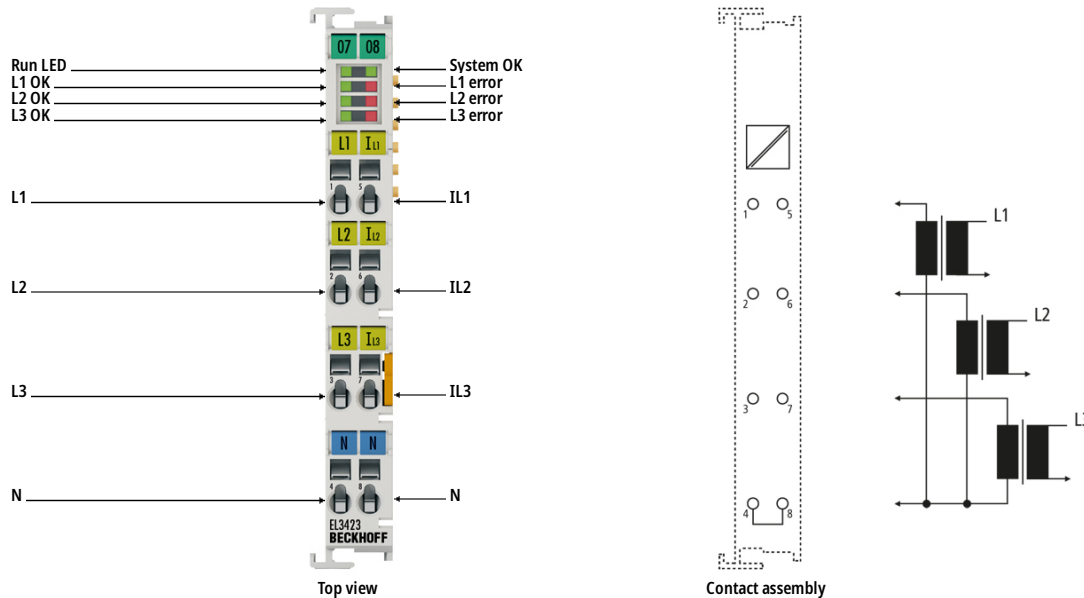
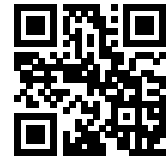


# EL3423 | EtherCAT Terminal, 3-channel analog input, power measurement, 480 V AC/DC, 1 A, 24 bit



**i Product status:** Regular delivery

The EL3423 EtherCAT Terminal enables the measurement of relevant data for an efficient energy management system. The voltage is measured internally via direct connection of L1, L2, L3 and N. The current of the three phases L1, L2 and L3 is fed via simple current transformers. The measured energy values are available separately as generated and accepted values. In the EL3423 Terminal, the effective power and the energy consumption for each phase are calculated. In addition, an internally calculated network quality factor provides information about the quality of the monitored voltage supply. The EL3423 offers basic functionality for mains analysis and energy management.

## Product information

### Technical Data

Technical data	EL3423
Number of inputs	3 x current, 3 x voltage
Technology	3-phase energy measurement
Oversampling factor	-
Distributed clocks	-
Update interval	> 10 s
Update time	net-synchronous
Measured values	energy, power, power quality factor

Measuring voltage	max. 480 V AC 3~ (ULX-N: max. 277 V AC/240 V DC)
Measuring current	max. 1 A (AC/DC), via measuring transformers x A/1 A
Measuring error	0.5 % relative to full scale value (U/I), 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	mains monitoring, 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