



TEST REPORT

Test Report Number : PSDRTL1718T0005 Date: 27.10.2017

Name & address of the Customer : M/s Voltech Manufacturing Company Limited,  
No.132,133,134,Sri Kumaran Nagar,  
Kundrathur Main Road, Kovur,  
Chennai – 600128,  
India.

Name & address of the Manufacturer : M/s Voltech Manufacturing Company Limited,  
No.132,133,134,Sri Kumaran Nagar,  
Kundrathur Main Road, Kovur,  
Chennai – 600128,  
India.

Particulars of sample tested :

Condition of the Sample on Receipt : New as stated by the customer  
Type : Nil  
Designation : Model:VN500R  
Serial number : Motor Protection Relay  
Number of samples tested : 017-8918  
Date(s) of Test(s) : One only  
CPRI sample code no(s) : 19.09.2017 to 10.10.2017  
PSDRTL1718S0003

Particulars of tests conducted

Test in accordance with standard / specification : As given in sheet 7 of 29  
Sampling plan : Not applicable

Customers requirement : Nil  
Deviations if any : Nil

Name of the witnessing persons :

Customers representatives : Mr. K.R.Prasad, Technical Director  
Other than customers representatives : Nil

Test subcontracted with address of the laboratory : None

Documents constituting this report (in words)

Number of Sheets : Twenty Nine (29) only  
Number of Oscillogram/s : Nil  
Number of Graphs : Nil  
Number of Photos : Nil  
Number of Test Circuit Diagrams : Nil  
Number of Drawings : Nil

*Kaliappan*  
(P. KALIAPPAN)  
Test Engineer



*Meera K.S.*  
(Meera K.S.)  
Additional Director



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## PARTICULARS OF TESTS CONDUCTED:

SL.No.	TESTS CONDUCTED	IN GENERAL ACCORDANCE WITH
1.0	Determination of steady state errors related to the characteristic quantity	IEC 60255-151, CL 6.2, 2009
1.1	Accuracy of setting (start) value	IEC 60255-151, CL 6.2.1, 2009
1.1.1	Phase over current	IEC 60255-151, CL 6.2.1, 2009
1.1.2	Earth fault	IEC 60255-151, CL 6.2.1, 2009
1.2	Reset ratio determination	IEC 60255-151, CL 6.2.2, 2009
1.2.1	Phase over current	IEC 60255-151, CL 6.2.2, 2009
1.2.2	Earth fault	IEC 60255-151, CL 6.2.2, 2009
2.0	Determination of steady state errors related to the operate time	IEC 60255-151, CL 6.3, 2009
2.1	Phase over current	IEC 60255-151, CL 6.3, 2009
2.1.1	Phase Low set Over Current	IEC 60255-151, CL 6.3, 2009
2.1.2	Definite Time Phase Over Current	IEC 60255-151, CL 6.3, 2009
2.2	Earth fault	IEC 60255-151, CL 6.3, 2009
2.2.1	Low set Earth fault	IEC 60255-151, CL 6.3, 2009
2.2.2	Definite Time Earth fault	IEC 60255-151, CL 6.3, 2009
3.0	Burden tests	IEC 60255-1, CL 6.10, 2009
3.1	Burden for current transformers	IEC 60255-1, CL 6.10.2, 2009
3.2	Burden test for DC power supply	IEC 60255-1, CL 6.10.4, 2009
3.2.1	Quiescent state burden	IEC 60255-1, CL 6.10.4.1, 2009
3.2.2	Maximum load	IEC 60255-1, CL 6.10.4.2, 2009

*P. Kaliappan*  
(P.Kaliappan)  
Test Engineer

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CONCLUSION:

SL.No.	TESTS CONDUCTED	IN GENERAL ACCORDANCE WITH	REMARKS
1.0	Determination of steady state errors related to the characteristic quantity.	IEC 60255-151, CL 6.2, 2009	
1.1	Accuracy of setting (start) value	IEC 60255-151, CL 6.2.1, 2009	
1.1.1	Phase over current	IEC 60255-151, CL 6.2.1, 2009	Within the claimed limits.
1.1.2	Earth fault	IEC 60255-151, CL 6.2.1, 2009	Within the claimed limits
1.2	Reset ratio determination	IEC 60255-151, CL 6.2.2, 2009	
1.2.1	Phase over current	IEC 60255-151, CL 6.2.2, 2009	Within the claimed limits
1.2.2	Earth fault	IEC 60255-151, CL 6.2.2, 2009	Within the claimed limits
2.0	Determination of steady state errors related to the operate time	IEC 60255-151, CL 6.3, 2009	
2.1	Phase over current	IEC 60255-151, CL 6.3, 2009	
2.1.1	Phase Low set Over Current	IEC 60255-151, CL 6.3, 2009	Within the claimed limits
2.1.2	Definite Time Phase over Current	IEC 60255-151, CL 6.3, 2009	Within the claimed limits
2.2	Earth fault	IEC 60255-151, CL 6.3, 2009	
2.2.1	Low set Earth fault	IEC 60255-151, CL 6.3, 2009	Within the claimed limits
2.2.2	Definite Time Earth fault	IEC 60255-151, CL 6.3, 2009	Within the claimed limits
3.0	Burden tests	IEC 60255-1, CL 6.10, 2009	
3.1	Burden for current transformers	IEC 60255-1, CL 6.10.2, 2009	Within the claimed limits
3.2	Burden test for DC power supply	IEC 60255-1, CL 6.10.4, 2009	
3.2.1	Quiescent state burden	IEC 60255-1, CL 6.10.4.1, 2009	Within the claimed limits
3.2.2	Maximum load	IEC 60255-1, CL 6.10.4.2, 2009	Within the claimed limits

*P. Kaliappan*  
(P.Kaliappan)  
Test Engineer