

DIN 35mm

Features

- 1Ø 2 Wire, 3Ø 3 Wire, 3Ø 4 Wire input
- Monitors Under voltage, Over voltage, Under frequency, Over frequency, Phase asymmetry, Phase failure, Phase sequence and Neutral loss in (3Ø - 4W) system
- True RMS measurement
- Power ON delay, Trip time delay and Recovery time delay
- · Adjustable switching hysteresis
- Two relays with NO or NC operation selectable

Certification : **C** €

Display specifications

| Туре | Digital |
|--------------------|------------------------|
| Display | Liquid Crystal Display |
| No. of LED | 3 |
| No. of push button | 3 |

LED indication chart

| Condition | POWER LED | 'R1' LED | 'R2' LED |
|--------------------------------------|--------------|----------|----------|
| No fault | ON | OFF | OFF |
| Trip (Relay1) | ON | ON | OFF |
| Trip (Relay2) | ON | OFF | ON |
| Trip (If Programming for both relay) | ON | ON | ON |

Input specifications

| input specifications | |
|----------------------|---|
| Functions | |
| Measurements | Under voltage, Over voltage, Under frequency, Over frequency, Phase asymmetry, Phase failure, Phase sequence and Neutral loss Note: In 3P4W, when neutral is absent all L-N voltage are zero |
| Time setting | Power on delay, Trip time delay and Recovery time delay, Response time |
| Alarm indications | Trip |
| Latching | Fail safe & shunt trip mode (selectable) |
| Reset | Auto / Manual |
| Measuring range | 3Ø - 3 wire (L-L) : 280 to 600V AC 3Ø - 4 wire (L-N) : 160 to 300V AC 1Ø - 2 wire (L1-N1) : 160 to 300V AC |
| Trip settings | |
| Under voltage | 280 to 600V AC (L-L) [for 3Ø - 3 wire] 160 to 300V AC (L-N) [for 3Ø - 4 wire] 160 to 300V AC (L1-N1) [for 1Ø - 2 wire] |
| Over voltage | 280 to 600V AC (L-L) [for 3Ø - 3 wire] 160 to 300V AC (L-N) [for 3Ø - 4 wire] 160 to 300V AC (L1-N1) [for 1Ø - 2 wire] |
| Under frequency | 45 - 65Hz |
| Over frequency | 45 - 65Hz |
| Phase asymmetry | 5 - 99% |
| Hysteresis | |
| Voltage | 1.0V -99.9V |
| Frequency | 0.2 - 2.0Hz |
| Asymmetry | 2.0 - 20% |

Input specifications

| Resolution | |
|------------|------------------------|
| Voltage | 1V |
| Frequency | 0.1Hz |
| Accuracy | |
| Voltage | ±1% of full range |
| Frequency | ±0.3Hz |
| Time | ±5% of setting, ±250ms |

Output specifications

| Relay output | 2 SPDT Relays (1 C/O) |
|--------------|--------------------------------------|
| Relay rating | NO (5A @ 250V AC), NC (3A @ 250V AC) |

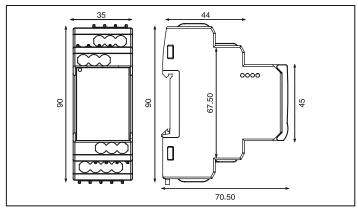
Environmental specifications

| Operating temperature | 0 to 55°C |
|---------------------------|--------------|
| Storage temperature | -20 to 70°C |
| Humidity (Non condensing) | Up to 95% RH |
| Degree of protection | IP20 |

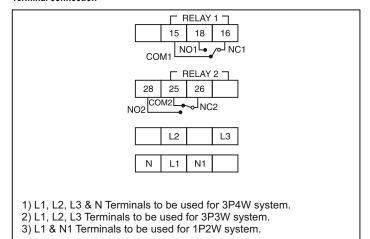
Mechanical specifications

| Dimension (in mm) | 35 x 90 x 70.5 (W x H x D) |
|----------------------------|----------------------------|
| Weight (unpacked) | 135 gms |
| Mounting | Din Rail |
| Terminal torque & capacity | 0.5 NM |
| Enclosure | LEXAN N923(PC) |

Dimensions (All are in mm)



Terminal connection



Compliance

| Applicable EMC standards | | |
|--|---------------------|--|
| Product standard - IEC 60255-1/IEC 60947-5-1 | | |
| Category | Reference standards | |
| Electrostatic discharge | IEC 61000-4-2 | |
| Electrical fast transient / Burst | IEC 61000-4-4 | |
| Electromagnetic field | IEC 61000-4-3 | |
| Surge | IEC 61000-4-5 | |
| Conducted RF | IEC 61000-4-6 | |
| Rated power frequency | IEC 61000-4-8 | |
| Voltage dip / Short interruptions | IEC 61000-4-11 | |
| Conducted emissions | CISPR-22 | |
| Radiated emissions | CISPR-11 | |

Environmental

| Product standard : IEC 60255-1/IEC 60947-5-1 | | |
|--|----------------------------------|--|
| Safety test standard : IEC 61010-1 | 1.High voltage test | |
| | 2.Impulse voltage withstand test | |
| | 3.Resistance to heat test | |
| | 4.Single fault test | |
| | 5.Temperature rise test | |

Ordering information

| Product code | Operating range | Certification |
|---------------------------|-----------------|---------------|
| 900VPR-2-280/600V-CE-RoHS | 280 to 600V AC | C€ |

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