

## PHASE SEQUENCE TESTER TKF-12



## PHASE SEQUENCE AND MOTOR ROTATION TESTER TKF-13



The unique TKF-12 & TKF-13 testers has been designed for checking triple phase power installations in the wide range of the phase-phase voltage between 100V to 690V in distribution network frequency range 10-70Hz. Our testers enables rotary field and motor rotation indication also with contact-less detection. TKF-13 provides quick indication of 3 phase rotation using test leads or can be used to determine motor rotation on 3 phase motors. TKF-12 is powered from tested network. TKF-13 is powered from 9V battery with AUTO-OFF function.

### Standard accessories of the tester TKF-12:

- pin probe with banana connector - black
- pin probe with banana connector - red
- pin probe with banana connector - yellow
- „crocodile” clip K01; black

**WASONBLOGB1**  
**WASONREOGB1**  
**WASONYEOGB1**  
**WAKROBL20K01**

### Optional accessories of the tester TKF-12:

- AGT-16P (triple phase socket adapter)
- AGT-32P (triple phase socket adapter)
- AGT-63P (triple phase socket adapter)
- carrying case S1

**WAADAAGT16P**  
**WAADAAGT32P**  
**WAADAAGT63P**  
**WAFUTS1**

### Standard accessories of the tester TKF-13:

- test lead with banana plug; 1,2m; black
- test lead with banana plug; 1,2m; red
- test lead with banana plug; 1,2m; yellow
- pin probe with banana connector - black
- pin probe with banana connector - red
- pin probe with banana connector - yellow
- „crocodile” clip K01; black
- alkaline battery 6LR61 (9V)

**WAPRZ1X2BLBB**  
**WAPRZ1X2REBB**  
**WAPRZ1X2YEBB**  
**WASONBLOGB1**  
**WASONREOGB1**  
**WASONYEOGB1**  
**WAKROBL20K01**

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- carrying case S1

**WAADAAGT16P**  
**WAADAAGT32P**  
**WAADAAGT63P**  
**WAFUTS1**

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## TKF-12

- Phase sequence indication (direction of field rotation) in the power network with rated phase-to-phase voltage (160...690V) AC by LED signalization.
- Operation in the power network with frequency range 10...70Hz.
- Indication of the voltage presence in the particular phases by neon lamps signalization.
- Power supply from the tested network (continuous operation to 15 minutes for max. voltage).
- Protection against faulty indication of field rotation.

#### Electric security:

- |                                     |                                 |
|-------------------------------------|---------------------------------|
| - type of insulation                | double, according to EN 61010-1 |
| - measurement category              | CAT III 600V acc. to EN 61010-1 |
| - protection class acc. to EN 60529 | IP42                            |

#### Rated operational conditions:

- |  |               |
|--|---------------|
| - rated phase-to-phase voltage range       | 160...690V AC |
| - maximum operation phase-to-phase voltage | 760V AC       |
| - frequency range                          | 10...70Hz     |
| - operating temperature                    | -10...+45°C   |
| - storage temperature                      | -20...+60°C   |

#### Other technical data:

- |                               |  |
|-------------------------------|--|
| - power supply                | from the tested electrical installation, up to 15 min for max. voltage |
| - dimensions                  | 130 x 70 x 35mm  |
| - weight (without test leads) | approx. 200g   |

## TKF-13

- Phase sequence indication (direction of field rotation) in the power network with rated phase-to-phase voltage (120...690V AC) by LED signalization.
- Operation in the power network with frequency 2...70Hz.
- Indication of the voltage presence in the particular phases by means of neon lamps.
- Indication of direction of motor rotations:
  - under state without voltage with using the test leads,
  - remonte, during motor operation.
- Detection of magnetic field presence.
- AUTO-OFF function.

#### Electric security:

- |                                     |                                 |
|-------------------------------------|---------------------------------|
| - type of insulation                | double, according to EN 61010-1 |
| - measurement category              | CAT III 600V acc. to EN 61010-1 |
| - protection class acc. to EN 60529 | IP42                            |

#### Rated operational conditions:

- |  |               |
|--|---------------|
| - rated phase-to-phase voltage range       | 120...690V AC |
| - maximum operation phase-to-phase voltage | 760V AC       |
| - EMF motors voltage range                 | 1...760V AC   |
| - frequency range                          | 2...70Hz      |
| - operating temperature                    | -10...+45°C   |
| - storage temperature                      | -20...+60°C   |

#### Other technical data:

- |  |                             |
|--|-----------------------------|
| - power supply                         | alkaline battery 6LR61 (9V) |
| - dimensions                           | 130 x 70 x 35mm             |
| - weight                               | approx. 250g                |
| - diode flashing time of battery state | approx. 1s                  |
| - function auto-off                    | 5min                        |

