

EMC 3b | EMC D3b

ENERGY METERS - FLUSH MOUNTING OR DIN-RAIL MOUNTING



TECHNICAL CHARACTERISTICS		EMC-3b	EMC-D3b
AUXILIARY SUPPLY			
Rated voltage Us		110-230-400 VAC	400VAC
Operating limits		±15%	±15%
Power consumption		4VA	3VA
Frequency		50 - 60 Hz	45 - 65 Hz
VOLTAGE INPUTS			
Measurement range		20...500VAC L-L (20...290VAC L-N)	20...500VAC L-L (20...290VAC L-N)
Method of measuring		True RMS value	True RMS value
Measuring input impedance		1MΩ	1MΩ
Method of connection		Single-phase, direct connection 3 or 4 wires, balanced three-phase	
CURRENT INPUTS			
Rated current		1A (option) or 5A	1A (option) or 5A
Measurement range		0,02...5A	0,02...5A
Measuring method		True RMS value	True RMS value
Overload capacity		+30% by an external current transformer	+30% by an external current transformer
Self-consumption		<0,5VA	<0,5VA
ACCURACY			
Measures	Voltage	Class 0,5 f.s. ± 1 digit	Class 0,5 f.s. ± 1 digit
	Current	Class 0,5 f.s. ± 1 digit	Class 0,5 f.s. ± 1 digit
	Power	Class 1 f.s. da ± 1 digit	Class 1 f.s. da ± 1 digit
	Frequency	Class 0,5 f.s. ± 1 digit	Class 0,5 f.s. ± 1 digit
	Active energy	Class 1	Class 1
INSULATION			
Insulation voltage		3kVAC for 1 minute	3kVAC for 1 minute
AMBIENT CONDITION			
Operating temperature		-10...+60°C	-10...+60°C
Storage temperature		-25...+80°C	-25...+80°C
HOUSING			
Version		Flush mount 96 x 96 mm	6 modules
Degree of protection		IP52 on front IP20 Housing and terminals	IP52 on front IP20 Housing and terminals
Weight		500g	400g
CERTIFICATIONS AND COMPLIANCE			
Reference standards		IEC/EN 50081-2, IEC/EN 61000-6-2, IEC/EN 61010-1, IEC/EN 61036-1	

OPTIONS	
ORDER CODE	DESCRIPTION
C1	Auxiliary supply 20÷60 VAC/DC (version EMC-3b)
C2	Auxiliary supply 90÷250 VAC/DC (version EMC-3b)
C3	Auxiliary supply 250 VAC/DC (version EMC-3b)
C4	Auxiliary supply 110 VAC/DC (version EMC-3b)
600	Voltage inputs 600 V (version EMM-4h)
1A	Rated current inputs by external CT 1A

T	Internal current inputs, galvanically insulated
TT - TTA	Current inputs by miniaturized closed CT (TT) or openable CT (TTA)
N	Neutral current input or differential current input (version EMM-D4h)
P	2 digital outputs
DI	1 digital input

COMMUNICATION PORTS	
485	RS485 serial interface