MULTIS Lm55 / Lm56

Measurement devices

three phases - all electrical parameters - 96 x 96 mm

MULTIS Lm55

MULTIS Lm56

multi_085_a multi_086_a

The solution for

- Industry
- Infrastructure

Function

The Socomec MULTIS range is a three phase multifunction measurement device.
It measures three phase voltages, current, power, frequency, PF, THD with max demand and Import / Export feature. In addition it also has RS485 communication port.

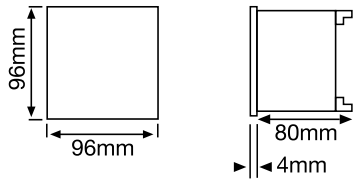
Applications

- **MULTIS Lm55** & **Lm 56** are digital LV and HV three phase measurement device.
  They display the most important electrical values needed in an energy efficiency process.

Advantages

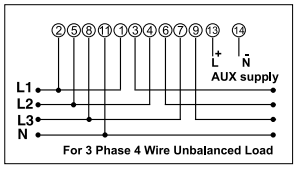
- Made of sturdy polycarbonate housing.
- Resistant to high shock level and adapted for working in a high pollution environment.
- Suitable for 3 phase 3 wire or 3 phase 4 wire network types.
- Both CT as well as PT are programmable.
- A very comprehensive parameter profile for energy measurement and power monitoring, that includes phase angle for current and voltage.
- Active, reactive as well as apparent powers are displayed.
- RPM, run hrs, ON hrs and interrupt are indicated.
- Key demand parameters are measured, including current, KVA, KW with nominal as well as maximum values.
- Characterized by high overload withstand, password protection.
- With annunciation of -ve sign display for the active power in 2nd or 3rd quadrant.
- Dedicated indication for phase rotation error and for the correct phase sequence.
- Versions for Cl-1 as well as Cl-0.5 class of accuracy.
- Power monitoring via THD on current and voltage.

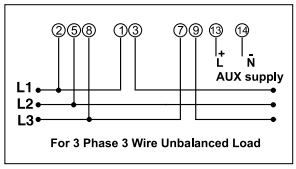
Dimensions

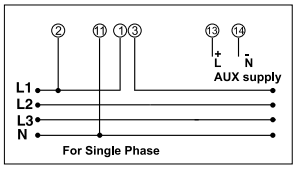


Type	panel mounting
Dimensions W x H x D	96 x 96 x 80 mm
Font IP	IP54
Rear IP	IP20
Weight	0.62 kg

Connection







MULTIS Lm55

Electrical characteristics

Auxiliary power supply	
Voltage	100V … 250 VAC - DC (± 10%)
Frequency	45 … 66 Hz
Consumption	< 4 VA approx
Operating conditions	
Operating temperature	0 … +50 °C

Measurement

Current measurements	
System CT secondary	1 A & 5 A
System CT primary	from 1 A up to 9999 A
Max. continuous input current	120 % of rated value
Accuracy	± 1.0 %
Voltage measurements	
Nominal input voltage	PN-290 V , PP-500 V
System PT secondary	100V LL to 500V LL
System PT primary	100V LL to 692K LL
Max. continuous input voltage	120% of rated value
Accuracy	± 1.0%
Frequency measurement	
Frequency range	40 …70 Hz
Accuracy	± 0.2 %
Energy accuracy	
Active energy	± 1.0%
Reactive energy	± 1.0%
Apparent energy	± 1.0%
Active / reactive / apparent power	± 0.5%
Total harmonic distortion	± 1.0%

MULTIS Lm56

Electrical characteristics

Auxiliary power supply	
Voltage	100V … 250 VAC - DC (± 10%)
Frequency	45 … 66 Hz
Consumption	< 4 VA approx
Operating conditions	
Operating temperature	0 … +50 °C

Measurement

Current measurements	
System CT secondary	1 A & 5 A
System CT primary	from 1 A up to 9999 A
Max. continuous input current	120 % of rated value
Accuracy	± 1.0 %
Voltage measurements	
Nominal input voltage	PN-290 V , PP-500 V
System PT secondary	100V LL to 500V LL
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Max. continuous input voltage	120% of rated value
Accuracy	± 1.0%
Frequency measurement	
Frequency range	40 …70 Hz
Accuracy	± 0.2 %
Energy accuracy	
Active energy	± 0.5%
Reactive energy	± 0.5%
Apparent energy	± 0.5%
Active / reactive / apparent power	± 0.5%
Total harmonic distortion	± 1.0%

References

Auxiliary supply	Frequency	MULTIS Lm55 Reference	MULTIS Lm56 Reference
40 ... 300 VAC	45 … 65 Hz	192J **9200**	192J **9201**