Motor Protection Relay

MPR341-2



Features :

- 3Ø - 3 Wire input
- Monitors over load (As per NEMA Curve), Over current, Under current
- Earth fault, Lock current, Current asymmetry
- Phase sequence, Phase failure
- LED Indication : Power ON, trip relay
- Test & Reset function via Front / Remote
- Panel mount

Certifications : CE

Technical specifications

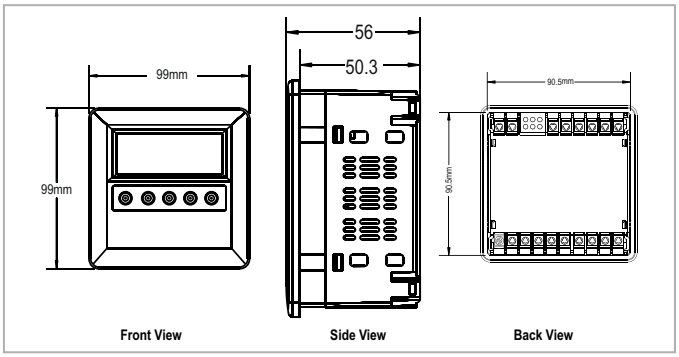
Display specifications		
Display	4 Digits, 7 Segment LED display	
No of LED	2	
No of keys	3	
LED Indication chart		
Various condition	**'R1' LED**	**'R2' LED**
No fault	OFF	OFF
Trip (Relay1)	ON	OFF
Alarm (Relay2)	OFF	Blinking
Trip (If Programming for both relay)	ON	ON
Display specifications		
Current measuring range		
A) Motor rated current measuring with measuring with MPCT from 3A to 80A - MPCT D15 10A - MPCT D15 40A - MPCT D15 80A		
B) Earth fault current measurement with EFCT from 1A to 160A - EFCT 100/25 160/1A VA 1 CL1 - EFCT 140/35 160/1A VA 1 Cl1		
Time settings		
Power ON delay	1 - 999sec	
Trip time delay	0-999sec	
(For OC, UC, LC, Asymmetry, Earth Fault)		
Phase failure	Instantaneous(<120ms)	
Phase reversal	Instantaneous(<120ms)	
Reset time	1-999sec for current parameters 1-999 sec for Earth fault	
Response time	<120ms	
Reset attempts	3 (fixed)	
Reset attempt time frame	0 - 999min	
Hysteresis		
Current	0 – 99A	
Resolution		
Current	0.01 for < 10A 0.1 for >10A	

ACCURACY	
Time	±5%+100msec
Current	5% of IR(Rated current)
Reset	Auto / Manual
Output specifications	
Relay 1	Trip (1CO)
Relay 2	Programmable as alarm / Trip (1CO)
Relay rating	NO (5A, 250V AC / 28VDC) NC (5A, 250V AC / 28VDC)
Auxiliary supply specifications	
Operating voltage range	90V - 270V AC / DC
VA Rating	4VA
Frequency	50-60Hz
Functional specifications	
Over load	NEMA class : Starts with OFF then Curve 5, 10, 15, 20, 30.
Over current	Ranges : Starts With OFF then 4A TO 480A Of IR (Rated Current) Step Size : 1A
Over current trip time	0 - 999sec
Under current	Ranges : Starts With OFF then 1A TO 79A Of IR (Rated current) Step size : 1A
Under current trip time	0 - 999sec
Current asymmetry	Ranges : starts With OFF then 1A TO (Ir-1)A Of IR (rated current) Step size : 1A
Current asymmetry trip time	0 - 999sec
Locked current / Stall current	(Ir+1)A to 60A(Default :20A) (Ir+1)A to 240A(Default : 80A) (Ir+1)A to 480A(Default: 160A) Step size : 1A
Locked current trip time	0 - 999sec
Earth fault	Ranges : Starts With OFF then 1A TO 160A Step size : 1%
Earth fault trip time	0 - 999sec
Phase loss	Present
Phase loss trip time	Instantaneous
Phase reversal	Present
Phase reversal trip time	Instantaneous
Reset time	0 - 999sec for Current related parameter 0 - 999sec for EFR
Environmental specifications	
Temperature	Operating temperature : 0C to 55C Storage temperature : -20C to +70C
Humidity	Upto 95% RH, Non condensing
Mechanical specifications	
Size	96 x 96 mm
Mounting	Panel mount
Wire size (max)	4 sq.mm
Screw tightening torque	0.5 N-M
Weight	300gm. approx

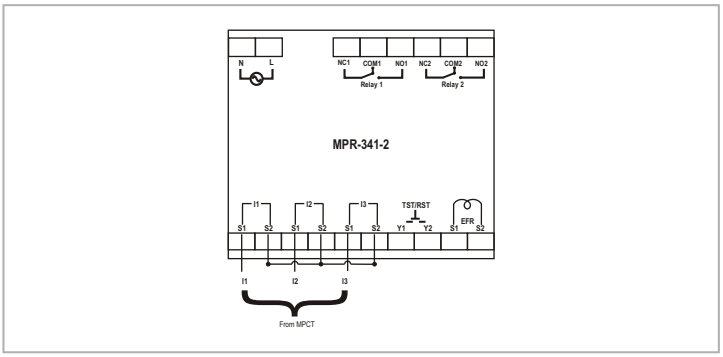
Motor Protection Relay

MPR341-2

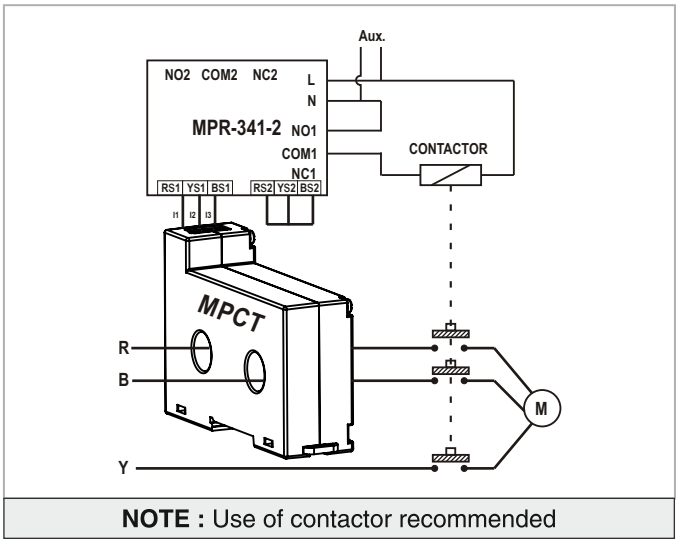
Dimensions (All are in mm)



Terminal connections

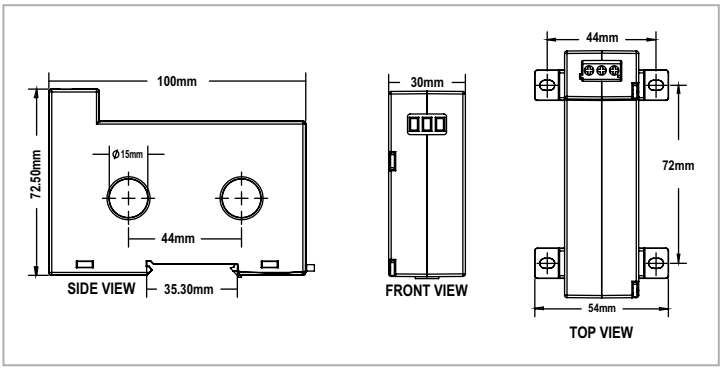


Dimensions (All are in mm)



NOTE : Use of contactor recommended

Dimensions (All are in mm)



Ordering information

Product Code	Supply voltage	Certification
MPR-341-2	90-270V AC/DC	---

Accesories

Product Code	Input current	Certification
MPCT D15 10 A	10 A	---
MPCT D15 40 A	40 A	---
MPCT D15 80 A	80 A	---

Product code	Turns ratio	Certification
EFCT 100/25 160/1A VA 1 CL1	160 / 1A	---
EFCT 140/35 160/1A VA 1 CL1	160 / 1A	---

Trip indication chart	
Trip indication	**Trip parameters**
t.UC	Under current
t.OC	Over current
t.LC	Locked current
t.CA	Current asymmetry
PHL	Phase loss
PHS	Phase sequence
t.OL	Over load
EFR	Earth fault