Product data sheet

Specifications

PowerLogic LV150: low voltage power monitoring and transformer thermal monitoring

EMS59300

Main

Range Of Product	PowerLogic T300
Device Short Name	LV150

Complementary

Product Or Component Type	Low voltage and transformer monitoring
Protection Or Fault Passage Indication Function	ANSI 47 : negative sequence overvoltage ANSI 27 : undervoltage ANSI 59 : overvoltage ANSI 59N : neutral voltage displacement ANSI 37 : phase undercurrent
Power Measurement	Active and reactive energy Power factor Current Voltage Frequency Active and reactive power Apparent energy Apparent power
Power Quality Analysis	Voltage sag and swell detection Voltage unbalance Individual harmonics Harmonic distortion Voltage magnitude
Measurement Accuracy	Current: class 0.5 Voltage: class 0.5 Energy: class 1 conforming to IEC 61557-12
Data Recording	Sequence of event recording Sag and swell logs Counter Harmonics logs Event logs Demand values Min/max of instantaneous values Current value before fault
Memory Capacity	4 MB
Synchronisation Time Between Inputs	1 ms
Control Type	Illuminated push-button status:
Web Services	Assistance in commissioning and operating the installation Alarm Reports and diagrams Security/authority verification Operating/Status report Event log
[Us] Rated Supply Voltage	12...48 V DC +/- 20 %
Power Consumption In Va	2 VA

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Communication Port Protocol	IEC 60870-5-104
Communication Port Support	2 ETHERNET RJ45
Number Of Inputs	8 digital conforming to IEC 61131-2 type 3
Measurement Current	5 A 1 A
Analogue Input Type	Current 0.01...35 A (impedance 0.001 Ohm)4 x
Measurement Voltage	: 0…30 V AC at 50/60 Hz (single or three phases)

Environment

Fixing Mode	Clip-in (DIN rail)
Type Of Installation	Indoor Outdoor in cabinet
Electromagnetic Compatibility	Electrical fast transient/burst immunity test - test level: level 4 criteria A conforming to IEC 61000-4-4 Conducted RF disturbances - test level: level 3 criteria A conforming to IEC 61000-4-6 Conducted disturbance emission - test level: level 4 criteria A conforming to IEC 61000-4-16 100 kHz damped oscillating wave - test level: level 3 criteria A conforming to IEC 61000-4-12 Radiated radio-frequency electromagnetic field immunity test - test level: level 4 criteria A conforming to IEC 61000-4-3 Immunity to voltage dips criteria A conforming to IEC 61000-4-29 Electrostatic discharge - test level: level 4 criteria B conforming to IEC 61000-4-2 Surge immunity test - test level: level 3 criteria A conforming to IEC 61000-4-5 Magnetic field at power frequency - test level: level 5 criteria B conforming to IEC 61000-4-8 Conducted and radiated emissions class A conforming to EN 55022
Ip Degree Of Protection	IP2X body: conforming to IEC 60529 IP4X front: conforming to IEC 60529
Ik Degree Of Protection	IK07 conforming to IEC 62262
Relative Humidity	5…95 % conforming to IEC 60068-2-30
Mechanical Robustness	Vibrations 10…2000 Hz 1 gn 10 cycles conforming to IEC 60068-2-6 Bumps 10 gn 16 ms 1000 bumps non energized conforming to IEC 60068-2-29 Shocks 10 gn 11 ms 3 pulses in operation conforming to IEC 60068-2-27
Ambient Air Temperature For Storage	-40…185 °F (-40…85 °C)
Ambient Air Temperature For Operation	-40…158 °F (-40…70 °C)
Operating Altitude	3000 m
Product Certifications	CE
Standards	IEC 60255-27 IEC 61557-12 IEC 62586-1 IEC 61000-4-30:class S IEC 61850
Height	5.51 in (140 mm)
Width	1.77 in (45 mm)
Depth	5.51 in (140 mm)
Net Weight	1.01 lb(US) (0.46 kg)

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.99 in (7.6 cm)

Package 1 Width	7.52 in (19.1 cm)
Package 1 Length	7.80 in (19.8 cm)
Package 1 Weight	21.16 oz (600.0 g)
Unit Type Of Package 2	S03
Number Of Units In Package 2	8
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	10.58 lb(US) (4.8 kg)

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Well-being performance

Mercury Free

Rohs Exemption Information	Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information