Test report

WHITELEGG

Test system	SCHLEICH MTC2-6kV | 11278
Test program	Tony Test
Result	PASS
Serial number	9876
Test date	21/11/2013 15:02:46
Customer	Whitelegg
Type	Stator 0815
Manufacturer	SIEMENS

Summary

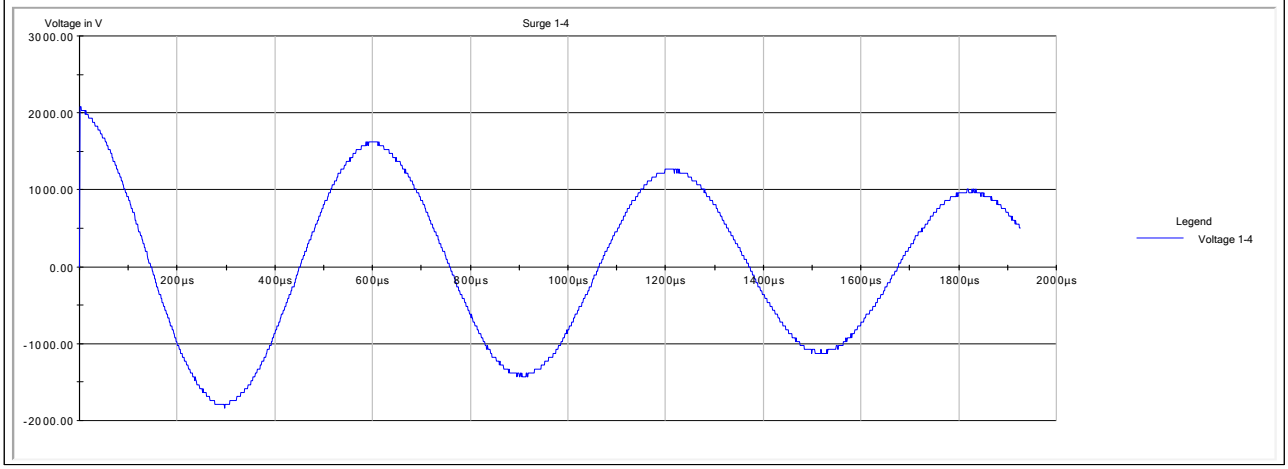
Resistance 1-4	35.720 Ohm (25.6°C)	***PASS***
Resistance 2-4	35.775 Ohm (25.6°C)	***PASS***
Resistance 3-4	35.749 Ohm (25.6°C)	***PASS***
Deviation	0.155 %	***PASS***
Surge 1-4	2010V, Cor.=0.6%	***PASS***
Surge 2-4	2016V, Cor.=0.2%	***PASS***
Surge 3-4	2005V, Cor.=0.7%	***PASS***
Compare	2901V, Cor.=0.1%, Attenuate=3.3%	***PASS***
Surge 1-4 PD	PDIV: 1547V, RPDIV: 1960V, RPDEV: 1853V, PDEV: 1671V, Background noise signal: 31.25mV, Detection system noise signal: 81.25mV	***Tested***
Surge 2-4 PD	PDIV: 1724V, RPDIV: 2015V, RPDEV: 1813V, PDEV: 1628V, Background noise signal: 203.13mV, Detection system noise signal: 203.13mV	***Tested***
Surge 3-4 PD	PDIV: 1712V, RPDIV: 1919V, RPDEV: 1914V, PDEV: 1813V, Background noise signal: 203.13mV, Detection system noise signal: 156.25mV	***Tested***
Insulation	964.8V, 0.075 µA, Imax1=3.289µA, Imax2=0.075µA	***PASS***

Resistance test

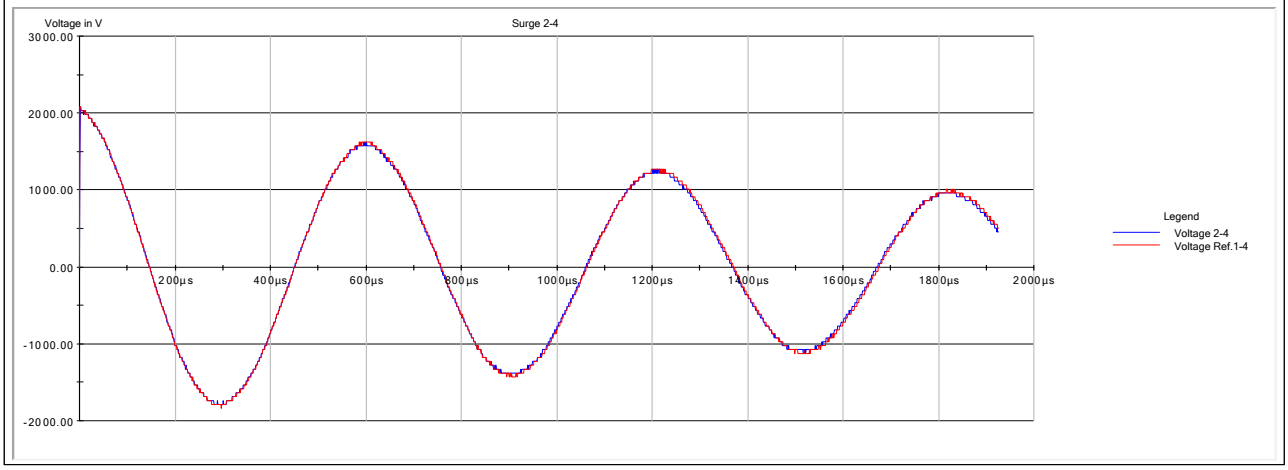
Test step	Set value(s)	Real value(s)	
Resistance 1-4	35.683, (34.969 - 36.397) Ohm	35.720 Ohm (25.6°C)	**PASS**
Resistance 2-4	35.737, (33.950 - 37.524) Ohm	35.775 Ohm (25.6°C)	**PASS**
Resistance 3-4	35.712, (33.926 - 37.497) Ohm	35.749 Ohm (25.6°C)	**PASS**
Deviation	2.000 %	0.155 %	**PASS**

Surge test

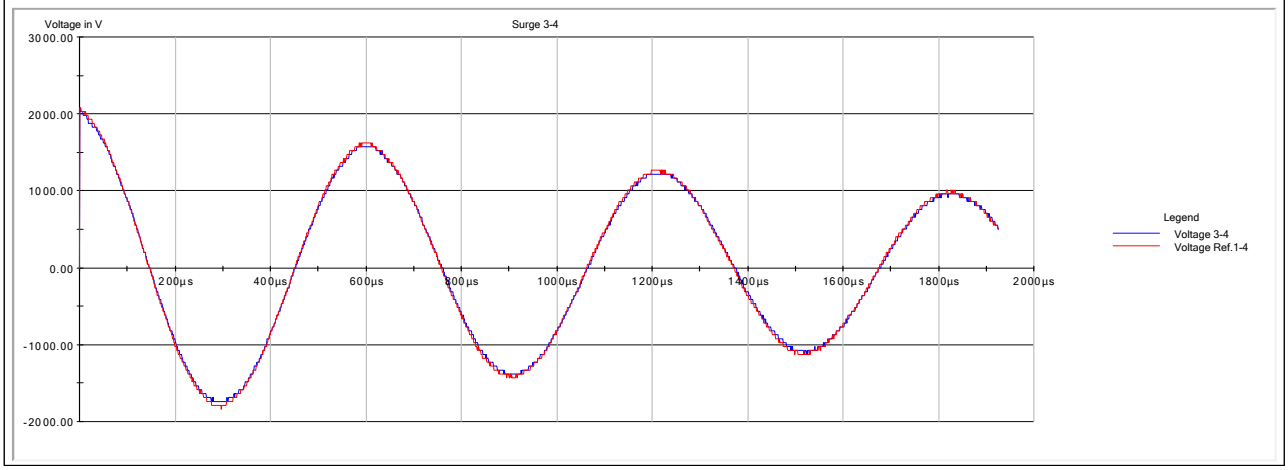
Test step	Set value(s)	Real value(s)	
Surge 1-4	2000V, Cor.=10.0%	2010V, Cor.=0.6%	**PASS**



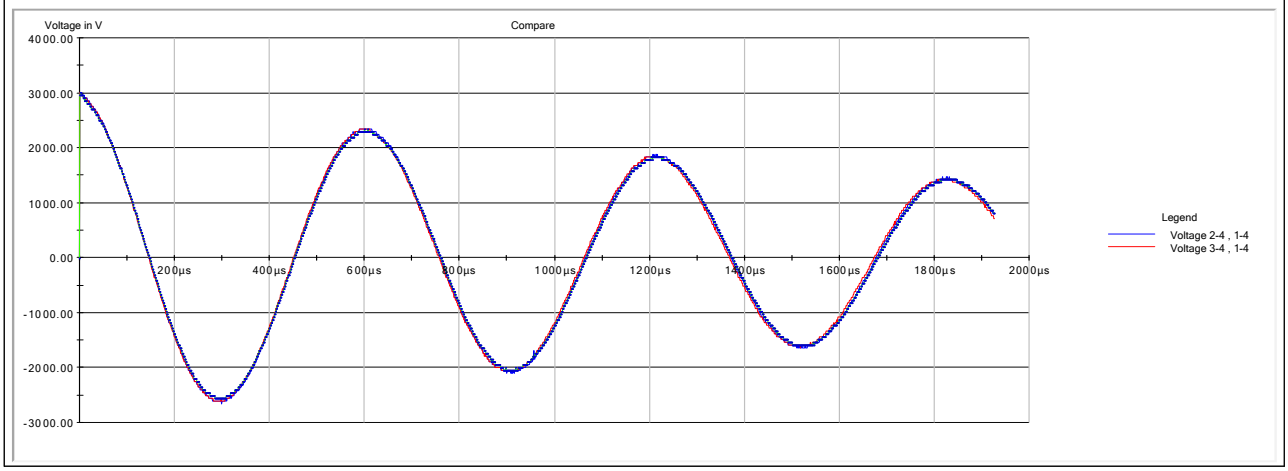
Surge 2-4	2000V, Cor.=10.0%	2016V, Cor.=0.2%	**PASS**



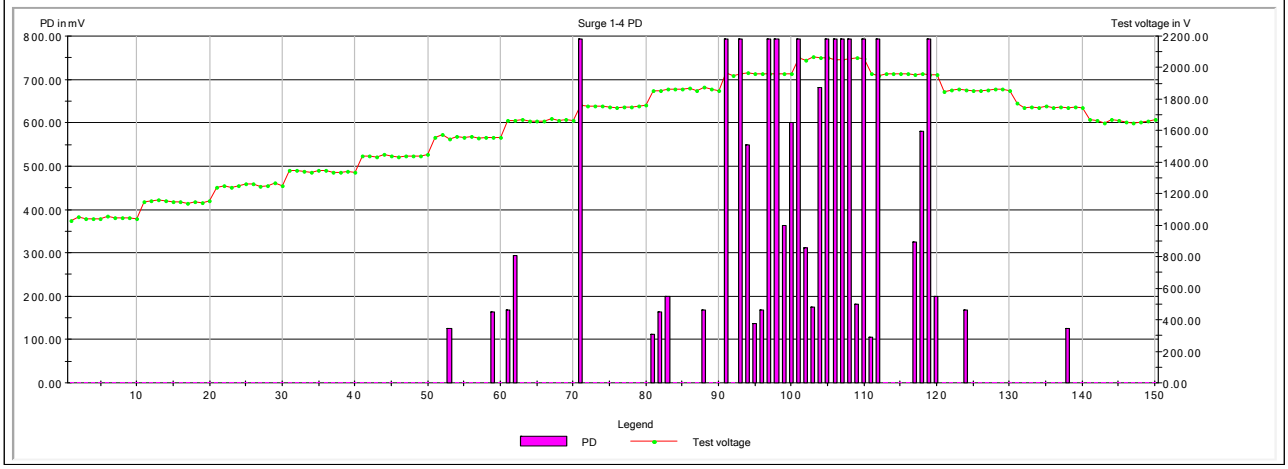
Test step	Set value(s)	Real value(s)	
Surge 3-4	2000V, Cor.=10.0%	2005V, Cor.=0.7%	PASS



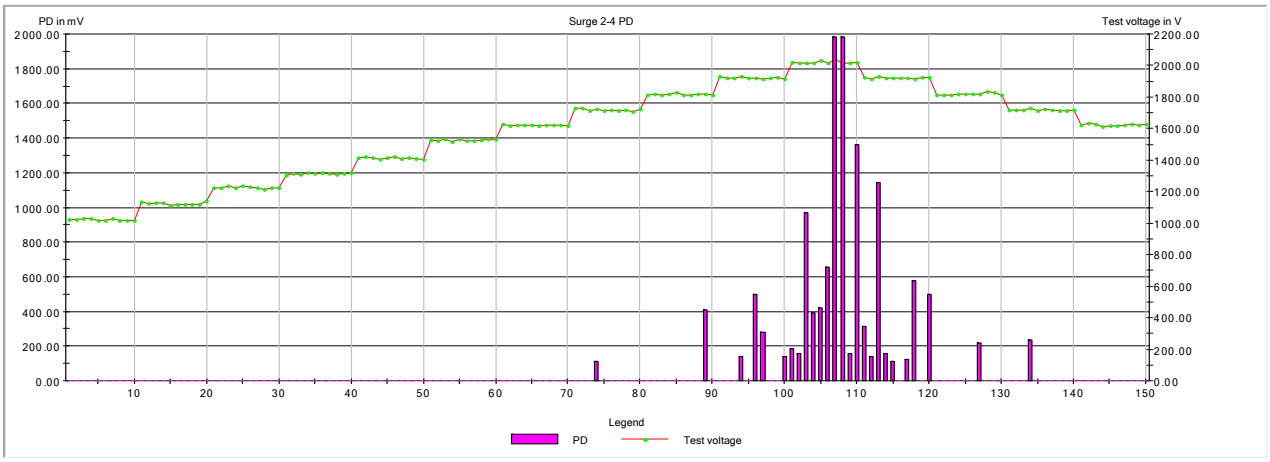
Compare	3000V, Cor.=10.0%, Att.=10.0%	2901V, Cor.=0.1%, Attenuate=3.3%	PASS



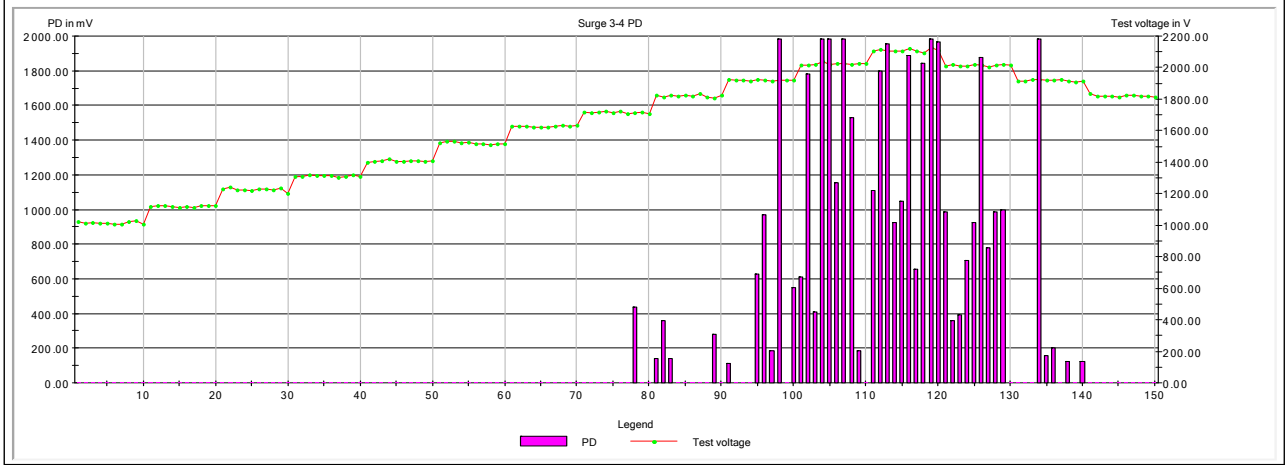
Test step	Set value(s)	Real value(s)	
Surge 1-4 PD	No set values, Detection border: 100 mV	PDIV: 1547V, RPDIV: 1960V, RPDEV: 1853V, PDEV: 1671V, Background noise signal: 31.25mV, Detection system noise signal: 81.25mV	**Tested**



Surge 2-4 PD	No set values, Detection border: 100 mV	PDIV: 1724V, RPDIV: 2015V, RPDEV: 1813V, PDEV: 1628V, Background noise signal: 203.13mV, Detection system noise signal: 203.13mV	**Tested**

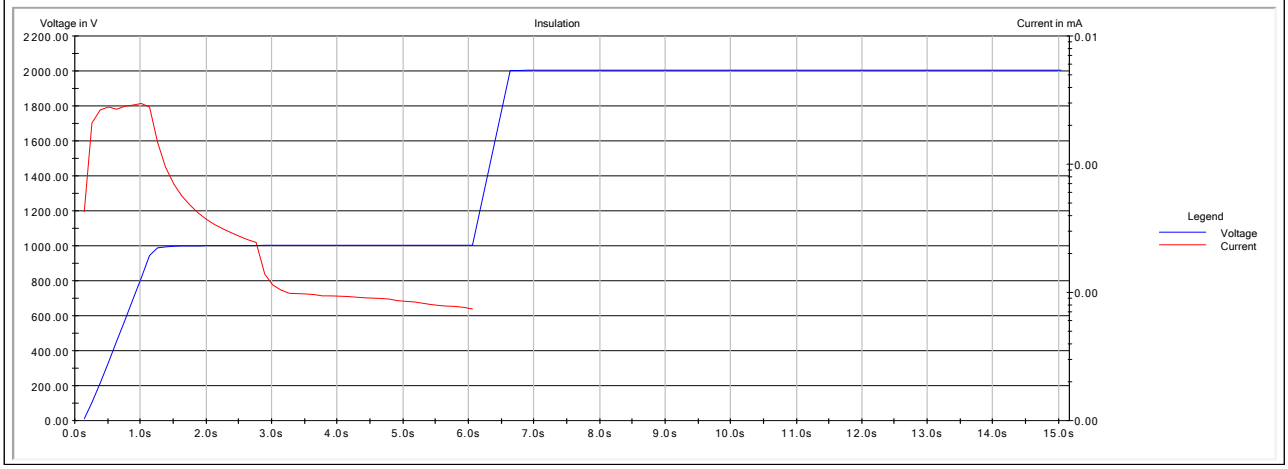


Test step	Set value(s)	Real value(s)	
Surge 3-4 PD	No set values, Detection border: 100 mV	PDIV: 1712V, RPDIV: 1919V, RPDEV: 1914V, PDEV: 1813V, Background noise signal: 203.13mV, Detection system noise signal: 156.25mV	**Tested**



Insulation test DC

Test step	Set value(s)	Real value(s)	
Insulation	1000V, 6.000 µA	964.8V, 0.075 µA, Imax1=3.289µA, Imax2=0.075µA	**PASS**



Insulation test explanations:
Imax1: maximum current during the ramp up
Imax2: maximum current after the test voltage has been reached
DAR and PI: Resistance > 5GOhm => Values are ambiguous and will be disregarded (IEEE Std 43-2000)

Surge test explanations:
Cor.: (Correlation) Being a mathematical procedure to the inquiry of the resemblance of two signals.
EAR.: (Difference surface) determines the originating surface between two curves and compares this.
AREA: the surface is calculated between signal and the zero line and is compared to the reference.
Zero Crossing: with the help of the zero passageways the frequency is determined and compared
Attenuate: Damping of the curve oscillation
Ue: PD start voltage
Ua: PD stop voltage