

## VARIMETER Phase Sequence Relay MK 9056N

Translation  
of the original instructions



0275083



### Your Advantage

- Correct sense of rotation of motors
- Simple wiring

### Features

- According to IEC/EN 60255-1
- Detection of wrong phase sequence
- LED indication of rotation
- 2 changeover contacts
- Wire connection: also 2 x 1.5 mm<sup>2</sup> stranded ferruled, or 2 x 2.5 mm<sup>2</sup> solid DIN 46228-1/-2/-3/-4
- As option with pluggable terminal blocks for easy exchange of devices
  - With screw terminals
  - Or with cage clamp terminals
- Width 22.5 mm

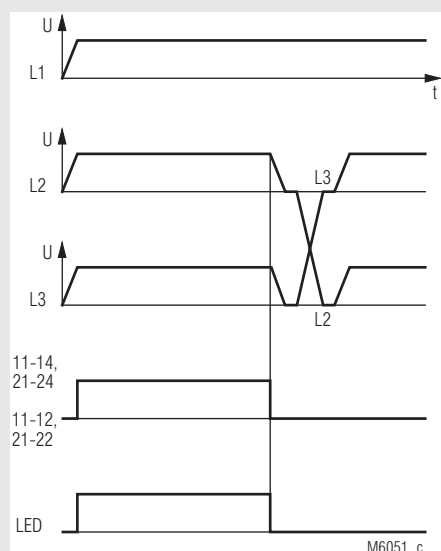
### Product Description

The MK 9056N detect wrong phase sequence in 3-phase systems. To monitor phase failure it is more suitable to use an Asymmetry relay e.g. MK 9040N.

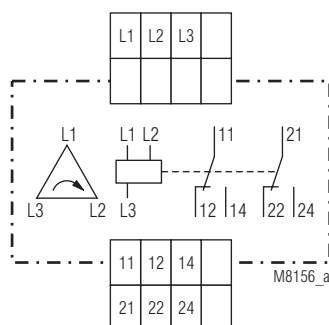
### Approvals and Markings



### Function Diagram



### Circuit Diagram



### Connection Terminals

Terminal designation	Signal description
L1, L2, L3	Connection of the monitoring 3-phase system
11, 12, 14, 21, 22, 24	"incorrect phase sequence-signaling relays (2 changeover contacts)"

### Indicators

Green LED: On, when corresponding output relay is active

### Technical Data

#### Input

**Nominal voltage  $U_N$ :** 3 AC 42 ... 60 V, 100 ... 127 V  
3 AC 220 ... 240, 380 ... 500 V  
**Voltage range:** 0.9 ... 1.1  $U_N$   
**Nominal frequency of  $U_N$ :** 50 / 60 Hz  
**Nominal consumption:** Approx. 2 W

#### Output

**Contact:** 2 changeover contacts  
**Operate / release delay:** < 100 / 50 ms  
**Thermal current  $I_{th}$ :** 5 A  
**Switching capacity**  
To AC 15  
NO contact: 3 A / AC 230 V IEC/EN 60947-5-1  
NC contact: 1 A / AC 230 V IEC/EN 60947-5-1  
To DC 13  
NO contact: 1 A / DC 24 V IEC/EN 60947-5-1  
NC contact: 1 A / DC 24 V IEC/EN 60947-5-1  
**Electrical life**  
To AC 15 at 3 A, AC 230 V: 5 x 10<sup>5</sup> switch. cycles IEC/EN 60947-5-1  
**Short circuit strength**  
**Max. fuse rating:** 4 A gG / gL IEC/EN 60947-5-1  
**Mechanical life:** > 20 x 10<sup>6</sup> switching cycles

### General Data

**Operating mode:** Continuous operation  
**Temperature range:**  
Operation: - 20 ... + 60°C  
Storage: - 20 ... + 60°C  
**Altitude:** < 2000 m

### Clearance and creepage distances

Rated impulse voltage / pollution degree: 4 kV / 2 IEC 60664-1

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