Product data sheet

Specifications

PowerLogic SC150 CT-LPVT/VT: Switch controller, 1/5 A, LPVT/VT sensors

EMS59201

Main

Range of product	PowerLogic T300
Device short name	SC150

Complementary

Product or component type	MV switch controller
protection or fault passage indication function	ANSI 50/51 : overcurrent ANSI 50N/51N : earth fault ANSI 67 : directional phase overcurrent ANSI 67N : directional earth fault ANSI 47 : negative sequence overvoltage ANSI 27 : undervoltage ANSI 59 : overvoltage ANSI 59N : neutral voltage displacement ANSI 37 : phase undercurrent
power measurement	Apparent power Voltage Active and reactive power Active and reactive energy Power factor Current Frequency Apparent energy
Power quality analysis	Voltage unbalance Individual harmonics Voltage sag and swell detection Harmonic distortion Voltage magnitude
measurement accuracy	Current: class 0.5 Voltage: class 0.5 Energy: class 1 conforming to IEC 61557-12
Data recording	Sag and swell logs Harmonics logs Min/max of instantaneous values Demand values Event logs Sequence of event recording Counter 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 Security/authority verification Alarm Event log Operating/Status report Reports and diagrams

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

[Us] rated supply voltage	12...48 V DC +/- 20 %
Power consumption in VA	2 VA
Communication port protocol	IEC 60870-5-104
Communication port support	ETHERNET 2 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…10 V LPVT AC at 50/60 Hz (single or three phases) : 47…240 V VTs AC at 50/60 Hz (single or three phases)
Number of outputs	2 digital (relay) switch:
Maximum switching voltage	440 V AC
rated motor mechanism voltage	12...127 V DC motor: 90...220 V AC motor:
Continuous output current	8 A
breaking capacity	2000 VA
Irms rated making capacity	15 A during 4 s

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…85 °C
Ambient air temperature for operation	-40…70 °C
Operating altitude	2000 m
Product certifications	CE

Standards	IEC 60255-27 IEC 61557-12 IEC 62586-1 IEC 61000-4-30:class S IEC 61850
Height	140 mm
Width	45 mm
Depth	140 mm
Product weight	0.515 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.0 cm
Package 1 Width	19.0 cm
Package 1 Length	19.8 cm
Package 1 Weight	650.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	5.61 kg

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	95
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant with Exemptions
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Use Again

Repack and remanufacture

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 and never end up in rubbish bins