Product datasheet

Specifications

Green Premium™

CONZERV EM6459H VAF PF DPM NO COM CL 1.0

METSEEM6459HCL10NC

Main

Range	EasyLogic
Product Name	EasyLogic EM64XXH NC
Device Short Name	EM6459H
Product Or Component Type	VAF PF meter

Complementary

Device Application	Power monitoring Power factor control Load control
Type Of Measurement	Current Voltage Frequency Power factor RPM
Metering Type	Frequency Phase currents Power factor and displacement PF (signed, four quadrant) Unbalance current Percentage of load Calculated neutral current Unbalance voltage Rotation speed Average voltage Vavg Average current Iavg Voltage U21, U32, U13, V1, V2, V3
Counter Functions	Power interruption ON hour counting Power outage counting
[Us] Rated Supply Voltage	44...277 V AC 45...65 Hz 44...277 V DC
Network Frequency	50 Hz 60 Hz
[In] Rated Current	5 A 1 A
Type Of Network	3P 1P + N 3P + N 2P 2P + N
Maximum Power Consumption In Va	4 VA at 240 V between phase and neutral
Maximum Power Consumption In W	2 W at 240 V
Display Type	7 segments LED
Display Colour	Red

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Messages Display Capacity	3 fields of 4 characters
Display Digits	12 digit(s) - 14.2 mm in height
Communication Of Data	Revolution speed All counters Percentage of load Reading of measurements
Tamperproof Of Settings	Protected by access code
Sampling Rate	32 samples/cycle
Measurement Current	5…6000 mA
Signal	Voltage (impedance 5 MOhm)4 x Current 0.005...10 A (impedance 0.3 MOhm)6 x
Measurement Voltage	46…277 V AC 50...60 Hz between phase and neutral 80…480 V AC 50...60 Hz between phases 277…999000 V AC 50...60 Hz with external VT
Frequency Measurement Range	45…65 Hz
Measurement Accuracy	Frequency +/- 0.05 % Power factor +/- 0.01 Current +/- 1 % Voltage +/- 1 %
Number Of Outputs	0
Demand Intervals	1 s
Local Signalling	Green LED: activity Red LED: output signal 1...9999000 pulse/ k_h (kWh, kVAh, kVARh)
Material	Polycarbonate
Flame Retardance	V-0 conforming to UL 94
Mounting Mode	Flush-mounted
Mounting Support	Framework
Fixing Mode	By clamp
Provided Equipment	Installation guide
Installation Category	III
Type Of Installation	Indoor installation
Measurement Category	Category III 35…480 V
Electrical Insulation Class	Class II
Connections - Terminals	Current circuit: screw clamp terminals (bottom) 2.08…3.31 mm² cable(s) Voltage circuit: screw clamp terminals (top) 0.82…3.31 mm² cable(s) Control circuit: screw clamp terminals (top) 0.82…3.31 mm² cable(s)
Tightening Torque	Current circuit: 0.9…1 N.m Philips No 2 screwdriver Voltage circuit: 0.9…1 N.m Philips No 2 screwdriver Control circuit: 0.9…1 N.m Philips No 2 screwdriver
Wire Stripping Length	Current circuit: 3.68 mm Voltage circuit: 7 mm Control circuit: 7 mm Communication: 7 mm
Standards	IEC 61010-1:ed. 3 UL 61010-1:ed. 3
Product Certifications	CE conforming to IEC 61010-1 CULus conforming to UL 61010-1 CULus conforming to CSA C22.2 No 61010-1 C-Tick
Width	96 mm

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Depth	13 mm outside:
	49 mm panel:

Height	96 mm

Net Weight	300 g

Environment

Electromagnetic Compatibility	Electrostatic discharge conforming to IEC 61000-4-2
	Radiated radio-frequency electromagnetic field immunity test conforming to IEC 61000-4-3
	Electrical fast transient/burst immunity test conforming to IEC 61000-4-4
	Surge immunity test conforming to IEC 61000-4-5
	Conducted RF disturbances conforming to IEC 61000-4-6
	Magnetic field at power frequency conforming to IEC 61000-4-8
	Voltage dips and interruptions immunity test conforming to IEC 61000-4-11
	Emission tests conforming to FCC part 15 class A
	Emission tests conforming to FCC part 15 Subpart C
	Emission tests conforming to FCC part 15 Subpart E

Overvoltage Category	III

Ip Degree Of Protection	IP51 front: conforming to IEC 60529
	IP30 body: conforming to IEC 60529

Relative Humidity	5…95 % at 50 °C

Pollution Degree	2

Ambient Air Temperature For Operation	-10…60 °C

Ambient Air Temperature For Storage	-20…70 °C

Operating Altitude	<= 2000 m

Service Life	7 year(s)

Packing Units

Unit Type Of Package 1	PCE

Number Of Units In Package 1	1

Package 1 Height	4.88 cm

Package 1 Width	9.6 cm

Package 1 Length	9.6 cm

Package 1 Weight	0.25 kg

Unit Type Of Package 2	S03

Number Of Units In Package 2	18

Package 2 Height	30.0 cm

Package 2 Width	30.0 cm

Package 2 Length	40.0 cm

Package 2 Weight	4.5 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

Circularity Profile   End of Life Information

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