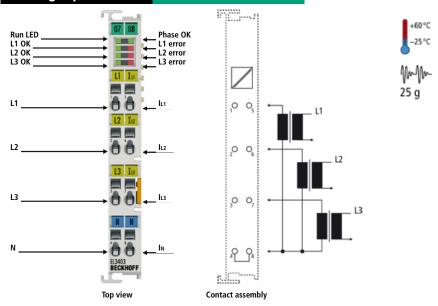


EL3403



EL3403 | 3-phase power measurement terminal

The EL3403 EtherCAT Terminal enables the measurement of all relevant electrical data of the supply network. The voltage is measured via the direct connection of L1, L2, L3 and N. The current of the three phases L1, L2 and L3 is fed via simple current transformers. All measured currents and voltages are available as root-mean-square values. In the EL3403 version, the effective power and the energy consumption for each phase are calculated. The root-mean-square value of voltage U, current I and the effective power P, apparent power S, reactive power Q, frequency F and phase shift angle cos can be derived. The EL3403 provides a comprehensive network analysis and an energy management option.

| Technical data | EL3403 ES3403 |
|------------------------------------|--------------------------------------------------------------------------------------------------------|
| Number of inputs | 3 x current, 3 x voltage |
| Technology | 3-phase power measurement for alternating voltages |
| Oversampling factor | - |
| Distributed clocks | - |
| Resolution | 1 μA, 0.1 mV, 10 mW |
| Conversion time | mains-synchronous |
| Measured values | current (11, 12, 13), voltage, effective power, reactive power, apparent power, energy, cos, frequency |
| Measuring voltage | max. 500 V AC 3~ (ULx-N: max. 288 V AC) |
| Measuring current | max. 1 A (AC), via measuring transformers x A/1 A |
| Measuring error | 0.5 % relative to full scale value (U/I), 1 % calculated value |
| Measuring procedure | true RMS |
| Update time | net-synchronous |
| Electrical isolation | 1500 V |
| Current consumption power contacts | - |
| Current consumption E-bus | typ. 120 mA |
| Bit width in the process image | 62 byte PM input, 3 byte PM output |
| Special features | true RMS value calculation, single-phase operation also possible |
| 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 |
| Protect. class/installation pos. | IP 20/variable |
| Pluggable wiring | for all ESxxxx terminals |
| Approvals | CE, UL |

| Special terminals | |
|-------------------|------------------------------------------------------------------------------------------------------------------------|
| EL3403-0010 | 3-phase power measurement terminal, 500 V AC, 5 A |
| EL3403-0026 | 3-phase power measurement terminal, 500 V AC, 1 A, without EMC bybass capacitor between N and DIN rail |
| EL3403-0100 | 3-phase power measurement terminal, 500 V AC, 100 mA |
| EL3403-0111 | 3-phase power measurement terminal, 500 V AC, one current input for each measurement range: 10 mA, 100 mA and 1,000 mA |
| EL3403-0333 | 3-phase power measurement terminal, max. 500 V AC 3~, for transformers with 333 mV AC |
| EL3433 | 3-phase power measurement terminal 500 V AC |

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