



VOLTAGE PROTECTION RELAY USER MANUAL

Thank you for choosing Voltage Protection Relay. Please read this manual before installation, operation and maintenance.

OVERVIEW

Voltage protection relay uses a high-speed and lowpower processor as its core. When the power supply line has over-voltage, under-voltage, or phase failure, phase reverse, the relay will cut off the circuit quickly and safely to avoid accidents caused by abnormal voltage being sent to the terminal appliance. When the voltage returns to the normal value, the relay will turn on the circuit automatically to ensure the normal operation of the terminal electrical appliances under unattended conditions.

1. Cut off the line when Over & Under Voltage occurs, and automatically reset and connect the line after returning to normal without manual operation.
2. When the line appears transient or transient Over & Under Voltage, the protector does not malfunction.

STANDARD AND QUALITY CERTIFICATES

IEC/EN 60947-5-1

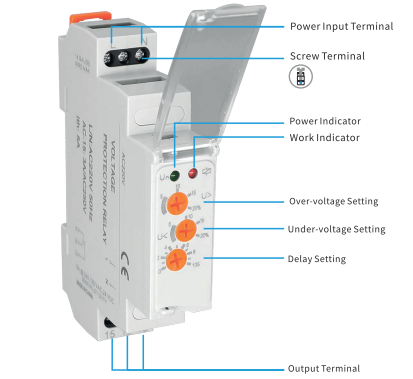
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TECHNICAL SPECIFICATIONS

Monitoring Type	Single Phase (VPR1/S)	Three Phase (VPR3/F)
Output Characteristics	SPDT	SPDT
Over Voltage	0 ~ 20%	15%
Under Voltage	0 ~ 20%	15%
Time Delay	0.1 ~ 10S	3S
Phase Sequence	-	√
Phase Failure	-	√
Working Voltage	AC110V or 220V	AC220V,380V,400V,415V,440V
Frequency	50/60Hz	50/60Hz
Response Time of Relay	0.5s	0.5S
Contact Rating	AC-15:3A/250VAC	AC-15:3A/250VAC
Ambient Temperature	-10°C ~ +55°C	-10°C ~ +55°C
Voltage Error	±2% Max	±2% Max
Temperature Error	±2% Max	±2% Max

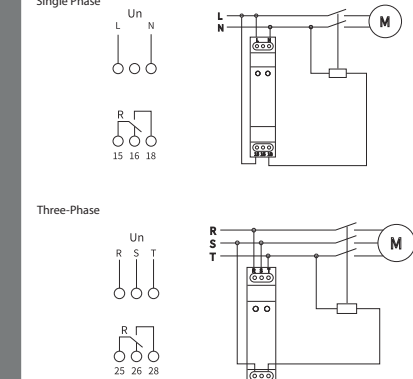
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PRODUCT FUNCTIONS



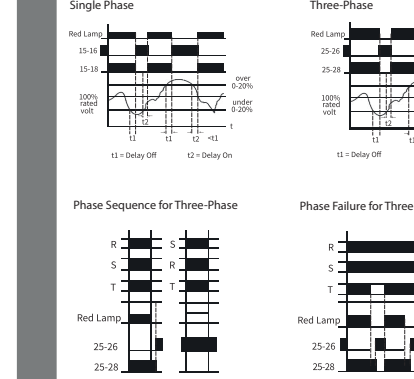
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WIRING DIAGRAMS



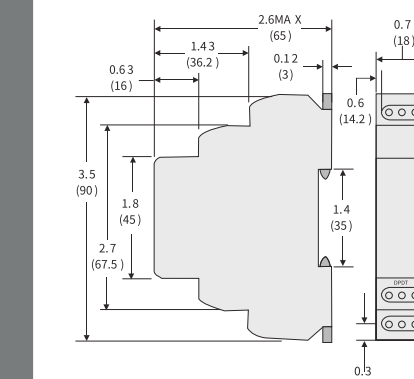
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OVER & UNDER VOLTAGE



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DIMENSIONS (mm)



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WARRANTY CONDITIONS

- Warranty period starts as of the delivery date of the product and it is 2 years.
- Warranty covers the malfunctions likely to occur due to the manufacturing defects of the product and within the warranty period.
- The product including all of its parts is under warranty as a whole. If the product turns out to be defective, the consumer can use one of the following rights stipulated in Article 11 of Consumer Protection Law no. 6502:
 - a- Withdrawal from the contract
 - b- Demanding discount from sales fee
 - c- Demanding free repair,
 - d- Demanding the replacement of the sold one with a fungible one free from defects.
- In case the consumer chooses the right of free repair among those rights; the dealer is obliged to repair the product or have the product repaired without claiming any fee under the name of replaced part fee, labor cost or for any other reasons. The consumer can also use the right of free repair against the manufacturer or exporter. The dealer, manufacturer and exporter are jointly and severally liable for the usage of this right by the consumer.
- In case the consumer uses the right of free repair and if the product - fails within the warranty period again and - the maximum period required for the repair is exceeded and - Authorized service station, dealer, manufacturer or exporter state that it's not possible to repair the product in a report, the consumer can demand the return of the product fee, fee discount at the ratio of the defect or the replacement with the one free of defects, if possible, from the dealer. The dealer can not reject the demand of the consumer. In case this demand is not met, the dealer, manufacturer and exporter shall jointly and severally be held responsible.

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WARRANTY CONDITIONS

- The repair period of the product can not exceed 20 business days. This period starts on the notification of the failure on the product to the authorized service station or the dealer within the warranty period and from the date of delivery of the product to the authorized servicestation out of warranty period. In case of not eliminating the product malfunction within 10 business days, manufacturer or importer is obliged to dedicate another product with similar characteristics to the use of the consumer until the completion of the product repair. In case the product fails within the warranty period, elapsed time is added to the warranty period.
- Usage of the product contrary to the rules stipulated in user's manual, operating out of determined voltage, current and environmental conditions, damage on the cable connection due to the user's fault and failure of the product due to the facts arising from the fire, flood, earthquake, lightning and similar disasters are not under warranty.
- The consumer can apply to the arbitration committee for consumers or the consumer court where the consumer operations are made or in the residential area for the disputes to be occurred regarding the usage of the rights arising from the warranty.
- In case the dealer doesn't provide this certificate of warranty, the consumer can apply to the General Directorate of Consumer Protection and Market Surveillance of Ministry of Customs and Trade

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WARNING

- Ensure that the power is cut off before the assembly of the products
- Connection and assembly of the electrical devices should be carried out only by the technical personnel having certificate of competency.
- No responsibility is assumed for the entire of the malfunction, accident and loss arising from the assembly or interference of the persons not having the competency certificate.
- Never use alcohol, cologne, detergent or other similar chemicals for cleaning. Do not perform wet cleaning do not contact the product with water when the product is energized.
- Keep the product away from the damp or wet environment during the transportation and shipping.

PANASONIC AND ENVIROMENT

As Panasonic, we are aware of the contribution of a balanced relation established between human and nature to the sustainable life. Thanks to our continuous innovation and R&D studies, we prefer materials and technologies that are not affecting the environment in a negative way during the production and usage of the products starting from the designing phase. We take necessary measures to use energy and natural sources in a more efficient way.



PANASONIC CUSTOMER RELATIONS

Dear Customer,
We believe in providing quality service to your as well as offering quality products.

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