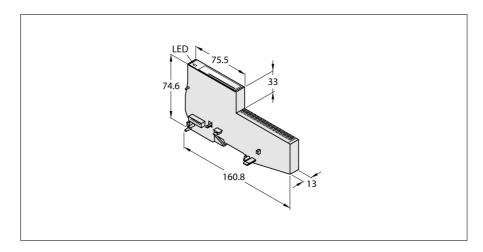


PRELIMINARY

BL20 Economy Module 3-Phase Energy Measurement Terminal For Connecting Rogowski Coils BL20-E-3EMM-RC



Туре	BL20-E-3EMM-RC
ID	100027914
Nominal current from field supply	≤ 110 mA
Nominal current from module bus	≤ 55 mA
Number of channels	3 phases + N
Rated power	30300 VAC
Input signal	330 mV (10 385 mV)
Frequency range	4270 Hz
Sampling rate	8 kHz (phase angle: 1 kHz)
Frequency range of harmonic analysis	03200 Hz
Cut-off frequency of the input filter	7.2 kHz
Harmonic analysis	Up to 51st harmonic
Insulation	707 VDC 3.0 kVeff
Impulse withstand voltage	4 kV
Surge category	III
Temperature coefficient U/I	150 ppm/K
Electrical connection	Push-in
Directories (M. J. v. II)	13 x 160.8 x 74.6 mm
Dimensions (W x L x H)	13 X 160.8 X 74.6 mm
Approvals	0+55 °C
Ambient temperature	**** **
Storage temperature	-25+85 °C
Relative humidity	1595 %, no condensation allowed
Vibration test	Acc. to IEC 60068-2-6
Shock test	Acc. to IEC 60068-2-27
Drop and topple	Acc. to IEC 60068-2-31
Electromagnetic compatibility	Acc. to EN 61131-2
Protection class	IP20
MTTF	183 years acc. to SN 29500 (Ed. 99) 20 °C

- Fieldbus-independent
- Electronics and connection technology in one housing
- Connectivity: Push-in terminals
- Protection class IP20
- Electronics galvanically isolated from the field level via optocouplers
- Current/voltage measurement via three channels for up to three phases
- Additional connection for neutral conductor
- Harmonic analysis up to 51st harmonic vibration at 50-Hz signals
- True RMS with high-resolution delta sigma modulation
- Sampling rate: 8 kSamples/s
- Accuracy: 0.5 % for U/I measurement (measuring range end value), 1.0 % for calculated values

Functional principle

Electronics and connection technology are integrated in the housing. A base module is not needed. Economy modules and modules with separate electronics and connection technology can be fitted into a station, provided the base modules feature tension spring connections.

The use of gateways makes economy modules completely independent from the higher level fieldbus.



Connection Overview

