

## SUMMARY OF THE TEST REPORT

Requested by:

Energy Control System

Address:

Office Suite # 205, 5500 E. Loop 820, Fort Worth, TX,

76119, USA

N° of test report:

35 from 20.10.2010

Beginning of test date:

21.09.2010

End of test date:

13.11.2010

Tested device:

Surge Protection Device

Model:

ST-SPT240-15 (for ST-SPT Family Series)

Applied Standards:

IEC 61643-1:2005; IEC 61000-4-5:2005

#### TEST RESULT:

Test port	Test currant, kA	Polarity	Residual voltage*, V	Uncertainty associated to results
L–G	3,0	positive	720	5%
		negative	740	
N-G		positive	700	
		negative	680	
L-N		positive	720	
		negative	820	
L-G	5,0	positive	1200	
N-G		negative	1540	

Note: The Residual voltage indicates without sign.

The Surge Protection Device model ST-SPT240-15 corresponds to Class III accordantly IEC 61643-1:2005

Director R&D Institute "Molniya"

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Tested device:

Surge Protection Device

Model:

LA-ST603Y2C (for LA Family Series)

**Applied Standards:** 

IEC 61643-1:2005; IEC 61000-4-5:2005

### **TEST RESULT:**

Test port	Test currant, kA	Polarity	Residual voltage *,	Uncertainty associated to results
L-G		positive	760	5%
		negative	840	
N-G		positive	680	
	3,0	negative	740	
L–L	3,0	positive	1520	
		negative	1500	
L-N		positive	1000	
		negative	900	
L–G	10,0	positive	2700	
		negative	2660	
N-G		positive	2680	
		negative	2640	7

Note 1: The Residual voltage indicates without sign.

Note 2: The Residual voltage for Line indicates maximum value from all.

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Note 3: Test conducted with 18" (460 mm) wire length.

The Surge Protection Device model LA-ST603Y2C corresponds to Class II, III accordantly IEC 61643-1:2005

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Tested device:

Surge Protection Device

Model:

LA-ST1203Y2C (for LA Family Series)

Applied Standards:

IEC 61643-1:2005; IEC 61000-4-5:2005

#### **TEST RESULT:**

Test port	Test currant, kA	Polarity	Residual voltage *,	Uncertainty associated to results
L-G		positive	760	
L-G		negative	860	
N-G		positive	740	
11-0	3,0	negative	800	5%
L–L		positive	1440	
		negative	1640	
L-N		positive	920	
		negative	960	
L-G	10,0	positive	2820	
		negative	2580	
N-G		positive	2780	
		negative	2700	

Note 1: The Residual voltage indicates without sign.

Note 2: The Residual voltage for Line indicates maximum from all.

Note 3: Test conducted with 18" (460 mm) wire length.

The Surge Protection Device model LA-ST1203Y2C corresponds to Class II, III

accordantly IEC 61643-1:2005

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Tested device:

Surge Protection Device

Model:

RM-ST603Y (for RM Family Series)

Applied Standards:

IEC 61643-1:2005; IEC 61000-4-5:2005

### TEST RESULT:

Test port	Test currant, kA	Polarity	Residual voltage *, V	Uncertainty associated to results
L-G	3,0	positive	780	
L U		negative	820	
N-G		positive	740	
11 0		negative	680	7
L-L		positive	1660	5%
L-L		negative	1520	
L-N		positive	940	
		negative	1000	
L-G	10,0	positive	2900	
		negative	2740	
N-G		positive	2860	
		negative	2780	

Note 1: The Residual voltage indicates without sign.

Note 2: The Residual voltage for Line indicates maximum from all.

Note 3: Test conducted with 18" (460 mm) wire length.

The Surge Protection Device model RM-ST603Y corresponds to Class II, III accordantly IEC 61643-1:2005

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Professor

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Науководостідний та
проектно-конотрукторський
інститут
«МОЛНІЯ»

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Tested device:

Surge Protection Device

Model:

RM-ST1203N4 (for RM Family Series)

**Applied Standards:** 

IEC 61643-1:2005; IEC 61000-4-5:2005

### **TEST RESULT:**

Test port	Test currant, kA	Polarity	Residual voltage *,	Uncertainty associated to results
L-G	3,0	positive	1300	5%
L-G		negative	1300	
L-L		positive	1580	
L-L		negative	1560	
L–G	10,0	positive	3520	
		negative	3140	

Note 1: The Residual voltage indicates without sign.

Note 2: The Residual voltage for Line indicates maximum value from all.

Note 3: Test conducted with 18" (460 mm) wire length.

The Surge Protection Device model RM-ST1203N4 corresponds to Class II, III accordantly IEC 61643-1:2005

Director R&D Institute "Molniya"

Professor

а о світи науково достиння та проектис-кенег рукторський інститут «МОЛНІЯ» № 14102968

V. Kraychenko