

TransEnd

Surge
Suppression
Systems

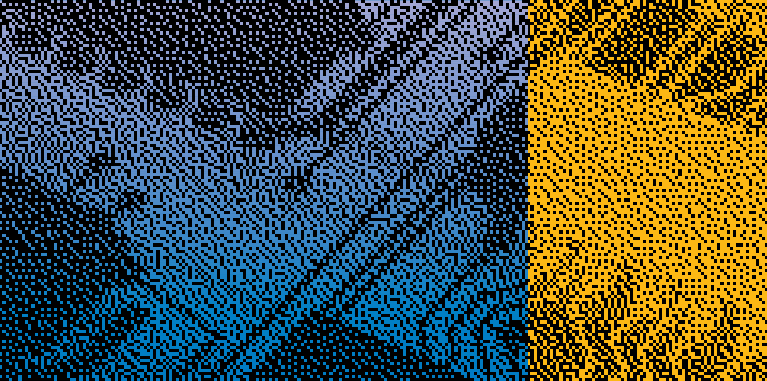
for Facility-
wide
Protection

**Immediate
shipment!**

Featuring
25kA, 50kA,
80kA and
100kA models



JOSLYN®



TransEnd™

TRANSIENT SUPPRESSION SYSTEMS

- Protects facilities and equipment against catastrophic lightning strikes and internally generated electrical transients
- Tested single-pulse surge current capacity per NEMA 2.2.9 and 3.9 recommendations
- Includes pre-wired pigtail terminals to streamline installation
- Features arc-quenching, sand-packed design
- Backed by certified, independent laboratory performance test reports
- 3-day or less delivery

New from the pioneer in AC surge protection, the Joslyn® TransEnd™ has everything you look for in a small, powerful surge protection device. TransEnd combines practicality with many special features to deliver more performance than any other device in its class. Designed to meet demanding project requirements, TransEnd is the right choice for today's competitive environment.

Sensitive electrical and electronic equipment requires clean power and protection against lightning damage and surge-induced degradation. TransEnd delivers just that. These MOV-based protectors are available in all standard low-voltage AC configurations with surge current capacities ranging from 25kA to 100kA per mode (50kA to 200kA per phase). From manufacturing plants, commercial buildings and military installations to hospitals, data centers, and telecommunications operations, TransEnd cost-effectively satisfies the protection requirements of all types of facilities.

Versatility. Reliability. Value.

Put Joslyn technical expertise to work for you. You can look to our Applications Engineering staff for help in choosing the TransEnd units for your specific applications and requirements. To assist you in total power systems engineering, Joslyn maintains professional alliances with major switchgear, power cabinet and electronic equipment manufacturers, as well as electrical and grounding advisory firms. We will coordinate integration of equipment offerings and engineering services to ensure value-based solutions consistent with sound engineering practices.

Communications system and point-of-use protection devices. Voice/data communications lines are highly susceptible to lightning and transients that cause errors or loss of transmitted data. Our communications protection devices maximize the uptime and reliability of telephone, fax, modem and dial-up lines; communications servers; and satellite communications, cable television and networked systems. Point-of-use protection for AC power applications is the job our hard-wired, series-connected LoadGuard™ unit handles with ease. For more details, refer to page 7.

Standard Features



Proven technology: TransEnd delivers worry-free performance in a reliable, innovative design. The tested single-pulse surge current capacity (per mode) meets NEMA recommendations. Sand-packed MOV arrays equally share current to suppress transients before they reach sensitive loads while capacitors filter out high-frequency noise and low-level transients. TransEnd is designed and tested to withstand surge currents in accordance with ANSI/IEEE recommendations.

Instantaneous protection: TransEnd responds immediately and reliably to repeated high-current lightning incidents and other transient voltage surges. All TransEnd models are designed to exceed the minimum performance criteria of Bellcore and withstand larger impulses referenced in IEEE.

Superior internal construction: TransEnd's innovative design ensures dependable operation. The suppression filter components are bolted directly to copper bus bars, lowering system impedance and clamping voltage and increasing reliability.

Status indicators: LEDs for all phases illuminate to clearly indicate protection is active.

Prewired: For ease of installation, TransEnd is equipped with 24-inch, stranded #10 AWG pigtail conductors. The conductors can be cut to fit the application to permit the shortest connection for optimum performance.

Rugged, compact enclosure: Measuring only 7"W x 7"H x 5"D, TransEnd easily installs in tight spaces. The NEMA 4X fiberglass-reinforced polyester (FRP) housing features a nonremovable cover for protection against tampering.



Single-Pulse Surge Current Capacity.

	Per Mode*	Per Phase
TransEnd 100:	100kA	200kA
TransEnd 80:	80kA	160kA
TransEnd 50:	50kA	100kA
TransEnd 25:	25kA	50kA

*Tested

Easy to Specify.
Easy to Install.



SPECIFICATIONS

Dimensions	7"H x 7"W x 5"D
Weight (all models)	12.7 lbs.
Enclosure Type	NEMA 4X, surface-mount
Operating Environment	-40°C to +60°C, 5% to 95% noncondensing humidity
Connection Method:	Parallel
Protection Modes:	L-N, L-G, N-G, L-L

TYPICAL CLAMPING VOLTAGE DATA
6KV / 500A Combination Waveform

System Voltage	Model No.	Protection Modes			
		L-N	L-G	N-G	L-L
120 / 208	XN100-120/208-3GY	391	391	388	735
	XN80-120/208-3GY	391	391	388	735
	XN50-120/208-3GY	391	391	388	735
	XN25-120/208-3GY	408	397	392	784
277 / 480	XN100-277/480-3GY	890	868	820	1665
	XN80-277/480-3GY	890	868	820	1665
	XN50-277/480-3GY	890	868	820	1665
	XN25-277/480-3GY	890	868	820	1665

EMI / RFI NOISE REJECTION

Filtering Attenuation Frequencies

All models (L-N) w/ 6" Hook-Up Wire

Frequency	Noise Source	
	50 ft.	100 ft.
100kHz	-50 dB	-50 dB
1MHz	-34 dB	-39 dB
10MHz	-34 dB	-40 dB
100MHz	-47 dB	-53 dB

APPLICABLE APPROVALS & STANDARDS

UL 1449, 2nd Edition	ANSI/IEEE C62.41
CUL	ANSI/IEEE C62.45
UL 1283	ANSI/IEEE C62.1
NEMA LS-1	ANSI/IEEE C62.11

OPTIONS

Dry Contacts

Single form "C" dry contacts for remote alarm monitoring are available as an option. To order a model with dry contacts, add suffix "-FCC" to the standard part number. Example: XN100-120/208-3GY-FCC

FITTINGS

Option A: Metallic conduit installation kit has a 3/4" x 3" metallic nipple and all associated hardware required to complete the TransEnd installation. Part No. 300-0255-001
Option B: Flexible plastic conduit installation kit, including 18" flexible conduit and all associated hardware required to complete the TransEnd installation. Part No. 300-0255-002

Specialized Devices

Round-out your surge protection plan with equipment-level devices.

Standard Model Numbers

TransEnd 25

XN25-120/240-2G

XN25-120/208-3GY
XN25-220/380-3GY
XN25-277/480-3GY
XN25-347/600-3GY

XN25-120/240-3GHD
XN25-240-3DG
XN25-380-3DG
XN25-480-3DG
XN25-600-3DG

TransEnd 50

XN50-120/240-2G

XN50-120/208-3GY
XN50-220/380-3GY
XN50-277/480-3GY
XN50-347/600-3GY

XN50-120/240-3GHD
XN50-240-3DG
XN50-380-3DG
XN50-480-3DG
XN50-600-3DG

TransEnd 80

XN80-120/240-2G

XN80-120/208-3GY
XN80-220/380-3GY
XN80-277/480-3GY
XN80-347/600-3GY

XN80-120/240-3GHD
XN80-240-3DG
XN80-380-3DG
XN80-480-3DG
XN80-600-3DG

TransEnd 100

XN100-120/240-2G

XN100-120/208-3GY
XN100-220/380-3GY
XN100-277/480-3GY
XN100-347/600-3GY

XN100-120/240-3GHD
XN100-240-3DG
XN100-380-3DG
XN100-480-3DG
XN100-600-3DG



LoadGuard



CCC Series protects coaxial and twinaxial communications lines



DDC Series protects LAN hubs, concentrators and multiport interfaces



MTC Series protects RJ11- and RJ45-style twisted-pair interfaces



SIC Series protects Subminiature D and Centronics communications ports

LoadGuard™ Series-connected Suppression Filter System

LoadGuard is engineered for hard-wired installation within or adjacent to electrical loads such as robotics, process automation systems, motors, HVAC systems, pumps, heaters, programmable logic controllers and other point-of-use applications. Compact and powerful, LoadGuard MSU protects these and other individual components from damaging electrical transients, high-frequency noise and high-energy disturbances. LoadGuard is available in two models with ratings of 45kA or 65kA.

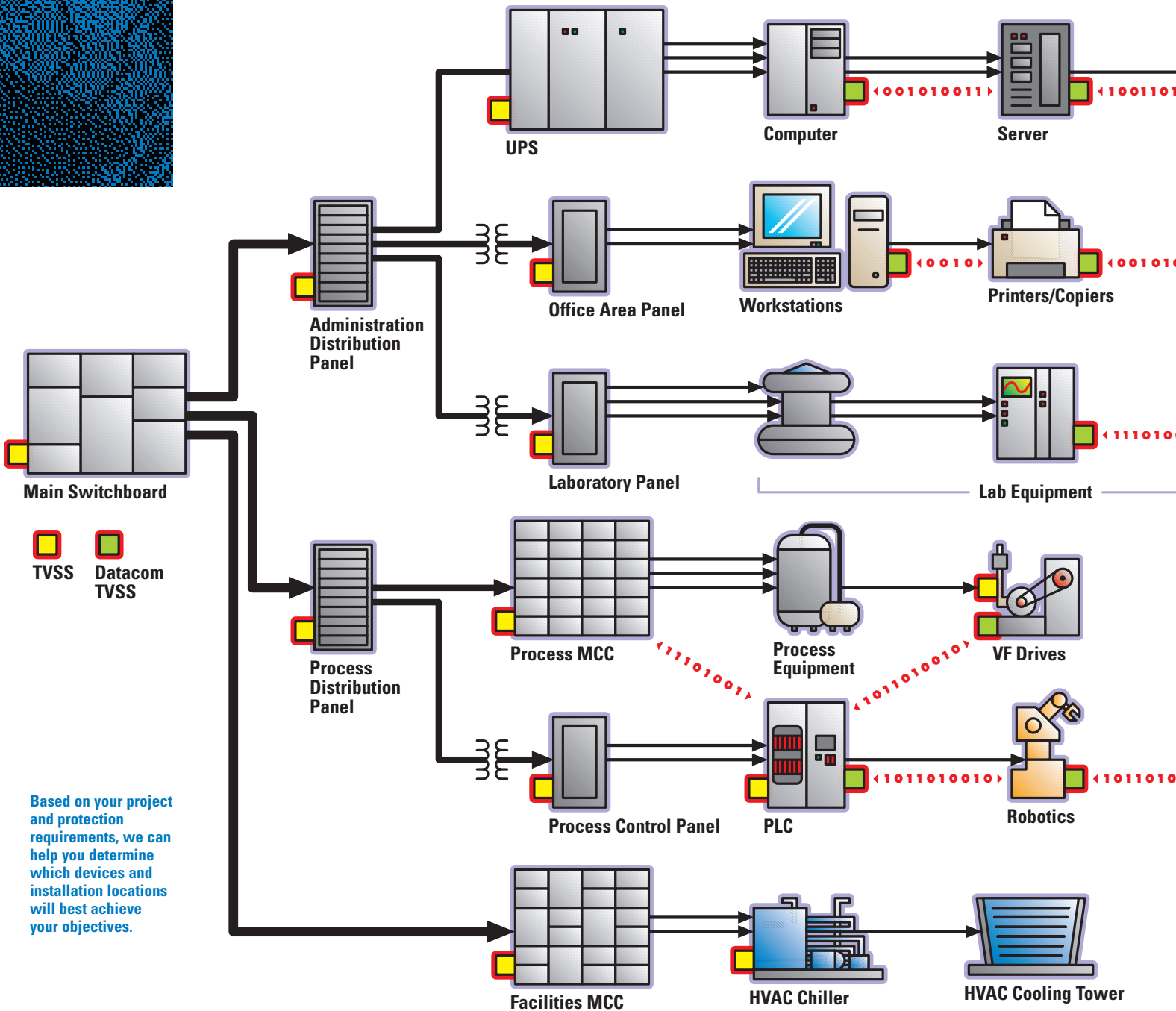
Surge protection for sensitive voice/data communications networks

Damaging internal transients and lightning can enter electronic equipment through any pathway. Even with power protection in place, transient surge energies generated within a building by sources such as inductive load switching, ground loop currents and electrostatic discharge can still reach and adversely affect critical communications hardware. This comprehensive line of communications system surge suppression devices safeguards terminals, modems, fax machines, file servers, repeaters, hubs, and electronic devices with extremely low tolerance for electrical power disturbances.

Critical considerations when selecting surge protection devices

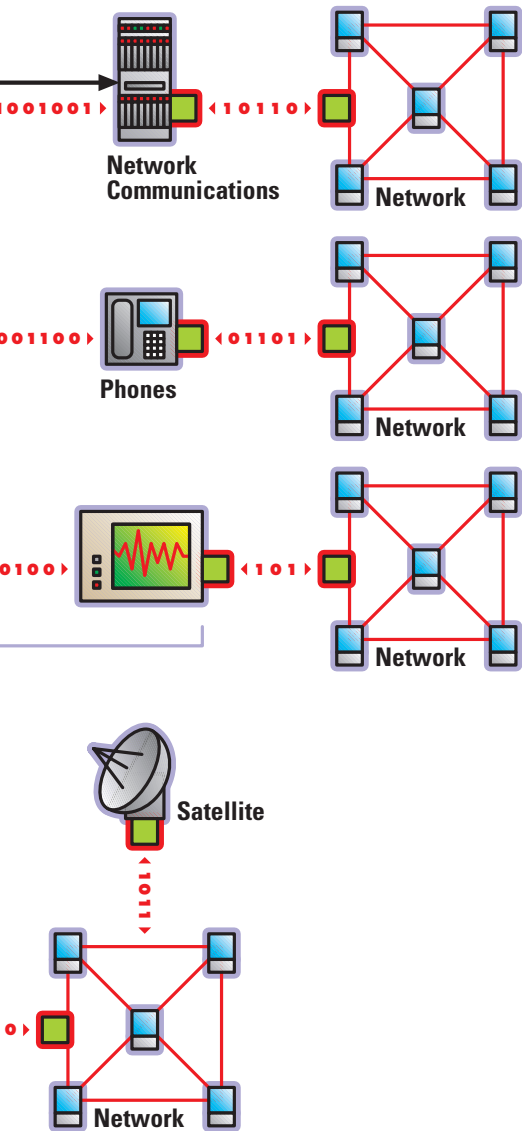
Two primary factors influence the minimum life expectancy of a surge protection device: the frequency and the intensity of surge-causing events (for example, lightning-induced surges, power factor correction capacitor and load switching). For optimum protection, it is imperative to properly select the device appropriate for the following factors:

- 1 the facility's exposure to surges (rather than the size of the load or service);
- 2 the criticality or value of the equipment being protected;
- 3 the location of the surge protection device within the facility's power distribution system; and
- 4 the level of power disturbances generated by the facility's electrical and electronic equipment.



Based on your project and protection requirements, we can help you determine which devices and installation locations will best achieve your objectives.

The Difference is Measurable



Oscillatory Transients

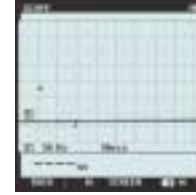
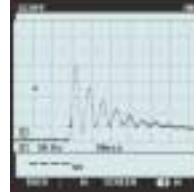
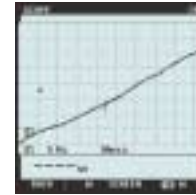
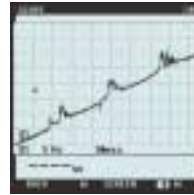
- Dimmers
- UPS systems
- VF drives

High-Frequency Noise

- Fluorescent lighting
- HID lighting
- Motors

BEFORE TransEnd

AFTER TransEnd



More than 80 percent of all transients are internally generated by equipment installed within a facility.* These insidious transients continuously assault and deteriorate sensitive electronic components on circuit boards. High-frequency “noise makers” such as power tools and fluorescent lighting can upset the normal operation of micro-processor-based devices. Without proper protection against noise, surges and transients, facilities suffer the high cost of downtime; damaged production material; lost or corrupted data; equipment and facility losses; and even personal injury.

* Electric Light and Power
Cahners Business Information

Damaging transients and disruptive high-frequency noise can be easily observed with a hand-held oscilloscope.





"24x7" Installation hotline

TransEnd users have access to a dedicated, toll-free "24x7" hotline. You can access our professional field service engineers by dialing:

800-238-5000 8 a.m. – 5 p.m.
Monday through Friday (CST)

888-200-6400 Nights, weekends
and holidays

On-line tech support

TransEnd installation manuals and related on-line publications are available at <http://www.jesc.com/transend/>



Locations in Goleta, CA and Irving, TX

Applications Engineering

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Learn more about TransEnd at
<http://www.jesc.com/transend>

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