Product datasheet





CONZERV EM6459H VAF PF DPM RS485 CL 0.5

METSEEM6459HCL05RS

Main

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

Device Application	Power factor control
Device Application	Load control
	Power monitoring
Type Of Measurement	Current
	Voltage
	Frequency
	Power factor
	RPM
Metering Type	Phase currents
	Average voltage Vavg
	Average current lavg
	Unbalance current
	Calculated neutral current
	Rotation speed
	Voltage U21, U32, U13, V1, V2, V3
	Percentage of load
	Power factor and displacement PF (signed, four quadrant)
	Unbalance voltage Frequency
Counter Functions	Power interruption
	ON hour counting
	Power outage counting
[Us] Rated Supply Voltage	44277 V AC 4565 Hz
	44277 V DC
Network Frequency	50 Hz
	60 Hz
[In] Rated Current	1 A
	5 A
Type Of Network	3P + N
	1P + N
	2P
	3P
	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	Reading of measurements Revolution speed All counters Percentage of load	
Tamperproof Of Settings	Protected by access code	
Sampling Rate	·	
Measurement Current	32 samples/cycle 56000 mA	
Signal	Voltage (impedance 5 MOhm)4 x Current 0.00510 A (impedance 0.3 MOhm)6 x	
Measurement Voltage	46277 V AC 5060 Hz between phase and neutral 80480 V AC 5060 Hz between phases 277999000 V AC 5060 Hz with external VT	
Frequency Measurement Range	4565 Hz	
Measurement Accuracy	Current +/- 0.5 % Voltage +/- 0.5 % Frequency +/- 0.05 % Power factor +/- 0.01	
Number Of Outputs	0	
Demand Intervals	1 s	
Local Signalling	Green LED: activity Red LED: output signal 19999000 pulse/ k_h (kWh, kVAh, kVARh)	
Communication Port Protocol	Modbus at 4800 bps, 9600 bps, 19200 bps, 38.4 Kbps even/odd or none - 2 wires, insulation 2500 V	
Communication Port Support	Screw terminal block: RS485	
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 35480 V	
Electrical Insulation Class	Class II	
Connections - Terminals	Current circuit: screw clamp terminals (bottom) 2.083.31 mm² cable(s) Voltage circuit: screw clamp terminals (top) 0.823.31 mm² cable(s) Control circuit: screw clamp terminals (top) 0.823.31 mm² cable(s)	
Tightening Torque	Current circuit: 0.91 N.m Philips No 2 screwdriver Voltage circuit: 0.91 N.m Philips No 2 screwdriver Control circuit: 0.91 N.m Philips No 2 screwdriver Communication: 0.50.6 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
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	595 % at 50 °C	
Pollution Degree	2	
Ambient Air Temperature For Operation	-1060 °C	
Ambient Air Temperature For Storage	-2070 °C	
Operating Altitude	<= 2000 m	
Service Life	7 year(s)	

Packing Units

9	
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	0.265 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	4.77 kg

Sustainability Green Premium

Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ 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

20-Apr-2024