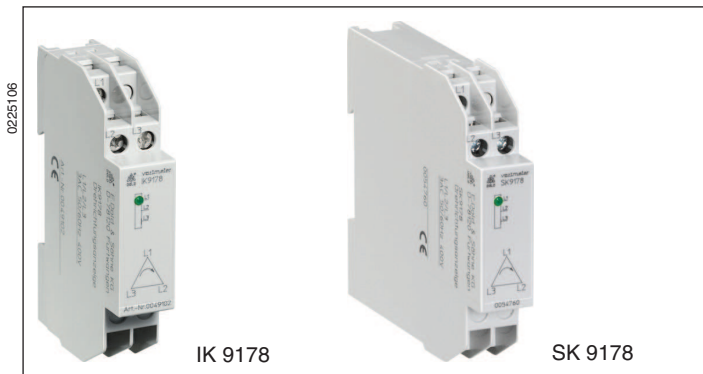
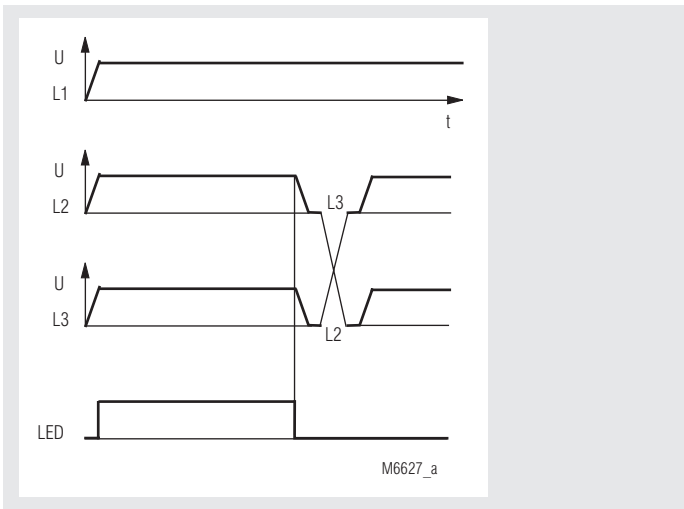


## VARIMETER Phase Sequence Indicator IK 9178, SK 9178



- According to IEC/EN 60 255, DIN VDE 0435-303
- Indication of phase sequence in 3-phase systems
- Without auxiliary supply
- LED indicator for phase sequence
- **Devices available in 2 enclosure versions:**
  - IK 9178:** depth 59 mm, with terminals at the bottom for installation systems and industrial distribution systems according to DIN 43 880
  - SK 9178:** depth 98 mm, with terminals at the top for cabinets with mounting plate and cable duct
- Width 17.5 mm

### Function Diagram



### Approvals and Marking



### Applications

Indication of phase sequence in 3-phase systems

### Indicators

LED: on when phase sequence is right

### Technical Data

#### Input

**Nominal voltage  $U_N$ :** 3 AC 400 V  
**Voltage range:** 0.8 ... 1.1  $U_N$   
**Nominal frequency:** 50 / 60 Hz  
**Frequency range:** 45 ... 65 Hz

#### General Data

**Operating mode:** Continuous operation  
**Temperature range:** - 20 ... + 60°C

**Clearance and creepage distances**  
 rated impuls voltage / pollution degree  
 (between L1-L2-L3): 4 kV / 2 IEC 60 664-1

**EMC**  
 Electrostatic discharge: 8 kV (air) IEC/EN 61 000-4-2  
 HF irradiation: 10 V/m IEC/EN 61 000-4-3  
 Fast transients: 2 kV IEC/EN 61 000-4-4

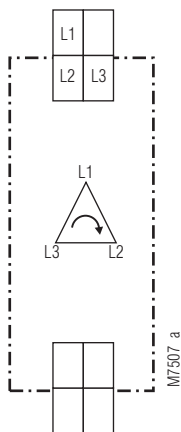
Surge voltages between  
 wires for power supply: 1 kV IEC/EN 61 000-4-5  
 between wire and ground: 2 kV IEC/EN 61 000-4-5  
 Interference suppression: Limit value class B EN 55 011

**Degree of protection**  
 Housing: IP 40 IEC/EN 60 529  
 Terminals: IP 20 IEC/EN 60 529

**Housing:** Thermoplastic with V0 behaviour according to UL subject 94  
**Vibration resistance:** Amplitude 0.35 mm IEC/EN 60 068-2-6 frequency 10 ... 55 Hz  
**Climate resistance:** 20 / 060 / 04 IEC/EN 60 068-1  
**Terminal designation:** EN 50 005  
**Wire connection:** 2 x 2.5 mm<sup>2</sup> solid or 2 x 1.5 mm<sup>2</sup> stranded ferruled DIN 46 228-1/-2/-3/-4

**Wire fixing:** Flat terminals with self-lifting clamping piece IEC/EN 60 999-1  
**Mounting:** DIN rail IEC/EN 60 715

### Circuit Diagram



IK 9178, SK 9178

## Technical Data

### Weight

IK 9178:	50 g
SK 9178:	69 g

### Dimensions

#### Width x height x depth

IK 9178:	17.5 x 90 x 59 mm
SK 9178:	17.5 x 90 x 98 mm

## Standard Types

IK 9178 3 AC 400 V 50/60 Hz

Article number: 0049102 stock item

- Nominal voltage  $U_N$ : 3 AC 400 V
- Width: 17.5 mm

SK 9178 3 AC 400 V 50/60 Hz

Article number: 0054760

- Nominal voltage  $U_N$ : 3 AC 400 V
- Width: 17.5 mm

## Ordering example

IK 9178 3 AC 400 V 50/60 Hz

