Product data sheet
Characteristics

LV434021
energy sensor PowerTag Monoconnect 250A 3P+N



Main

Range	PowerLogic
Product name	PowerTag M250
Product or component type	Energy sensor
Poles description	3P + N
Max current	250 A
[Ib] Basic current	40 A
Starting current	160 MA
Saturation current	500 A
Product specific application	Energy management Overload alarm Power factor Load monitoring Circuit monitoring
Concentrator compatibility	EcoStruxure Panel Server Entry EcoStruxure Panel Server Universal EcoStruxure Panel Server Advanced Harmony Hub Acti9 Smartlink SI B Acti9 Smartlink SI D Acti9 PowerTag Link Acti9 PowerTag Link HD
Range compatibility	ComPacT ComPacT NSX NSX100 ComPacT ComPacT NSX NSX250 ComPacT Compact INV Interpact INV100 ComPacT Compact INV Interpact INV250 Compact NS Compact NS100 Compact NS Compact NS250 ComPacT ComPacT INS INS250 EasyPact EasyPact CVS100 EasyPact EasyPact CVS160 EasyPact EasyPact CVS250
Type of measurement	Active and reactive energy Active and reactive power Apparent power Current Voltage Power factor
Accuracy class	Class 1 active energy conforming to IEC 61557-12 Class 2 reactive energy conforming to IEC 61557-12 Class 1 active power conforming to IEC 61557-12 Class 2 reactive power conforming to IEC 61557-12 Class 2 apparent power conforming to IEC 61557-12 Class 1 current conforming to IEC 61557-12 Class 0.5 voltage conforming to IEC 61557-12 Class 1 power factor conforming to IEC 61557-12

Metering type	Power factor 0...1: class 1 at 25 °C conforming to IEC 61557-12 Active energy Ep IN/OUT/tot 0...281 x 10exp(9) kWh: class 1 at 25 °C conforming to IEC 61557-1 Reactive energy Ep IN/OUT/tot 0...281 x 10exp(9) kVARh: class 2 at 25 °C conforming to IEC 615 Voltage U12, U23, U31 320...480 V: class 0.5 at 25 °C conforming to IEC 61557-12 Voltage V1N, V2N, V3N 184...276 V: class 0.5 at 25 °C conforming to IEC 61557-12 Current I1, I2, I3, Iavg 8...250 A: class 1 at 25 °C conforming to IEC 61557-12 Apparent power S, S1, S2, S3 88 VA...416 kVA: class 2 at 25 °C conforming to IEC 61557-12 Active power P, P1, P2, P3 88 W...416 kW: class 1 at 25 °C conforming to IEC 61557-12 Reactive power Q, Q1, Q2, Q3 88 VAR...416 kVAR: class 2 at 25 °C conforming to IEC 61557-12 Frequency 45...65 Hz
Mounting location	Bottom
Mounting support	On circuit breaker
Connection pitch	35 Mm
Product destination	Switchboard
Event management	Voltage loss with measured current at voltage loss
Transmission support medium	Radio frequency 2.4…2.4835 GHz conforming to IEEE 802.15.4 (11…26) transmission time < 5 m
Emission power	10 MW

Complementary

[Imp] maximum permanent current	1.2 x In
Form factor	Monoconnect
Mounting mode	Bolt-on
Tightening torque	10 N.M
[Ue] rated operational voltage	230 V AC, +/- 20 %, between phase and neutral 400 V AC, +/- 20 %, between phases
Network frequency	50 Hz 60 Hz
Power consumption in VA	3.7 VA
Standards	IEC 61557-12 IEC 61010-1 ETSI EN 301 489-1 IEC 61010-2-030 IEC 61326-1 ETSI EN 300 328
Product certifications	IEC[RETURN]DNV Marine
Height	57 Mm
Width	140 Mm
Depth	86 Mm
Net weight	300 G
Colour	Dark grey (RAL 7016)

Environment

Quality labels	CE
Directives	2014/53/EU - radio equipment directive
Operating altitude	0...2000 m
Ambient air temperature for operation	-25…70 °C
Ambient air temperature for storage	-50…85 °C
Overvoltage category	IV conforming to IEC 61010-1
Measurement category	Category III conforming to IEC 61010-2-030
IP degree of protection	IP20
IK degree of protection	IK07 conforming to IEC 60068-2-75 test Ehb
Pollution degree	3
Relative humidity	0…95 % at 55 °C conforming to IEC 60721-3-3
Vibration resistance	3M4 conforming to IEC 60721-3-3
Electromagnetic compatibility	Industrial electromagnetic environment conforming to IEC 61326-1 Radiated EMC conforming to ETSI EN 301 489-17 Electromagnetic emission conforming to IEC 62311
Environmental characteristic	Indoor use

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.000 Cm
Package 1 Width	11.000 Cm
Package 1 Length	17.300 Cm
Package 1 Weight	546.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	4
Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	2.630 Kg
Unit Type of Package 3	P06
Number of Units in Package 3	64
Package 3 Height	71.500 Cm
Package 3 Width	60.000 Cm
Package 3 Length	80.000 Cm
Package 3 Weight	54.080 Kg

Offer Sustainability

Recyclability potential, in %	41
Total lifecycle Carbon footprint	61 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	5.811925542794142
Carbon footprint of the manufacturing phase [A1 to A3]	6 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.39440267361229275
Carbon footprint of the distribution phase [A4]	0.4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.16158788057794313
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	54.08771627832839
Carbon footprint of the use phase [B2, B3, B4, B6]	54 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	1.002459237417767
Carbon footprint of the end-of-life phase [C1 to C4]	1 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	61
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	Defcd2b6-ad55-40e6-9ed1-e4eaa37e615b
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, wi
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised