

TRANSFORMER DATA SHEET

DATE : 04/20/2024
 CUSTOMER : HVES
 CIRCUIT/LOCATION : HVES 101
 MANUFACTURER : Eaton
 TRANSFORMER TYPE : Oil Filled Pad Mount CLASS : ONAN
 S/N : 2350005123

THREE PHASE ☒ SINGLE PHASE ☐ : 60 HERTZ

VOLTAGE RATING: 4160 Delta-480Y/277

KVA RATING: 1500 Continuous, Self Cooled
 Continuous, Forced Air

LV WINDING: ALUMINUM

HV WINDING: ALUMINUM

LV: 65°C rise, BIL: 30 kV

HV: 65°C rise, BIL: 75 kV

NAMEPLATE DATA

Core & Coils	4521
Case & Fittings	2520
Oil in Gallons	298/2220*
Weight in Pounds	9261

Fluid Type : Mineral Oil

Impedance volts : 5.9 % at rated volts at : 1500 KVA

MEGGER TEST RESULTS

TRANSFORMER TEST DATA

	1 Minute			POLARIZATION INDEX	CAPACITANCE
High-> Ground		M-Ohms, @	kV DC		micro-farad
Low -> Ground		M-Ohms, @	kV DC		micro-farad
High-> Low		M-Ohms, @	kV DC		micro-farad

TRANSFORMER TTR TESTS

TAP (V)	CALC. TTR	PHASE 1	PHASE 2	PHASE 3
4370				
4265				
4160	15.011	15.000	15.000	14.995
4055				
3950				

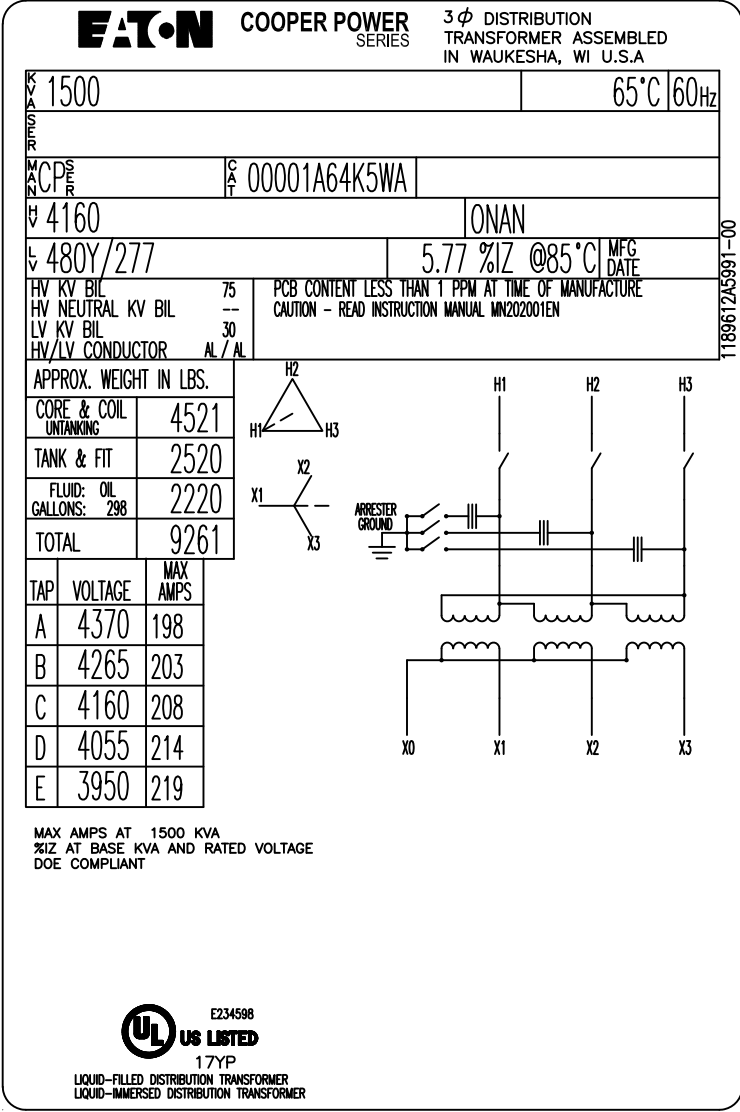
COMMENTS

Date of Manufacture 05/2023
 Tag #11527

Pad Mount Transformer

12091

1	OIL	☒	DRY	☐	NEW	☒	USED	☐	REBUILT	☐	RENTAL	☐
2	KVA	1500			IMPEDANCE	5.9		%	TEMP RISE	65 °		
3	1 PHASE	☐	2 PHASE	☐	3 PHASE	☒	3 Ø TO 2 Ø		☐			
4	HIGH VOLTAGE BUSHINGS	1	☐	2	☐	3	☒	4	☐	#	☐	
	LOW VOLTAGE BUSHINGS	1	☐	2	☐	3	☐	4	☒	#	☐	
5	MAKE	Eaton Cooper						CAT #				
6	SERIAL #	2350005123						STYLE #				
7	PRIMARY VOLTAGE	4160										
8	PRIMARY CONNECTION	WYE	☐	DELTA	☒	(3 Ø ONLY)						
9	PRIMARY TAPS	1-A	4370		2-B	4265		3-C	4160			
		4-D	4055		5-E	3950		6-F				
								7-G				
10	SECONDARY VOLTAGE	480y/277										
11	SECONDARY CONNECTION	WYE	☒	DELTA	☐	(3 Ø ONLY)						
12	TYPE OF FLUID	OIL	☒	R TEMP	☐	FR3	☐	SILICONE	☐			
13	GALLONS OF FLUID	298										
14	DOES TRANSFORMER HAVE ANY SWITCHING:											
14 A	OPEN/CLOSE SWITCH	YES	☒	NO	☐							
14 B	TAP CHANGER SWITCH	YES	☒	NO	☐							
	OUTSIDE TRANS TANK	YES	☒	NO	☐							
14 C	DUAL VOLTAGE SWITCH	YES	☐	NO	☒							
	OUTSIDE TRANS TANK	YES	☐	NO	☒							
14 D	DELTA-WYE SWITCH	YES	☐	NO	☒							
14 E	HIGH VOLTAGE FUSED	YES	☐	NO	☒							
	TYPE FUSE/MAKE							CAT #				
	AMP RATING											
	DRY WELL	☐	BAYONET	☐	CLIP MTD	☐	ARC STRANGLER	☐				
15	PRIMARY IS	LIVE FRONT	☒	DEAD FRONT	☐							
	IF DEAD FRONT, DO WELLS HAVE LOAD BREAK BUSHINGS IN THEM:											
	YES	☐	NO	☐	LIVE CONVERSION	☐	ARRESTORS	☐				
					DEAD BREAK	☐	LOAD BREAK	☐				
16	DIMENSIONS:	68"	H x	81"	Wx	68"	D	WEIGHT	9261			



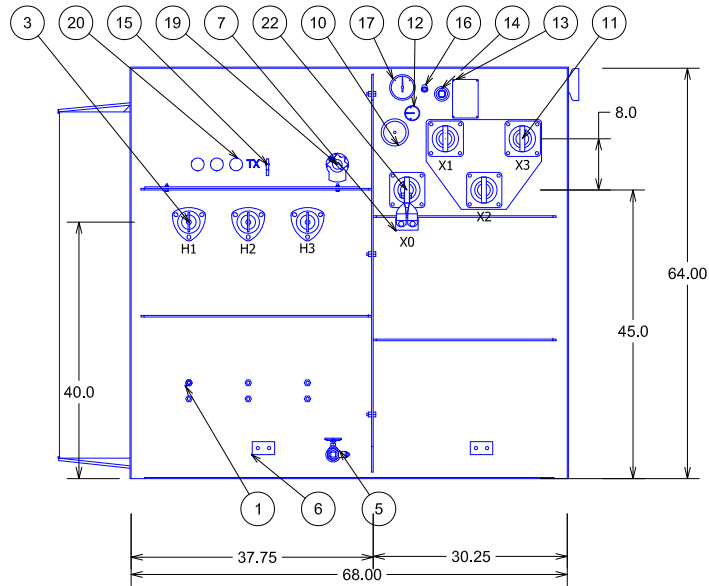
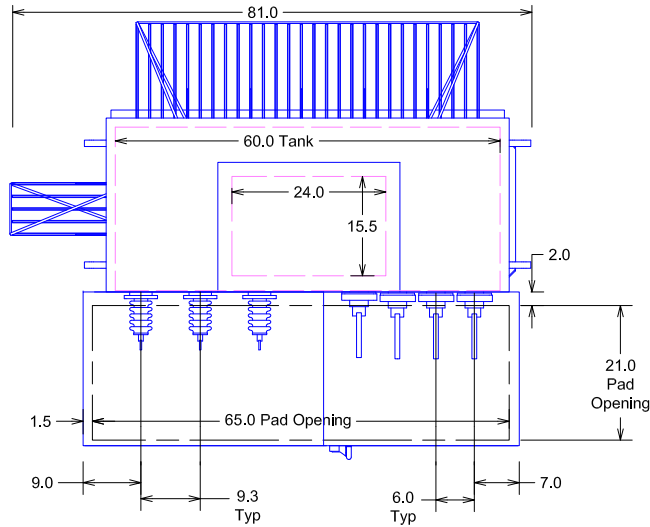
- NOTES: 1) ACTUAL PLATE IS A NEGATIVE OF THE ABOVE DRAWING.
2) ACTUAL %IZ TO BE STAMPED IN AFTER TESTING.

NAMEPLATE MATERIAL: ALUMINUM

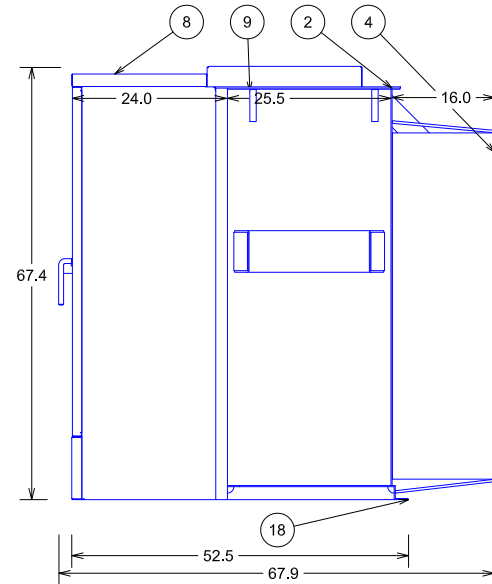
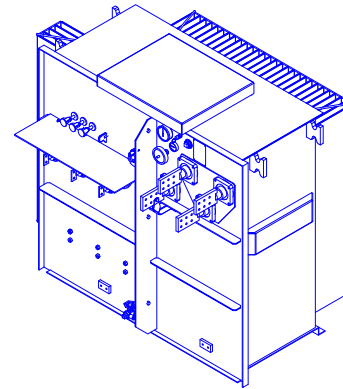
1189612A5991
REVISIONS

MATERIAL:		EATON Powering Business Worldwide			
ALL DIMENSIONS ARE IN INCHES [MM]		TITLE: LASER NAMEPLATE			
THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.		DESC: COOPER POWER SERIES 00001A64K5WA			
		DWG: PTP	DATE: 2/21/2023	REF:	SHEET #: 1 of 1 SCALE: 1=1 REV: 00
		1189612A5991			

ITEM	DESCRIPTION
1	Arrester Mounting Provision
2	Welded Cover w/ Handhole
3	15kV 250 Amp Porcelain HV Bushing w/ 2 Hole Spade
4	Cooling Corrugate
5	Drain Valve with Sampler
6	Ground Pad .50-13 Tap
7	Ground Strap and Pad
8	High Security Cabinet w/ 1 Pentahead Door Bolt per door
9	Lifting Lug
10	Liquid Temperature Gauge
11	1.2kV LV Bushing w/ 6 Hole Spade
12	Magnetic Oil Level Gauge
13	Nameplate
14	One Inch Upper Press. Conn. and Fill Plug
15	Two Position Loadbreak Switch
16	Pressure Relief Valve
17	Pressure Vacuum Gauge
18	Tank Base w/ Jacking and Rolling Facilities
19	5-Position Tap Changer
20	Under Oil Disconnect Switch
21	6.0kV (5.1kV MCOV) Arrester (Internal)
22	X0 Bushing



Cabinet Removed



00001A64K5WA

REVISIONS

3PH Padmount Transformer 60Hz
1500.0 kVA ONAN 65 AWR Mineral Oil
HV 4160D 75 kV BIL
LV 480Y/277 30 kV BIL
5.77 %IZ

Munsell Green Topcoat
Mild Steel Construction
UL Listed

S.O. Number: 221485478,20
P.O. Number: 41362
Project Name: 1500 - STOCK
Customer Name: PHILIPS BROTHERS ELECTRICAL

MATERIAL:

ALL DIMENSIONS ARE IN INCHES [MM]

THE INFORMATION ON THIS DOCUMENT WAS
CREATED BY EATON. IT WAS DISCLOSED IN
CONFIDENCE AND IS ONLY TO BE USED FOR
THE PURPOSE IN WHICH IT WAS SUPPLIED.

THIS DRAWING HAS BEEN GENERATED FROM A 3D MODEL.



TITLE: Distribution Transformer Outline Drawing

DESC: **COOPER POWER SERIES** THREE-PHASE
PAD-MOUNTED COMPARTMENTAL TYPE

DWG: PTP DATE: 3/22/2022 REF: P3D V04R02M00 SHEET #: 1 OF 1 SCALE: REV: 00

00001A64K5WA

EAT•N**COOPER POWER
SERIES**3 Φ DISTRIBUTION
TRANSFORMER ASSEMBLED
IN WAUKESHA, WI U.S.A

KVA 1500

65°C 60Hz

MCP 2350005123

CAT 00001A64K5WA

4160

ONAN

480Y/277

5.9

%Z @85°C

MFG
DATE

MAY23

HV KV BIL 75
HV NEUTRAL KV BIL --
LV KV BIL 30
HV/LV CONDUCTOR AL / ALPCB CONTENT LESS THAN 1 PPM AT TIME OF MANUFACTURE
CAUTION - READ INSTRUCTION MANUAL MN202001EN

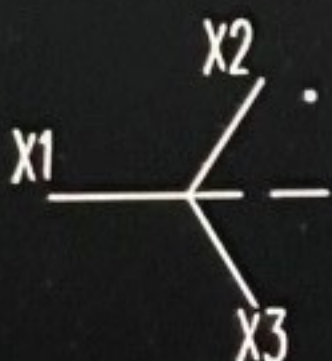
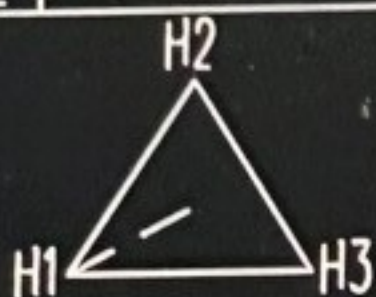
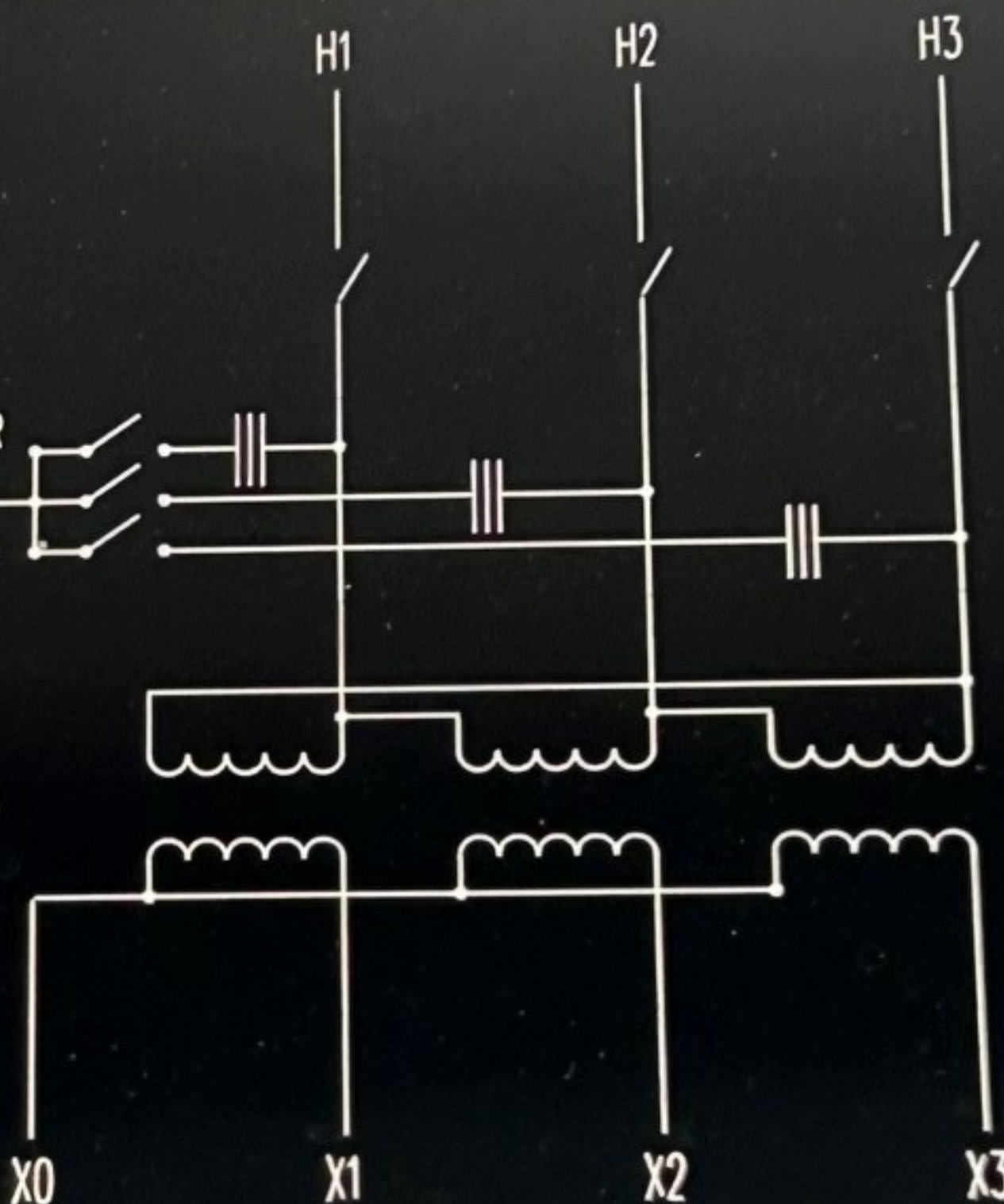
APPROX. WEIGHT IN LBS.

CORE & COIL
UNTANKING 4521

TANK & FIT 2520

FLUID: OIL 2220
GALLONS: 298

TOTAL 9261

ARRESTER
GROUND

TAP	VOLTAGE	MAX AMPS
A	4370	198
B	4265	203
C	4160	208
D	4055	214
E	3950	219

MAX AMPS AT 1500 KVA
%Z AT BASE KVA AND RATED VOLTAGE
DOE COMPLIANT

E234598

US LISTED

17YP

LIQUID-FILLED DISTRIBUTION TRANSFORMER
LIQUID-IMMERSED DISTRIBUTION TRANSFORMER

1189612A5991-00

12091

12088

1500



12091

CP2350005123

3000/14545/16A





1500

