

EL3413 | 3-phase power measurement terminal up to 690 V AC

The EL3413 EtherCAT power measurement terminal is a further development of the EL3403. With up to 690 V AC the voltage inputs are optimised for direct monitoring of high-performance generators, as used in the wind power industry, for example. No upstream voltage transformer is required. The current inputs are galvanically isolated so that the terminal can be used in all common grounded current transformer configurations such as 2- or 3-transformer configurations with star or delta connection. The EL3413 can deal with simple network analysis up to the 21st harmonic analysis. Like all measured terminal data, the harmonic content can be read via the process data.

The EL3413, EL3413-0001 and EL3413-0120 power measurement terminals have neutral conductor current measurement as standard since the 3rd quarter of 2015. At no additional cost to the end user, the terminals feature a shunt between pin 4 and pin 8, in order to enable direct neutral conductor analysis.

Technical data	EL3413 EL3413-0001			
Number of inputs	4 x current, 3 x voltage			
Technology	3-phase power measurement for alternating voltages			
Oversampling factor	-			
Distributed clocks	-			
Conversion time	mains-synchronous			
Measured values	current (I1, I2, I3, In), voltage, effective power, reactive power, apparent power, energy, cos , frequency, harmonic			
Measuring voltage	max. 690 V AC 3~ (ULx-N: max. 400 V AC) max. 600 V AC 3~ (ULx-N: max. 346 V AC)			
Measuring current	adjustable, 100 mA, 1 A (default), 5 A; potential-free			
Resolution	1 μA, 0.1 mV, 10 mW			
Measuring error	0.5 % relative to full scale value (U/I), 1 % calculated value			
Electrical isolation	4500 V			
Current consumption power contacts	-			
Current consumption E-bus	typ. 160 mA			
Special features	galvanically isolated current inputs, harmonic analysis, single-phase operation also possible, recommended for new projects: EL3453			
Weight	approx. 100 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			
Approvals/markings	CE CE, UL			

Special terminals	
EL3413	3-phase power measurement terminal up to 690 V AC
EL3413-0001	3-phase power measurement terminal up to 600 V AC
EL3413-0120 3-phase power measurement terminal up to max. 210 V AC 3~ (ULx-N: max. 120 V AC)	

₹el	ated	prod	ucts
₹el	ated	proc	uct

EL3453

3-phase power measurement terminal up to 690 V AC with extended functionality

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Controllers category:

Click to view products by Beckhoff manufacturer:

Other Similar products are found below:

CS1WCN223 CS1WCN713 CS1WKS001E 61F-11NH 61FGPN8DAC120 61F-GP-NT AC110 61F-GPN-V50-AC110 70177-1011 F03-03 HAS B F03-03 HAS C F03-31 81513201 81513535 81550401 FT1A-C12RA-W 88981106 H2CAC24A R88A-CAGA005S R88A-CRGB003CR-E R88ARR080100S R88A-TK01K DCN1-1 DTB4896VRE DTB9696CVE DTB9696LVE MR-50LF+ E53-AZ01 E53E8C E5CWLQ1TCAC100240 B300LKL21 NE1ASCPU02EIPVER11 NE1SCPU01 NE1SDRM21U NSCXDC1V3 NSH5-232CW-3M NT20SST122BV1 NV3Q-SW41 NV4W-ATT01 NV-CN001 OAS-160-N K31S6 K33-L1B K3TX-AD31A L595020 SRS2-1 G32X-V2K 26546803 26546805 26546831 CJ1W-OD204