**UMG 20CM**

Operating and residual current measuring device with 20 channels & memory

for top hat rail mounting.

Supply voltage 90-264V AC (50/60Hz) / 120-350V DC

Dimensions:

90.105x72, (6 TE) for 20 current transformer inputs for CT6-20, SCT-20, CT20, 4 voltage inputs.

With continuous scanning of the voltage and current measurement inputs.

Operating data:

Rated voltage (insulation coordination to IEC 60664-1) AC 300 V, rated impulse voltage 4 kV, overvoltage category III, pollution degree 3,

Supply voltage, AC/DC 70..276 V 50/60 Hz

Self-consumption 3 watts

Monitored system

Measuring transformer types / conversion ratio:

Operating current instrument transformers: Splitcore SCT20 3000/1, CT-6-20 700/1, CT20 700/1

Residual current measuring transformer: CT-6-20 700/1, CT20 700/1

Measuring channels / evaluation:

Number of measuring channels: 24 (4x voltage L1,L2, L3, N / 20x current transformer)

Measured value acquisition: parallel, true rms measurement (True RMS),

sampling rate: (all channels) 20 kHz

Cut-off frequency: (all channels) 3 kHz

Function current measurement channels: individually configurable per channel as operating current or as differential current

Measurements: voltages / operating currents / residual currents

Evaluation: voltage, current, active power, apparent power,

reactive power, phase shift, active energy, MIN and MAX, cost centres

Number of harmonics: 63.OS odd

Data transfer Measured values: in V, A, kW, kVA, kVar, cosf, kWh

Evaluation range operating current: 0..63 A

Evaluation range differential current: 0..1000 mA

Connection monitoring: Each input has a transformer connection monitor

Parameterisation:

Parameterisable values per channel: Warning and response thresholds / hysteresis range for response thresholds,

Delay times: Delay of warning and response messages: (0 .. 10 s)

Reset delay of the response and warning messages: tvr (0 .. 10 s)

Displays and messages:

Displays: 27 LEDs, 3 states per LED

Messages: LED / digital outputs / RS485

Digital outputs (open collector):

Number: 2

External wiring: relay / PLC inputs

Output current max. / output 350 mA

External voltage source: (auxiliary voltage) UC 24 V

Communication interface / protocol:

Interface / protocol: RS485 (A.B,GND) not potential-isolated /

Modbus-RTU (slave) Setting range from 9600 baud to 921600 baud

Ambient conditions:

Ambient temperature (during operation): according to EN 61557-8: 1997

-5 .. +55°C

Ambient temperature (during storage): according to EN 61557-8: 1997

-25 .. +70°C

Climatic class according to IEC 7213K5, without condensation and icing up

Delivery includes:

Mounting accessories, documentation, matching of the design to the practical application as well as the measured variables incl. their recording intervals, compatible residual current transformer set, configuration and parameterisation of the unit, delivery, mounting as well as connection.

Make: Janitza electronics GmbH

Type: UMG20CM

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