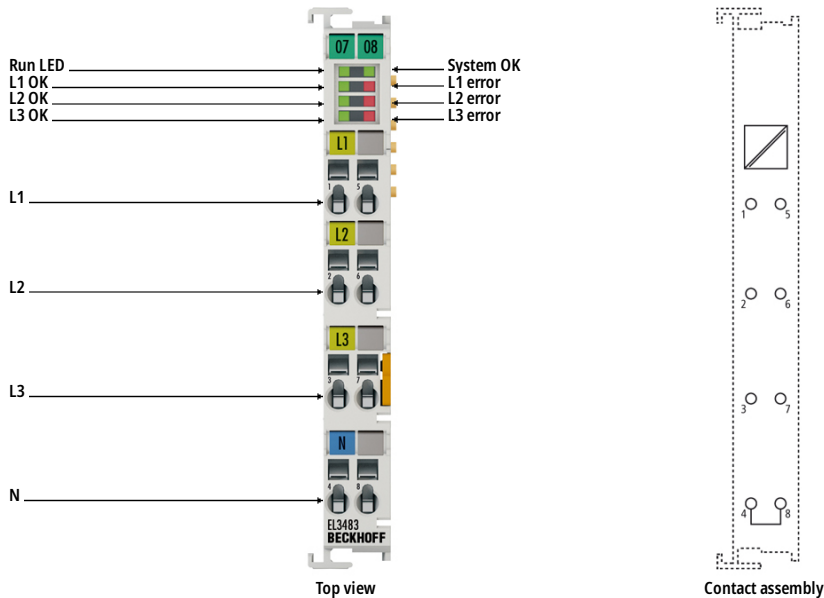
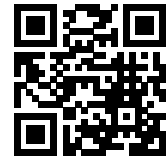


# EL3483 | EtherCAT Terminal, 3-channel analog input, mains monitor, 480 V AC, 24 bit



**i Product status:** Regular delivery

The EL3483 EtherCAT Terminal enables the monitoring of relevant electrical data of the supply network. The voltage is measured internally via direct connection of L1, L2, L3 and N. The internal measured values are compared with threshold values preset by the user. The result is available as digital information in the process image. The EL3483 checks for the correct phase order L1, L2, L3, phase failure, undervoltage and overvoltage, and possible phase asymmetry. An error bit is set in the case of an incorrect phase order or the failure of a phase. Should, for example, an asymmetry or voltage error occur, only a warning bit is set initially. In addition, an internally calculated mains quality factor provides information about the quality of the monitored voltage supply. The EL3483 offers basic functionality for mains monitoring and analysis.

## Product information

### Technical Data

Technical data	EL3483
Number of inputs	3 x voltage
Technology	3-phase mains monitor
Oversampling factor	–
Distributed clocks	–
Update interval	ten mains periods (200 ms at 50 Hz)
Update time	net-synchronous
Measured values	digital threshold values as monitoring function

Measuring voltage	max. 480 V AC 3~ (ULX-N: max. 277 V AC/240 V DC)
Measuring current	–
Measuring error	0.5 % relative to full scale value (U), 1 % calculated value
Monitoring function	phase order, phase failure, phase asymmetry, undervoltage/overvoltage (adjustable)
Electrical isolation	2500 V
Current consumption power contacts	–
Current consumption E-bus	typ. 120 mA
Special features	voltage, frequency and phase monitor, optional single-phase operation
Weight	approx. 75 g
Operating/storage temperature	-25...+60 °C/-40...+85 °C
Relative humidity	95 %, no condensation
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Approvals/markings	CE

<b>Housing data</b>	<b>EL-12-8pin</b>
Design form	compact terminal housing with signal LEDs
Material	polycarbonate
Dimensions (W x H x D)	12 mm x 100 mm x 68 mm
Installation	on 35 mm DIN rail, conforming to EN 60715 with lock
Side by side mounting by means of	double slot and key connection
Marking	labeling of the BZxxx series
Wiring	solid conductor (e), flexible conductor (f) and ferrule (a): spring actuation by screwdriver
Connection cross-section	s*: 0.08...2.5 mm <sup>2</sup> , st*: 0.08...2.5 mm <sup>2</sup> , f*: 0.14...1.5 mm <sup>2</sup>
Connection cross-section AWG	s*: AWG 28...14, st*: AWG 28...14, f*: AWG 26...16
Stripping length	8...9 mm
Current load power contacts	I <sub>max</sub> : 10 A

\*s: solid wire; st: stranded wire; f: with ferrule