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SIZE D DWG NO. 4.16-0.48-NEMA 1-BUSBAR

SH 1 REV. A

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NOTES:

0. APPLICABLE DOCUMENTS AND STANDARDS

A. IEEE Std C57.12.01, IEC 60076-11.

1. MECHANICAL:

A. CONSTRUCTION:

ENCLOSURE IS NEMA 1 INDOOR KNOCK DOWN TYPE WITH REMOVABLE PANELS MADE OF COLD-ROLLED STEEL SHEET ATTACHED TO A STEEL BASE FRAME, AND THE BASE IS FINISHED WITH SPRAYING BLACK PAINT.

COILS: FIBER REINFORCED VACUUM CAST EPOXY RESIN WITH COPPER WINDINGS.

CORE: STEP LAPPED SILICA STEEL LAMINATION (EQUAL TO M5) WITH BLACK EPOXY PAINT COATING .

BUS WORK: TIN PLATED COPPER.

B. FINISH:

ENCLOSURE IS ELECTRO-STATIC POWDER PAINT, ANSI 61.

C. THE JUNCTION BOX (NEMA 12) INCLUDES TERMINALS AND TERMINAL BOARDS, AND CABLE ENTERS FROM THE BOTTOM OF THE TERMINAL BOX.

2. ELECTRICAL:

A. TRANSFORMER RATING (SEE SHEET 2).

3. ENVIRONMENTAL:

A. OPERATING

INDOOR

TEMPERATURE: DESIGN AMBIENT TEMPERATURE IS 30°C(86°F) AVG / 40°C(104°F) MAX.

ALTITUDE: 1000M (3300FEET) MAX

B. STORAGE

TEMPERATURE: -25°C(-13°F) TO 50°C(122°F)

HUMIDITY: 0% TO 75%

4. MISCL:

A.  : CENTER OF GRAVITY.

B. ALL INDICATORS AND GAUGES ARE DIMENSIONED IN BOTH ENGLISH AND METRIC UNITS, UNLESS OTHERWISE SPECIFIED, DIMENSION TOLERANCE IS ±3%.

C. 54" SPACE REQUIRED AROUND THE ENCLOSURE FOR VENTILATION AND MAINTENANCE.

THIS DRAWING IS FOR REFERENCE ONLY,  
JINPAN RESERVE THE RIGHT TO ADJUST  
PARAMETER IF NECESSARY.

REVISIONS				
REV.	ZONE	DESCRIPTION	DATE	APPROVED
A		INITIAL ISSUE	Sep 22, 2017	P.Wan

D

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C

C

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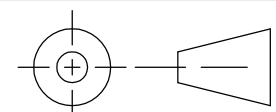
B

A

A

JINPAN INTERNATIONAL USA LIMITED		* 390 VETERANS BOULEVARD *	
		* CARLSTADT, NJ, 07072 *	
CAST COIL DRY-TYPE TRANSFORMER			
4.16 KV PRIMARY AND 0.48 KV SECONDARY			
<b>OUTLINE DRAWING</b>			
DWG NO: <b>4.16-0.48-NEMA 1-BUSBAR</b>			
SIGNATURES		DATE	SCALE: NONE
DRAWN: D.Meng		Sep 22, 2017	REV.: A
CHECKED: L.Qin		Sep 22, 2017	SHEET: 1 of 3
APPROVED: P.Wan		Sep 22, 2017	

THIRD ANGLE PROJECTION



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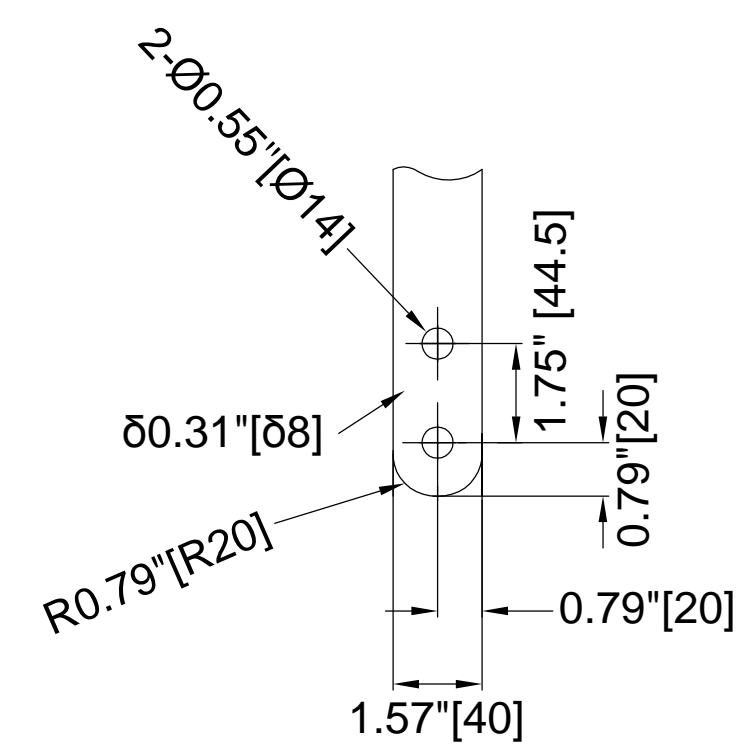
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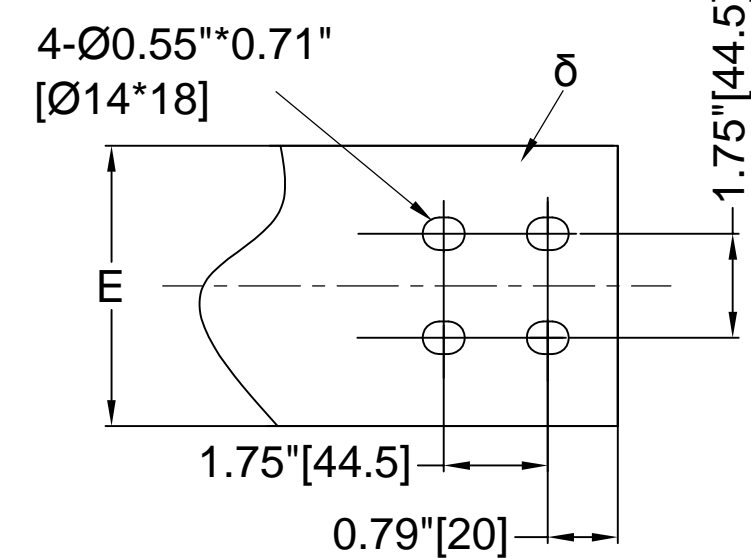
1

SIZE D DWG NO. 4.16-0.48-NEMA 1-BUSBAR SH 1 REV. A

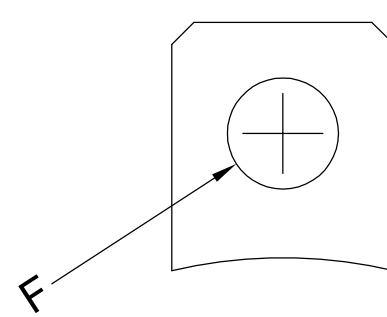
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HV TERMINAL(H1-H3)

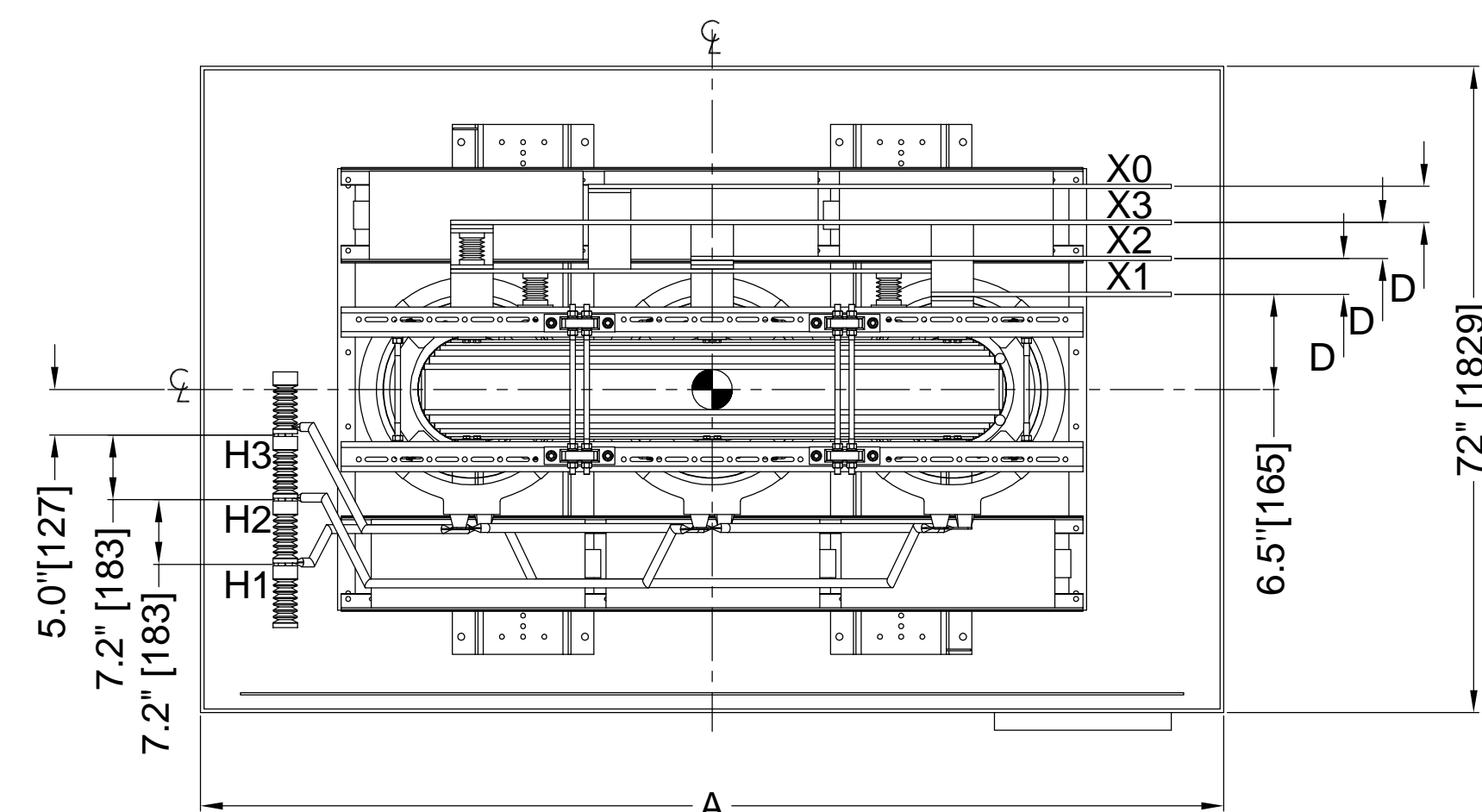


LV TERMINAL(X0-X3)

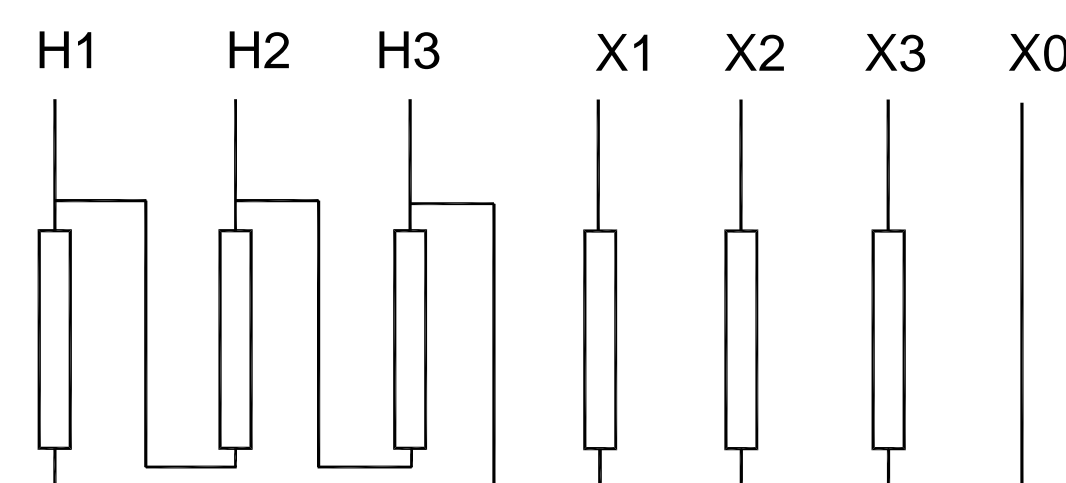


LIFTING LUG

Rated (kVA)	Dimension(in/mm)								LBS/KG	
	A	B	C	D	E	F	δ	G	W1	W2
500/665	96"[2438]	33"[838]	78"[1981]	3.78"[96]	3.15"[80]	Ø1.97"[Ø50]	0.24"[6]	38"[965]	4550/2065	6490/2945
1000/1330	96"[2438]	35"[889]	78"[1981]	3.94"[100]	3.15"[80]	Ø1.97"[Ø50]	0.39"[10]	38"[965]	7595/3445	9535/4325
2000/2660	114"[2896]	40"[1016]	88"[2235]	4.02"[102]	5.91"[150]	Ø1.97"[Ø50]	0.47"[12]	47"[1194]	14310/6490	16500/7485
3000/3990	126"[3200]	42"[1067]	88"[2235]	4.13"[105]	5.91"[150]	Ø2.76"[Ø70]	0.59"[15]	53"[1346]	18010/8170	20370/9240

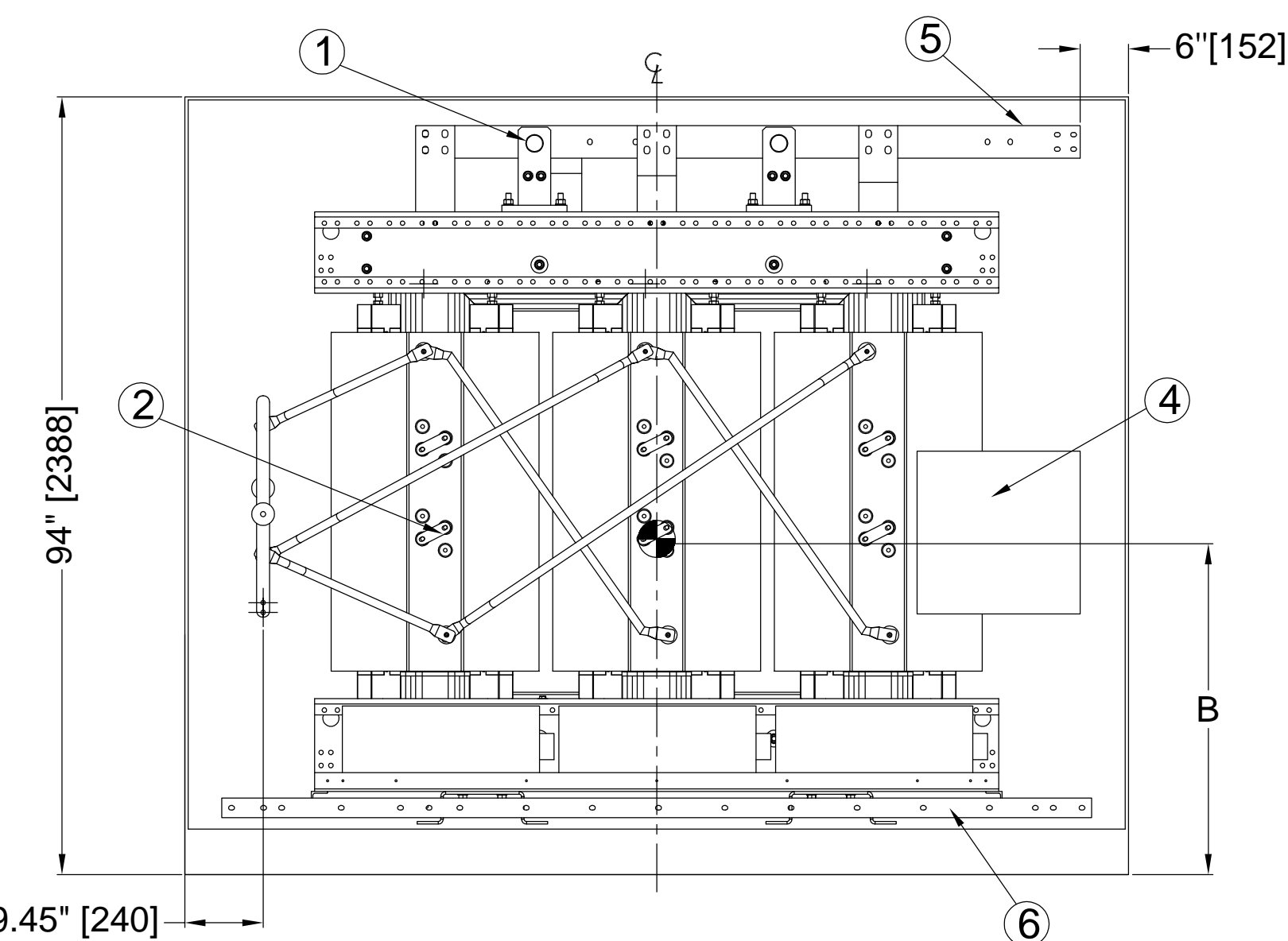


TOP PLAN VIEW

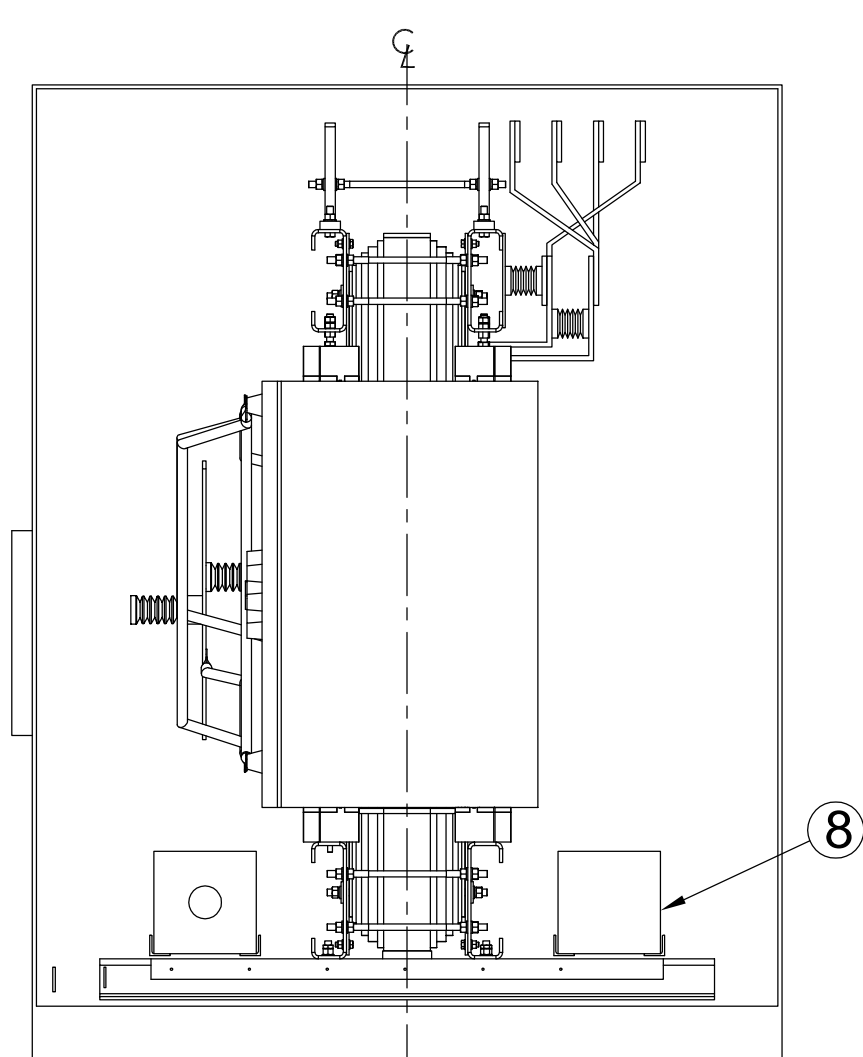


TAP	VOLTAGE	CONNECTIONS	FIGURE
A	4368	2 - 3 & 6 - 7	② ③ ④
B	4264	2 - 3 & 5 - 7	
C	4160	1 - 3 & 5 - 7	⑥ ⑦ ⑧
D	4056	1 - 3 & 5 - 8	
E	3952	1 - 4 & 5 - 8	

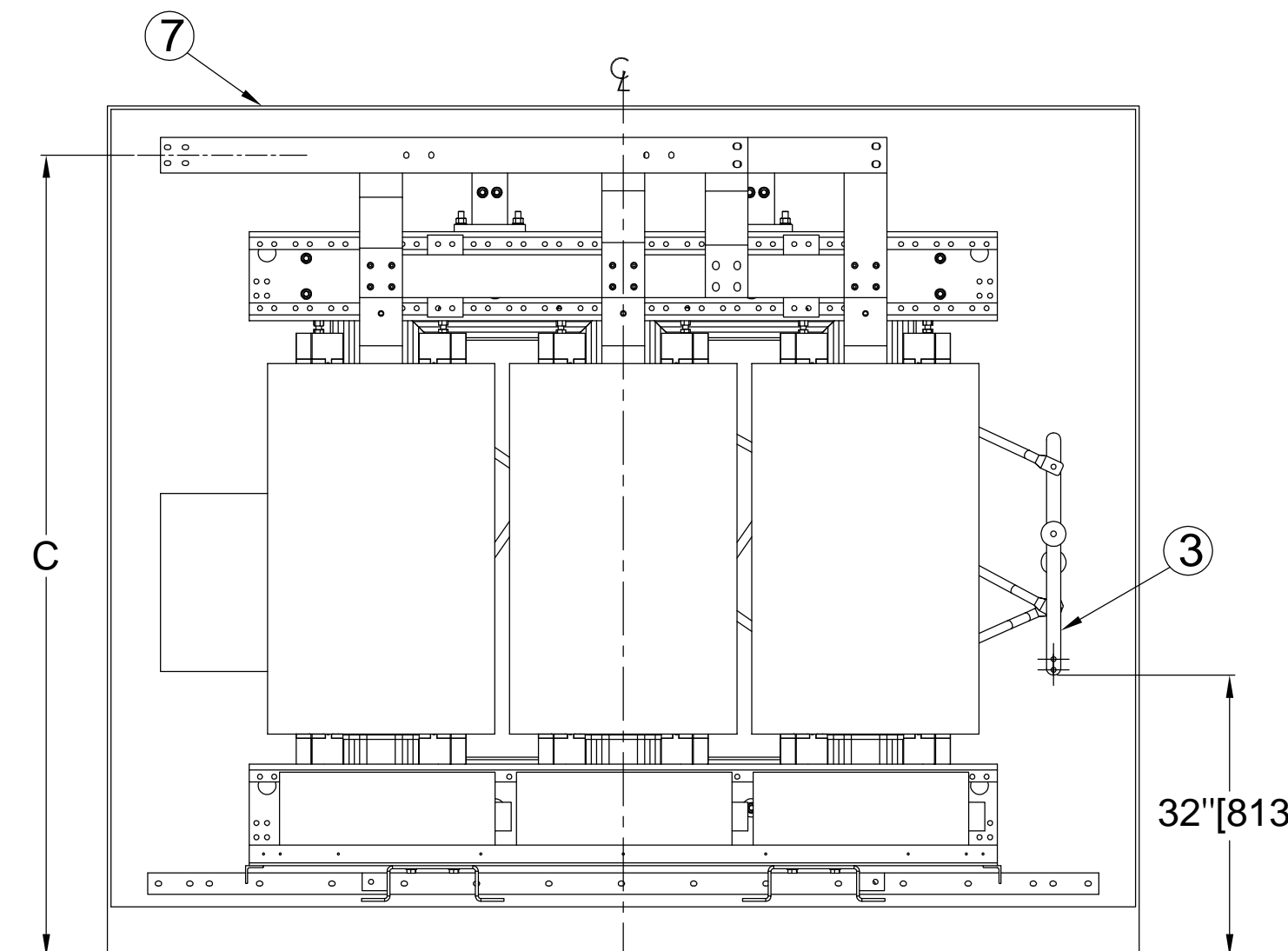
ITEM	QTY.	DESCRIPTION	REFERENCE
8	6	COOLING FAN	
7	1	ENCLOSURE	
6	1	GROUND BUS	
5	4	LV TERMINAL	
4	1	JUNCTION BOX (JB)	
3	3	HV TERMINAL	
2	6	HV TAPS	
1	4	LIFTING LUG	



FRONT VIEW (HV TAPS)



RIGHT SIDE VIEW



REAR VIEW

STANDARD: IEEE Std C57.12.01, IEC 60076-11

KVA: Rated	COOLING CLASS: AA / FA
HV. 4160 V D	B.I.L. 60 kV 12 kV AC
LV. 480 V Y	B.I.L. 30 kV 4 kV AC

PHASE: 3 FREQUENCY: 60 Hz

INSULATION SYSTEM: 185°C(365°F) TEMPERATURE RISE: 80°C(176°F)

HV TAPS: ±5%, 2.5% EACH STEP

CONNECTION: Dyn1

IMPEDANCE: 5.75% based on Rated kVA (Tolerance: +/-7.5%)

APPROX. WEIGHT	TRANSFORMER: W1
	TRANSFORMER WITH ENCLOSURE: W2

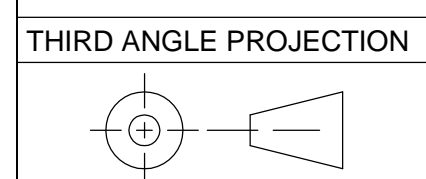
JINPAN INTERNATIONAL USA LIMITED \* 390 VETERANS BOULEVARD \* CARLSTADT, NJ, 07072 \*

CAST COIL DRY-TYPE TRANSFORMER  
4.16 KV PRIMARY AND 0.48 KV SECONDARY

OUTLINE DRAWING

DWG NO: 4.16-0.48-NEMA 1-BUSBAR

SIGNATURES	DATE	SCALE:
DRAWN: D.Meng	Sep 22, 2017	NONE
CHECKED: L.Qin	Sep 22, 2017	REV.: A
APPROVED: P.Wan	Sep 22, 2017	SHEET: 2 of 3



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SIZE DWG NO.  
D 4.16-0.48-NEMA 1-BUSBAR

SH REV.  
3 A

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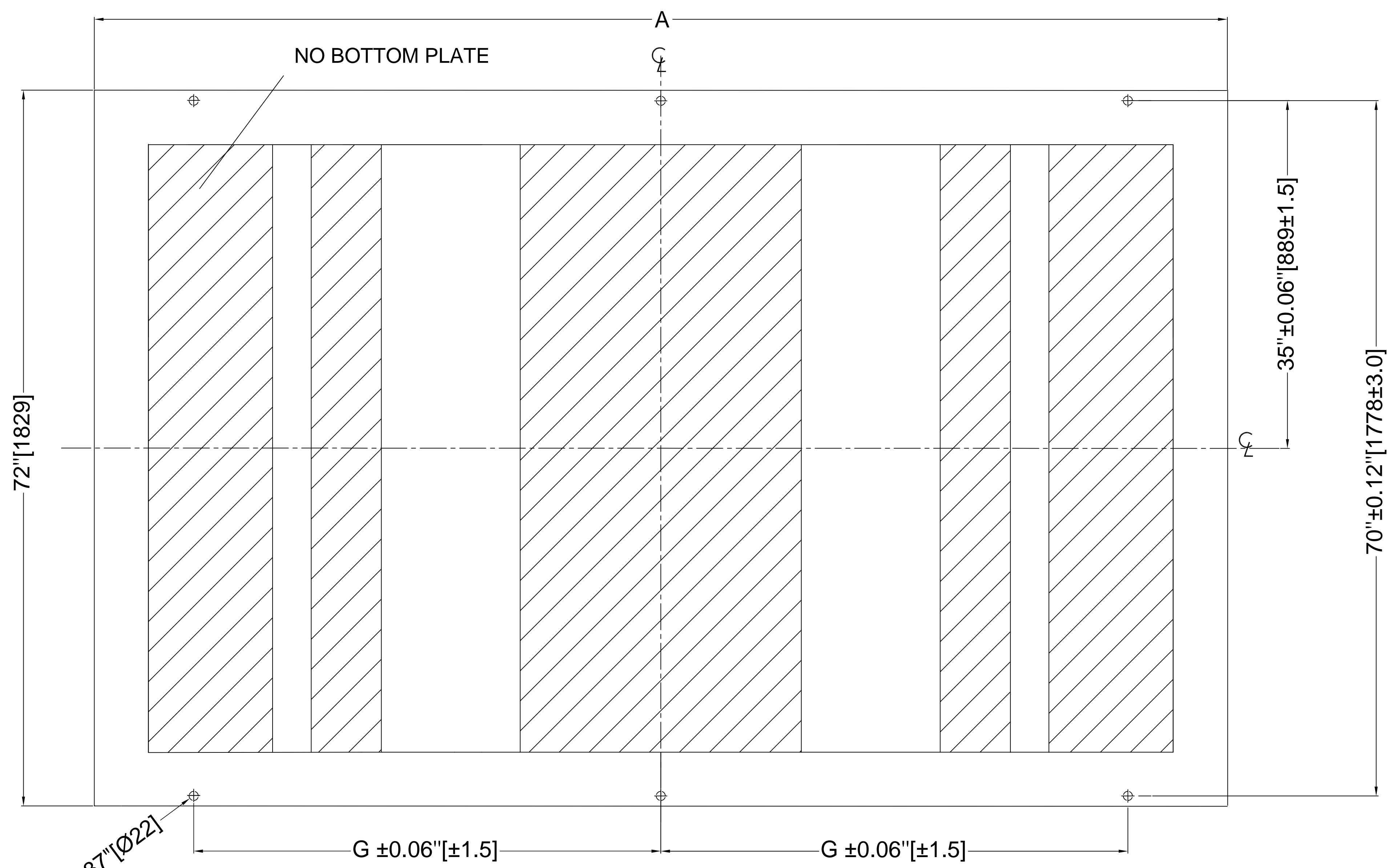
C

B

B

A

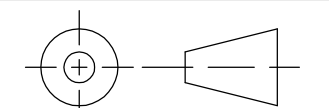
A



FRONT SIDE  
FOUNDATION PLAN

MOUNTING HOLES 6-Ø0.87" [Ø22]

THIRD ANGLE PROJECTION



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SIZE DWG NO.  
D 4.16-0.48-NEMA 1-BUSBAR  
SH REV.  
1 A  
DISTR TO