

HARMONIC SUPPRESSION SYSTEM

SystemMax™

Add harmonic suppression to update systems for modern uses

Product

Third-harmonic currents waste energy, shrink usable system capacity and send energy bills soaring. Retrofitting a building electrical system with appropriate transformer, switchgear, wiring and conduit can be prohibitively expensive. Fortunately, SystemMax™ presents an easy and affordable solution to this problem.

Eliminating harmonic currents in a distribution system helps increase both electrical system capacity and power factor. This translates into meaningful energy savings and more usable current to power more devices.

- Since harmonic currents are not produced, there is no need to oversize transformers or switchgear, and double neutrals are not required.
- Removing 3rd harmonic current in the transformer results in lower operating temperatures.
- More useful power is available to power more devices and transformers can be loaded to rated capacities with no danger of overheating.

Applications

- Facilities that contain a large number of electronic devices such as computers, office equipment, telecommunications, displays and similar equipment.
- Older buildings where the neutral wire could be downsized since it was not considered a current-carrying conductor.
- Medical facilities including hospitals
- Gaming and casinos
- Call, data and technology centers
- Government, office and any commercial buildings
- Schools, colleges and universities

Specifications

- 30 – 1,000 kVA range
- UL / NEMA 1 enclosure for indoor or outdoor use
- Heat-cured ASA-61 gray powder coating finish
- 3-phase, 4-wire Wye electrical system
- -20°C to 40°C ambient range



Features, Functions, Benefits

- Removing 3rd harmonic current reduces I²R losses saving up to 7% of wasted energy.
- Suppressing harmonic currents increases the amount of usable capacity without increasing the size of the electrical system.
- Eliminates a major source of heat, circulating harmonic current, so transformers run cooler reducing air conditioning costs.
- Low installation costs
- Reduced energy consumption
- Longer equipment life
- Sustainable efficiency, with a patented solution that can pay for itself in as few as 18 – 36 months, even as energy costs rise

Standards

- Built in accordance with NEMA, ANSI, UL and CSA standards
- UL and CSA Listed

Approvals



The Green Way to Sustained Energy Savings

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Three Phase • Harmonic Suppression System • NEMA1 Enclosures

3-phase, 4 wire wye								
kVA	Amp Rating	Catalog Number	Model	Enclosure Figure	Height (A) inches	Width (B) inches	Depth (C) inches	Est Ship Wgt
30	83	300-4600-140	HLSM0030	33	20	16	15	132
45	125	300-4600-141	HLSM0045	33	20	16	15	147
75	208	300-4600-142	HLSM0075	33	24	20	15	218
112	311	300-4600-143	HLSM0112	33	30	24	15	300
150	416	300-4600-144	HLSM0150	33	30	24	15	327
225	625	300-4600-145	HLSM0225	34	60	30	21	565
300	833	300-4600-146	HLSM0300	34	60	30	21	644
500	1,388	300-4600-148	HLSM0500	34	72	48	25	1,350
750	2,080	300-4600-855	HLSM0750	34	84	60	25	1,960
1,000	2,780	300-4600-856	HLSM01000	34	84	60	25	2,900

Call for exact dimensions if critical.

Housing dimensions subject to change without notice. Consult website or factory where dimensions are critical. For further information, contact an Application Engineer at 800-892-3755, technical_services@jeffersonelectric.com

The Harmonics Guarantee

Harmonics Limited products are warranted to be free from defects in materials and workmanship under normal use and service for a period of five years from the date of purchase. Our products are UL certified. We are proud members of the U.S. Green Building Council. www.usgbc.org.

Figure 33

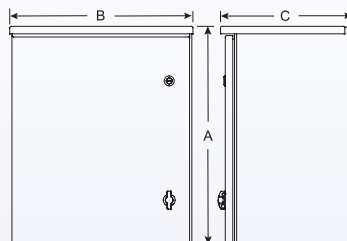


Figure 34

