

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	0 (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	206	268	361	571	1,137	2,089	Watts
	Heat	587	703	914	1,232	1,948	3,880	7,128	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: 98.5	1/4: 98.8	1/2: 98.8	3/4: 98.3	1/1: 97.7			
	Non-linear (I THD ~ 80%)	1/6: 98.4	1/4: 98.7	1/2: 98.4	3/4: 97.7	1/1: 96.6			
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 30 degree transformer							
Abnormal	Short Circuit	Primary	2,193 (symmetrical output short circuit)					Amps	
		Secondary	8,856 (asymmetrical L-N/G short circuit)						
	Inrush	537 (typical 3 cycle recovery)							
Impedance	Z: (+/- Sequence)	Z:	3.8	X:	2.9	R:	2.3	%	
	Z ₀ : (IEEE C57.12.91-1995/9.5.1)	Z ₀ :	1.0	X ₀ :	0.2	R ₀ :	1.0		
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						



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DATA SHEET

MODEL:

HMT-C3-75-0-600-208

Prepared: N.Xie

Date: Jun 29,10

Part No: **200-001817-100**

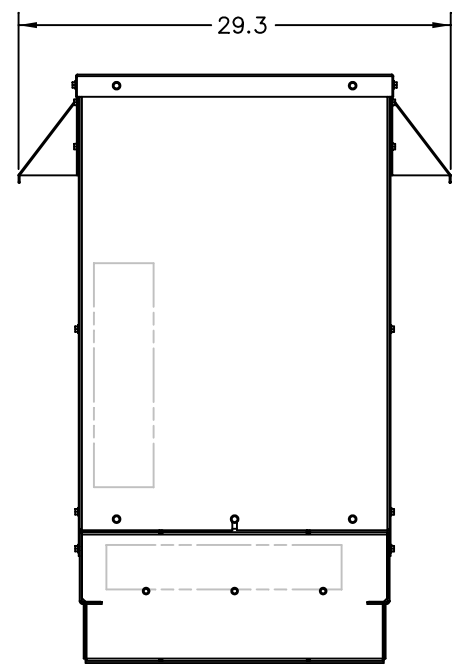
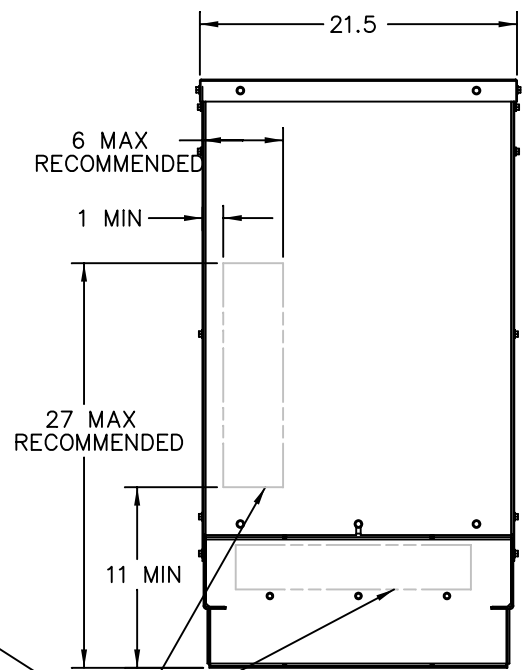
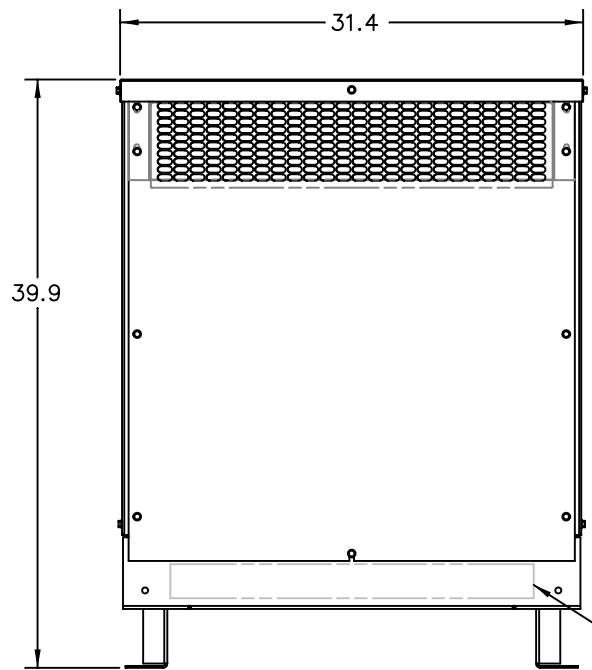
Revised: N.Xie

Date: Jun 29,10

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Rev: A01

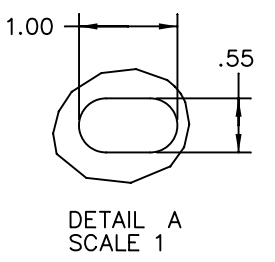
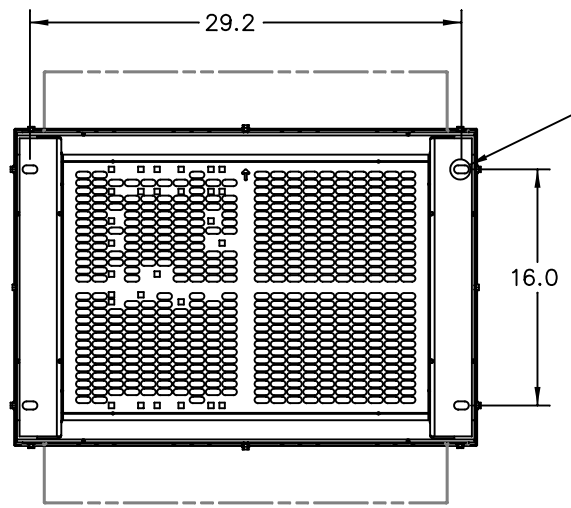
REV	ECO No.	DESCRIPTION
A00		RELEASED
A01		ADDED -3R SIDE VIEW
A02		ADDED SUGGESTED DIMENSIONS FOR SIDE PANEL ACCESS



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