

75kVA HIGH EFFICIENCY HARMONIC TREATMENT COPPER WOUND TRANSFORMER, DRY TYPE

PARAMETER		DATA							UNITS			
Electrical Rating	Power	75							kVA			
	Frequency	60							Hz			
	Primary	600 (Nominal)							Volts			
	Primary Taps	2 x 2 1/2 % FCAN, 4 x 2 1/2 % FCBN (6 Taps)							%			
	Secondary	208 (no load)							Volts			
	Phase Shift	30 (Primary/Secondary)							Degrees			
	Load Compatibility	K13							K-Factor			
Construction	Connection	Primary: 3 Ph 3-Wire, Secondary: 3 Ph. 4 -Wire										
	Neutral Bus Rating	200% of Line Current										
	Coils	Copper, Braised Internal Connections										
	Core	3-Leg, Very Low Loss Grain Oriented Steel										
	Insulation Class	220 (UL Listed-E221932)										
	Insulation Impregnation / Properties	Nomex with Epoxy Co-Polymer impregnant Epoxy Copolymer: Build > 2 mils @ 3.2 kV/mil (dielectric); H ₂ O absorption < 0.05%; Curing VOC < 1.65 lbs/gal.										
Losses	Linear Loading	no load	15%:	25%:	35%:	50%:	75%:	100%:	%			
	Watt Loss	172	207	271	368	584	1,173	2,168	Watts			
	Heat	587	706	925	1,256	1,993	4,002	7,397	BTU/hr			
Efficiency	Per NEMA TP-2 (35% Load)	98.6 (NEMA TP-1/CSA C802.3-01; requirement 98.0 %) (DOE 10 CFR Part 430 CSL 3 requirement 98.6 %)							%			
	Linear Loading	1/6:	98.1	1/4:	98.5	1/2:	98.4	3/4:		97.9	1/1:	97.1
	Non-linear (I THD ~ 80%)	1/6:	98.0	1/4:	98.4	1/2:	98.0	3/4:		97.3	1/1:	96.1
Operation	Temperature Rise	< 115 (full linear load at nominal conditions)							°C			
	Excitation	0.618							Amps			
	Audible Noise	50 (per NEMA ST-20)							dBA			
	Ambient	40 °C (per ANSI C57.96-01.100)							°C			
	B.I.L.	10							kV			
Harmonic Treatment	Transformer secondary System (common coupling)	Triplens: 3 rd , 9 th , 15 th 5 th , 7 th , 17 th and 19 th with complimentary 0 degree transformer										
Abnormal	Short Circuit	Primary	2,167 (symmetrical output short circuit)						Amps			
		Secondary	8,751 (asymmetrical L-N/G short circuit)									
	Inrush	537 (typical 3 cycle recovery)										
Impedance	Z: (+/- Sequence)	Z:	3.8	X:	2.9	R:	2.4	%				
	Z ₀ : (IEEE C57.12.91-1995/9.5.1)	Z ₀ :	1.0	X ₀ :	0.1	R ₀ :	1.1					
Mechanical	Enclosure	Type	N3R (Rain Shield): Vermin resistant with < 1/2" wide openings									
		Finish	Green Epoxy Powder Coating									
	Drawing	C Case / 300-000068-403 (attached)										
	Weight	750							lbs			
Certification /Approvals	ISO Certifications	ISO 9001-2000: Quality Management System ISO 14001-2004: Environmental Management System										
	UL/CSA / Specifications	UL 1561 Listed, CSA C22.2 No. 47-M90 Certified, NEMA ST-20										
Options: (Supplied only when marked with 'X')	X	Electrostatic Shield	> 60 (CM Attenuation @ 10kHz)						dB			
		LK	Lug Kit									
		TVSS	Surge Protection									
		SMART-2C	Monitoring Port									



a division of International Innovative Systems
(800) 853-8265 (705) 759-4862

DATA SHEET

MODEL:

HMT-C3-75-30-600-208

Prepared: N.Xie

Date: Jun 29,10

Part No: **200-002956-100**

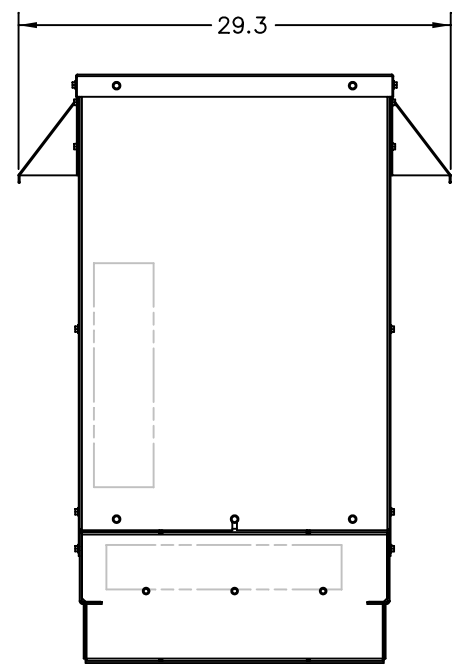
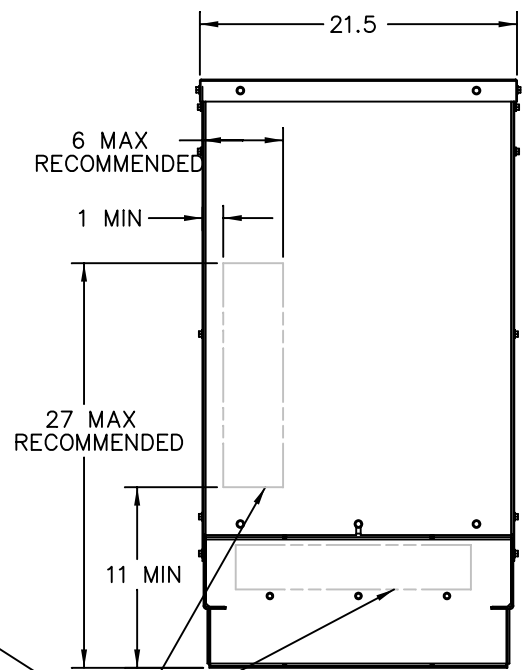
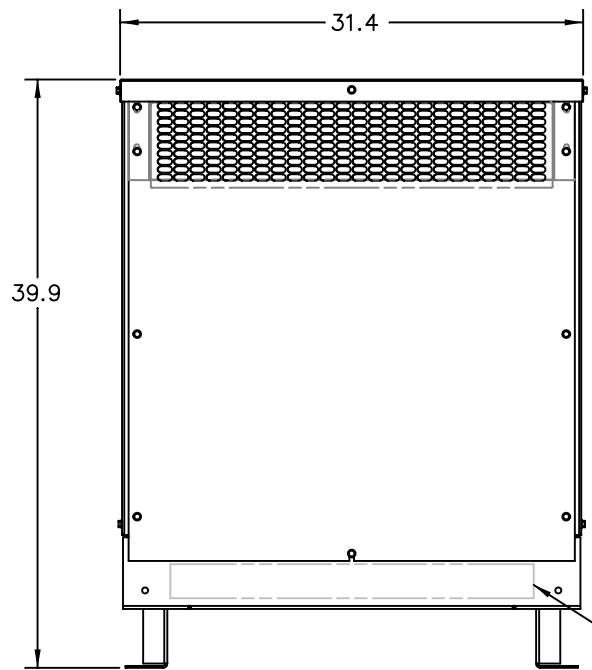
Revised:

Date:

Doc. No: **200-002956-800**

Rev: **A00**

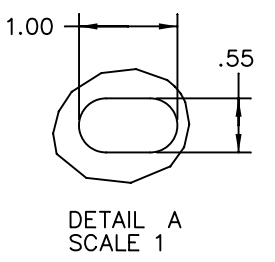
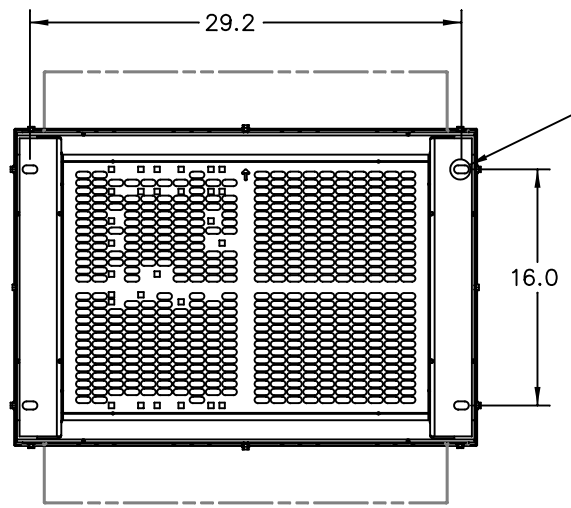
REV	ECO No.	DESCRIPTION
A00		RELEASED
A01		ADDED -3R SIDE VIEW
A02		ADDED SUGGESTED DIMENSIONS FOR SIDE PANEL ACCESS



CONDUIT ACCESS

NEMA TYPE-1 (STANDARD)

NEMA TYPE-3R (OPTION WHEN SPECIFIED)
NOTE: RAIN SHIELDS INSTALLED AT SITE



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.		BY	DATE	E-FACTOR
TOLERANCES ARE:		APPROVED	DT 08-Sep-01	
1-PLACE DECIMAL	: ± .03	mm	± .8	TITLE OUTLINE, C CASE
2-PLACE DECIMAL	: ± .010		± .25	
3-PLACE DECIMAL	: ± .005		± .10	
ANGULAR	: ± 1/2°		± 1/2°	
SURFACE FINISH	: 125 ✓			
MATERIAL		APPROVED		
FINISH		UNLESS OTHERWISE NOTED REMOVE ALL BURRS AND SHARP EDGES		DRAWING NO. 300-000068-403
		DO NOT SCALE DRAWING	REF:	REV. A02
				SHEET 1 of 1