



MPD-152 Motor Protection Device

Features

- Auto/ Manual/ ZVR (Zero Value Reset) Reset Function
- True RMS Measurement
- User Selectable Trip Time

Protection Available

- ▶ Over/Under Voltage
- ▶ Over/Under Current
- ▶ Over/Under Frequency
- ▶ Single Phase Prevention
- ▶ Short Circuit
- ▶ Current Unbalance
- ▶ Phase Loss
- ▶ Lock Rotor Point
- ▶ Phase Sequence
- ▶ Neutral Loss

Specification

Input Voltage	30 to 300V AC (L-N) 50 to 520V AC (L-L)
Input Current	5A to 6000A/5A CT Ratio Selectable
Network Connection	3Ø-4W/3Ø-3W Selectable
Measurement Parameter	Voltage : $V_{L-L}(3Ø-3W), V_{L-N}(3Ø-4W)$ Current : All Phase Current (I_R, I_Y, I_B) Frequency : System Frequency
Accuracy	Class 1.0
Certificate	CE

LED Indication & Keys

LED 1	Relay LED
LED 2	Volt LED
LED 3	Amp LED
LED 4	KA (Kilo Ampere) LED
KEYS	SET, INC, DEC, RESET

Application

Electrical Control Panel
 Submersible Pump
 Road Construction Panel
 MCC Panel
 Industrial Chiller And HV AC System
 D.G. Set

Input

Voltage AC	
Direct Voltage	30 To 300V (L - N) 50 TO 520V (L - L)
Burden	<0.2 VA
Current AC	
Primary CT Ratio	5 To 6000A Programmable
Secondary Current AC	0,5 A to 5 Amp
Burden	<0.2 VA
Overload	UP to 6A Continuous
Starting Current	0,5 Amp
Frequency	45.0 TO 65.0 Hz

Auxiliary Power Supply

Power Supply	100 to 270V AC, 50Hz
Burden	3VA

Physical

Mounting Type	Din Rail Mount
Size (H x W x D)mm	75 X 55 X 110
Front Bezel (H x W) mm	75 X 55
Depth Behind panel (mm)	52
Material	ABS
Weight (gm)	347

Display , Keys & LED

Display	3 Digit, 3Line 7 seg. 0.28" Red LED Display
Key	SET, INC, DEC, RESET
LED	R(Relay),V(Voltage), I(Amp),KA(KiloAmp)

Environmental

Working Temperature	0 to 55 °C
Storage Temperature	0 to 55 °C
Relative Humidity	95% RH Non-condensing
Warm up time	5 minutes

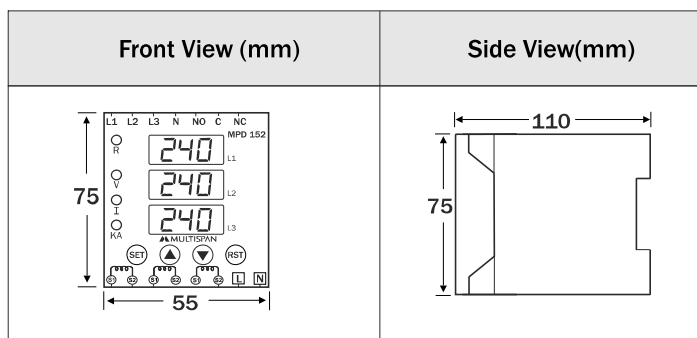
Calculated Parameter

Voltage	V
Current	All Phase Amp
Frequency	System Frequency

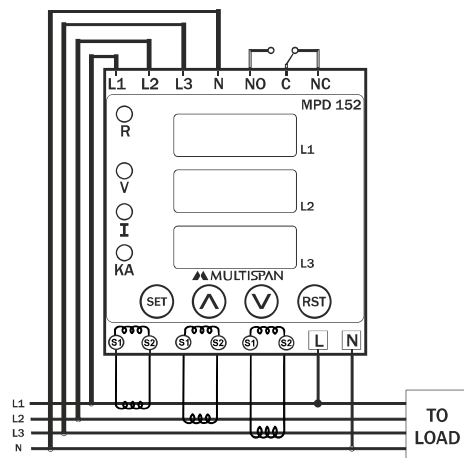
Accuracy

Class 1.0

Mechanical Dimension



Connection Diagram



Ordering Information

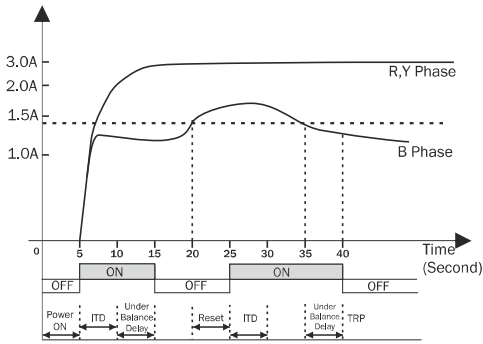
Part No.	Input Current	Supply Voltage
MPD-152-A2-00	5 to 6000 Amp Primary CT Selectable	100-270V AC
MPD-152-A2-01	30A with DIN 30 - 3 CT	100-270V AC
MPD-152-A2-02	60A with DIN 60 - 3 CT	100-270V AC
MPD-152-A2-03	30A with DIN 30AN CT	100-270V AC
MPD-152-A2-04	60A with DIN 60AN CT	100-270V AC
MPD-152-A2-05	100A with DIN 100AN CT	100-270V AC

Control Function

Unbalance

Power On:- 5 Sec
Initial Time Delay:- 5 Sec
Unbalance:- Enable

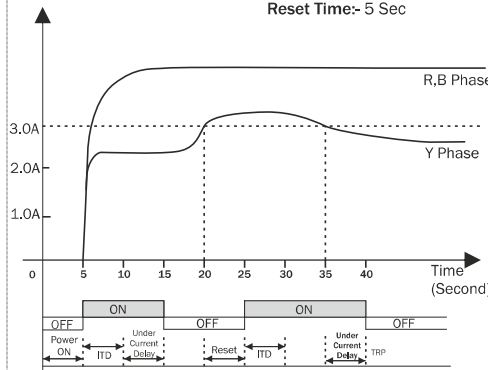
Unbalance Percentage:- 50%
Unbalance Time:- 5 Sec
Relay Fault:- OFF
Reset Mode:- Auto
Reset Time:- 5 Sec



Under Current

Power On:- 5 Sec
Initial Time Delay:- 5 Sec
Under Current:- Enable

Under Current:- 3.0A
Under Current time:- 5 Sec
Relay Fault:- OFF
Reset Mode:- Auto
Reset Time:- 5 Sec

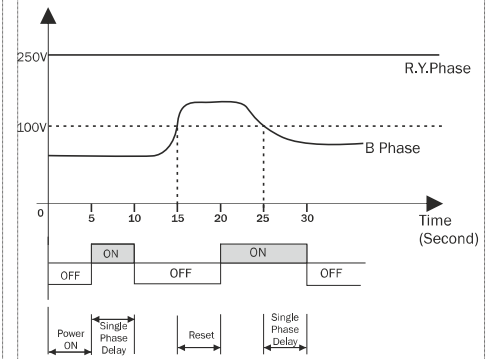


Single Phase Prevention (SPP)

(For Voltage)

Power On:- 5 Sec
Initial Time Delay:- 5 Sec
SPP:- Enable

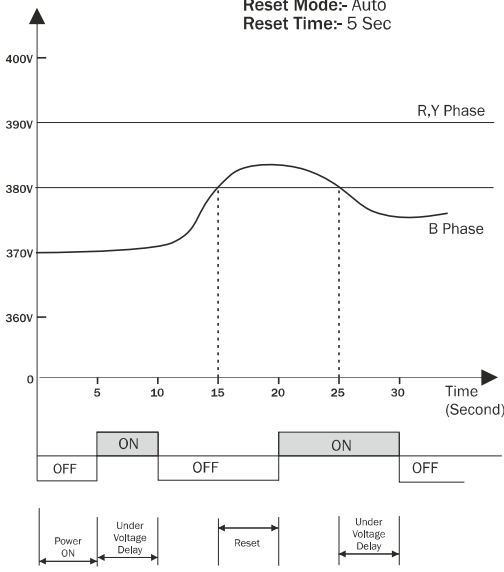
SPP Time:- 5 Sec
Reset Time:- 5 Sec
Reset Fault:- OFF
Fault Reset mode:- Auto



Under Voltage

Power On:- 5 Sec
Initial Time Delay:- 5 Sec
Under Voltage:- Enable

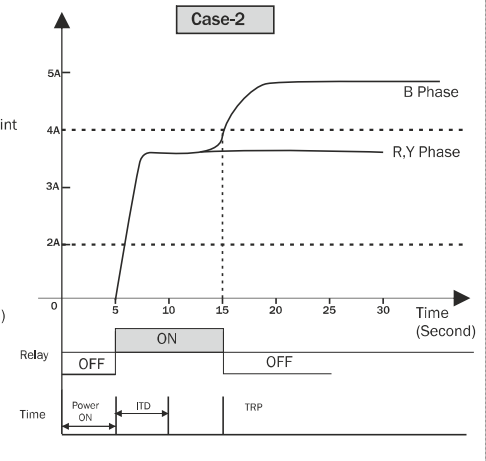
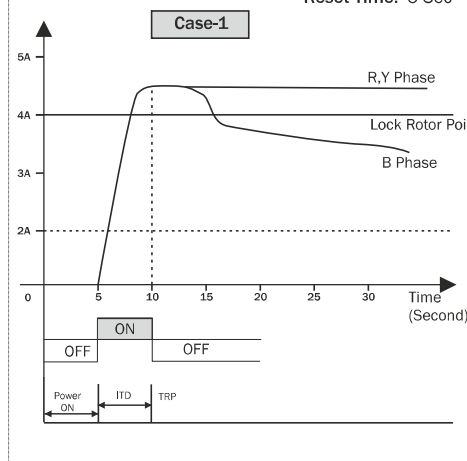
Under Voltage:- 380V
Under Voltage time:- 5 Sec
Relay Fault:- OFF
Reset Mode:- Auto
Reset Time:- 5 Sec



Lock Rotor Point

Power On:- 5 Sec
Initial Time Delay:- 5 Sec
Lock Rotor Point:- Enable
Over Current:- Disable

Lock Rotor Point:- 2.0
Over Current Value:- 2.0A
Relay Fault:- OFF
Reset Mode:- Auto
Reset Time:- 5 Sec



We reserve the right to change specifications without prior notice. Printing and typographical errors reserved.

Product improvement and upgrade is a constant procedure. So for more updated operating information & support contact Mimic Components (0)11-689-5700

MPD-192 Motor Protection Device



Features

- Auto/ Manual/ ZVR (Zero Value Reset) Reset Function
- True RMS Measurement
- User Selectable Trip Time

Protection Available

- | | |
|---------------------------|---------------------|
| ▶ Over/Under Voltage | ▶ Current Unbalance |
| ▶ Over/Under Current | ▶ Phase Loss |
| ▶ Over/Under Frequency | ▶ Lock Rotor Point |
| ▶ Single Phase Prevention | ▶ Phase Sequence |
| ▶ Short Circuit | ▶ Neutral Loss |

Specification

Input Voltage	30 to 300V AC (L-N) 50 to 520V AC (L-L)
Input Current	5A to 6000A/5A CT Ratio Selectable
Network Connection	3Ø-3W/3Ø-4W Selectable
Measurement Parameter	Voltage : V_{L-L}, V_{L-N} Current : All Phase Current (I_R, I_Y, I_B) Frequency : System Frequency
Accuracy	Class 1.0
Certificate	CE

LED Indication & Keys

LED 1	Relay LED
LED 2	Fault LED
LED 3	V_{LN} (Line to Neutral Voltage) LED
LED 4	V_{LL} (Line to Line Voltage) LED
LED 5	A (Ampere) LED
LED 6	KA (Kilo Ampere) LED
KEYS	SET, INC, DEC, ACK

Application

- Electrical Control Panel
- Submersible Pump
- Road Construction Panel
- MCC Panel
- Industrial Chiller And HV AC System
- D.G. Set

Input

Voltage AC	
Direct Voltage	30 To 300V (L - N) 50 TO 520V (L - L)
Burden	<0.2 VA
Current AC	
Primary CT Ratio	5 To 6000A Programmable
Secondary Current AC	60mA to 5 Amp
Burden	<0.2 VA
Overload	UP to 6A Continuous
Starting Current	60mA
Frequency	45.0 TO 65.0 Hz

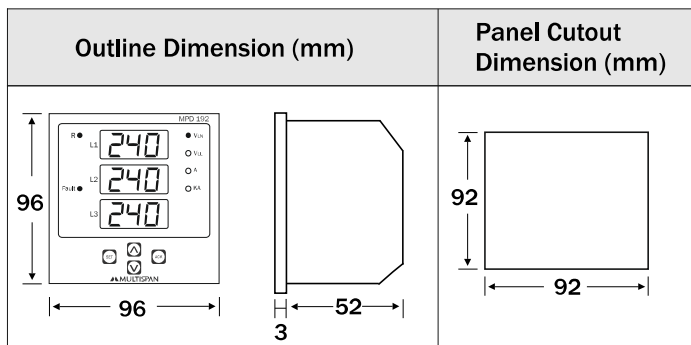
Display & Keys

Display	3 Digit, 3Line 7 seg. 0.56" Red LED Display
Key	SET, INC, DEC, ACK
LED	A, KA, V _{LL} , V _{LN} , R, Fault

Calculated Parameter

Voltage	V _{LL} , V _{LN}
Current	All Phase Amp
Frequency	System Frequency

Mechanical Dimension



Auxiliary Power Supply

Power Supply	100 to 270V AC, 50/60Hz
Burden	4VA

Physical

Mounting Type	Panel Mount
Size (H x W x D)mm	96 X 96 X 52
Front Bezel (H x W) mm	96 X 96
Panel Cutout (H x W) mm	92 X 92
Depth Behind panel (mm)	52
Material	ABS
Accessory	2 Panel Mounting Clamp
Weight (gm)	420
Enclosure Protection (As Per Request)	IP 65 (Front Side)
Terminal & Cable Size	Barrier Type terminal Cable Size (2.5 mm ²)

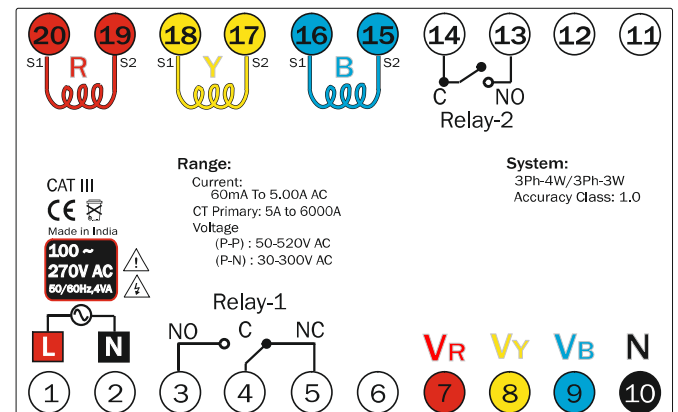
Environmental

Working Temperature	0 to 55 °C
Storage Temperature	0 to 55 °C
Relative Humidity	95% RH Non-condensing
Warm up time	5 minutes

Accuracy

Class 1.0

Connection Diagram



MPD-192

Ordering Information

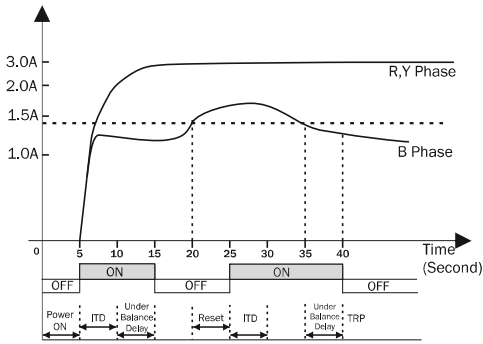
Part No.	Input Current	Supply Voltage
MPD-192-A2-00	5 to 6000 Amp Primary CT Selectable	100-270V AC
MPD-192-A2-01	30A with DIN 30 - 3 CT	100-270V AC
MPD-192-A2-02	60A with DIN 60 - 3 CT	100-270V AC
MPD-192-A2-03	30A with DIN 30AN CT	100-270V AC
MPD-192-A2-04	60A with DIN 60AN CT	100-270V AC
MPD-192-A2-05	100A with DIN 100AN CT	100-270V AC

Control Function

Unbalance

Power On:- 5 Sec
Initial Time Delay:- 5 Sec
Unbalance:- Enable

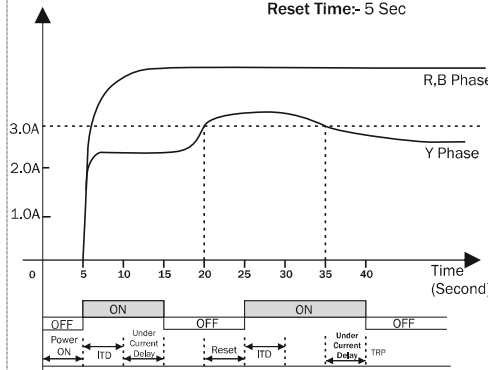
Unbalance Percentage:- 50%
Unbalance Time:- 5 Sec
Relay Fault:- OFF
Reset Mode:- Auto
Reset Time:- 5 Sec



Under Current

Power On:- 5 Sec
Initial Time Delay:- 5 Sec
Under Current:- Enable

Under Current:- 3.0A
Under Current time:- 5 Sec
Relay Fault:- OFF
Reset Mode:- Auto
Reset Time:- 5 Sec

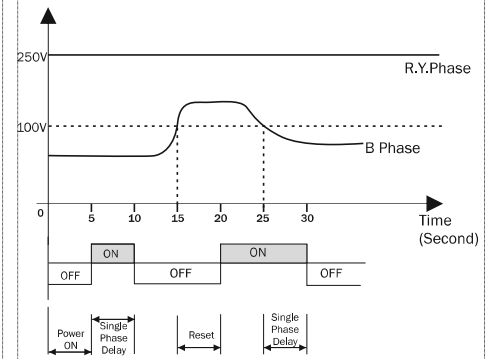


Single Phase Prevention (SPP)

(For Voltage)

Power On:- 5 Sec
Initial Time Delay:- 5 Sec
SPP:- Enable

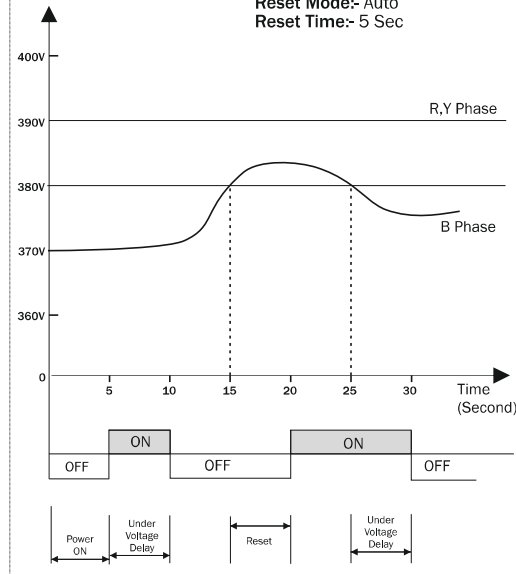
SPP Time:- 5 Sec
Reset Time:- 5 Sec
Reset Fault:- OFF
Fault Reset mode:- Auto



Under Voltage

Power On:- 5 Sec
Initial Time Delay:- 5 Sec
Under Voltage:- Enable

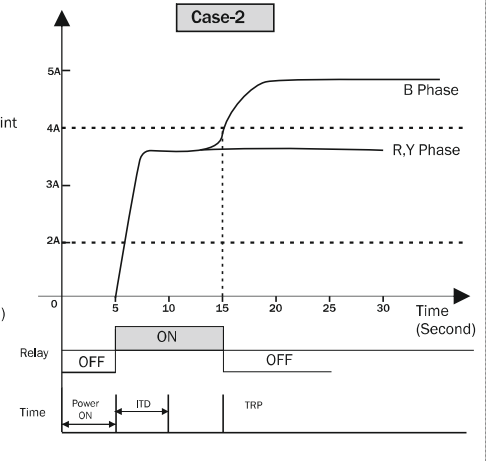
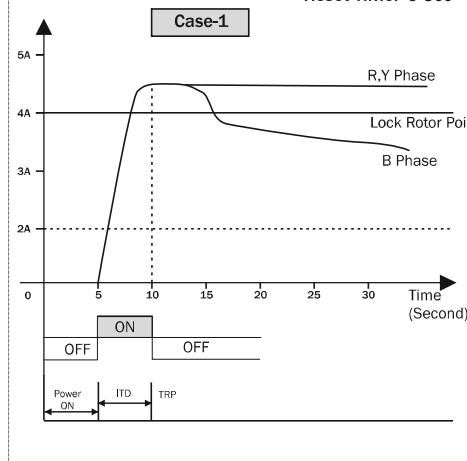
Under Voltage:- 380V
Under Voltage time:- 5 Sec
Relay Fault:- OFF
Reset Mode:- Auto
Reset Time:- 5 Sec



Lock Rotor Point

Power On:- 5 Sec
Initial Time Delay:- 5 Sec
Lock Rotor Point:- Enable
Over Current:- Disable

Lock Rotor Point:- 2.0
Over Current Value:- 2.0A
Relay Fault:- OFF
Reset Mode:- Auto
Reset Time:- 5 Sec



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