

150kVA HIGH EFFICIENCY HARMONIC TREATMENT COPPER WOUND TRANSFORMER, DRY TYPE

PARAMETER		DATA							UNITS
Electrical Rating	Power	150							kVA
	Frequency	60							Hz
	Primary	600 (Nominal)							Volts
	Primary Taps	2 x 2 ½ % FCAN, 4 x 2 ½ % 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	272	325	422	571	907	1,844	3,444	Watts
	Heat	928	1,019	1,440	1,948	3,095	6,292	11,751	BTU/hr
Efficiency	Per NEMA TP-2 (35% Load)	98.9 (NEMA TP-1/CSA C802.3-01; requirement 98.3 %) (DOE 10 CFR Part 430 CSL 3 requirement 98.9 %)							%
	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	0.574							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	3,092 (symmetrical output short circuit)					Amps	
		Secondary	12,487 (asymmetrical L-N/G short circuit)						
	Inrush	762 (typical 3 cycle recovery)							
Impedance	Z: (+/- Sequence)	Z: 5.0	X: 4.7	R: 1.9				%	
	Z ₀ : (IEEE C57.12.91-1995/9.5.1)	Z ₀ : 1.0	X ₀ : 0.6	R ₀ : 0.8					
Mechanical	Enclosure	Type	N3R (Rain Shield): Vermin resistant with < ½" wide openings					lbs	
		Finish	Green Epoxy Powder Coating						
	Drawing	D Case / 300-000068-404 (attached)							
	Weight	1,250							
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-C3-150-30-600-208

Prepared: N.Xie

Date: Jun 29,10

Part No: 200-002711-100

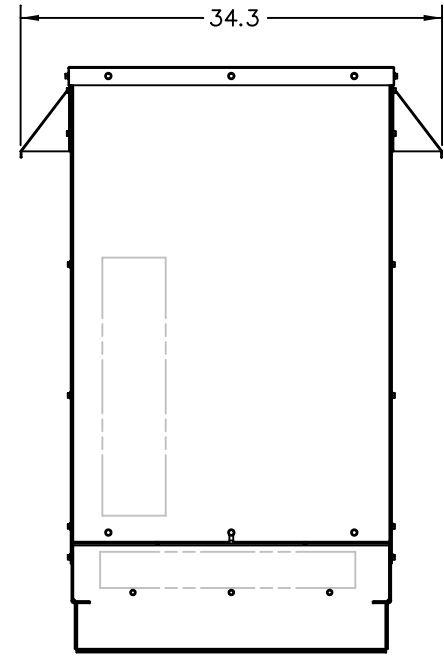
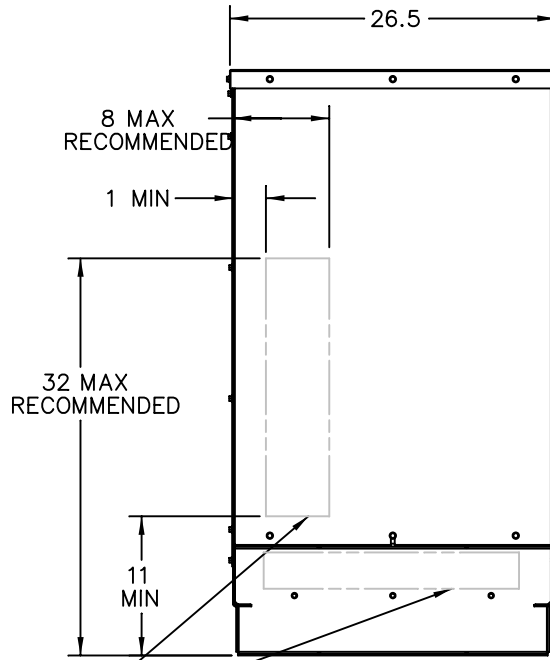
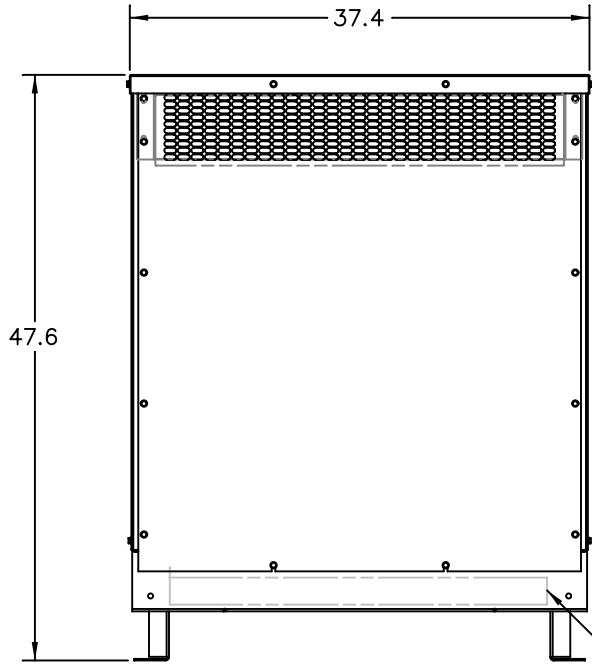
Revised:

Date:

Doc. No: 200-002711-800

Rev: A00

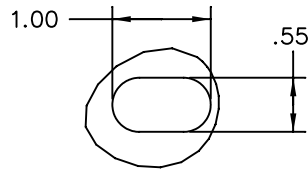
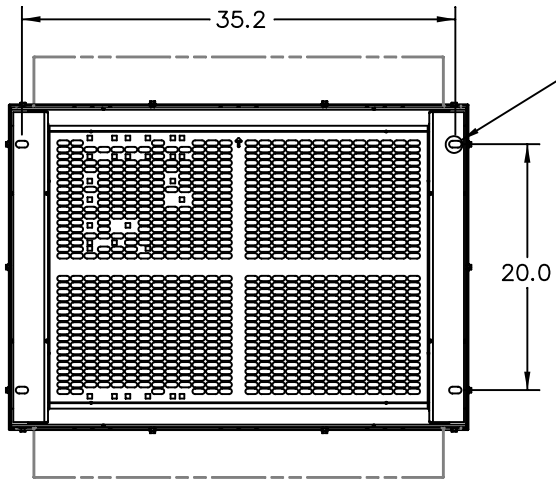
REV	ECO No.	DESCRIPTION
A00		RELEASED
A01		ADDED -3R SIDE VIEW
A02		INCREASED DEPTH BY 1"
A03		ADDED SUGGESTED DIMENSIONS FOR SIDE PANEL ACCESS



CONDUIT ACCESS

NEMA TYPE-1 (STANDARD)

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



DETAIL A
SCALE 1

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.		BY	DATE	E-FACTOR
TOLERANCES ARE:		APPROVED	DT 08-Sep-01	
1-PLACE DECIMAL	: ± .03 ± .8	APPROVED		
2-PLACE DECIMAL	: ± .010 ± .25	APPROVED		
3-PLACE DECIMAL	: ± .005 ± .10	APPROVED		TITLE
ANGULAR	: ± 1/2° ± 1/2°	APPROVED		OUTLINE, D CASE
SURFACE FINISH	: 125 ✓	APPROVED		DRAWING NO.
MATERIAL		UNLESS OTHERWISE NOTED REMOVE ALL BURRS AND SHARP EDGES		300-000068-404
FINISH		DO NOT SCALE DRAWING	REF:	REV. A03
			SHEET	1 of 1