

Features

- Small & Compact in size
- Wide Range of operating current with in-built CT : 2A-45A
- User selectable Trip Class, nominal current, under load
- Auto/Manual Reset Mode
- Models for 1 Phase / 3 Phase systems
- 04 LEDs to indicate Power ON & faults
- 1 Trip Relay (with C/O contact)
- 35 mm DIN Rail mountable



mPRO-20

Application

Every motor failure causes a production stop and costs for service. A cable cut, phase failure, locked rotor or overload can destroy the motor or pose danger for the whole production line and for the people who work there. This is the reason why a reliable motor protection is very important and thus mPRO works as a safe guard. It can be used in following areas :

- Motor Control Center (MCC) application.
- Integrated Process & Electrical Control with Protection.

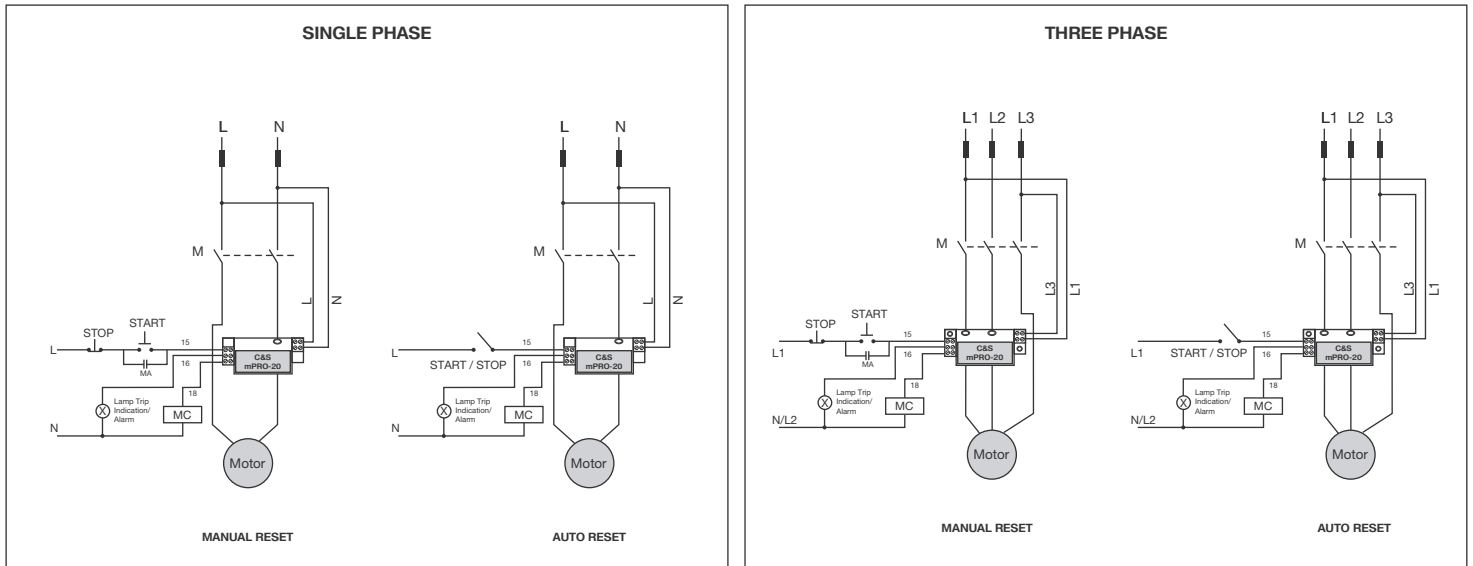
Technical Data

SPECIFICATIONS		
Aux Supply Voltage	Single Phase Model	Three Phase Model
	110 - 240V AC (P-N)	190 - 450V AC (P-P)
Frequency	50/60 Hz	
Power Consumption	6VA	
No. of In-built Cts	2	
Protections	Settings	Trip Time
a) Over load Thermal inverse	110% of IFL	As per Trip class 10A, 10, 20, 30
b) Under load	40% to 90%	5 Secs
c) Phase Reverse		100 ms Approx
d) Phase Loss	70% of unbalance	2 Secs
e) Current unbalance	50% of unbalance	5 Secs
f) Under load	40% to 90%	5 Secs
g) Locked Rotor	400% of set value	1 Secs
Thermal Memory	Yes	
Reset Mode	Auto / Manual	
Test Function	Yes	
Auto Reset Time	3-15 min (as per trip class)	
ON Delay	450 ms (\pm 50ms)	

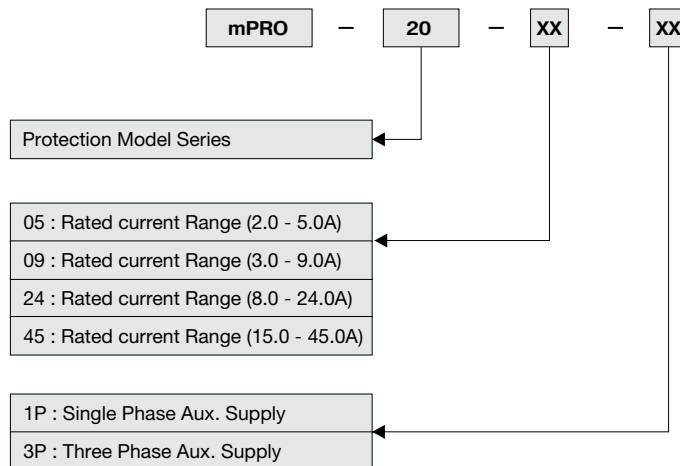
SPECIFICATIONS	
Setting Accuracy	\pm 5%
Repeat Accuracy	\pm 2%
Relay Output	1 C/O
Relay Contact Rating	5A @240V AC (Resistive)
Electrical Life	1 x 10 ⁵
Mechanical Life	1 x 10 ⁷
Utilization Category (AC-15)	
Rated voltage (Ue)	120/240V
Rated current (Ie)	3.0/1.5A
LED indication	Phase Asymmetry, Phase Loss & Reversal
	Power ON, Under load, Over load
Environmental Specifications	
Operating Temperature	-10°C to 60°C
Storage Temperature	-25°C to 70°C
Humidity	95% Rh
Design Standards	
EMI / EMC	IEC-61000 CISPR 14-1
Environmental	IEC 60068

Electronic Motor Protection Relay

Functional Diagram



Ordering Information



Dimension Details

All the dim. are in mm (Gen. Tol. : ± 1.0 mm)

