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# TPS3 L15

True 10 Mode Protection

## Type 1 / Type 2 Surge Protective Device (SPD) For Line Side or Load Side Applications

### Features:

- UL 1449-4 Type 2 SPD, UL 1283 Listed, CSA 22.2 No. 269.2
  - Optional UL 1449 4th Edition Listed Type 1, CSA 22.2 No. 269.1
  - Type 1 / Type 2 SPD
  - Mounts external to electrical distribution equipment
    - Recommended for line side or load side applications
  - When "P" option is selected, TPS3 15, Type 1 SPD mounts internal to: SB1, SB3 and Type RCS switchboards, Type WL low voltage switchgear and TIASTAR motor control centers
  - Large block, individually fused, thermally protected, 50 kA MOVs
  - 20 kA  $I_n$
  - 200 kA SCCR (most models)
  - Single TPS6 style replaceable modules
  - Provides redundant replaceable module protection for medium to high exposure applications
  - Internal rotary disconnect switch included
  - All UL required OCP & safety coordination included
    - Type 1 SPDs intended for Line or Load side of Main Disconnect
    - Type 2 SPDs intended for Load side of Main Disconnect
  - UL96A Lightning Protection Master Label compliant
  - Designed, manufactured and tested consistent with:
    - ANSI/IEEE C62.41.1-2002, C62.41.2-2002, C62.45-2002, C62.62-2010, C62.72-2016 & CSA C22.2 No. 269.1 and .2
    - 1992/2000 NEMA LS-1
    - NEC Article 285
    - IEC 61643, CE
  - 10 year warranty
  - SPD Specifications
    - Surge Current Rating Per Phase





Per Phase	L-N	L-G	L-L	N-G
600 kA	200 kA	200 kA	200 kA	200 kA
900 kA	300 kA	300 kA	300 kA	300 kA

      - 100% monitoring (Every MOV is monitored, incl. N-G)
      - Individually fused and thermally protected MOVs
  - Solid state bi-directional operation
    - EMI/RFI filtering: Active tracking up to -50 db from 10 kHz to 100 MHz (Type 2 option only, includes UL 1283 Listing)
    - Repetitive impulse: 5,000 hits
    - <1 nanosecond response time
    - Relative humidity range: 0 -95% non-condensing
    - Operating frequency: 47-63 Hz
  - Operating temperature: -25°C (-15°F) to +60°C (140°F)
  - Standard Configuration
    - Standard NEMA 1/12/3R/04 ANSI 61 steel enclosure
    - Internal rotary disconnect switch
    - Wire size: #8 AWG to 1/0
    - Standard size: 20" x 20" x 7" (508 mm x 508 mm x 178 mm) \*
    - Standard weight: 64 lb. (29 kg) \*
- \*Other NEMA ratings may increase enclosure size and weight



- SPD Monitoring
  - LED indicators
  - Audible alarm with silence switch and test button
  - Dry contacts
  - Surge counter
- Options
  - Thru-door disconnect switch

**Ordering Information**

**TPS3**      **L15**         **X**    **2**

Voltage Code   Surge Current (kA)   Enclosure   Options

A = 120/240V, 1Ø, 3W (Fig 1)   60 = 600 kA per phase  
 B = 120/240V, 3Ø, 4W (Fig 3)   90 = 900 kA per phase  
 C = 120/208V, 3Ø, 4W (Fig 2)  
 E = 277/480V, 3Ø, 4W (Fig 2)  
 K = 380/220V, 3Ø, 4W (Fig 2)  
 S = 400/230V, 3Ø, 4W (Fig 2)

0 = Standard NEMA 1/12/3R/4 Steel  
 V = NEMA 4X non-metallic  
 S = NEMA 4X stainless steel  
 F = NEMA 1 flush mount  
 P = NEMA 1 screwcover pullbox with extended display on 6ft cable for line side mounting in SWBD/SWGR

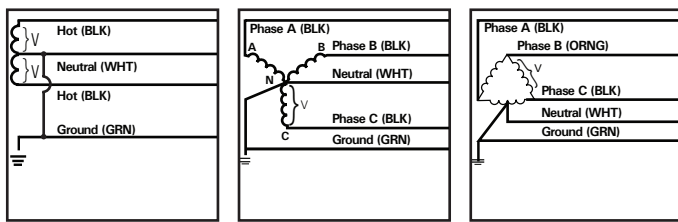
2 = Type 2 SPD (Default) Includes UL 1283 EMI/RFI Filters  
 0 = Type 1 SPD (Contact factory)  
 T = Thru-door disconnect  
 0 = No Thru-door disconnect  
 X = Surge counter (Standard)

Example: TPS3CL15600X02 = 10 Mode, Type 2 SPD (Default) for a 208/120V application with a surge current capacity of 600 kA per phase, in a standard NEMA 1/12/3R/4 enclosure with a surge counter

**Available Accessories:  
 Ordered Separately**  
 RMSIE - Remote monitor

UL 1449 Fourth Edition - Test Data  
 Voltage Protection Rating (VPR - 6 kV, 3 kA)

Voltage Code	Service Voltage	L-N	L-G	N-G	L-L	I <sub>n</sub>	SCCR	MCOV
A	120/240V, 1Ø, 3W (Fig 1)	700	700	700	1000	20 kA	100 kA	150
B	120/240V, 3Ø, 4W (Fig 3)	700/1200	700/1200	700/1000	1000/1800	20 kA	200 kA	150 / 320
C	120/208V, 3Ø, 4W (Fig 2)	700	700	700	1000	20 kA	200 kA	150
E	277/480V, 3Ø, 4W (Fig 2)	1200	1200	1200	1800	20 kA	200 kA	320
K	380/220V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	20 kA	200 kA	320
S	400/230V, 3Ø, 4W (Fig 2)	1200	1200	1200	2000	20 kA	200 kA	320



**Figure 1**  
 Split  
 2 Hots, 1 Neu, 1 Grnd

**Figure 2**  
 Wye  
 3 Hots, 1 Neu, 1 Grnd

**Figure 3**  
 Hi-Leg Delta (B High)  
 3 Hots, (B High),  
 1 Neu, 1 Grnd

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