- Multifunction
- 2 change over contacts
- Plug-in housing
- Width 38mm



Technical data

1. Functions

AC voltage monitoring in 1-phase mains with adjustable thresholds and adjustable hysteresis.

Undervoltage monitoring UNDER WIN Monitoring the window between

Min and Max

2. Time ranges

Adjustment range

Start-up suppression time (Start): Tripping delay (Delay):

3. Indicators

Green LED ON: indication of supply voltage

Red LFD ON/OFF: indication of failure of the corresponding

threshold

Yellow LED ON/OFF: indication of relay output

4. Mechanical design

Self-extinguishing plastic housing, IP rating IP40

Mounted on screw terminal socket 11-pols in accordance with

IEC 60067-1-18a

Mounting position:

Sockproof terminal connection according to VBG 4 (PZ1 required),

IP rating IP20

Tightening torque: max. 1Nm

Terminal capacity:

1 x 0.5 to 2.5mm² with/without multicore cable end

1 x 4mm² without multicore cable end

2 x 0.5 to 1.5mm² with/without multicore cable end 2 x 2.5mm² flexible without multicore cable end

5. Input circuit

(= measuring voltage) Supply voltage:

Pins: S5-S7 / E-F Rated voltage U_N:

see table ordering information or printing on the unit

Tolerance: -30% to +20% of U_N

8VA (1W) Rated consumption: Rated frequency: AC 48 to 63Hz Duration of operation: 100% 500ms

Reset time: Hold-up time:

Drop-out voltage: >20% of supply voltage

Overvoltage category: III (in accordance with IEC 60664-1)

Rated surge voltage:

6. Output circuit

2 potential free change over contacts Rated voltage: 250V AC

1250VA (5A / 250V) Switching capacity: 5A fast acting Fusing: Mechanical life: 20 x 106 operations Electrical life: 2 x 10⁵ operations

at 1000VA resistive load

Switching frequency: max. 6/min at 1000VA resistive load (in accordance with IEC 60947-5-1)

III (in accordance with IEC 60664-1)

Rated surge voltage:

7. Measuring circuit

Overvoltage category:

Measuring variable: AC Sinus, 48 to 63Hz Measuring input: (= supply voltage) S5-S7 / E-F Overload capacity: determined by tolerance

specified for supply voltage

Input resistance:

Switching threshold U_S:

Max: 80% to 120% of U_N 70% to 110% of U_N

Hysteresis H: adiustable

III (in accordance with IEC 60664-1) Overvoltage category:

Rated surge voltage:

8. Accuracy

±5% of rated value Base accuracy Adjustment accuracy: ±5% of rated value Repetition accuracy: ≤2% of rated value

Voltage influence:

Temperature influence: 0.05% / °C

9. Ambient conditions

-25 to +55°C Ambient temperature: Storage temperature: -25 to +70°C -25 to +70°C Transport temperature: Relative humidity: 15% to 85%

(in accordance with IEC 60721-3-3

class 3K3) 2, if built in 3

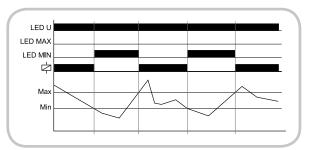
Pollution degree: (in accordance with IEC 60664-1)

Subject to alterations and errors

Functions

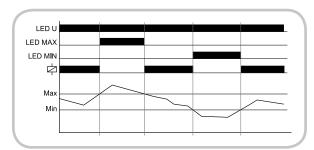
Undervoltage monitoring (UNDER)

When the supply voltage U is applied, the output relay R switches into on-position, if the measured voltage is beyond the Min-value. When the measured voltage falls below the Min-value, the output relay R switches into off-position. The output relay R switches into on-position again, if the voltage exceeds the Max-value.

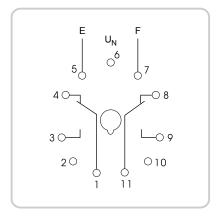


Window function (WIN)

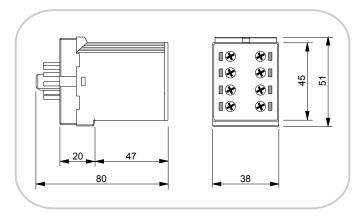
When the supply voltage U is applied, the output relay R switches into on-position, if the measured voltage is within the adjusted window. When the measured voltage left the window between Min and Max, the output relay R switches into off-position. The output relay R switches into on-position again, if the voltage re-enter the adjusted window.



Connections



Dimensions



Ordering information

Туре	Rated voltage U _N	Functions	Switching threshold Us	Hysteresis	Part Nr. (PQ 1)
K3UM230VAC02	230V AC	U, W	Max: 80% to 120% of U _N	adjustable	1380107
			Min: 70% to 110% of U _N	_	

