

A9MEM3455

iEM3455 energy meter - Modbus - 1 DI - 1 DO - multi-tariff - LVCT



Main

Range	Acti 9
Product name	Acti 9 iEM3000
Device short name	IEM3455
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
Metering type	Active, reactive, apparent energy (signed, four quadrant)
Device application	Sub billing Multi-tariff Partial meter
Accuracy class	Active energy : class 0.5S according to IEC 62053-22 Active energy : class 0.5S according to ANSI C12.20
Analogue input type	Split core current transducer 0.333 V or 1 V
Rated voltage	100...277 V +/- 20% 173...480 V +/- 20 %
Network frequency	50 Hz 60 Hz
Technology type	Electronic
Display type	LCD display
Sampling rate	32 samples/cycle
Measurement current	1 mA...32767 A
Maximum value measured	99999999 MWh 99999999.9 kWh
Information displayed	4 tariff
Communication port protocol	Modbus RTU 9.6, 19.2 and 38.4 kbauds even/odd or none
Communication port support	Screw terminal block : RS485
Local signalling	Power ON : indicator light (green) Accuracy checking : flashing LED (yellow) Overload : alarm Communications are active on the Modbus port (Modbus) : indicator light (yellow)
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	Current circuit : screw terminals 6 mm ² Voltage circuit : screw terminals 2.5 mm ² Input/output circuit : screw terminals 1.5 mm ² Communication : screw terminals 2.5 mm ²
Tightening torque	Input/output circuit : 0.5 N.m Philips Voltage circuit : 0.5 N.m Philips

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Current circuit : 0.8 N.m pozidriv
Communication : 0.5 N.m Philips

Wire stripping length	6 mm input/output circuit 8 mm voltage circuit 8 mm current circuit 7 mm communication
Standards	IEC 61036 IEC 61557-12 IEC 62053-21 IEC 62053-23 IEC 61010 UL 61010-1
Product certifications	UL EAC (sub-meter) CE - IEC 61010 (safety) CE - IEC 61326-1 (EMC) CULus - ANSI C12.20 (sub-meter) RCM - NMI M 6-1 (sub-meter) CE - EN 61557-12 (power monitor) CULus - UL 61010 (safety)

Environment

IP degree of protection	IP40 (front panel) conforming to IEC 60529 IP20 (body) 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 (IEC) -25...70 °C (MID) -25...70 °C (NMI)
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

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 1530 - Schneider Electric declaration of conformity
Product environmental profile	Available
Product end of life instructions	Available