

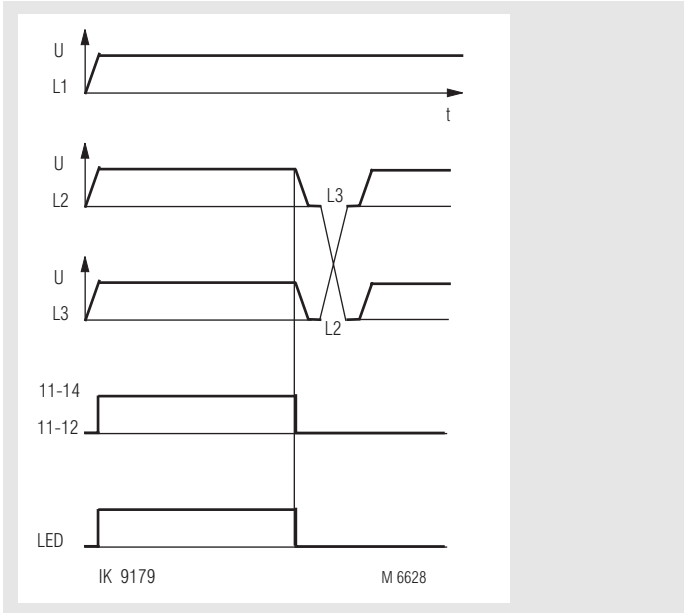
Phase sequence monitor (Phase sequence relay) IK 9179, SK 9179 varimeter

0225107



- According to IEC 255, EN 60255, VDE 0435 part 303
- **Devices available in 2 enclosure versions:**
 - I-model, e.g. IK 9179, depth 61 mm
with terminals at the bottom for installations systems and industrial distribution systems according to DIN 43 880
 - S-model, e.g. SK 9179, depth 100 mm
with terminals at the top for cabinets with mounting plate and cable duct
- Detection of phase sequence in 3-phase systems
- Without auxiliary voltage
- Closed circuit operation
- LED indicator for phase sequence
- Output 1 changeover contact
- Width 17,5 mm

Function diagram



Approvals and marking



Applications

Detection of phase sequence in 3-phase systems. Disable start of motors with fixed direction of rotation in the case of wrong phase sequence

Indicators

LED: on, when output relay active (contact 11-14 closed)

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

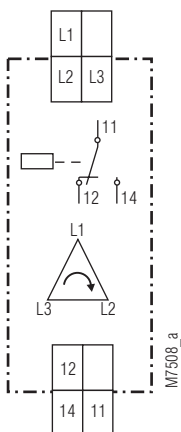
Output

Contact: IK 9179.11, SK 9179: 1 changeover contact
Thermal current I_{th} : 4 A
Switching capacity
to AC 15:
NO contact: 3 A / AC 230 V EN 60 947-5-1
NC contact: 1 A / AC 230 V EN 60 947-5-1
Electrical life EN 60 947-5-1
to AC 15 at 1 A, AC 230 V: typ. 300 000 switching cycles
Short-circuit strength
max. fuse rating: 4 A gL EN 60 947-5-1
Mechanical life: $\geq 30 \times 10^6$ switching cycles

General data

Operating mode: Continuous operation
Temperature range: -20 ... +60°C
Clearance and creepage distances
overvoltage category /
contamination level
(between L1-L2-L3): 4 kV / 2 IEC 60 664-1
input/output: 4 kV / 2 IEC 60 664-1

Circuit diagram



Technical data

EMC

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

Surge voltages
between

wires for power supply:	2 kV	EN 61 000-4-5
between wire and ground:	4 kV	EN 61 000-4-5

Interference suppression: Limit value class B EN 55 011

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

Housing: Thermoplastic with V0 behaviour
according to UL subject 94

Vibration resistance: Amplitude 0,35 mm EN 60 068-2-6
frequency 10 ... 55 Hz

Climate resistance: 20 / 060 / 04 EN 60 068-1

Terminal designation: EN 50 005

Wire connection: 2 x 2,5 mm² solid or
2 x 1,5 mm² stranded ferruled
DIN 46 228

Wire fixing: Flat terminals with self-lifting
clamping piece EN 60 999

Mounting: DIN rail EN 50 022

Weight

IK 9179: 60 g

SK 9179: 77 g

Dimensions

Width x height x depth

IK 9179: 17,5 x 90 x 61 mm

SK 9179: 17,5 x 90 x 100 mm

Standard type

IK 9179.11 3 AC 400 V 50/60 Hz

Article number: 0049182 stock item

SK 9179.11 3 AC 400 V 50/60 Hz

Article number: 0051576

- Output: 1 changeover contact
- Nominal voltage U_N : 3 AC 400 V
- Width: 17,5 mm

Ordering example

IK 9179 .11 3 AC 400 V 50/60 Hz

— Nominal frequency
— Nominal voltage
— Contact
— Type

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