EL3453

Industrial automation components

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Manufacturer	Beckhoff
Catalog number	el3453
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Beckhoff
Part Number	EL3453
Product Type	EtherCAT Terminal
Measuring Voltage	up to 690 V AC
Measuring Current	adjustable, 100 mA AC, 1 A AC (default), 5 A AC; potential-free
Measurement Error	0.3% relative to full scale value (U/I), 0.6% calculated value
Update Time	net-synchronous
Monitoring Function	phase order, phase failure, phase asymmetry, undervoltage/overvoltage (adjustable)
Electrical Isolation	4500 V
Operating Temperature	-25…+60°C
Storage Temperature	-40…+85°C

Description

The Beckhoff EL3453 is a 3-phase power measurement EtherCAT Terminal designed for high-capacity generators, such as those used in the wind industry. It directly monitors voltages up to 690 V AC without the need for a voltage transformer.

The terminal features four electrically isolated current inputs, accommodating various grounded current transformer configurations, including 2- or 3-transformer setups with star or delta connections and neutral conductor current measurement.

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The EL3453 performs grid analysis up to the 63rd harmonic and can aggregate readings into a power quality factor for simplified diagnostics. All measured data, including harmonic content, is accessible via process data.

The "ExtendedRange" feature allows utilization of the full technical measuring range, extending to 130% of the specified nominal range. Additionally, the terminal can transmit the times of the last voltage and current zero crossings to the controller via XFC technology, facilitating application-specific switching operations.