Analogue Phase Monitor

EPAK-VMR-3PH-PH 7760054248

Safety instructions

⚠ DANGER	
⚠	For safe installation and safe operation the following must be observed: • The device may only be installed by qualified personnel familiar with the national and international laws, directives and standards that apply to this region. • Until the device is installed, do not connect hazardous voltages to the device. • In applications where hazardous voltage is connected to in-/outputs of the device, sufficient spacing or isolation from wires, terminals and enclosure to surroundings (incl.neighbouring devices), must be ensured to maintain protection against electric shock.
⚠ WARNING	
⚠	•Prior to installation, commissioning and maintenance of the device, the related safety regulations, technical specifications and operating instructions must be observed. • Avoid direct sunlight, dust, high temperatures, mechanical vibrations and shock as well as rain and heavy moisture. • All devices can be used for Measurement Category II and Pollution Degree 2. The device is designed to be safe at least under an altitude up to 2000 m. • The device is provided with field wiring terminals and shall be supplied from a power supply having double or reinforced insulation. A power switch should be easily accessible and close to the device.The power switch shall be marked as the disconnecting unit for the device. • Year of manufacture can be taken from the first two digits in the serial number. • When disconnected, the device may be cleaned with a cloth moistened with distilled water.
⚠ CAUTION	
⚠	• Appropriate safety measures against electrostatic discharge (ESD) are be considered when handling the devices.

■ Introduction

The module monitors the status of the Phase in three-phase power supply system. A relay with changeover contact is used for the switching output. The relay acts while the monitored parameters are normal; the relay resets while the monitored parameters are abnormal. The input and output are galvanically isolated between each other.

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■ Specification

Channel：1
Input:
Input signal: 3-Phase (N)
Input range: 400V AC(L-L) ± 15%
Input freqency:48Hz~63Hz

Output:
Contacts of relay:1 set of individual SPDT
Max Switching voltage: 250VAC/30VDC
Continuous current: 3A @ 250VAC/30VDC
Mechanical endurance :1x10^7
Alarm mode: Phase sequence, Phase Failure
Step response time: ≤ 200ms
Temperature coefficient: < 250ppm/K

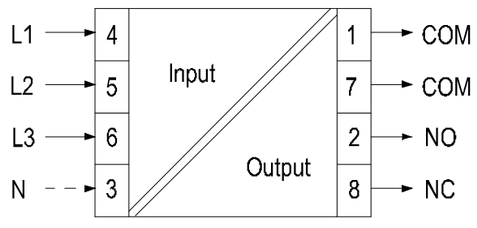
Insulation Coordination：
Standards:EN50178
EMC standards: IEC61000-6-2,IEC61000-6-4
Rated voltage: 300VAC
Impulse withstand voltage: 4000V(1.2/50us)
Isolation voltage:2000VAC, 1min, 50Hz
Overvoltage category: III
Pollution degree:2

General Data：
Operating temperature: -20 ~ +60˚C
Storage temperature: -40 ~ +85˚C
Humidity: 0 ~ 85%, Tu=40°C, no condensation

Indicator:
LED PWR: Green, power on
LED ALM: Red, alarm

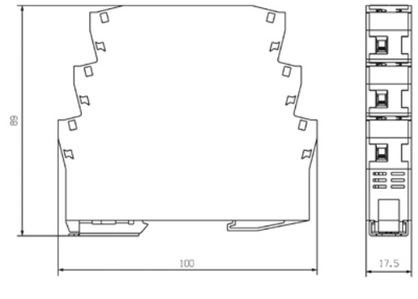
Approval: CE

■ Wiring

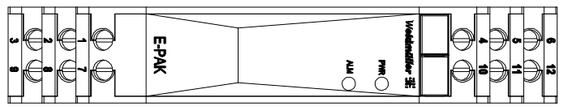


■ Dimensions

HeightxLengthxWidth : 100 x 89 x 17.5(mm)

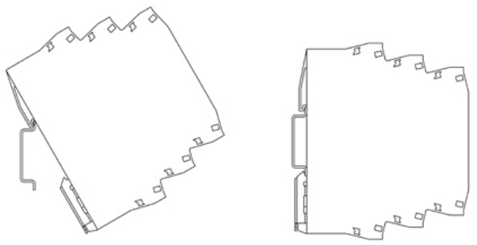


■ Front cover and terminal definition



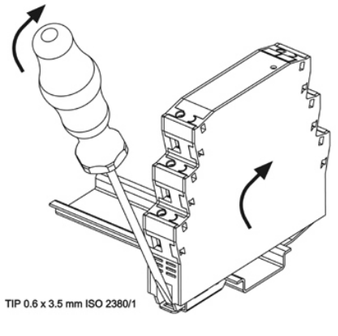
■ Installation

The product is designed to be mounted onto a TS 35 DIN rail. It clips onto the rail via a spring-loaded mounting foot and can be removed via a spring release on the edge of the product near the mounting rail.



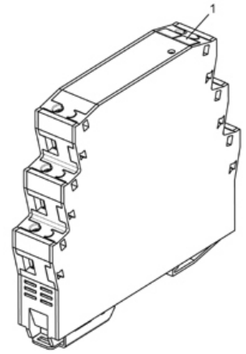
■ Uninstallation

Please refer to the following picture when try to uninstall the isolator from the Din rail. Insert the screw driver into the hold of the house foot and turn the screw driver to take off the isolator.



■ Marker

A device marker is located below the upper set of terminals for customer identification.



■ Maintenance

(1)Before powering the isolator, make sure the models type is correct according to the design and the application environmental conditions.
(2)Please choose the power supply with short circuit protection function.
(3)After the electronic products have been powered for more than fifteen minutes, the temperature of them should be stable.
(4)It is strictly prohibited to test the insulation capability between any two terminals of the product by a mega-ohmmeter. All of the connecting wires of the isolator must be disconnected, before testing the Insulation of the system, otherwise internal components will be destroyed.
(5)Each product has been tested strictly and the quality is controlled rigidly. If you have any questions regarding this product, contact the nearest distributor or our company technical support hotline directly for assistance.
(6)In 12 months from delivery date, if the product works improperly in the process of normal usage, we will repair or replace it without charge.

Mat No.： 1486230000 V00