

# Guide for nVent ERICO Panel Mount SPDs



Catalog Pages 28 - 36

## TDX MODULAR SERIES

Most Popular Series

- TD Technology, Hybrid Design that addresses TOV Conditions
- Excellent UL Voltage Protection Ratings, (VPR)
- UL Nominal Discharge Current Ratings, I(n), at 20kA
- Type 1 & Type 2 Applications
- Fault Indicators for each Mode, Phase & Overall Status
- Diagnostics included: Audible Alarm, Relay Contacts & Surge Counter
- Easily Field Serviceable by a nontechnical person with no special tools
- Built-in , Touch Safe Disconnect

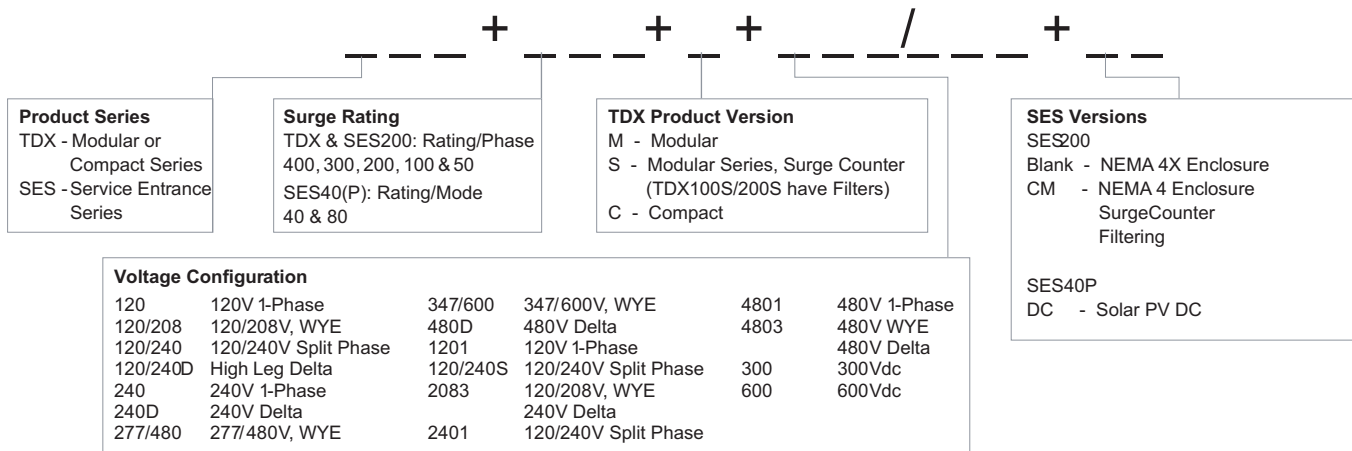
## TDX COMPACT & SES SERIES

- The TDX Compact Series is an Industrial Design, made affordable.
- This Series has the same performance as the Modular Series.
- Some Features are removed and this series is not field serviceable.
- UL Listed Type 1, per NEC Article 285 for use in Type1 & Type 2 Locations
- The SES200 is a 200kA/Ph SPD, using the TD Technology Design
- The LED's show Percent of Life Cycle in 20% Increments
- SES40: Surge Rating: 40kA/Mode; I(n): 20kA; SCCR: 200kA; NEMA 4X
- The SES 40 Series has a broad array of Solutions including;
  - Residential Service
  - Commercial Industrial Machine
  - Solar PV Lighting
  - VFDs and more,...



Catalog Pages 25 - 27 (SES); 34 - 36 (Compact)

## PRODUCT CODE (EXAMPLE: TDX100M120/208)



## A QUICK SELECTION GUIDE (BASED ON PANEL RATING)

Service Entrance			Distribution Panel		Branch Panel	
>3,500A	2,500A - 1,600A	1,200A - 400A	1,200A - 600A	400A - 100A	600A	400A - 100A
400 kA	300 kA	200 kA	200 kA	100 kA	100 kA	50 kA
TDX400S	TDX300S	TDX200 S, M, or C	TDX200S, M, or C	TDX100S, M, or C	TDX100M or C	TDX50C

### Notes for Facility Power Distribution Systems and SPDs

If it is a mission critical facility, increase the surge rating.  
IEEE, NEMA and other guides recommend facility, 3-tier levels for best protection of sensitive equipment.  
Utilizing surge counters in the SPD layout will assist in determining where transient voltages are being generated within the facility.

Product	Description	Features	Applications	Cat. Page
 <p>SES40P Series</p>	Power SPD Thru Panel Mount SES40PBRK for Mounting inside the panel Flush Plate: SES40PPF	UL Listed, Type 1 SPD No OCPD Required UL 50 NEMA 4X Enclosure 40kA/Mode; Many Voltage Configurations	Primary Power Protection VFD Protection, Line & Load LED Lighting Systems	Pg. 25
 <p>TDS Series</p>	Power SPD DIN Rail Mount Many Voltage Configurations	TD Technology (Hybrid Design) 20kA - 50kA/Mode N.C./N.O. Relay Contacts; Labeled Terminals Pluggable Modules	Primary & Secondary Power PLC, HMI, Network Protection Remote Control Panels	Pg. 52 Website
 <p>EDT2 Series</p>	Power SPD DIN Rail Mount Many Voltage Configurations	TD Technology (Hybrid Design); 50kA/Mode N.C./N.O. Relay Contacts; Labeled Terminals Pluggable Modules For Harsh Environments	Primary & Secondary Power PLC, HMI, Network Protection Remote Control Panels	Pg. 46 - 49
 <p>PVT Series</p>	Solar PV 1100V & 1500 V DC	UL, IEC & VDE Listed, Type 1 and 2 Anti-Vibration Design with Locking Tabs Pluggable Modules Safe Disconnect	Solar PV Arrays Inverters Combiner Boxes	Pg. 50 - 51
 <p>DT Series</p>	Power SPD DIN Rail Mount Many Voltage Configurations	UL, CSA, IEC Class I & II; 50kA/Mode N.C./N.O. Relay Contacts; Labeled Terminals DT1 - Very Harsh, Lightning Environments DT2 - Industrial Control Panels	Primary & Secondary Power PLC, HMI, Network Protection Remote Control Panels	Pg. 38 - 45
 <p>TSF Series</p>	Power Surge-Filter SPD 24Vdc, 120Vac & 240Vac 6A & 20A Versions	TD Technology (Hybrid Design) 20kA/Mode -50dB & -65dB at 100kHz Relay Contacts, Pluggable Module	Best Protection for Sensitive Equip. PLCs, HMIs, Remote Panels LED Lighting Systems	Pg. 54
 <p>UTB Series</p>	Data Signal I/O SPD DIN Rail Mount Many Voltage Configurations AC & DC Signals	20kA/Circuit, 10kA/Line Low Loop Resistance (0.6 Ohms); Single & Dual Circuit Models; Pluggable Modules Ground Terminal for Shielded Cables	Analog & Digital I/O; Industrial Protocol Signals; Telephone Serial & Parallel Communications	Pg. 65 - 68
 <p>LCP01A</p>	Load Cell Protection SPD 4 or 6-Wire, Strain Gage Bridges	Very low Impedance 300A/10kA per Mode Outdoor Rated Enclosure	Scales; Crane Applications Pulp & Paper Web Tension	Pg. 70
 <p>HSP/SLP Series</p>	High Density Communications DIN Rail Mount Many Voltage Configurations	20kA/Line Easy Terminations 10-Pairs/20-Wires per Unit All Modes Protected	Telephone Circuits T1 Networks Industrial Protocols Data Centers	Pg. 57 - 58
 <p>SLP1RJ11 Series</p>	Telephone SPD RJ 11 Connectors Includes Patch Cable	Quick In-Line Connection SLP1RJ11 - UL Listed SLP1RJ11A - High Surge Rating	Remote Systems, Dial-up Modems Security & Fire Alarm Systems	Pg. 59
 <p>LANRJ45C6P</p>	Ethernet SPD DIN Rail Mount Cat 5, 5E, Cat 6, PoE	All Modes Protected @ 10kA Metal Housing for RF Shielding In-Line Connection	Control Panels, PLCs, HMIs & VFDs Security Systems & Cameras DataCom Switches & Routers	Pg. 63
 <p>DEP Series</p>	Communications SPD 9-Pin & 25-Pin D-Sub In-Line Connection	100A per Line Surge Rating 9Vdc and 15Vdc Versions Includes a Ground Wire	RS 232, RS 422 & RS 485 Scanners, Card Readers, PLCs Industrial Networks	Pg. 64
 <p>CSP1 Series</p>	Coaxial SPD	Rugged Design; UL 497E Listed 20W & 900W Versions Includes Bracket & Ground Lug 12 Different Versions, Including Bulkhead Very Low Spark-Over	Radio Antenna Protection Camera Systems Cable/Dish TV Systems	Pg. 60
 <p>MGATESTER1</p>	Handheld SPD Tester MOVs, SADs, GDTs	Safely Tests Any SPD without Damage Determines MCOV and Spark-Over Values Easily Tests for Damaged and/or Failing SPDs	Service Tool for End Users, Facility Maintenance, Electrical Contractors, Power Quality Specialists	Pg. 73



Our powerful portfolio of brands:  
**CADDY ERICO HOFFMAN RAYCHEM SCHROFF TRACER**