

HPS SYNERGY® 600V CLASS ENERGY EFFICIENT K-FACTOR TRANSFORMERS

ALUMINUM & COPPER, THREE PHASE STANDARD SPECIFICATIONS

15 to 45 kVA



75 to 750 kVA



	15 to 45 kVA	75 to 750 kVA
Efficiency	Meets DOE 10 CFR Part 431 & C802.2 efficiencies at 35% of rated load. Efficiencies are calculated under a linear load profile.	
UL Listed	File: E112313	File: E112313
CSA Certified	File: LR3902	File: LR3902
Frequency	60 Hz	60 Hz
Insulation System	220°C (150°C rise) 200°C (130°C rise) on 15 & 30kVA copper (optional 115°C and 80°C rise available)	220°C (150°C rise) (optional 115°C and 80°C rise available)
Electrostatic Shield	60dB Common Mode - typical	60dB Common Mode - typical
Enclosure Type	Heavy Duty Ventilated Type 3R Optional Type 4, 4X (stainless steel) and 12.	Heavy Duty Ventilated Type 3R Optional Type 4, 4X (stainless steel) and 12.
Enclosure Finish	ANSI 61 Grey, UL50	ANSI 61 Grey, UL50
Neutral	Neutral terminal for field connection (on applicable units).	Neutral terminal for field connection (on applicable units).
Standard Primary Taps	Refer to wiring diagrams for details.	Refer to wiring diagrams for details.
Termination	Front accessible separate high and low voltage terminals; connectors suitable for aluminum and copper are provided for easy cable installation.	Front accessible separate high and low voltage terminals; connectors suitable for aluminum and copper are provided for easy cable installation.
Conduit Knock-Outs	Standard on all units.	Standard on 75 kVA & 225 kVA units.
Impedance	Typically 2.5% to 6.5%	Typically 2.5% to 6.5%
Mounting	Floor or wall/ceiling mounting available. Refer to selection tables for details.	Floor or wall/ceiling mounting available. Refer to selection tables for details.
Seismic	Meets Occupancy Category III $I_p=1.25$ for $S_s=1.0g$ per IBC 2006; section 1613, earthquake loads and NBCC 2005 for ground level installations only for all locations in North America.	Meets Occupancy Category III $I_p=1.25$ for $S_s=1.0g$ per IBC 2006; section 1613, earthquake loads and NBCC 2005 for ground level installations only for all locations in North America.
Sound level	Meets NEMA ST-20 standards. (Optional low noise units available)	Meets NEMA ST-20 standards. (Optional low noise units available)

Other voltages and kVA sizes not listed in this section are available upon request for both aluminum and copper wound units. Features as listed above may differ. Please contact customer service for details, price and availability.



SECTION 7