

Topaz



The Topaz T7 Ultra-Isolator® Noise Suppressor protects sensitive electronic equipment against electrical noise disturbances. These impediments, from sources such as lightning, utility network switching and the operation of electric motors, are the most prevalent and troublesome of all AC power disturbances. Noise signals that can affect electronic equipment occur approximately seven times more often than voltage fluctuations and blackouts combined. Therefore, it makes sense to give sensitive equipment the best protection available: an **Ultra-Isolator® Noise Suppressor**.

The Topaz T7 employs an exclusive shielding technique that enables blocking all forms of electrical noise, over a broad range of frequencies, without impeding the normal AC signal. Providing noise attenuation at a ratio of up to 20 million to 1, these products can reduce a 6,000 volt spike to an insignificant 0.0030 volt.

The Topaz T7 Ultra-Isolator® Noise Suppressor (Series 30, K-13) encompasses two thermal switches and provides first stage, early warning of any transformer malfunction of output overload and second stage shut down under severe conditions. All Topaz T7 transformers are UL listed and designed to handle the most intense non-linear load application.

Topaz T7 15 kVA to 225 kVA

Three Phase Ultra-Isolator Noise Suppressors

Advanced Features

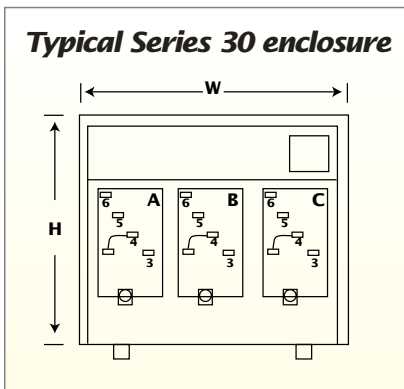
- ▶ 20,000,000:1 (146 dB) common-mode reduction
- ▶ Normal-mode noise reduction
- ▶ Exclusive shielding
- ▶ K-13 rated
- ▶ Over-temperature protection
- ▶ High efficiency
- ▶ Fast, easy installation
- ▶ UL and cUL listed requirements
- ▶ 5 year warranty

Characteristics		Topaz T7	
Ultra-Isolator (Three phase)		Series 30	
Input voltage		208, 480 VAC	
Output voltage		208Y/120Y	
K - 13 rated		Yes	
Common-mode noise		146dB	
Normal-mode noise		60dB	
Overload capacity		500% for 1 cycle 200% for 30 seconds	
Dielectric strength		2,500 VAC minimum	
Frequency		47 - 53Hz for 50Hz model / 57 - 63Hz for 60Hz model	
Impedance		3 - 5% typical	
Efficiency (Output voltage)		95% typical	
TAPS		(6) @ 2.5% / 2 above nominal/ 4 below nominal	
Input voltage range		±10% of nominal rated voltage	
Load regulation		3.5% or less from no load to full load at unity power factor	
Harmonic distortion		1% maximum	
Insulation resistance		100 megohms minimum from windings to core	
Electro-magnetic interference		0.1 gauss maximum measure at 36 inches	
Environment			
Audible noise		Less than 50dB measured at 3 feet	
Operating temperature		0°C to 40°C	
Storage temperature		-40°C to 85°C	
Operating altitude		10,000 feet maximum	
Operating humidity		95% relative (non-condensing)	
Standard			
Safety Agency		UL 1561, UL 1449, cUL listed, ISO 9001	
Warranty			
		Five years	

Three-Phase Ultra-Isolator Noise Suppressors

Power Rating	Input Voltage†	Output Voltage†	Frequency†	H x W x D (in)	Weight pounds*	BTU/hour	Product family	Series 30 (146dB)
15kVA	208 VAC	208Y/120VAC	60 Hz	31 35 18	420	2,154		97201-31
15kVA	480 VAC	208Y/120VAC	60 Hz	31 35 18	420	2,154	T7	97401-31
30kVA	208 VAC	208Y/120VAC	60 Hz	31 35 18	490	4,265		97203-31
30kVA	480 VAC	208Y/120VAC	60 Hz	31 35 18	490	4,265	T7	97403-31
50kVA	208 VAC	208Y/120VAC	60 Hz	43 43 22	710	6,397		97205-31
50kVA	480 VAC	208Y/120VAC	60 Hz	43 43 22	710	6,397	T7	97405-31
75kVA	208 VAC	208Y/120VAC	60 Hz	43 43 22	950	10,663		97207-31
75kVA	480 VAC	208Y/120VAC	60 Hz	43 43 22	810	10,663		97407-31
100kVA	480 VAC	208Y/120VAC	60 Hz	43 43 22	990	14,217		97410-31
125kVA	480 VAC	208Y/120VAC	60 Hz	43 43 22	1,140	18,482	T7	97412-31
150kVA	480 VAC	208Y/120VAC	60 Hz	43 43 22	1,240	21,549		97415-31
225kVA	480 VAC	208Y/120VAC	60 Hz	55 47 28	1,780	39,203		97422-31

Note: 50Hz are available upon request. † For other voltages and frequencies, contact a factory applications engineer at (800) 523-0142 * Shipping weight listed



Applications

- ▶ Industrial manufacturing equipment
- ▶ Computer systems
- ▶ Telecommunications
- ▶ Voltage reconfiguration



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Effective: December 2003