



AC 117

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CERTIFICATE OF CONFORMITY

No. 063/2012

CORRECTION FROM 25.08.2014

*Name and address
owner of certificate:*

ABB Sp. z o.o.
1 Żegańska Str.
04-713 Warszawa, Poland

Name of the product:

Combined transformer

Type:

PVA 123

Manufacturer:

ABB Sp. z o.o. Branch Office in Przasnysz
59 Leszno Str.
06-300 Przasnysz, Poland

*Parameters and
application of product:*

According to appendix
Current transformer assigned for power systems of rated voltages
110 kV.

*The product meets
requirements of the:*

IEC 61869-4 Ed 1.0 and PN-EN 61869-1:2009

*According to the test
report made by:*

Instytut Energetyki

Number of the test report:

DZC/82c/E/2012/2014

Period of validity:

from December 2012 until December 2015

Absolute right to use certificate of conformity on his validity date apply to only copies/batch, who meets above-mentioned requirements and the characteristics/parameters of the product are identical like models/samples products presented for the tests.

The appendix to certificate of conformity including the list of evidenced parameters.

The system of product certification 1bw-1 (acc. PKN-ISO IEC Guide 67:2007) includes:

- tests and quality assessment of project,
- assessment of manufacturer and owner (supplier) quality system.



pp of the DIRECTOR OF
INSTYTUT ENERGETYKI

dr hab./inż. Jerzy Przybysz prof. IEn

Warsaw, 2012.12.20



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APPENDIX TO CERTIFICATE OF CONFORMITY**No. 063/2012****CORRECTION FROM 25.08.2014****LIST OF EVIDENCED PARAMETERS**

Combined transformer type PVA 123		
Rated primary voltage [U _{pn}]	110/√3 kV	
Highest voltage of combined transformer [U _m]	123 kV	
Rated frequency [f]	50 Hz	
Rated insulation level	AC 230 kV / LI 550 kV	
Burden class	II ⁰	
External insulation – minimum creepage distance:		
• ceramic insulator	3640 mm	
• composite insulator	3800 mm	
Degree of protection of secondary terminals box	IP55	
Current element		
Rated primary current [I _{pn}]	50 A ÷ 3 000 A	
Extended current rating	up to 200%	
Rated continuous thermal current [I _{cth}]	main circuit in realization ^{2), 4)}	main circuit in realization ^{2), 4)}
	≤2250 A	≤ 3600 A
Rated short-time thermal current [I _{th}] during 1 s for solutions of main circuit in realization:		
• copper stranded conductor 120 mm ²	20 kA	
• copper stranded conductor 240 mm ²	40 kA	
• rod Φ 25 mm or pipe 50 x 5 mm	50 kA	
• rod Φ 35 mm or pipe 60 x 7 mm	63kA	
Rated dynamic current [I _{dyn}]	50 ÷ 158 kA	
Rated secondary current [I _{sn}]	1 A or 5 A	
Measure core parameters: (S _n ; kl.; FS)	2,5 VA ÷ 90 VA; 0,2S, 0,5S, 0,2, 0,5, 1; FS5 or FS10	
• 5 A and 1 A		
Protective core parameters (S _n ; kl.; ALF)	2,5 VA ÷ 90 VA; 5P or 10 P, ALF up to 30	
• 5 A and 1 A		
Voltage element		
Rated voltage factor [k _U] / czas	1,5/30s or 1,9/8 h	
Rated second voltage [U _{sn}]	100/√3 V	
Measure and protective windings parameters (S _n ; kl.)	1,0 VA ÷ 150 VA; kl. 0,1, 0,2 and 3P 1,0 VA ÷ 400 VA; kl. 0,5, 1, 3 and 3P	
Rated voltage of residual voltage winding [U _{sn} (da-dn)]	100/3 V	
Residual voltage winding parameters (S _n ; kl.)	25 VA ÷ 50 VA; kl. 3P or 6P	
Total thermal limiting output [S _{th}]	4 000 VA	

NOTICES:

1. ¹⁾ Testing was performed for $F_R = 3600$ N.
2. ²⁾ Rod Φ 25 mm, pipe 50 x 5 mm, copper stranded conductor 240 mm², copper stranded conductor 120 mm².
3. ³⁾ Rod Φ 35 mm or pipe 60 x 7 mm².
4. ⁴⁾ Applies the highest current range

