

Manufacturer declaration of conformity to IEC 61557-12:2007



Range: PM8000

Products: PM8240, PM8243 and PM8244

We, the undersigned, declare that we performed a review of the available conformity assessment activity results, and that these results demonstrate the conformity of the products to the specified characteristics listed below ⁽¹⁾:

PMD/SD/K70/0,2

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Tutorial: PMD/cv/Kt/p

*PM*D: Performance Measuring and monitoring Device

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

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

Kt: Temperature Class

p: Active Energy Performance Class

1. PRODUCT CHARACTERISTICS

I_n	I_b	I_{max}	U_n (L-N/L-L)	U_{min} (L-N/L-L)	U_{max} (L-N/L-L)	CT ratio	VT ratio
1 A / 5 A	N/A	10 A	230/400V	57,7/100V	400/690V	1 to 1e6	1 to 1e6

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	0,2	0 to $\pm 20,7$ kW	
QA	Total reactive power arithmetic	1	0 to $\pm 20,7$ kVAr	
SA	Total apparent power arithmetic	0,2	0 to $\pm 20,7$ kVA	
Ea	Total active energy	0,2	0 to ± 107 kWh	Compliance with accuracy requirements of IEC62053-22 Class 0,2S & ANSI C12.20 Class 0,2
ErA	Total reactive energy arithmetic	2	0 to ± 107 kVArh	Compliance with accuracy requirements of IEC 62053-23 Class 2 or IEC 62053-24 Class 0,5S
EapA	Total apparent energy arithmetic	0,2	0 to ± 107 kVAh	
f	Frequency	0,02	42 Hz – 69 Hz	
I	Phase current	0,2	0,1% I_n – 200% I_n A	
IN	Neutral current (measured)	0,2	0,1% I_n – 200% I_n A	
INC	Neutral current (calculated)	0,5	0,1% I_n – 200% I_n A	
U	Voltage (L-N) Voltage (L-L)	0,2	57,7 V – 400V 100 V – 690 V	
PFA	Power factor arithmetic	0,5	0,5 Ind to 0,8 Cap	
Udip	Voltage dips	0,5	5% to 100% U_n	
Uswl	Voltage swells	0,5	100% to 120% U_n	

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U _{int}	Voltage Interruption (L-N & L-L)	1	0%U _n - 5%U _n V	
U _{nb}	Voltage Unbalance amplitude (L-N)	0,2	0% - 10%U _n V	
U _h	Voltage harmonics	1	Up to rank 63rd	
THD _u	Voltage THD	1	0% to 100%	
THD-R _u	Voltage THD	1	0% to 100%	
I _h	Current harmonics	1	Up to rank 63rd	
THD _i	Current THD	1	0% to 100%	
THD-R _i	Current THD	1	0% to 100%	

3. CLIMATIC

Characteristic	Performance
Temperature rated operating range (with specified uncertainty)	-25 °C to +70 °C
Temperature limit range of operation (no hardware failures)	-25 °C to +70 °C
Temperature limit range for storage / shipping	-40 °C to +85 °C
Humidity rated operating range (with specified uncertainty)	0 to 75 % RH
Humidity limit range of operation for 30 days/year	0 to 90 % RH
Humidity limit range for storage and shipping	0 to 90 % RH

4. MECHANICAL, EMC AND SAFETY

Characteristic	Ref. standard	Performance
EMC emission	IEC 61326-1	Class B
EMC immunity	IEC 61326-1 Table 2	Industrial electromagnetic environment
Product safety	IEC 61010	Overvoltage category III Measurement category III Pollution degree 2 Altitude 3000m Protective class 2
IP degree	IEC 60529	Front panel: IP54 Back: IP30 (excluding terminals)

⁽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

Annick DEMACHY
Quality and Customer Satisfaction VP

Date and signature

30/03/15



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