Product data sheet
Characteristics

A9MEM3235
iEM3235 energy meter - CT - M-bus - 1 digital I - 1 digital O - multi-tariff



Main

Range	Acti 9
Product name	Acti 9 iEM3000
Device short name	IEM3235
Product or component type	Energy meter

Complementary

Poles description	1P + N 3P + N 3P
Type of measurement	Active and reactive power Active and reactive energy Voltage Current
Metering type	Active, reactive, apparent energy (signed, four quadrant)
Device application	Multi-tariff Sub billing Partial meter
Accuracy class	Active energy : class 0.5S according to IEC 62053-22 Active energy : class 0.5S according to IEC 61557-12 Active energy : class C according to EN 50470-3
Analogue input type	External CT 1 A or 5 A
[In] rated current	1 A 5 A
Rated voltage	100...277 V 173...480 V
Network frequency	50 Hz 60 Hz
Technology type	Electronic
Display type	LCD display
Sampling rate	32 samples/cycle
Measurement current	1 mA...32767 A

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Maximum value measured	99999999 MWh
Information displayed	4 tariff
Communication port protocol	M-bus 300, 600, 1200, 2400, 4800 and 9600 bauds
Communication port support	Screw terminal block : M-Bus
Typical current consumption	Communication 2.3 mA M-bus :
Local signalling	Power ON : indicator light (green) Accuracy checking : flashing LED (yellow) Overload : alarm
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 mm² Voltage circuit : screw terminals 2.5 mm²
Overvoltage category	III
Standards	UL 61010-1 IEC 62053-22 IEC 61036 IEC 61557-12 IEC 61010 IEC 62053-23
Product certifications	UL EAC (sub-meter) CE - IEC 61010 (safety) CE - IEC 61326-1 (EMC) CULus - ANSI C12.20 (sub-meter) MID - EN 62052 (sub-meter) RCM - NMI M 6-1 (sub-meter) MID - EN 50470-3 (sub-meter) CE - EN 61557-12 (power monitor) CULus - UL 61010 (safety)

Environment

IP degree of protection	IP20 (body) conforming to IEC 60529 IP40 (front panel) conforming to IEC 60529
Pollution degree	2
Relative humidity	5...95 % at 50 °C
Ambient air temperature for operation	-25...60 °C (NMI) -25...60 °C (IEC) -25...55 °C (MID)
Ambient air temperature for storage	-40...85 °C
Operating altitude	< 2000 m
Colour	White
9 mm pitches	10
Width	90 mm
Height	95 mm
Depth	69 mm

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 1308 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
Product environmental profile	Available Product environmental
Product end of life instructions	Available

Contractual warranty

Warranty period	18 months