

Declaration of Conformity

IEC/EN 61557-12:2018/AMD1:2021



Range: Acti9 iEM3000 series

Products: iEM3310, iEM3335, iEM3350, iEM3355, iEM3365, iEM3375

Above product types are prefixed with A9MEM

We, the undersigned, declare that we performed conformity assessment activities, and that the obtained results demonstrate the conformity¹ of the products declared herein to the specified characteristics listed below:

¹ when subject to correct installation, maintenance and use conforming to their intended purpose, according to applicable regulations and standards in the country where they are installed, to the supplier's instructions and to accepted rules of the art

PMD-II/DD/K70/1

Legend: **PMD/cv/Ktt/p**

PMD: Performance Measuring and monitoring Device ;Type II

c : Current measurement (S: with sensor, indirect insertion, D: Direct insertion)

v : Voltage measurement (S: with sensor, indirect insertion, D: Direct insertion)

Ktt : Temperature Class

p : Active Energy Performance Class

INTRODUCTION

The IEC/EN 61557-12 standard provides basis by which measurement products can be specified, described and evaluated. The standard specifications cover:

- product performances within a specified temperature range
- product robustness regarding EMC, climatic and mechanical influences
- product safety

1. PRODUCT CHARACTERISTICS

I_b	I_{max}	U_{min} (L-N/L-L)	U_n (L-N/L-L)	U_{max} (L-N/L-L)
20 A	125 A	100/173V	230/400V	277/480V

2. FUNCTIONS PERFORMANCE CLASS

Function symbol	Function	Function performance class acc. to IEC 61557-12	Measuring range (with CT ratio = 1:1 and VT ratio = 1:1)	Other complementary characteristics
P	Total active power	1	5% $I_b \leq I \leq I_{max}$ PF=1 10% $I_b \leq I \leq I_{max}$ 0,5 Ind 0,8 Cap	Only for iEM3355, iEM3335, iEM3365, iEM3375, iEM3350

Schneider Electric Industries SAS

954 503 439 rcs Nanterre – code APE : 2712Z

Siret : 954 503 439 01719

n° ident. TVA : FR 04 954 503 439

Siège social : 35 rue Joseph Monier

F – 92500 Rueil-Malmaison

<http://www.schneider-electric.com>

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Q_V	Total reactive power vector	2	5% $I_b \leq I \leq I_{max}$ Sinφ 1 Ind or 1 Cap 10% $I_b \leq I \leq I_{max}$ Sinφ 0.5 Ind or 1 Cap 20% $I_b \leq I \leq I_{max}$ Sinφ 0.25 Ind or 0.25 Cap	Only for iEM3355 iEM3335, iEM3365, iEM3375
S_V	Total apparent Power Vector	0.5	5% $I_b \leq I \leq I_{max}$	Only for iEM3355 iEM3335, iEM3365, iEM3375
E_a	Total active energy	1	5% $I_b \leq I \leq I_{max}$ PF=1 10% $I_b \leq I \leq I_{max}$ 0,5 Ind 0,8 Cap 0-99999999.9 KWh	Compliance with accuracy requirements of IEC62053-21 Class 1 Only for iEM3355, iEM3310 iEM3335, iEM3365, iEM3375, iEM3350
E_{RV}	Total reactive energy Vector	2	5% $I_b \leq I \leq I_{max}$ Sinφ 1 Ind or 1 Cap 10% $I_b \leq I \leq I_{max}$ Sinφ 0.5 Ind or 1 Cap 20% $I_b \leq I \leq I_{max}$ Sinφ 0.25 Ind or 0.25 Cap 0-99999999.9 Kvarh	Compliance with accuracy requirements of IEC62053-23 Class 2, Only for iEM3355 iEM3335, iEM3365, iEM3375
f	Frequency	0.05	45 Hz – 65 Hz	Only for iEM3355 iEM3335, iEM3365, iEM3375
I	Phase current	1.0	20% $I_b \leq I \leq I_{max}$	Only for iEM3355, iEM3335, iEM3365, iEM3375, iEM3350
U	Voltage (L-L) / (L-N)	1.0	173V-480V /100-277V	Only for iEM3355, iEM3335, iEM3365, iEM3375, iEM3350
PF_V	Power factor Vector	1.0	From 0,5 Ind to 0.8 Cap	Only for iEM3355, iEM3335, iEM3365, iEM3375, iEM3350

3. CLIMATIC

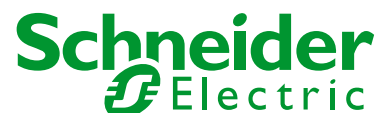
Characteristic	Value	class acc. to IEC 61557-12	class acc. to IEC 60721-3-x
Temperature rated operating range (with specified uncertainty)	-25 °C to +70 °C	K70	3K8H
Temperature limit range of operation (no hardware failures)	-25 °C to +70 °C		3K8H
Temperature limit range for storage / shipping	-40 °C to +85 °C		1K5 / 2K4
Humidity rated operating range (with specified uncertainty)	5% to 95% RH (non-condensing)	---	---
Humidity limit range of operation for 30 days/year			---
Humidity limit range for storage and shipping			---
Altitude	0 to 3000 m		---

4. SAFETY, EMC and MECHANICAL

Characteristic	Reference standard	Level
EMC emission	IEC 61326-1 / CISPR 11	Class B

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EMC immunity	IEC 61326-1 Edition 3.0	Table 2, Industrial electromagnetic environment
Product safety	UL/IEC 61010 Edition 3.1 IEC 61010-2-030:2017	Overvoltage / Measurement category III, Pollution degree 2, protective class 2
IP degree	IEC 60529	Front panel IP40; casing IP20 (excluding terminals)

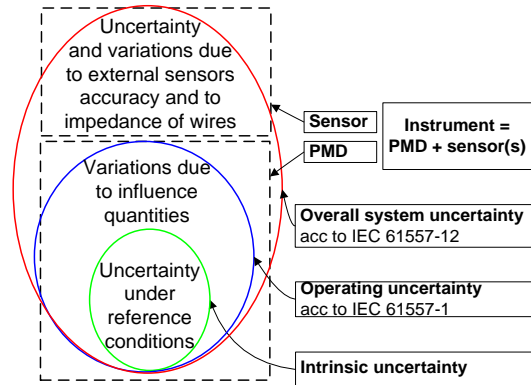
5. RECOMMANDATION FOR SYSTEM PERFORMANCE

The association of a PMD with external current and/or voltage sensors builds a complete instrument.

The system performance class depends on the sensor class and the PMD performance class

See annex C and annex D of IEC 61557-12 for evaluation of the system performance class.

It is recommended that the sensor class should be better or equal to the performance class of its associated PMD.



Signé par :

Marie-Pierre Vayr-Passays

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Marie Pierre Vayr-Passays

VP, Customer Satisfaction & Quality Digital Energy

Nom, Fonction / Name, title :

Date et lieu d'établissement / Place and date: Grenoble, France, December 08,2025.

Signature / Signature :

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