

DKM – 403 MAINS MEASUREMENT PANEL



FEATURES

- Digital mains phase voltage display,*
- Digital load current displays,*
- Digital mains frequency display,*
- Digital Cos(Φ) display,*
- Digital three-phased active power display,*
- Digital three-phased apparent power display,*
- Mains phase voltages in the limit LEDs,*
- Phase sequence failure LED,*
- Wide operational voltage range: 120-270Volts,*
- Standard panel dimensions: 96x96mm,*
- Compatible with all values of current transformers,*
- Display of phase to neutral or phase-to-phase voltages,*
- Failure contact output,*
- Phase sequence protection relay function,*
- Voltage protection relay function,*
- Overcurrent protection relay function,*
- Frequency protection relay function,*
- Small size*
- Low cost*
- Vibration proof*
- Low failure rate,*

DESCRIPTION

DATAKOM model DKM-403 Measurement Panel is a microprocessor based digital unit integrating all protection functions and displays used on transfer panels.

This unit brings space and connection economy to control panels where it is used. Thanks to its low cost, it is more cost effective against panels with separate control unit and displays.

The configuration, working limits and timers of the DKM-403 are digitally programmable. The programming is performed via front panel buttons. The unit can adapt to any current transformer of rating from 50/5A to 8000/5A.

DKM-403 has a FAIL contact closing on the occurrence of different types of failure.

PHASE SEQUENCE PROTECTION

DKM-403 controls the sequence of the R-S-T phase inputs. In case of a failure, it turns on the PHASE SEQUENCE FAIL led on the front panel and closes the FAIL contact output.

VOLTAGE PROTECTION

DKM-403 controls if the R-S-T phase voltages are in the programmed limits. If at least one of the phases is outside limits, it turns off the corresponding phase led and closes the FAIL contact output.

OVERCURRENT PROTECTION

DKM-403 controls if the phase currents are below the maximum programmed limit. If at least one of the phase currents is above the limit for the programmed period, it closes the FAIL contact output.

FREQUENCY PROTECTION

DKM-403 controls if R phase frequency is in the programmed limits (for ex. 45-55Hz). If the frequency is out of the limits it closes the FAIL contact output.

INPUTS AND OUTPUTS

R-S-T: Mains phases

NEUTRAL: Mains neutral end

I1-I2-I3: Current input

FAIL: Fail contact output (5A/28V-DC/250V-AC)

TECHNICAL SPECIFICATIONS

Operating temperature:

0 to + 50 degrees C

Relative humidity: 10% to 90%

R Phase voltage: 120-277 Volts

Power Consumption: Max. 3 VA

Dimensions: 96x96x107mm

Mounting Hole Dimensions: 92x92mm

Weight: 400grams (approx.)

Precision:

Mains voltages: %2 + 2 digits

Currents: %2 + 2 digits

Frequency: %0.2 + 2 digits

Watt: %2 + 2 digits

Cos (Φ): %3 + 2 digits

KVA: %3 + 2 digits

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