

## QUALITY CERTIFICATE

Sample Description:

Surger Protector (SPD)

Model Specifications :

YZPST-T1-SPC/240 –MRI

Total: three pages

page 1



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Sample Description	Surger Protector (SPD)	Model Specifications	YZPST-T1-SPC/240
The test instrument is used this time	MOV tester (10/350)、(8/20) lightning current testboard	RH	75%
		Temperature	25°C
project	rating	measured value	
Test product L-PE line-line, $\pm$ Voltage and $\pm$ Leakage current	490 $\pm$ 10% V $\leq$ 20 $\mu$ A	Product: L-PE, + 490 V, + 4.96 $\mu$ A; - 488 V, - 4.89 $\mu$ A;	
In the product l-pe line, the impact current is applied (8/20 $\mu$ s) $\pm$ 2.0KA、 $\pm$ 4.0KA、 $\pm$ 20.0KA、Test product residual pressureUr。	In=20 KA	L-PE Product: +2.0KA、Ur= 0.48 KV; -2.0KA、Ur=- 0.51 KV; +4.0KA、Ur= 0.71 KV; -4.0KA、Ur=- 0.68 KV; +20.0KA、Ur= 1.15 KV; -20.0KA、Ur=- 1.1 KV;	
limp the product L-PE line, apply maximum discharge current (10/350 $\mu$ s) limp =12.5KA, Test product flow capacity。	limp 12.5KA	No flickering, Normal	
In the product L-PE line, apply maximum discharge current (8/20 $\mu$ s) I <sub>max</sub> =140KA, Test product flow capacity	I <sub>max</sub> 140KA	No flickering, Normal。	
Remarks	The equipment and equipment used for this use are in the validity period of appraisal/calibration.		
Test Engineer:			

Sample Description	Surger Protector (SPD)	Specifications	YZPST-T1-SPC/240
Test unit		Item No.	CP70B
Product unit		test category	spot test
Test items	<ol style="list-style-type: none"> <li>1. Appearance quality:             <ol style="list-style-type: none"> <li>a). The outer surface should be smooth, clean, uncracked and uncut.</li> <li>b). The logo should be complete and clear, the handwriting is complete, the handwriting is clear, the durability is available, the content meets the requirement.</li> </ol> </li> <li>2. In the test product L-PE line, the positive and negative detection of its voltage value V, positive and negative detection of its leakage flow value <math>\mu A</math></li> <li>3. In the sample L - PE, the shock current (8/20 <math>\mu s</math>) was applied, plus or minus 2.0 KA, plus or minus 4.0 KA, plus or minus 20.0 KA, and the test product residual pressure <math>U_r</math></li> <li>4. In the product L-PE line, apply the maximum impact current (10/350 <math>\mu s</math>) <math>I_{imp} = -12.5KA</math>, Test product flow capacity</li> <li>5. In the product L-PE line, apply maximum discharge current (8/20 <math>\mu s</math>) ; <math>I_{max} = -140 KA</math>, Test product flow capacity.</li> <li>6. Determine the level of product protection <math>U_p</math>。</li> <li>7. Online test for 8 hours</li> </ol>		
Test conclusion	<p><b>The product is tested:</b></p> <ol style="list-style-type: none"> <li>1. After the inspection:             <ol style="list-style-type: none"> <li>a). The content of the logo meets the requirements; Uniform color; The outer surface is flat and clean; No crack, no scratch, no deformation;</li> <li>b). The logo is complete, the handwriting is clear, durable and reliable, the content meets the requirements。 Qualified</li> </ol> </li> <li>2. Test product L-PE line, + The voltage value is: 490 V, - The voltage value is: 488 V; + The leakage current value is: 4.96 <math>\mu A</math>, - The leakage current value is: -4.89 <math>\mu A</math>。 The detection of Qualified</li> <li>3. In the product L-PE line, the impact current is applied (8/20 <math>\mu s</math>) <math>\pm 2.0KA</math>、<math>\pm 4.0KA</math>、<math>\pm 20.0KA</math>, Test product <math>I_n=20.0KA</math>, L-PE Maximum residual pressure between lines <math>U_r= 1.15KV</math> 。 Qualified</li> <li>4. In the product L-PE line, apply maximum discharge current (8/20 <math>\mu s</math>) ; <math>I_{max} = -140 KA</math>, Test product flow capacity。 Qualified</li> <li>5.. In the product L-PE line, apply the maximum impact current (10/350 <math>\mu s</math>) <math>I_{imp} = -12.5KA</math>, Test product flow capacity。 Qualified</li> <li>6 Determine the level of product protection <math>U_p</math>: L-PE line to line <math>I_n=20.0KA</math>, <math>U_p \leq 1.2 KV</math>。 Qualified</li> <li>7. hours online test。 Qualified</li> </ol>		
	Date issue:2017/12.10		
General Result	Passed		

