

**Type:** **Advanced Energy Meter (AEM) AEM 180 (MID), AEM 305 (MID),  
AEM 380 (MID)**  
**Advanced Power Meter (APM) APM 305, APM 380**  
**Basic Energy Meters (BEM) BEM 305, BEM 305 (MID),  
BEM 380, BEM 380 (MID)**

## Technical specifications

* Measuring input	Operation range voltage 184...276V AC Current <i>I<sub>ref</sub></i> 15A Current <i>I<sub>min</sub></i> 0,75A Operating range current ( <i>I<sub>st</sub>...I<sub>min</sub></i> ) 0,025...80A Frequency range: 50Hz	
Overload capability	Continuous operation: 276V AC Continuous operation: 80A	Momentary (1s): 300V AC Momentary (10ms): 2400A
* Measuring accuracy at 23 ± 1°C	Active energy and power acc. to EN 50470-3 ± 1% Reactive energy and power acc. to EN 62053-23 ± 2%	
* Supply voltage ( <i>U<sub>n</sub></i> ): Rated frequency ( <i>f<sub>n</sub></i> ): Rated power dissipation ( <i>P<sub>v</sub></i> ):	230V AC, Operating range voltage 184...276V AC 50Hz ≤8 (0.6) VA	
Housing	DIN 43880 2 Mod. Depth 70mm	

## Type Test specifications

Tested according to:

Vibration:	2...13.2Hz: 3 mm 13.2...150Hz: 1.0 g	IEC/EN 60068-2-6
Shock:	6 attempts with 30 g, 11ms half sine (in 3 directions)	IEC/EN 60068-2-27
Climate:	≤80% RH Non-condensing	IEC/EN 60068-2-30, test Db
Protection:	IP20	IEC/EN 60529
Temperature:	-10...+55 °C (operating) -25...+70 °C (storage)	
* Test voltage:	2kV-50Hz - 1min Between circuits not intended to be connected together in service 4kV-50Hz - 1min Between circuits and earth	EN 50470-3
EMC:	Immunity / Emission	EN 61000-6-2/3 EN 50470-1

\*) Tested on all units according to specifications. Remaining specifications are tested regularly by test sampling



Martin S. Mallan  
Type Test Manager

Ref.: JCL

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