

T45 Non-Modular Surge Protective Device 50kA per Phase

50kA/phase Model



This is the T45 Non-Modular unit in the 50kA per Phase surge current capacity.

This *T45* Non-Modular Surge Protective Device, has a 6.4" x 3.2" x 3" NEMA 4X rated polycarbonate enclosure, and weighs less than 1.5 pounds, making this the smallest T45 SPD. It has a watertight indoor/outdoor rating, liquid tight connector, and external mounting flanges. The flange brackets are removable, and the unit may be mounted with #6 screws. This second mounting location is beneath the cover screws and will exit where the brackets were attached, allowing for an even more compact install. This unit is the perfect fit for applications in which the SPD must fit in a small space, or where high capacity units are not required. These qualities also make this unit especially useful in downstream applications.

This is the smallest T45 unit, however it is still available in a wide range of voltage and phase configurations. Each protected phase uses combined indication by a singular LED. It has Form "C" dry contact relays for remote indication capabilities. There is a separate "Power" LED to let users know it is energized and functional, since the service LED will remain off unless there is a failure. All modes are monitored by the service LED.

It is available as either a UL 1449 Type 1 or Type 2 device. Despite its small size, this SPD in a Type 2 configuration is still equipped with a UL 1283 Listed filter.

This SPD uses advanced Thermally Protected Metal Oxide Varistors. They are in the same rugged MOVs as the larger units in the T45 family, and we continue to use symmetrical surge pathways to allow the unit to take a strike at its full capacity rating.

This unit has 30" of #12 AWG wire leads

Features:

- -50kA/phase available
- -Compact and easy to install
- -UL 1449 Fourth Edition Listed
- -Available in UL 1449 Type 1 or Type 2 Configurations
- -Sine Wave Tracking: UL 1449 Type 2 UL 1283 Listed
- -30" of #12 AWG Wire Leads
- -LED Status Indication
- -Form "C" Dry Contacts
- -Flange style mounting brackets pre-installed

- -NEMA 4X rated enclosure for indoor & outdoor use
- -Liquid tight connection
- -200kA SCCR
- -Lifecycle tested to 12,000 10kA Impulses
- -All modes of protection
- -Thermally Protected MOVs
- -Multiple MOV technology featuring large and robust MOVs
- -Equidistant and symmetrical surge pathways for a true surge capacity rating
- -10 Year Warranty

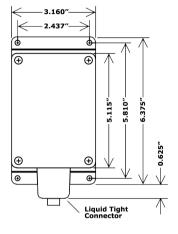


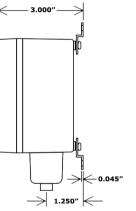


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General Technical Specifications	
Connection Type	Parallel, Wire Lead - #12 AWG
Voltage, Phase Configuration	120/240 Split Phase, (3W+G) 120/208V Three Phase Wye, (4W+G)* (127/220V Three Phase Wye, (4W+G))* (220/380V Three Phase Wye, (4W+G))** 277/480V Three Phase Wye (4W+G)** 240V Three Phase Delta (3W+G) 480V Three Phase Delta, (3W+G) 480V Three Phase Delta Hi-Leg, (4W+G)
Maximum Continuous Operating Voltage	120V, 150 VAC (125%); 127V, 150 VAC (118%); 220V, 320 VAC (145%); 240V, 320 VAC; 277V, 320 VAC; 480V, 550 VAC; All Others 115%
Surge Capacity	25kA/Mode, 50kA/Phase
Short Circuit Current Rating (SCCR)	200kAIC
Protection Modes	All Modes: L-N, L-L, L-G, N-G
Operating Frequency Range	47 - 63 Hz
UL 1449 Location Type	Type 1 (SPDs intended for Line or Load Side of Main Disconnect) or Type 2 (Intended for Load Side of Main Disconnect)
UL 1449 Nominal Discharge Current (In)	10 kA
Standards	UL 1449 4th Edition, CSA, UL 96A Lightning Protection Master Label compliant
Status Indication	Power and Service LEDs, Form "C" Dry Contact Relay
Enclosure	NEMA 4X Polycarbonate
Enclosure Size	6.375" x 3.16" x 3.00" (H x W x D)
50 Ohm EMI/RFI Attenuation	-50 db max(Type 2), -45db max(Type 1); from 10 kHz to 100MHz. The system provides up to 120dB insertion loss from 100 kHz to 100 MHz when used in a coordinated facility system.
Response Time	<0.5 nanoseconds
Operating Temperature	-40°C to +75°C
Operating Humidity	0% to 95% non-condensing
Warranty	10 Years









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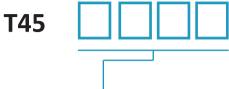


^{*}This is a 120/208V unit, and can be used in 127/220V applications

^{**}This is a 277/480V unit, and can be used in 220/380V applications



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| Voltage & Phase Configuration Code

120S = 120/240V Split Phase (3W+G) - Fig 1 **120N** = 120V Single Phase (L1, N, G) - Fig 5

120Y = 120/208V 3 Phase Wye, (4W+G)* - Fig 2

127Y = 127/220V 3 Phase Wye, (4W+G)* - Fig 2

220Y = 220/380V 3 Phase Wye, (4W+G)** - Fig 2

277Y = 277/480V 3 Phase Wye (4W+G)** - Fig 2

240L = 240V Single Phase (L1, L2, G) - Fig 6 **240D** = 240V 3 Phase Delta (3W+G) - Fig 3

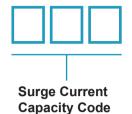
480D = 480V 3 Phase Delta, (3W+G) - Fig 3

480H = 480V 3 Phase Delta Hi-Leg (4W+G) - Fig 4

*This is a 120/208V unit, and can be used in 127/220V applications

**This is a 277/480V unit, and can be used in 220/380V applications

You may place the order as either part number.



025 = 50kA/Phase

A W AJ

Connection Type

W - Wire Lead

UL 1449 Location Type M

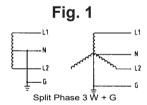
1 - Type 1 2 - Type 2

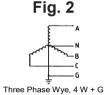
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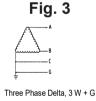
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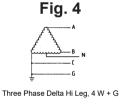
Complete:

T45 120Y 025 A W AJ 1 S M = T45120Y025AWAJ1SM









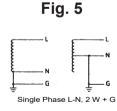




Fig. 6

