Product data sheet
Characteristics

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
	Panelboard in buildings multi-site, for cost allocation (Energy cost management) Industry, for cost allocation (Energy cost management) Sub feeder in buildings large building, for cost allocation (Energy cost management) Datacenter, for cost allocation (Energy cost management) Sub feeder in buildings medium building, for billing (Energy cost management) Main incomer in buildings medium building, for cost allocation (Energy cost management) Sub feeder in buildings medium building, for cost allocation (Energy cost management) Panelboard in buildings medium building, for billing (Energy cost management) Sub feeder in buildings multi-site, for billing (Energy cost management) Healthcare, for cost allocation (Energy cost management) Sub feeder in buildings large building, for billing (Energy cost management) Healthcare, for billing (Energy cost management) Panelboard in buildings small building, for billing (Energy cost management) Sub feeder in buildings multi-site, for cost allocation (Energy cost management) Industry, for billing (Energy cost management) Main incomer in buildings large building, for billing (Energy cost management) Panelboard in buildings multi-site, for billing (Energy cost management) Panelboard in buildings medium building, for cost allocation (Energy cost management) Sub feeder in buildings small building, for billing (Energy cost management) Main incomer in buildings small building, for billing (Energy cost management) Datacenter, for billing (Energy cost management) Main incomer in buildings multi-site, for billing (Energy cost management) Main incomer in buildings medium building, for billing (Energy cost management) Main incomer in buildings small building, for cost allocation (Energy cost management) Sub feeder in buildings small building, for cost allocation (Energy cost management) Panelboard in buildings small building, for cost allocation (Energy cost management) Main incomer in buildings large building, for cost allocation (Energy cost management) Panelboard in buildings large building, for billing (Energy cost management) Panelboard in buildings large building, for cost allocation (Energy cost management) Main incomer in buildings multi-site, for cost allocation (Energy cost management)

Complementary

Poles description	1P + N 3P 3P + N
Type of measurement	Active and reactive energy Current Voltage Active and reactive power
Device application	Sub billing Multi-tariff Partial meter
Accuracy class	Active energy : class 0.5S according to ANSI C12.20 Active energy : class 0.5S according to IEC 62053-22
Analogue input type	Split core current transducer 0.333 V or 1 V
Rated voltage	173...480 V +/- 20 % 100...277 V +/- 20%
Network frequency	60 Hz 50 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	Overload : alarm Communications are active on the Modbus port (Modbus) : indicator light (yellow) 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	Input/Output circuit : screw terminals 1.5 mm² Voltage circuit : screw terminals 2.5 mm² Communication : screw terminals 2.5 mm² Current circuit : screw terminals 6 mm²
Tightening torque	Current circuit : 0.8 N.m pozidriv Input/Output circuit : 0.5 N.m Philips Voltage circuit : 0.5 N.m Philips Communication : 0.5 N.m Philips
Wire stripping length	8 mm voltage circuit 7 mm communication 6 mm input/output circuit 8 mm current circuit
Standards	IEC 61036 UL 61010-1 IEC 62053-23 IEC 61010 IEC 62053-21 IEC 61557-12
Product certifications	CE conforming to IEC 61010 UL CULus conforming to UL 61010-1

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
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 Schneider Electric declaration of conformity
Product environmental profile	Available Product Environmental
Product end of life instructions	Available End Of Life Manual