

Model TSS *Talon Surge Suppressors*

United Power's Model TSS is designed for lighting panels or other critical load applications within your facility that may experience internally generated transients. Model TSS is a UL1449 2nd Edition listed, parallel-connected device, rated for Category C1/B3 environments.

Available in typical distribution panel voltages, Model TSS is a bi-directional, two stage device that provides L-N and N-G protection. TSS is a MOV based product and is rated 40 kA of 8 x 20 μ s surge current for each mode of protection.

The enclosure design allows for easy mounting by providing a threaded, 1/2" hub allowing the TSS device to mount directly to a distribution panel through a 1/2" knockout. Eighteen inches of 14 AWG, stranded wire is provided for connection to a 30 A circuit breaker within

the distribution panel. Provisions are also included for stand-alone wall mounting.

All systems come standard with indicating lights to verify that the system is working properly. Systems with "B1" in the model number also provide a Form C dry contact. This contact can be used to remotely monitor the status of your TSS system.

With a 5-year manufacturer's warranty, Model TSS provides an economical solution for transient protection in the expanding TVSS market. When applied with United Power's diverse range of TVSS products, Model TSS can help provide your entire facility with transient protection.

Features

Benefits

- Protects Loads from High Energy Transients
- Low Clamping Voltages
- Economical
- 5-Year Warranty

Electrical

- Available in Popular Distribution Panel Voltages
- 40 kA Surge Current Per Mode
- 2-Stage Protection, L-N and N-G
- <5 Nanoseconds Response Time

Environmental

- Small Size
- Easy Installation
- Status Lights

Standards

- UL 1449 Second Edition Listed
- IEEE C62.41 B3/C1 Rated
- CE Compliant

TVSS Model # Voltage/Circuit Configuration

TSS2-B0-040K-25-L	120/240 Vac, Split Phase, 3 W + Gnd
TSS2-B1-040K-25-L ¹	120/240 Vac, Split Phase, 3 W + Gnd
TSS2-B0-040K-31-L	120/208 Vac, 3 Phase Wye, 4 W + Gnd
TSS2-B1-040K-31-L ¹	120/208 Vac, 3 Phase Wye, 4 W + Gnd
TSS2-B0-040K-34-L	277/480 Vac, 3 Phase Wye, 4 W + Gnd
TSS2-B1-040K-34-L ¹	277/480 Vac, 3 Phase Wye, 4 W + Gnd

¹ B1 systems include form C summary alarm contact

Model TSS systems are available in popular voltage configurations to meet your specific application.



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Model TSS: Talon Surge Suppressors *Technical Specifications*

FEATURES—GENERAL	Model TSS2-25 120/240 Split Phase		Model TSS2-31 120/208 Three Phase		Model TSS2-34 277/480 Three Phase	
	w/out summary alarm	with summary alarm	w/out summary alarm	with summary alarm	w/out summary alarm	with summary alarm
UL 1449 Second Edition	Yes	Yes	Yes	Yes	Yes	Yes
cUL and CE Compliant	Yes	Yes	Yes	Yes	Yes	Yes
Suppression Technology	MOV	MOV	MOV	MOV	MOV	MOV
Response Time	<5 Nanoseconds	<5 Nanoseconds	<5 Nanoseconds	<5 Nanoseconds	<5 Nanoseconds	<5 Nanoseconds
Individual Fusing	Yes	Yes	Yes	Yes	Yes	Yes
System Status Lights	Yes	Yes	Yes	Yes	Yes	Yes
Form C Dry Contacts	N/A	Yes	N/A	Yes	N/A	Yes
Upstream Overcurrent Device	30 Amp	30 Amp	30 Amp	30 Amp	30 Amp	30 Amp
MOV MCOV	150 Vac	150 Vac	150 Vac	150 Vac	320 Vac	320 Vac
Protection Modes	L-N, N-G	L-N, N-G	L-N, N-G	L-N, N-G	L-N, N-G	L-N, N-G
Operating Temperature	-40° to 65°C	-40° to 80°C	-40° to 65°C	-40° to 80°C	-40° to 80°C	-40° to 80°C
Weight	2.00 lbs.	2.25 lbs.	2.00 lbs.	2.25 lbs.	2.00 lbs.	2.25 lbs.
Enclosure Dimensions (HxWxD)	3.8" x 3.5" x 2.7"	5.5" x 2.8" x 1.8"	3.8" x 3.5" x 2.7"	5.5" x 2.8" x 1.8"	3.8" x 3.5" x 2.7"	5.5" x 2.8" x 1.8"
SURGE CURRENT RATINGS						
040K	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA
CLAMPING VOLTAGE RATINGS, LN-NG						
Model TSS2	400 V	400 V	400 V	400 V	800 V	800 V

Model TSS Part Numbering System

Example:

TSS2-B1-040K-31-L

Family Number of Stages

TSS2 Two Stage L-N & N-G

Monitoring

B0 Without Form C Summary Alarm Contact
B1 With Form C Summary Alarm Contact

Voltage Code

25 120/240 Split Phase
31 120/208 Three Phase
34 277/480 Three Phase

Surge Current Rating

040K 40 kA Per Each Protection Mode

Termination Method

L 18" Leads Standard



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