x156.0x249.0 mm



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For more details please visit us at : www.cselectric.co.in