



Main

Range	Compact
Device short name	PowerTag NSX
Product or component type	Energy sensor
Range compatibility	Compact NSX Compact NSX100...250 Compact INV Compact INV100...250 Acti 9 Acti 9 Smartlink SI B Acti 9 Acti 9 Smartlink SI D Acti 9 Acti 9 Smartlink EL D Compact NS Compact NS100...250 Compact INS Compact INS250-100...250
Product specific application	Load operating time Power factor Overload alarm Breaker voltage monitoring Energy management
Poles description	3P + N
[In] rated current	250 A
[Imp] maximum permanent current	1.2 x In
Saturation current	500 A
Inrush current	160 mA
[Ib] basic current	40 A
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 61557-12 Reactive energy Ep IN/OUT/tot 0...281 x 10exp(9) kVARh: class 2 at 25 °C conforming to IEC 61557-12 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, S4 88 VA...416 kVA: class 2 at 25 °C conforming to IEC 61557-12 Active power P, P1, P2, P4 88 W...416 kW: class 1 at 25 °C conforming to IEC 61557-12 Reactive power Q, Q1, Q2, Q4 88 VAR...416 kVAR: class 2 at 25 °C conforming to IEC 61557-12
Communication port protocol	Modbus TCP/IP via Smartlink SI D Modbus TCP/IP via Smartlink SI B
Transmission support medium	Radio frequency 2.4...2.4835 GHz conforming to IEEE 802.15.4 (11...26) transmission time < 5 ms
Channels utilisation	1 message per device every 5 s

Type of alarms	Voltage loss Overcurrent
Mounting mode	Direct
Mounting location	Bottom Indoor use only
Mounting support	Terminals

Complementary

Rated voltage	230 V AC 50/60 Hz phase to neutral +/- 20 % IEC 61557-12 400 V AC 50/60 Hz phase to phase +/- 20 % IEC 61557-12 230 V AC 50/60 Hz phase to neutral - 15 %...10 % IEC 61010-1 400 V AC 50/60 Hz phase to phase - 15 %...10 % IEC 61010-1
Power consumption in VA	3.7 VA maximum
Connection pitch	35 mm
Tightening torque	10 N.m
Height	57 mm
Width	140 mm
Depth	86 mm
Product weight	300 g
Colour	Dark grey (RAL 7016)

Environment

Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-50...85 °C
Relative humidity	0...95 % at 55 °C conforming to IEC 60721-3-3
Overvoltage category	IV conforming to IEC 61010-1
Measurement category	Category III conforming to IEC 61010-2-30
Operating altitude	0...2000 m without derating
IP degree of protection	IP20
IK degree of protection	IK07 conforming to IEC 60068-2-75 test Ehb
Pollution degree	3

Offer Sustainability

Sustainable offer status	Green Premium product
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Contractual warranty

Warranty	18 months
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