

Greenwood Power GmbH  
Laboratory

DEPARTMENT for Research and Development

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**Microclimate conditions**

Temperature (°C): 23.3

Humidity %rH: 47.6

**TEST REPORT  
FOR LOW POWER PASSIVE CURRENT TRANSFORMERS****Report No.**

117/19

Date: 21/05/2019

**TECHNICAL DATA**

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Type of transformer	N030T-0U	Installation	Indoor	Outdoor
Factory No.	117/19	Rated burden measuring core (kOhm)	20	
Rated transformation ratio (A/mV)	300A//225mV	Accuracy class initial	Cl.1 & 5P10	
Rated insulation level (kV)	0.72	Accuracy class with corr. factors	Cl.0,5 & 5P10	
Rated frequency (Hz)	50	Extended current rating (%)	200	
Rated short-time thermal current I <sub>th</sub> (kA)	25/1s	Correction factor CF-I	0.995	
Rated dynamic current I <sub>dyn</sub> (kA)	62.5	Correction factor Phase (°)	-12	
Rated continuous thermal current I <sub>cth</sub> (A)	600	-	-	
Customer: Greenwood-Power				

**ROUTINE TESTS (c.s. 7.3.)**

Power-frequency voltage withstand test on primary terminals (c.s. 7.3.1.)	Test voltage	Duration	Frequency
	-	-	-

Partial discharge measurement (c.s. 7.3.2.) (Test procedure A)	Test voltage, frequency 50Hz		1,2 Um
	1,2 Um		√ 3
	Measured partial discharge (pC)	-	-

Inter-turn overvoltage test (c.s. 7.3.204)	Max. voltage	Duration	Frequency
	-	-	-

Power-frequency voltage withstand test between sections (c.s. 7.3.3.) Power-frequency voltage withstand test on secondary terminals (c.s. 7.3.4.)	Test voltage	Duration	Frequency
	-	-	-

**Tests for accuracy and verification of terminal markings**

		1% I <sub>n</sub>		5% I <sub>n</sub>		20% I <sub>n</sub>		100% I <sub>n</sub>		120% I <sub>n</sub>		200% I <sub>n</sub>	
Terminals	Burden (kOhm)	ε [%]	Δ φ	ε [%]	Δ φ	ε [%]	Δ φ	ε [%]	Δ φ	ε [%]	Δ φ	ε [%]	Δ φ
S1-S2	20	-	-	-0.04	45.6	0.26	24.7	0.47	12.8	0.49	12.2	0.50	11.5

**ALL TESTS HAVE BEEN PERFORMED ACCORDING TO:**

- Standard IEC 61869-10

**METER/PRODUCT IS AT THE MOMENT OF CONTROLLING COMPLYING WITH STANDARDS.**

Controlled by

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