hammond POWER SOLUTIONS

HPS Sentinel™ G

Energy Efficient Distribution Transformer

Transformateur de Distribution à Bon Rendement Énergétique

Hyderabad, IN | Guelph, ONT / Compton, CA | Baraboo, WI / Monterrey, MX

Part No. SG3N0050LE

LR 3902

DRY TYPE TRANSFORMER 77US E112313 LISTED

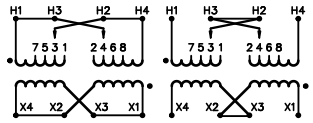
ALSO VERIFIED IN ACCORDANCE TO ENERGY STANDARD C802.2-18 BY UNDERWRITERS LABORATORIES INC.® 3VJ6

8 03423 14066 3

Cust. Ref. / Ref. du Client		Serial No. / No. de Serie	
Phase	1	HV/HT	240X480V 208X104A
Type	F	BIL	10 kV
Cooling / Refroidissement	ANN	Term / Bornes	H1 H3 H2 H4
kVA	50	LV/BT	120/240V 417/208A
Temp. Rise / Echauffement	150 °C	BIL	10 kV
Temp Class / Classe Temp	220 °C	Term / Bornes	X4 X2 X3 X1
Winding / Enroulement	AL	Energy Regulations	DOE 10 CFR PART 431:2016
Frequency / Frequence Hz	60	Reglements de Energetique	CEE ACT SOR/2018-201
Impedance % @ 170 °C	5.8		
Encl Type / Type De Coffrage	3R		
Weight / Poids lbs	315		

VOLTS	CURRENT COURANT	% RATED VOLTAGE / % TENSION NOMINALE	CONNECTION EACH PHASE / CONNEXION PAR PHASE
504	99.2	105	H1, H4
492	101.6	102.5	H1, H4
480	104.2	100	H1, H4
468	106.8	97.5	H1, H4
456	109.6	95	H1, H4
444	113	92.5	H1, H4
432	116	90	H1, H4
252	198.4	105	H1&H3, H2&H4
240	208.3	100	H1&H3, H2&H4
228	219.3	95	H1&H3, H2&H4
216	231.5	90	H1&H3, H2&H4

SPACINGS BETWEEN ANY VENTILATED ENCLOSURE PANEL AND ANY ADJACENT WALL SHALL BE A MINIMUM OF 3 INCHES



SEISMIC QUALIFICATIONS:
OSP-0136/IBC 2018/ASCE 7-16
SDS<=2.0g Z/h=1 Ip=1.5

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NO.	DATE	BY	REVISION
3	21/11/25	CS	NPL IMPEDANCE AND WEIGHT UPDATE
2	21/07/16	PP	EDB UPDATE

DES.: PPICASSI

DATE: 17/04/27

SCALE: NTS

TITLE: 1PH DISTRIBUTION TRANSFORMER NAMEPLATE INFORMATION

SHEET 1 OF 4

EDBSG3N0050LE

PRIMARY VOLTS	CONNECTION LINES TO	INTER-CONNECT
504	H1,H4	1-H2,2-H3,H2-H3
492	H1,H4	3-H2,2-H3,H2-H3
480	H1,H4	3-H2,4-H3,H2-H3
468	H1,H4	5-H2,4-H3,H2-H3
456	H1,H4	5-H2,6-H3,H2-H3
444	H1,H4	7-H2,6-H3,H2-H3
432	H1,H4	7-H2,8-H3,H2-H3
252	H1&H3, H2&H4	1-H2,2-H3,H1-H3,H2-H4
240	H1&H3, H2&H4	3-H2,4-H3,H1-H3,H2-H4
228	H1&H3, H2&H4	5-H2,6-H3,H1-H3,H2-H4
216	H1&H3, H2&H4	7-H2,8-H3,H1-H3,H2-H4
SECONDARY VOLTS	CONNECTION LINES TO	INTER-CONNECT
240	X1,X4	X2-X3
120	X1&X3, X2&X4	X1-X3,X2-X4
120/240	X1, X2orX3, X4	X2-X3

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TITLE: 1PH DISTRIBUTION TRANSFORMER AUXILIARY TAP CHART

NO.	DATE	BY	REVISION	
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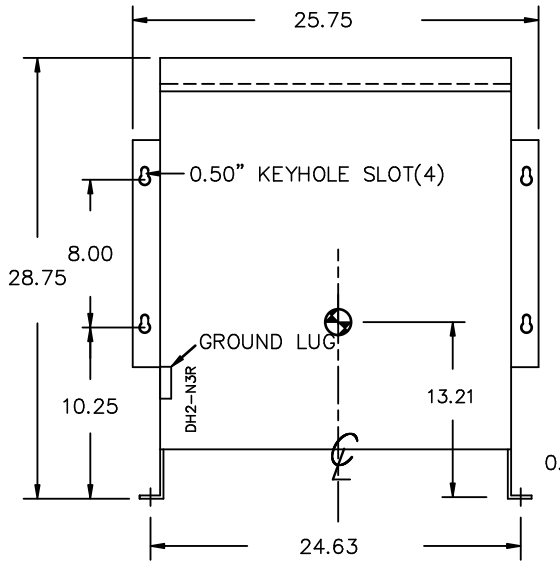
2	21/07/16	PP	EDB UPDATE	DATE: 17/04/27
				SCALE: NTS

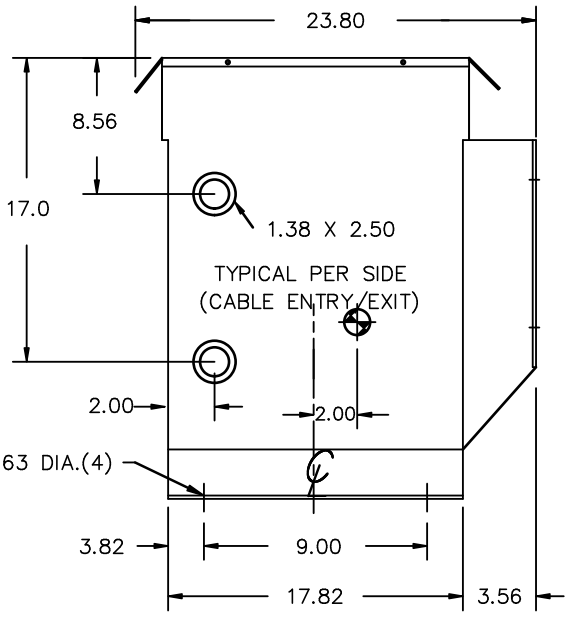
SHEET 2 OF 4

EDBSG3N0050LE

FRONT VIEW



SIDE VIEW



All Dimensions in inches

ENCLOSURE COLOR : ANSI 61 GREY – OUTDOOR

HV TERMINAL DETAIL

MECHANICAL TYPE LUGS INCLUDED
SUITABLE FOR 250MCM–6 CU/AL
CONDUCTORS
1 CONDUCTOR PER PHASE

LV TERMINAL DETAIL

MECHANICAL TYPE LUGS INCLUDED
SUITABLE FOR 600MCM–2 CU/AL
CONDUCTORS
1 CONDUCTOR PER PHASE

CUSTOMER NOTES:
– HV TERMINATED AT TOP FRONT
– LV TERMINATED AT BOTTOM FRONT

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SHEET 3 OF 4

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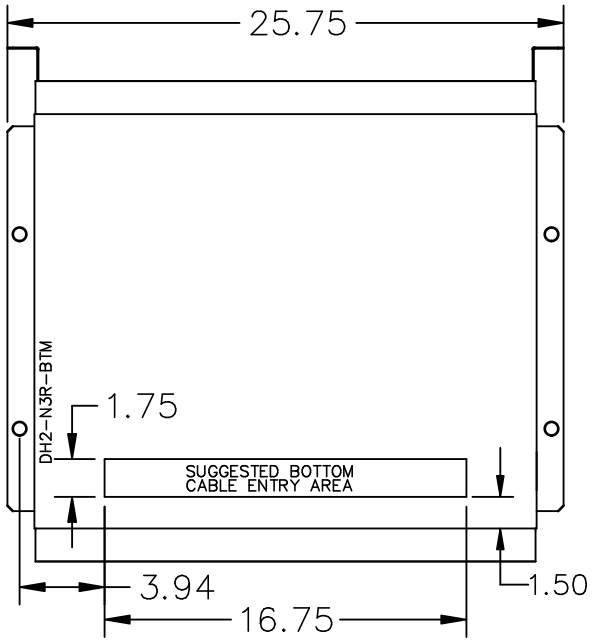
ENCLOSURE BOTTOM VIEW



NOTE:
WHEN BOTTOM CABLE ENTRY IS OPTED, THE SPACE USED FOR CONDUITS IN THE FRONT OF THE TRANSFORMER SHOULD NOT OBSTRUCT MORE THAN 50% OF THE FRONT AIR INTAKE AREA DEFINED BETWEEN THE BOTTOM PLATE AND THE SUPPORTING LEGS.
SEE MANUAL FOR ADDITIONAL INFORMATION

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TITLE: 1PH DISTRIBUTION TRANSFORMER ENCLOSURE BOTTOM VIEW

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				SCALE: NTS

SHEET 4 OF 4

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