

Features:

- 1Ø 2 Wire, 3Ø 4 Wire Input
- Monitors Under voltage, Over voltage, Phase asymmetry,
 Phase failure & Phase sequence
- True RMS Measurement
- Power ON delay, Trip Time Delay & Recovery time delay
- Adjustable Switching Hysteresis
- One relay with two change over
- LCD with backlight
- DIN Rail Mount

Size: 35mm (Width)

Certifications: C € RoHS

Technical Specifications

Display

Display	Liquid Crystal Display with backlight
Digits	3

Input Specifications

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Measurements Under voltage, Over voltage, Phase

asymmetry, Phase failure & Phase sequence

Time Setting Power ON delay, Trip time delay, Recovery time

delay

Alarm Indications Trip

Latching Selectable
Reset Auto / Manual

Electrical Connection 1Ø - 2Wire, 3Ø - 4Wire

Auxiliary Supply

Supply Voltage Self powered

Nominal Input Voltage, Un 230V AC (L-N)

Operating Voltage 127 to 288V AC (L-N)

VA Rating 5VA max Frequency 48 - 63Hz

Trip Settings

Under Voltage 127 to 219V AC (L-N)
Over Voltage 242 to 288V AC (L-N)

Phase Sequence Yes
Phase Failure Yes
Phase Asymmetry 5 - 30%

Trip Time Settings

Power On Delay 0.5-300 sec
Trip Time Delay 0-300 sec

Recovery Time Delay 0-300 sec (In auto reset mode)

Response Time <150ms

Hysteresis

Voltage 1.0 - 99.9V for voltage Asymmetry 2 - 20% (Only for 3Ø 4wire)

Resolution

Voltage 1V

Time Setting

 0-10sec
 0.1sec

 10-99sec
 1sec

 100-300sec
 10sec

Accuracy

Voltage ±1% ±2 digits

Time Setting Accuracy $\pm 5\%$ of setting ± 150 ms

Output Specifications

 No. of Relays
 1

 Type of Output
 2 C/O (DPDT)

 Contact Rating
 NO, NC : 5A @ 250V AC

 Electrical Life
 1 x 10⁵ (1000000)

 Mechanical Life
 1 x 10⁷ (10000000)

LED Indication

LED (Red) Relay (Continuously ON after trip)

Environmental Specifications

Ambient Temperature Operating Temperature: -10°C to 55°C

Storage Temperature : -25°C to +70°C

Humidity (non-condensing) Upto 95% RH

Pollution Degree 2

Degree of protection IP50 Faceplate IP30 Housing

IP20 Terminals

www.selec.com 1

Mechanical Specifications

No. of Push Button 3 Enclosure **UL 94V0** Size 35mm (width) Mounting DIN Rail Weight 112gms Protection Level

IP20 for Terminals IP40 for Enclosure

Conductor cross section (Solid) 1 x (0.5 to 4) Sq mm Conductor cross section sleeved 2 x (0.5 to 1.5) Sq mm (Stranded) 1 x (0.5 to 2.5) Sq mm

Screw tightening torque 0.5 N-m

Standards

EMI/EMC IEC61326-1 (2005-12) Electromagnetic compatibility IEC 61326-1 ESD Immunity: IEC 61000-4-2 Level III Surge Immunity: IEC 61000-4-5 +/- 2 kV common mode, +/- 1 kV differential mode Radiated Susceptibility: IEC 61000-4-3 Level III. 80 to 1000 MHz Level II, 1GHz to 2GHz Level I, 2GHz to 2.7GHz Conducted Susceptibility: IEC 61000-4-6

Voltage Dips and Interruption: Dips: 0% residual voltage/1 cycle

IEC 61000-4-11 (Crit A.),

40% residual voltage/10 cycles 50 Hz /

12 cycles 60 Hz (Crit A)

70% residual voltage / 25 cycles 50 Hz

/ 30 cycles 60 Hz (Crit C)

Interruptions: 0% residual voltage / 250 cycles 50 Hz / 300 cycles 60 Hz

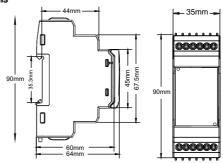
(Crit C)

Conducted Emissions CISPR-11 & IEC 61000-6-3

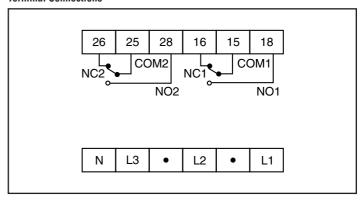
Radiated Emissions CISPR-11 Electrical Fast Transient: IEC 61000-4-4 Level 3.

Safety IEC61010-1 (2010) Breakdown Voltage IEC61010-1 (2.5kV)

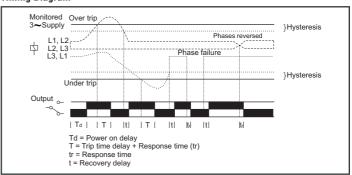
Dimensions



Terminal Connections



Timing Diagram



Ordering Information

Part No.	Supply Voltage	Certification	Backlight
VPRD2M-BL-CE	127 to 288V AC (L-N)	C€ RoHS	Yes