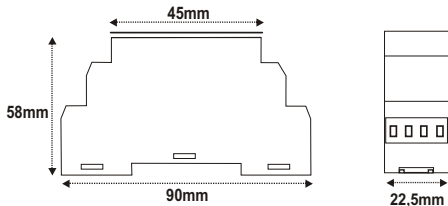
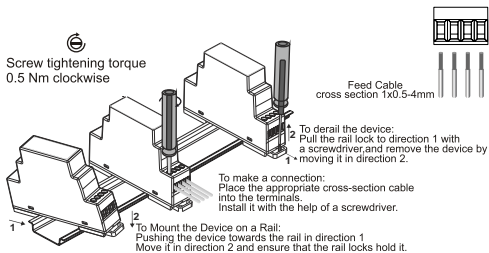


CONNECTION DIAGRAM



MOUNTING



PHASE SEQUENCE & PHASE FAILURE DEVICE USER GUIDE



SFMK 03N

WITHOUT NEUTRAL
True RMS

CORRECT USE AND SAFETY CONDITIONS

- Failure to follow the following instructions may result in injury or death situations may arise.
- The device is suitable for indoor use
- The installation, assembly, commissioning and operation of this device may only be carried out by persons with an appropriate license. must be made and used in accordance with safety regulations and instructions.
- Disconnect all power when the device is connected to and disconnected from the panel.
- Do not remove the front panel while the device is connected to the mains.
- Do not clean the device with solvents or similar substances. Use only dry cloth!
- Check that all connections are correct before operating the device.
- Please do not interfere with the device in case of a technical problem and contact the technical service as soon as possible.
- Do not dispose of the device in the garbage, but take it to device collection centers (electrical and electronic equipment recycling points) must be delivered. Recycle or dispose of without harming nature and human health.
- The device must be used in environments free of flammable and corrosive gases.
- In case of failure to observe the warnings mentioned above, you are responsible for the negative consequences that may arise. Our company or authorized dealer cannot be held responsible in any way.



**CUSTOMER
SUPPORT CENTER**
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GENERAL SPECIFICATIONS

SFMK 03N is protect motors from ;

- _Phase loss
- _Phase sequence failure
- _Phase asymmetry

Protection Functions

I- Phase Loss : If the system has lost one of the phases, the output is closed without delay "Out" led is off .

II-Phase Sequence Failure : If the sequence of the phases are wrong the output is closed without delay. Any case if the sequence is changed during normal operation the output is closed without delay ."Out" led is off

III- Voltage Asymmetry: If system's phase-phase voltage values are between the adjusted asymmetry value, "out" led is on (2-3 contacts are closed). Otherwise the output is closed (1-2 contacts are closed). During normal operation, if asymmetry occurs "Asym." Led is on and if it continues more than adjusted delay time device will cut-off the system (1-2 contact are closed). If it return normal value will continue to normal operation

$$\text{Asymmetry (\%)} = \frac{\text{The max. deviation between Ph-ph values}}{\text{Nominal value of Ph-ph}} \times 100$$

IV- If any ph-ph values increases over 500V or decreases 200V device will closed the system without delay."Out" led is off.

TECHNICAL SPECIFICATIONS

Supply Voltage	: 3X380 Vac, 50/60 Hz
Asymmetry Adjustment	: %15
Asymmetry hysteresis	: 9V
Delay (OFF) Time	: 1sec
Delay(ON) Time	: 1sec.
Power Consumption	: <= 7VA
Ambient Temperature	: -5°C...+55°C
Contact Type	: 1 inverter, 10A/250Vac
Electrical Connector	: Rising Clamp

CONNECTION DIAGRAM

