

EMOB200 – Technical data

EMOB200-00_SPECS_EXT_GB_V403

General	
Temperature range, operation	-10° ... +40° C
Relative humidity (not condensing)	10 ... 90 %
Connector type	IEC 62196 Combo type 2 (type 2, CCS2)
Safety	
IP class according to DIN EN 60529	IP67 [IP40]
Declaration of conformity	CE conform
Overvoltage category current measurement AC	CAT II 300 V
Overvoltage category current measurement DC	CAT II 1000 V
Voltage Measurement AC	
Voltage range(s) 23) 30)	250 V, 8 V, 100 mV
Voltage measurement accuracy 11) 23)	< 0.05 %
Voltage measurement accuracy 11) 30)	< 0.025 %
Voltage measurement temperature drift 11) 23)	< 15 x 10 E-6 / K
Voltage measurement temperature drift 11) 30)	< 5 x 10 E-6 / K
Maximum of voltage AC	300 V
Voltage Measurement DC	
Voltage measurement DC accuracy 3) 23) 30)	< 0.05 %
Voltage measurement DC temperature drift 3) 23) 30)	< 15 x 10-6 / K
Voltage measurement DC long term stability 3) 23) 30)	< 100 x 10-6 / Year
Maximum of voltage DC	1200 V=
Current measurement AC	
Fundamental frequency	45 ... 65 Hz
Current measurement	10 mA ... 32 A
Current range(s) 23)	50 A, 10 A, 5 A, 1 A, 500 mA, 100 mA, 50 mA
Current measurement accuracy 23)	< 0.05 % @ 32 A ... 100mA < 0.1 % @ 100 mA ... 20 mA
Current measurement accuracy 30)	< 0.025 % @ 32 A ... 100 mA < 0.05 % @ 100 mA ... 20 mA
Angle measurement accuracy 23)	< 0.015 ° @ 32 A ... 100mA < 0.03 ° @ 100mA ... 20 mA
Angle measurement accuracy 30)	< 0.01 ° @ 32 A ... 100mA < 0.03 ° @ 100mA ... 20 mA
Current measurement temperature drift 23)	< 15 x 10 E-6 / K
Current measurement temperature drift 30)	< 5 x 10 E-6 / K
Maximum current AC	32 A ~
Current channels surge current capability AC	63 A (1 min)
Current measurement DC	
Current measurement DC accuracy 23) 30)	< 0.05 % @ 20 A ... 200 A < 0.1 % @ 1 A ... < 20 A
Maximum current DC	200 A =
Current measurement DC temperature drift 4) 23) 30)	< 15 x 10-6 / K
Current measurement DC long term stability 23) 30) > 10 A	< 200 x 10-6 / Year
Current channels surge current capability DC	280 A (1 min)
Power Measurement AC	
Power/energy measurement accuracy 23)	< 0.1 % @ 32 A ... 100 mA < 0.15 % @ 100 mA ... 20 mA
Power/energy measurement accuracy 30)	< 0.05 % @ 32 A ... 100 mA < 0.1 % @ 100 mA ... 20 mA
Power/energy measurement temperature drift 23)	< 30 x 10 E-6 / K
Power/energy measurement temperature drift 30)	< 10 x 10 E-6 / K
Power Measurement DC	
Power/energy measurement DC accuracy 3) 23) 30)	< 0.1 % @ 20 A ... 200 A < 0.15 % @ 1 A ... < 20 A
Power/energy measurement DC temperature drift 3) 4) 23) 30)	< 30 x 10-6 / K
Power/energy measurement DC long term stability 3) 23) 30) > 10 A	< 300 x 10-6

3: From 100 V ... 1000 V

4: From 1 A ... 200 A

11: From 30 V ... 300 V

23: In connection with MT310s2

30: In connection with MT320s2

Subjects to alteration.

05.09.2023