



Titan[®] 80W/80E Omni-Phase OSW/OSE

80,000 Amp Panel Protection

The Titan 80W and 80E and the Omni-phase OSW and OSE Surge Protection Devices (SPD) are an economical method of protecting electronic equipment in light commercial, light industrial and residential environments. Their light weight and compact design allow them to be installed on a service panel or directly to the sensitive equipment requiring protection.



APPLICATIONS

Initially designed and manufactured for installation on branch panels and sensitive electronic equipment, the T80W/T80E, OSW/OSE units have been successfully installed on main service panels in residential, light commercial and light industrial applications. They are an excellent addition to an EFI Electronics cascaded suppression filter system when installed at the branch panel and/or the load.

SUPERIOR PERFORMANCE

The T80 and Omni-Phase units incorporate a hybrid Sine Wave Tracker™ (T80W and OSW only) suppression circuit capable of delivering over 80,000 amps of surge current rating. The T80 and Omni-Phase units provide protection in all modes L-N, L-L, L-G, and N-G along with noise filtration up to -35 dB (T80W and OSW only).

SAFETY

The T80 and Omni-Phase units provide safe and reliable operation by incorporating EFI's latest safety developments. Each MOV is individually fused and the products are contained in a Type 1 metallic housing for maximum safety. The T80 and Omni-Phase units have been tested and listed by UL and cUL.

EASY INSTALLATION

The T80 and Omni-Phase units mount directly to the panel through a direct nipped connection. They allow easy mounting near the circuit breaker in order to reduce connecting leads and improve performance.

FEATURES	ADVANTAGES	BENEFITS
Compact Design	Easily and quickly mounts to sensitive equipment or power panels	Improves quality of protection
Green Status LED	Continuous monitoring of TVSS status	Customer has the assurance of protection at all times
80,000 Peak Amp Surge Current Capacity	Provides protection against nearby high energy lightning strikes	Keeps valuable electronic equipment safe from the most damaging surge conditions
Parallel Installation	Can be replaced without turning power off to the equipment when connected through a circuit breaker	Allows maintenance without interrupting operation of equipment
22 kA SCCR Rating (T80W & T80E)	Can be installed on most electrical systems and branch panels	Provides surge protection on systems with up to 22 kA of short circuit current

T80 and Omni-Phase Product Specifications

MODELS AVAILABLE

T80W120/240, T80W120/208, T80W220/380, T80W277/480, T80E120/240,
T80E120/208, T80E220/380, T80E277/480
OSW120/240, OSW120/208, OSW220/380, OSW277/480, OSW347/600,
OSE120/240, OSE120/208, OSE220/380, OSE277/480, OSE347/600

PERFORMANCE

Maximum Surge Current 80 kA/Phase
Short Circuit Current Rating 22 kA (T80W and T80E only)
Sine Wave Tracking Circuit Yes (T80W and OSW only)
EMI/RFI Noise Rejection -35 dB (T80W and OSW only)
Response Time < 5 ns

MECHANICAL DESCRIPTION

Dimensions 6.30" x 4.25" x 2.25"
Enclosure Type 1, metal
Operating Temperature -40° to 140° F (-40° to 60 C)
Storage Temperature -40 to 185 F (-40 to 85 C)
Altitude Sea level to 12,000 feet (3,658 meters)
Weight 3.05 lbs (1.38 kg)
Connecting Wire Size #10 AWG (5.26 sq mm)
Internal Fusing Yes

DIAGNOSTICS

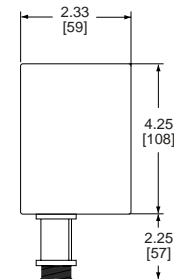
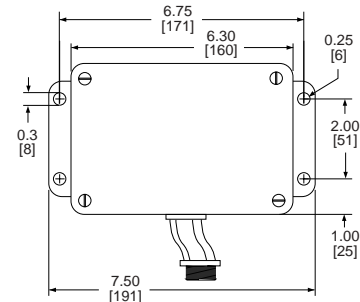
Green Status LED - Suppression Status Per Phase

SAFETY APPROVALS

UL 1449 2nd Edition, CC

WARRANTY

Product 10 years



Dimensions: in. [mm]

TITAN 80W AND 80E SYSTEM DESCRIPTION

Model	Configuration	SCCR*	MCOV	UL 1449 2nd Edition				ANSI C 62.41 Clamping Voltage		
				L-N	L-G	N-G	L-L	Cat A	Cat B3	Cat C1
T80W 120/240	1 Phase, 3-wire + G	22 kA	150	400	800	400	800	388	476	528
T80W 120/208	3 Phase, 4-wire + G	22 kA	150	400	800	400	800	388	576	528
T80W 220/380	3 Phase, 4-wire + G	22 kA	320	800	1500	700	1500	516	652	764
T80W 277/480	3 Phase, 4-wire + G	22 kA	320	800	1500	700	1500	620	748	920
T80E120/240	1 Phase, 3-wire + G	22 kA	150	400	700	400	700	420	500	528
T80E 120/208	3 Phase, 4-wire + G	22 kA	150	400	700	400	700	420	500	528
T80E 220/380	3 Phase, 4-wire + G	22 kA	320	800	1500	800	1500	660	750	764
T80E 277/480	3 Phase, 4-wire + G	22 kA	320	800	1500	800	1500	800	880	920

OMNI-PHASE OSW AND OSE SYSTEM DESCRIPTION

Model	Configuration	SCCR*	MCOV	UL 1449 2nd Edition				ANSI C 62.41 Clamping Voltage		
				L-N	L-G	N-G	L-L	Cat A	Cat B3	Cat C1
OSW 120/240	1 Phase, 3-wire + G	5 kA	150	400	800	400	800	388	476	528
OSW 120/208	3 Phase, 4-wire + G	5 kA	150	400	800	400	800	388	576	528
OSW 220/380	3 Phase, 4-wire + G	5 kA	320	800	1500	700	1500	516	652	764
OSW 277/480	3 Phase, 4-wire + G	5 kA	320	800	1500	700	1500	620	748	920
OSW 347/600	3 Phase, 4-wire + G	5 kA	390	1000	2000	900	2000	560	820	1040
OSE120/240	1 Phase, 3-wire + G	5 kA	150	400	700	400	700	420	500	528
OSE 120/208	3 Phase, 4-wire + G	5 kA	150	400	700	400	700	420	500	528
OSE 220/380	3 Phase, 4-wire + G	5 kA	320	800	1500	800	1500	660	750	764
OSE 277/480	3 Phase, 4-wire + G	5 kA	320	800	1500	800	1500	800	880	920
OSE 347/600	3 Phase, 4-wire + G	5 kA	390	900	1800	800	1800	920	980	1040

* Short Circuit Current Rating. T80W and T80E are suitable for use on a circuit capable of delivering not more than 22,000 rms symmetrical amperes. 600 Volts Maximum, when protected by the class CC fuses included with the unit.



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DS026B 03/03