Product data sheet
Characteristics

A9MEM3555
iEM3555 energy meter - Modbus - 1 DI - 1 DO - multi-tariff - Rogowski coil



Main

Range	Acti 9
Range of product	Acti 9 iEM3000
Device short name	IEM3555
Product or component type	Energy meter

Complementary

Poles description	1P + N 3P 3P + N
Type of measurement	Voltage Current Active and reactive power Active and reactive energy
Device application	Sub billing Multi-tariff Partial meter
Accuracy class	Active energy : class B according to EN 50470-3 Active energy : class 1 according to IEC 61557-12 Active energy : class 1 according to IEC 62053-21
Input type	Rogowski coil 50...5000 A
Rated voltage	173...480 V +/- 20 % 100...277 V +/- 20%
Network frequency	50 Hz 60 Hz
Technology type	Electronic
Display type	LCD display
Sampling rate	32 samples/cycle
Measurement current	50...5000 mA
Maximum value measured	99999999.9 kWh
Tariff input	4 tariff
Communication port protocol	Modbus RTU 9.6, 19.2 and 38.4 kbauds even/odd or none 4000 V
Communication port support	Screw terminal block : RS485
Local signalling	Communications are active on the Modbus port (Modbus) : indicator light (yellow) Overload : alarm Accuracy checking : flashing LED (yellow) Power ON : indicator light (green)
Number of inputs	1 digital 0...5 V/11...40 V 24 V DC
Number of outputs	1 digital (static)
Output voltage	5...40 V DC < 50 mA
Mounting mode	Clip-on
Mounting support	DIN rail
Connections - terminals	Communication : screw terminals 2.5 mm² Input/Output circuit : screw terminals 1.5 mm² Voltage circuit : screw terminals 2.5 mm² Current circuit : screw terminals 6 mm²

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Tightening torque	Communication : 0.5 N.m Philips Current circuit : 0.8 N.m pozidriv Voltage circuit : 0.5 N.m Philips Input/Output circuit : 0.5 N.m Philips
Wire stripping length	7 mm communication 8 mm current circuit 8 mm voltage circuit 6 mm input/output circuit
Standards	IEC 61036 IEC 61557-12 IEC 62053-21 IEC 62053-23 IEC 61010 UL 61010-1
Product certifications	UL CULus conforming to UL 61010-1 CE conforming to IEC 61010

Environment

IP degree of protection	IP20 (body) conforming to IEC 60529 IP40 (front panel) conforming to IEC 60529
IK degree of protection	IK08
Pollution degree	2
Relative humidity	5...95 % at 36 °C
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Operating altitude	< 3000 m
Colour	White
9 mm pitches	10
Width	90 mm
Height	87 mm
Depth	69 mm