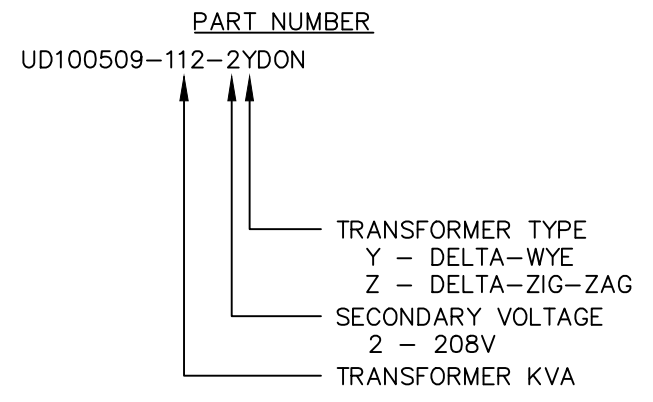


- NOTES:**
1. THE 15-45kVA TRANSFORMERS CAN BE FLOOR OR WALL MOUNTED.
 2. SEISMICALLY QUALIFIED ACCORDING TO IBC 2012,ASCE 7-10 SPECIFICATIONS, SDS < 2.0G, IP =105,Z/H=1.0". OSHPD CALIFORNIA CERTIFIED.
 3. ELECTROSTATIC SHIELD IS 60dB COMMON MODE.
 4. SOUND LEVEL MEETS NEMA ST-20 STANDARDS.
 5. ALL TRANSFORMERS ARE INSTALLED IN A NEMA 3R ENCLOSURE SUITABLE FOR OUTDOOR APPLICATIONS.
 6. THE INSTALLER IS RESPONSIBLE FOR OVERCURRENT PROTECTION.
 7. THE INSTALLER IS RESPONSIBLE FOR SIZING AND INSTALLING THE MAIN BONDING JUMPER.



STEP DOWN TRANSFORMERS



PART NUMBER	KVA	NAMEPLATE FIGURE No.	TRANSFORMER FIGURE No.	PRIMARY RATED VOLTAGE	SECONDARY RATED VOLTAGE	WINDINGS MATERIAL	APPROX. WEIGHT (LBS)	CONFIGURATION
UD100509-015-2YDON	15	FIGURE 2.1	FIGURE 4.1	480	208 120	AL	240	DELTA-WYE
UD100509-030-2YDON	30	FIGURE 2.2	FIGURE 4.2	480	208 120	AL	340	DELTA-WYE
UD100509-045-2YDON	45	FIGURE 2.3	FIGURE 4.2	480	208 120	AL	420	DELTA-WYE
UD100509-075-2YDON	75	FIGURE 2.4	FIGURE 4.3	480	208 120	AL	560	DELTA-WYE
UD100509-112-2YDON	112.5	FIGURE 2.5	FIGURE 4.3	480	208 120	AL	730	DELTA-WYE
UD100509-150-2YDON	150	FIGURE 2.6	FIGURE 4.4	480	208 120	AL	1070	DELTA-WYE
UD100509-225-2YDON	225	FIGURE 2.7	FIGURE 4.5	480	208 120	AL	1500	DELTA-WYE
UD100509-300-2YDON	300	FIGURE 2.8	FIGURE 4.5	480	208 120	AL	1950	DELTA-WYE
UD100509-500-2YDON	500	FIGURE 2.9	FIGURE 4.6	480	208 120	AL	2900	DELTA-WYE
UD100509-750-2YDON	750	FIGURE 2.10	FIGURE 4.7	480	208 120	AL	4400	DELTA-WYE
UD100509-030-2ZDON	30	FIGURE 3.1	FIGURE 4.2	480	208 120	AL	330	DELTA-ZIG-ZAG
UD100509-050-2ZDON	50	FIGURE 3.2	FIGURE 4.2	480	208 120	AL	410	DELTA-ZIG-ZAG
UD100509-112-2ZDON	112.5	FIGURE 3.3	FIGURE 4.3	480	208 120	AL	720	DELTA-ZIG-ZAG

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FILE LOCATION:			DATE: 04/16/16	

TITLE: **STEP DOWN TRANSFORMERS TRANSFORMER MATRIX**
 SHEET 1 OF 10
 DWG No. **UD-100509** REV: **0**

FIGURE 2.1

HPS Hammond Power Solutions Inc.  LISTED  DRY TYPE TRANSFORMER 77U5 E112313

GUELPH, ONT. BARABOO, WI COMPTON, CA MONTERREY, MX

THREE PHASE DRY TYPE TRANSFORMER
TRANSFORMATEUR SEC TRIPHASE

HV/HT **480V**
BIL -
TERM. BORNES **H1 H2 H3**

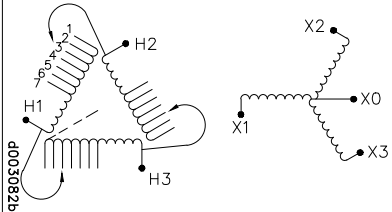
VOLTS	CURRENT COURANT	% RATED VOLTAGE % TENSION NOMINALE	CONNECTION EACH PHASE CONNEXION PAR PHASE
504	17.2	105	1
492	17.6	102.5	2
480	18.1	100	3
468	18.5	97.5	4
456	19.0	95	5
444	19.5	92.5	6
432	20.1	90	7

Cust. Ref.
Réf. du client
Serial No.
No. de série
Part No. **NMT13K015KBS**
No. de pièce
kVA **15**
TYPE **K**
Cooling **ANN**
Refrroidissement
Temp. Rise **150 °C**
Echauffement
Temp. Class **220 °C**
Classe de Temp.
Frequency **60 Hz**
Fréquence
Impédance % @ 170 °C **2.8**
Encl. Type **NEMA-3R**
Type de boîtier
Wt LBS **315**
Poids en lbs.
Winding **AL**
Enroulement

LV/BT **208Y/120V**
BIL -
TERM. BORNES **X0 X1 X2 X3**

Energy Efficiency Economie d'énergie **CSA C802.2-00 NEMA TP 1-2002**

SPACINGS BETWEEN ENCLOSURE AND ANY ADJACENT WALL SHALL BE A MINIMUM OF 6 INCHES ELECTROSTATIC SHIELD SUITABLE FOR NON-SINUSOIDAL CURRENT LOAD WITH A K-FACTOR NOT TO EXCEED 13






VERIFIED  Energy Performance Rendement Energetique

FIGURE 2.2

HPS Hammond Power Solutions Inc.  LISTED  DRY TYPE TRANSFORMER 77U5 E112313

GUELPH, ONT. BARABOO, WI COMPTON, CA MONTERREY, MX

THREE PHASE DRY TYPE TRANSFORMER
TRANSFORMATEUR SEC TRIPHASE

HV/HT **480V**
BIL -
TERM. BORNES **H1 H2 H3**

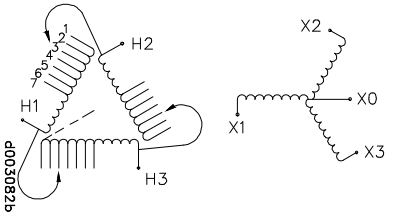
VOLTS	CURRENT COURANT	% RATED VOLTAGE % TENSION NOMINALE	CONNECTION EACH PHASE CONNEXION PAR PHASE
504	34.4	105	1
492	35.2	102.5	2
480	36.1	100	3
468	37.0	97.5	4
456	38.0	95	5
444	39.0	92.5	6
432	40.1	90	7

Cust. Ref.
Réf. du client
Serial No.
No. de série
Part No. **NMT13K030KBS**
No. de pièce
kVA **30**
TYPE **K**
Cooling **ANN**
Refrroidissement
Temp. Rise **150 °C**
Echauffement
Temp. Class **220 °C**
Classe de Temp.
Frequency **60 Hz**
Fréquence
Impédance % @ 170 °C **5.1**
Encl. Type **NEMA-3R**
Type de boîtier
Wt LBS **320**
Poids en lbs.
Winding **AL**
Enroulement

LV/BT **208Y/120V**
BIL -
TERM. BORNES **X0 X1 X2 X3**

Energy Efficiency Economie d'énergie **CSA C802.2-00 NEMA TP 1-2002**

SPACINGS BETWEEN ENCLOSURE AND ANY ADJACENT WALL SHALL BE A MINIMUM OF 6 INCHES ELECTROSTATIC SHIELD SUITABLE FOR NON-SINUSOIDAL CURRENT LOAD WITH A K-FACTOR NOT TO EXCEED 13






VERIFIED  Energy Performance Rendement Energetique

FIGURE 2.3

HPS Hammond Power Solutions Inc.  LISTED  DRY TYPE TRANSFORMER 77U5 E112313

GUELPH, ONT. BARABOO, WI COMPTON, CA MONTERREY, MX

THREE PHASE DRY TYPE TRANSFORMER
TRANSFORMATEUR SEC TRIPHASE

HV/HT **480V**
BIL -
TERM. BORNES **H1 H2 H3**

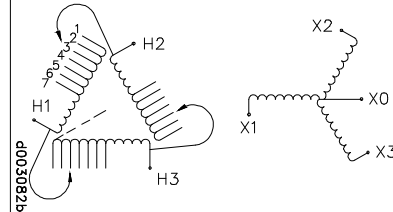
VOLTS	CURRENT COURANT	% RATED VOLTAGE % TENSION NOMINALE	CONNECTION EACH PHASE CONNEXION PAR PHASE
504	51.5	105	1
492	52.8	102.5	2
480	54.1	100	3
468	55.5	97.5	4
456	57.0	95	5
444	58.5	92.5	6
432	60.1	90	7


Cust. Ref.
Réf. du client
Serial No.
No. de série
Part No. **NMT13K045KBS**
No. de pièce
kVA **45**
TYPE **K**
Cooling **ANN**
Refrroidissement
Temp. Rise **150 °C**
Echauffement
Temp. Class **220 °C**
Classe de Temp.
Frequency **60 Hz**
Fréquence
Impédance % @ 170 °C **6.3**
Encl. Type **NEMA-3R**
Type de boîtier
Wt LBS **395**
Poids en lbs.
Winding **AL**
Enroulement

LV/BT **208Y/120V**
BIL -
TERM. BORNES **X0 X1 X2 X3**

Energy Efficiency Economie d'énergie **CSA C802.2-00 NEMA TP 1-2002**

SPACINGS BETWEEN ENCLOSURE AND ANY ADJACENT WALL SHALL BE A MINIMUM OF 6 INCHES ELECTROSTATIC SHIELD SUITABLE FOR NON-SINUSOIDAL CURRENT LOAD WITH A K-FACTOR NOT TO EXCEED 13



VERIFIED  Energy Performance Rendement Energetique

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4/15/2016

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DWG No. UD-100509		SHEET 2 OF 10 REV: 0	

FIGURE 2.4

HPS Hammond Power Solutions Inc. GUELPH, ONT. BARABOO, WI COMPTON, CA MONTERREY, MX

LISTED DRY TYPE TRANSFORMER 77US E112313

THREE PHASE DRY TYPE TRANSFORMER
TRANSFORMATEUR SEC TRIPHASE

HV/HT: 480V
BIL: -
TERM. BORNES: H1 H2 H3

VOLTS	CURRENT COURANT	% RATED VOLTAGE % TENSION NOMINALE	CONNECTION EACH PHASE CONNEXION PAR PHASE
504	85.9	105	1
492	88.0	102.5	2
480	90.2	100	3
468	92.5	97.5	4
456	95.0	95	5
444	97.5	92.5	6
432	100.2	90	7

LV/BT: 208Y/120V
BIL: -
TERM. BORNES: X0 X1 X2 X3

Part No. NMT13K075KBS
kVA: 75
TYPE: K
Cooling: ANN
Temp. Rise: 150 °C
Temp. Class: 220 °C
Frequency: 60 Hz
Impedance % @ 170 °C: 6.7
Encl. Type: NEMA-3R
Wt LBS: 590
Winding: AL

Energy Efficiency: CSA C802.2-00 NEMA TP 1-2002

SPACINGS BETWEEN ENCLOSURE AND ANY ADJACENT WALL SHALL BE A MINIMUM OF 6 INCHES
ELECTROSTATIC SHIELD SUITABLE FOR NON-SINUSOIDAL CURRENT LOAD WITH A K-FACTOR NOT TO EXCEED 13

VERIFIED CSA Energy Performance Rendement Energetique VERIFIE

FIGURE 2.5

HPS Hammond Power Solutions Inc. GUELPH, ONT. BARABOO, WI COMPTON, CA MONTERREY, MX

LISTED DRY TYPE TRANSFORMER 77US E112313

THREE PHASE DRY TYPE TRANSFORMER
TRANSFORMATEUR SEC TRIPHASE

HV/HT: 480V
BIL: -
TERM. BORNES: H1 H2 H3

VOLTS	CURRENT COURANT	% RATED VOLTAGE % TENSION NOMINALE	CONNECTION EACH PHASE CONNEXION PAR PHASE
504	129.0	105	1
492	132.0	102.5	2
480	135.0	100	3
468	139.0	97.5	4
456	142.0	95	5
444	146.0	92.5	6
432	150.0	90	7

LV/BT: 208Y/120V
BIL: -
TERM. BORNES: X0 X1 X2 X3

Part No. NMT13K112KBS
kVA: 112.5
TYPE: K
Cooling: ANN
Temp. Rise: 150 °C
Temp. Class: 220 °C
Frequency: 60 Hz
Impedance % @ 170 °C: 5.2
Encl. Type: NEMA-3R
Wt LBS: 800
Winding: AL

Energy Efficiency: CSA C802.2-00 NEMA TP 1-2002

SPACINGS BETWEEN ENCLOSURE AND ANY ADJACENT WALL SHALL BE A MINIMUM OF 6 INCHES
ELECTROSTATIC SHIELD SUITABLE FOR NON-SINUSOIDAL CURRENT LOAD WITH A K-FACTOR NOT TO EXCEED 13

VERIFIED CSA Energy Performance Rendement Energetique VERIFIE

FIGURE 2.6

HPS Hammond Power Solutions Inc. GUELPH, ONT. BARABOO, WI COMPTON, CA MONTERREY, MX

LISTED DRY TYPE TRANSFORMER 77US E112313

THREE PHASE DRY TYPE TRANSFORMER
TRANSFORMATEUR SEC TRIPHASE

HV/HT: 480V
BIL: -
TERM. BORNES: H1 H2 H3

VOLTS	CURRENT COURANT	% RATED VOLTAGE % TENSION NOMINALE	CONNECTION EACH PHASE CONNEXION PAR PHASE
504	172.0	105	1
492	176.0	102.5	2
480	180.0	100	3
468	185.0	97.5	4
456	190.0	95	5
444	195.0	92.5	6
432	200.0	90	7

LV/BT: 208Y/120V
BIL: -
TERM. BORNES: X0 X1 X2 X3

Part No. NMT13K150KBS
kVA: 150
TYPE: K
Cooling: ANN
Temp. Rise: 150 °C
Temp. Class: 220 °C
Frequency: 60 Hz
Impedance % @ 170 °C: 5.3
Encl. Type: NEMA-3R
Wt LBS: 1050
Winding: AL

Energy Efficiency: CSA C802.2-00 NEMA TP 1-2002

SPACINGS BETWEEN ENCLOSURE AND ANY ADJACENT WALL SHALL BE A MINIMUM OF 6 INCHES
ELECTROSTATIC SHIELD SUITABLE FOR NON-SINUSOIDAL CURRENT LOAD WITH A K-FACTOR NOT TO EXCEED 13

VERIFIED CSA Energy Performance Rendement Energetique VERIFIE

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FILE LOCATION:	DWG No. UD-100509		REV: 0

MITSUBISHI ELECTRIC POWER PRODUCTS, INC. WARRENDALE, PA.

TITLE: STEP DOWN TRANSFORMERS NAMEPLATES

FIGURE 2.7

HPS Hammond Power Solutions Inc.
GUELPH, ONT. BARABOO, WI COMPTON, CA MONTERREY, MX

SP LR 3902
UL DRY TYPE TRANSFORMER 77U5 E112313 LISTED

THREE PHASE DRY TYPE TRANSFORMER
TRANSFORMATEUR SEC TRIPHASE

HV/HT: 480V
BIL: -
TERM. BORNES: H1 H2 H3

VOLTS	CURRENT COURANT	% RATED VOLTAGE % TENSION NOMINALE	CONNECTION EACH PHASE CONNEXION PAR PHASE
504	258.0	105	1
492	264.0	102.5	2
480	271.0	100	3
468	278.0	97.5	4
456	285.0	95	5
444	293.0	92.5	6
432	301.0	90	7

kVA: 225
TYPE: K
Cooling Refroidissement: ANN
Temp. Rise Echauffement: 150 °C
Temp. Class Classe de Temp.: 220 °C
Frequency Fréquence: 60 Hz
Impédance % @ 170 °C: 5.9
LV/BT: 208Y/120V
BIL: -
TERM. BORNES: X0 X1 X2 X3

Wt LBS Poids en lbs.: 1550
Winding Enroulement: AL

Energy Efficiency Economie d'énergie: CSA C802.2-00 NEMA TP 1-2002

SPACINGS BETWEEN ENCLOSURE AND ANY ADJACENT WALL SHALL BE A MINIMUM OF 6 INCHES ELECTROSTATIC SHIELD SUITABLE FOR NON-SINUSOIDAL CURRENT LOAD WITH A K-FACTOR NOT TO EXCEED 13

VERIFIED CSA Energy Performance Rendement Energetique VERIFIE

FIGURE 2.8

HPS Hammond Power Solutions Inc.
GUELPH, ONT. BARABOO, WI COMPTON, CA MONTERREY, MX

SP LR 3902
UL DRY TYPE TRANSFORMER 77U5 E112313 LISTED

THREE PHASE DRY TYPE TRANSFORMER
TRANSFORMATEUR SEC TRIPHASE

HV/HT: 480V
BIL: -
TERM. BORNES: H1 H2 H3

VOLTS	CURRENT COURANT	% RATED VOLTAGE % TENSION NOMINALE	CONNECTION EACH PHASE CONNEXION PAR PHASE
504	344.0	105	1
492	352.0	102.5	2
480	361.0	100	3
468	370.0	97.5	4
456	380.0	95	5
444	390.0	92.5	6
432	401.0	90	7

kVA: 300
TYPE: K
Cooling Refroidissement: ANN
Temp. Rise Echauffement: 150 °C
Temp. Class Classe de Temp.: 220 °C
Frequency Fréquence: 60 Hz
Impédance % @ 170 °C: 6.2
LV/BT: 208Y/120V
BIL: -
TERM. BORNES: X0 X1 X2 X3

Wt LBS Poids en lbs.: 2000
Winding Enroulement: AL

Energy Efficiency Economie d'énergie: CSA C802.2-00 NEMA TP 1-2002

SPACINGS BETWEEN ENCLOSURE AND ANY ADJACENT WALL SHALL BE A MINIMUM OF 6 INCHES ELECTROSTATIC SHIELD SUITABLE FOR NON-SINUSOIDAL CURRENT LOAD WITH A K-FACTOR NOT TO EXCEED 13

VERIFIED CSA Energy Performance Rendement Energetique VERIFIE

FIGURE 2.9

HPS Hammond Power Solutions Inc.
GUELPH, ONT. BARABOO, WI COMPTON, CA MONTERREY, MX

SP LR 3902
UL DRY TYPE TRANSFORMER 77U5 E112313 LISTED

THREE PHASE DRY TYPE TRANSFORMER

HV: 480V
BIL: -
TERM. BORNES: H1 H2 H3


VOLTS	CURRENT	% RATED VOLTAGE	CONNECT EACH PHASE
504	573	105	1-2
492	587	102.5	2-3
480	601	100	3-4
468	617	97.5	4-5
456	633	95	5-6
444	650	92.5	6-7
432	668	90	7-8

kVA: 500
TYPE: K
Cooling Refroidissement: ANN
Temp. Rise Echauffement: 150 °C
Temp. Class Classe de Temp.: 220 °C
Frequency Fréquence: 60 Hz
Impédance % @ 170 °C: 5.5
LV: 208Y/120V
BIL: -
TERM. BORNES: X0 X1 X2 X3


Wt. LBS: 2450
Winding Material: AL
Energy Efficiency: CSA C802.2-00 NEMA TP 1-2002

SPACINGS BETWEEN ANY VENTILATED ENCLOSURE PANEL AND ANY ADJACENT WALL SHALL BE A MINIMUM OF 12 INCHES ELECTROSTATIC SHIELD SUITABLE FOR NON-SINUSOIDAL CURRENT LOAD WITH A K-FACTOR NOT TO EXCEED 13

FIGURE 2.10



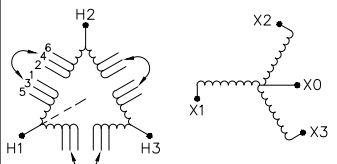
Hammond Power Solutions Inc.
GUELPH, ONT. BARABOO, WI COMPTON, CA MONTERREY, MX



LR 3902
DRY TYPE TRANSFORMER
77U5
E112313
LISTED

HPS SYNERGY
ENERGY EFFICIENT K-FACTOR DISTRIBUTION (ISOLATION) TRANSFORMER

HV/HT	480V			Cust. Ref.	
BIL	-			Serial No.	
TERM. BORNES	H1 H2 H3			Part No.	NMT13K750KBS
	VOLTS	CURRENT COURANT	% RATED VOLTAGE % TENSION NOMINALE	CONNECTION EACH PHASE CONNECTION PAR PHASE	
	504	859	105	1-2	
	492	880	102.5	2-3	
	480	902	100	3-4	
	468	925	97.5	4-5	
	456	950	95	5-6	
LV/BT	208Y/120V			Phase	3
BIL	-			TYPE	K
TERM. BORNES	X0 X1 X2 X3			Cooling Refrroidissement	ANN
				kVA	750
				Temp. Rise Échauffement	150 °C
				Temp. Class Classe de Temp.	220 °C
				Frequency Fréquence	60 Hz
				Impédance % @ 170 °C	6.5
				Encl. Type Type de boîtier	NEMA-3R
				Wt LBS Poids en lbs.	4300
				Winding Enroulement	AL
				Energy Regulations Reglements de Energetique	DOE 10 CFR PART 431 CSA C802.2



SPACINGS BETWEEN ANY VENTILATED ENCLOSURE PANEL AND ANY ADJACENT WALL SHALL BE A MINIMUM OF 12 INCHES SUITABLE FOR NON-SINUSOIDAL CURRENT LOAD WITH A K-FACTOR NOT TO EXCEED 13 ELECTROSTATIC SHIELD

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
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REF. DWG. No.	APPROVED: E. FALK	DATE: 04/16/16	TITLE: STEP DOWN TRANSFORMERS NAMEPLATES	
FILE LOCATION:			DWG No. UD-100509 SHEET 5 OF 10 REV: 0	

FIGURE 3.1

HPS Hammond Power Solutions Inc. UL LISTED DRY TYPE TRANSFORMER 77U5 E112313

GUELPH, ONT. BARABOO, WI COMPTON, CA MONTERREY, MX

THREE PHASE DRY TYPE HARMONIC MITIGATING TRANSFORMER
TRANSFORMATEUR À SEC POUR MITIGATION D' HARMONIQUES

Part No. **H1EM030KB00S** Cust. Ref. _____
 No. de pièce _____ Réf. du client _____

HV/HT **480V** Serial No. _____

TERM. BORNES **H1 H2 H3** Model _____

VOLTS	CURRENT COURANT	% RATED VOLTAGE % TENSION NOMINALE	CONNECTION EACH PHASE CONNEXION PAR PHASE
504	34.4	105	1
492	35.2	102.5	2
480	36.1	100	3
468	37.0	97.5	4
456	38.0	95	5

kVA **30** TYPE **K**

Cooling Refroidissement **ANN**

Temp. Rise Echauffement **130 °C**

Temp. Class Classe de Temp. **220 °C**

Frequency Fréquence **60 Hz**

Impédance % @ 150 °C **3.2**

LV/BT **208Y/120V** Zo % **0.95 MAX**

TERM. BORNES **X1 X2 X3** Encl. Type Type de boîtier **NEMA-3R**

NEUTRAL **200% (X0)** Wt LBS Poids en lbs. **450**

Winding Enroulement **AL**

Energy Efficiency Economie d'Énergie **CSA NEMA**

SPACINGS BETWEEN ENCLOSURE AND ANY ADJACENT WALL SHALL BE A MINIMUM OF 6 INCHES ELECTROSTATIC SHIELD MEETS NEMA TP-1 EFFICIENCY REQUIREMENT

FIGURE 3.2

HPS Hammond Power Solutions Inc. UL LISTED DRY TYPE TRANSFORMER 77U5 E112313

GUELPH, ONT. BARABOO, WI COMPTON, CA MONTERREY, MX

THREE PHASE DRY TYPE HARMONIC MITIGATING TRANSFORMER
TRANSFORMATEUR À SEC POUR MITIGATION D' HARMONIQUES

Part No. **191744** Cust. Ref. _____
 No. de pièce _____ Réf. du client _____

HV/HT **480V** Serial No. _____

TERM. BORNES **H1 H2 H3** Model **CENTURION 1**

VOLTS	CURRENT COURANT	% RATED VOLTAGE % TENSION NOMINALE	CONNECTION EACH PHASE CONNEXION PAR PHASE
504	57.3	105	1
492	58.7	102.5	2
480	60.1	100	3
468	61.7	97.5	4
456	63.3	95	5

kVA **50** TYPE **K**

Cooling Refroidissement **ANN**

Temp. Rise Echauffement **130 °C**

Temp. Class Classe de Temp. **220 °C**

Frequency Fréquence **60 Hz**

Impédance % @ 150 °C **5.5**

LV/BT **208Y/120V** Zo % _____

TERM. BORNES **X1 X2 X3** Encl. Type Type de boîtier **NEMA-3R**

NEUTRAL **X0 (200%)** Wt LBS Poids en lbs. **505**

Winding Enroulement **AL**

Energy Efficiency Economie d'Énergie **CSA NEMA TP 1-2002**

SPACINGS BETWEEN ENCLOSURE AND ANY ADJACENT WALL SHALL BE A MINIMUM OF 6 INCHES ELECTROSTATIC SHIELD MEETS NEMA TP-1 EFFICIENCY REQUIREMENT

FIGURE 3.3

HPS Hammond Power Solutions Inc. UL LISTED DRY TYPE TRANSFORMER 77U5 E112313

GUELPH, ONT. BARABOO, WI COMPTON, CA MONTERREY, MX

THREE PHASE DRY TYPE HARMONIC MITIGATING TRANSFORMER
TRANSFORMATEUR À SEC POUR MITIGATION D' HARMONIQUES

Part No. **H1EM112KB00S** Cust. Ref. _____
 No. de pièce _____ Réf. du client _____

HV/HT **480V** Serial No. _____

TERM. BORNES **H1 H2 H3** Model **CENTURION 1**

VOLTS	CURRENT COURANT	% RATED VOLTAGE % TENSION NOMINALE	CONNECTION EACH PHASE CONNEXION PAR PHASE
504	129.0	105	1
492	132.0	102.5	2
480	135.0	100	3
468	139.0	97.5	4
456	142.0	95	5

kVA **112.5** TYPE **K**

Cooling Refroidissement **ANN**

Temp. Rise Echauffement **130 °C**

Temp. Class Classe de Temp. **220 °C**

Frequency Fréquence **60 Hz**

Impédance % @ 150 °C **3.4**

LV/BT **208Y/120V** Zo % **0.95 MAX**

TERM. BORNES **X1 X2 X3** Encl. Type Type de boîtier **NEMA-3R**

NEUTRAL **X0 (200%)** Wt LBS Poids en lbs. **1100**

Winding Enroulement **CU/AL**

Energy Efficiency Economie d'Énergie **CSA NEMA**

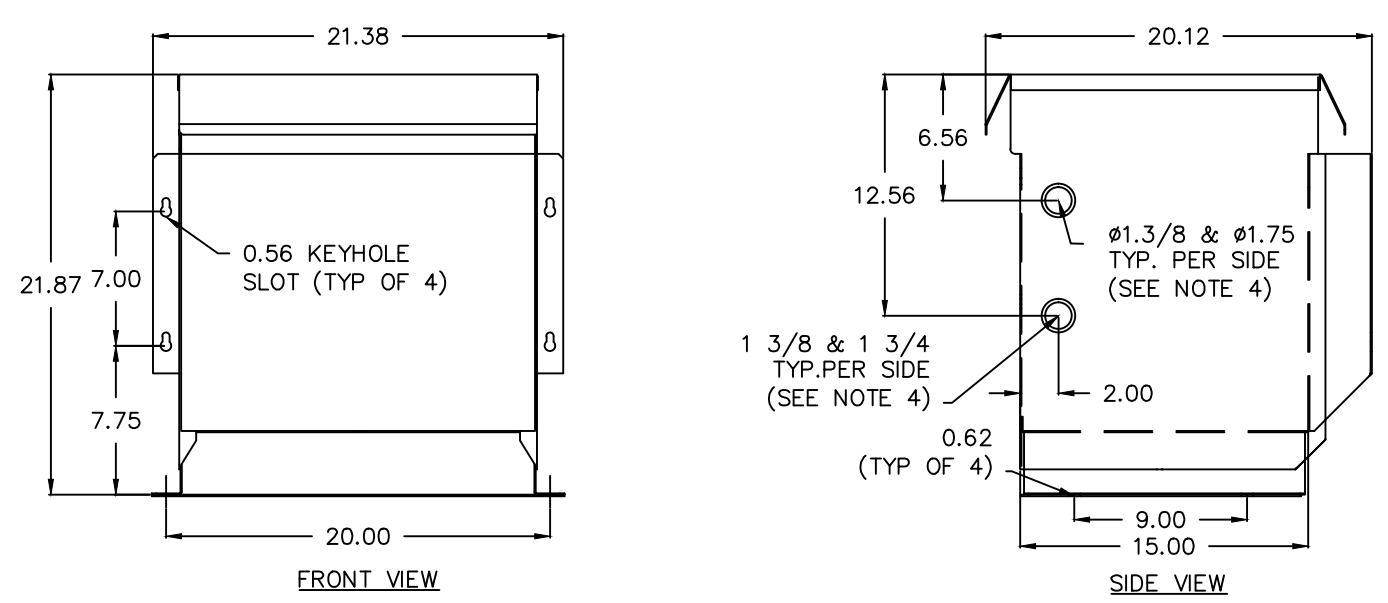
SPACINGS BETWEEN ENCLOSURE AND ANY ADJACENT WALL SHALL BE A MINIMUM OF 6 INCHES ELECTROSTATIC SHIELD MEETS NEMA TP-1 EFFICIENCY REQUIREMENT

TERMINAL DETAIL

- NOTES:**
- NEUTRAL CONNECTIONS ARE THE SAME SIZE AS THE SECONDARY.
 - MECHANICAL LUGS PROVIDED FOR HIGH VOLTAGE CONNECTIONS.
 - MECHANICAL LUGS PROVIDED FOR LOW VOLTAGE CONNECTIONS.
 - NEUTRAL CONNECTIONS ARE (2) #2/0-6 TERMINATED AT TOP FRONT.
 - NEUTRAL CONNECTIONS ARE (2) 250kcmil-2 TERMINATED AT TOP FRONT.
 - NEUTRAL CONNECTIONS ARE (4) 350kcmil-6 TERMINATED AT TOP FRONT.

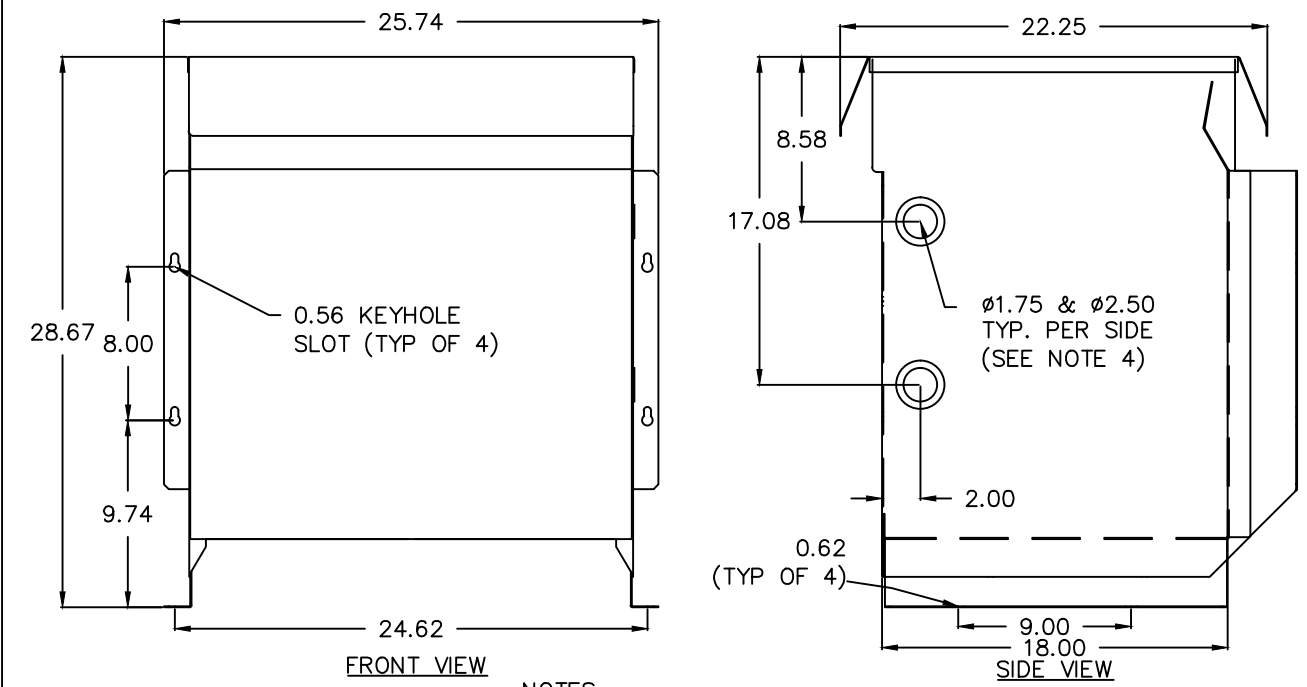
PART NUMBER	KVA	HIGH VOLTAGE			LOW VOLTAGE			NOTES
		LUG/TERMINAL DETAIL	No. CONDUCTORS PER PHASE	WIRE SIZE	LUG/TERMINAL DETAIL	No. CONDUCTORS PER PHASE	WIRE SIZE	
UD100509-015-2YD0N	15	MECHANICAL	1	#14-4 CU/AL	MECHANICAL	1	#2/0-6 CU/AL	1, 2, 3
UD100509-030-2YD0N	30	MECHANICAL	1	#14-4 CU/AL	MECHANICAL	1	#2/0-6 CU/AL	1, 2, 3
UD100509-045-2YD0N	45	MECHANICAL	1	#14-2 CU/AL	MECHANICAL	1	250kcmil-6 CU/AL	1, 2, 3
UD100509-075-2YD0N	75	MECHANICAL	1	#2/0-6 CU/AL	MECHANICAL	1	600kcmil-2 CU/AL	1, 2, 3
UD100509-112-2YD0N	112.5	MECHANICAL	1	250kcmil-6 CU/AL	SEE FIGURE 5.1			1, 2
UD100509-150-2YD0N	150	MECHANICAL	1	350kcmil-6 CU/AL	SEE FIGURE 5.2			1, 2
UD100509-225-2YD0N	225	MECHANICAL	2	350kcmil-6 CU/AL	SEE FIGURE 5.3			1, 2
UD100509-300-2YD0N	300	SEE FIGURE 6.1			SEE FIGURE 5.3			1
UD100509-500-2YD0N	500	SEE FIGURE 6.2			SEE FIGURE 5.4			1
UD100509-750-2YD0N	750	SEE FIGURE 6.2			SEE FIGURE 5.5			1
UD100509-030-2ZD0N	30	MECHANICAL	1	#14-2 CU/AL	MECHANICAL	1	#2/0-6 CU/AL	2, 3, 4
UD100509-050-2ZD0N	50	MECHANICAL	1	#14-2 CU/AL	MECHANICAL	1	250kcmil-6 CU/AL	2, 3, 5
UD100509-112-2ZD0N	112.5	MECHANICAL	1	250kcmil-6 CU/AL	MECHANICAL	2	350kcmil-6 CU/AL	2, 3, 6

FIGURE 4.1



- NOTES:**
- ALL DIMENSIONS IN INCHES.
 - HIGH VOLTAGE TERMINATED AT TOP FRONT.
 - LOW VOLTAGE TERMINATED AT BOTTOM FRONT.
 - KNOCKOUT SIZES ARE ACTUAL DIAMETERS OF KNOCKOUT NOT CONDUIT SIZES.

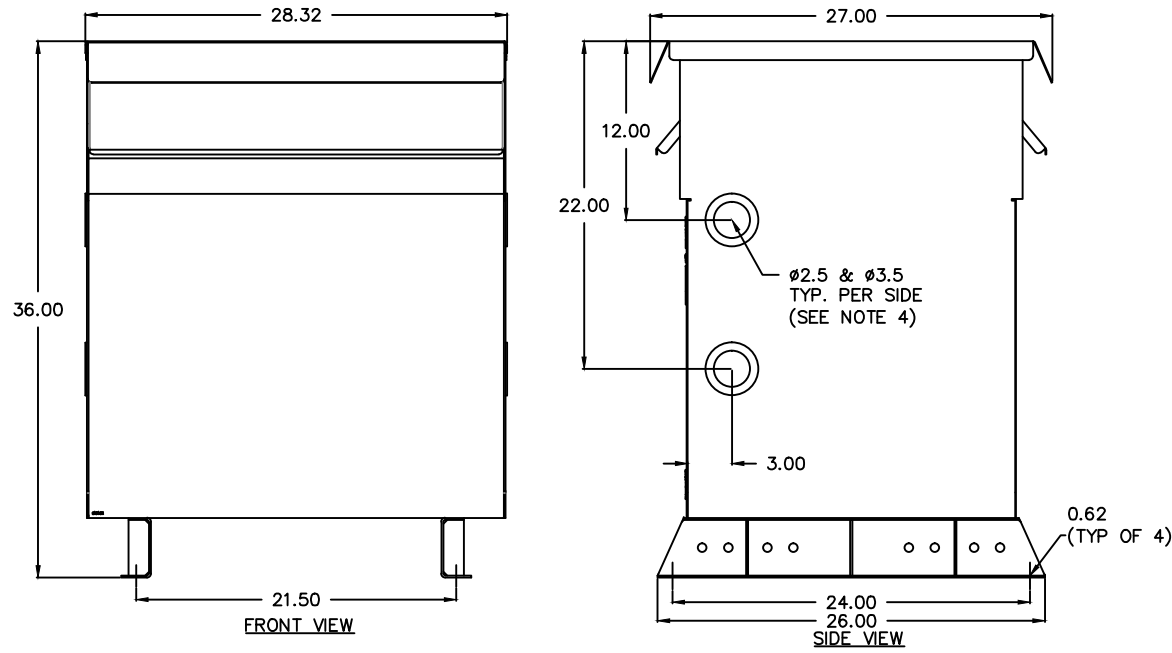
FIGURE 4.2



- NOTES:**
- ALL DIMENSIONS IN INCHES.
 - HIGH VOLTAGE TERMINATED AT TOP FRONT.
 - LOW VOLTAGE TERMINATED AT BOTTOM FRONT.
 - KNOCKOUT SIZES ARE ACTUAL DIAMETERS OF KNOCKOUT NOT CONDUIT SIZES.

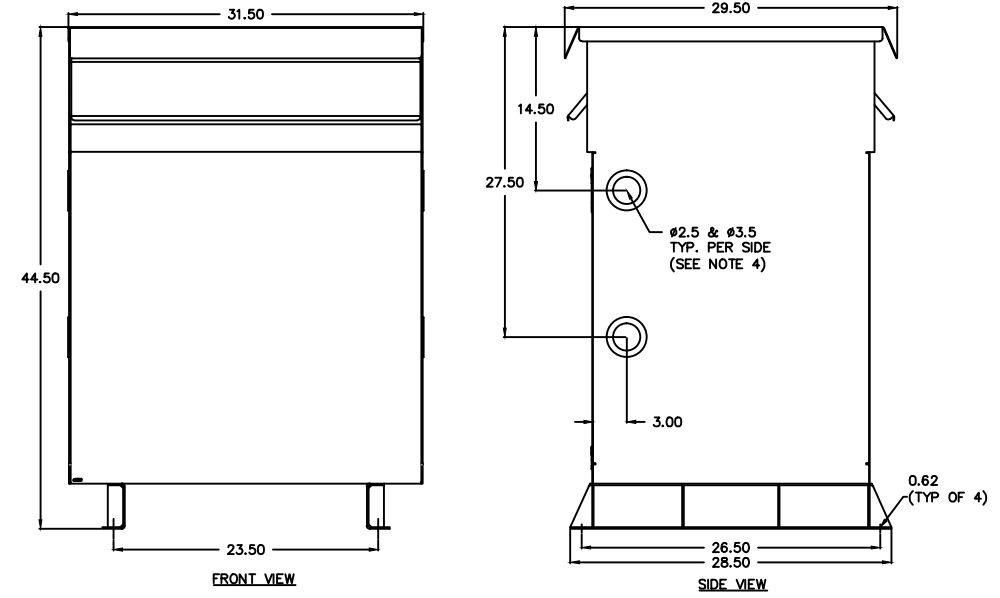
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	FILE LOCATION:						
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FIGURE 4.3



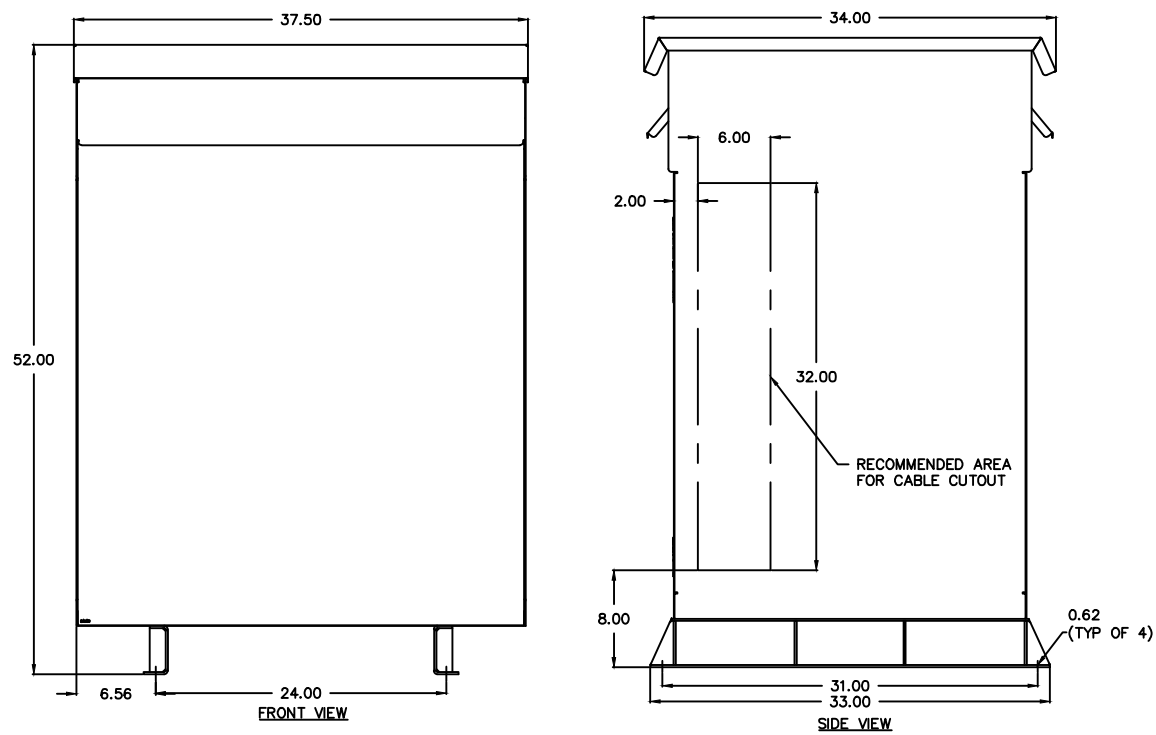
- NOTES:**
1. ALL DIMENSIONS IN INCHES.
 2. HIGH VOLTAGE TERMINATED AT TOP FRONT.
 3. LOW VOLTAGE TERMINATED AT BOTTOM FRONT.
 4. KNOCKOUT SIZES ARE ACTUAL DIAMETERS OF KNOCKOUT NOT CONDUIT SIZES.

FIGURE 4.4



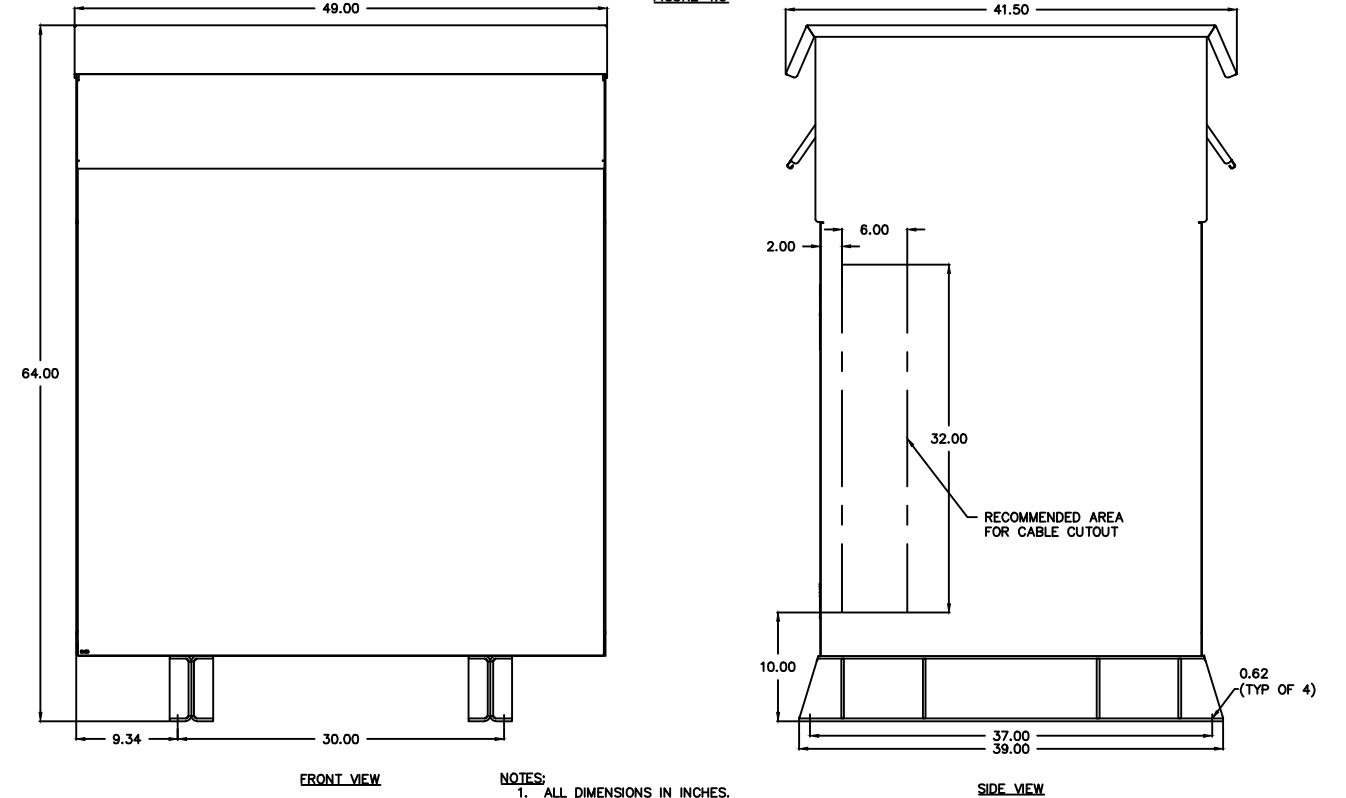
- NOTES:**
1. ALL DIMENSIONS IN INCHES.
 2. HIGH VOLTAGE TERMINATED AT TOP FRONT.
 3. LOW VOLTAGE TERMINATED AT BOTTOM FRONT.
 4. KNOCKOUT SIZES ARE ACTUAL DIAMETERS OF KNOCKOUT NOT CONDUIT SIZES.

FIGURE 4.5



- NOTES:**
1. ALL DIMENSIONS IN INCHES.
 2. HIGH VOLTAGE TERMINATED AT TOP FRONT.
 3. LOW VOLTAGE TERMINATED AT BOTTOM FRONT.

FIGURE 4.6

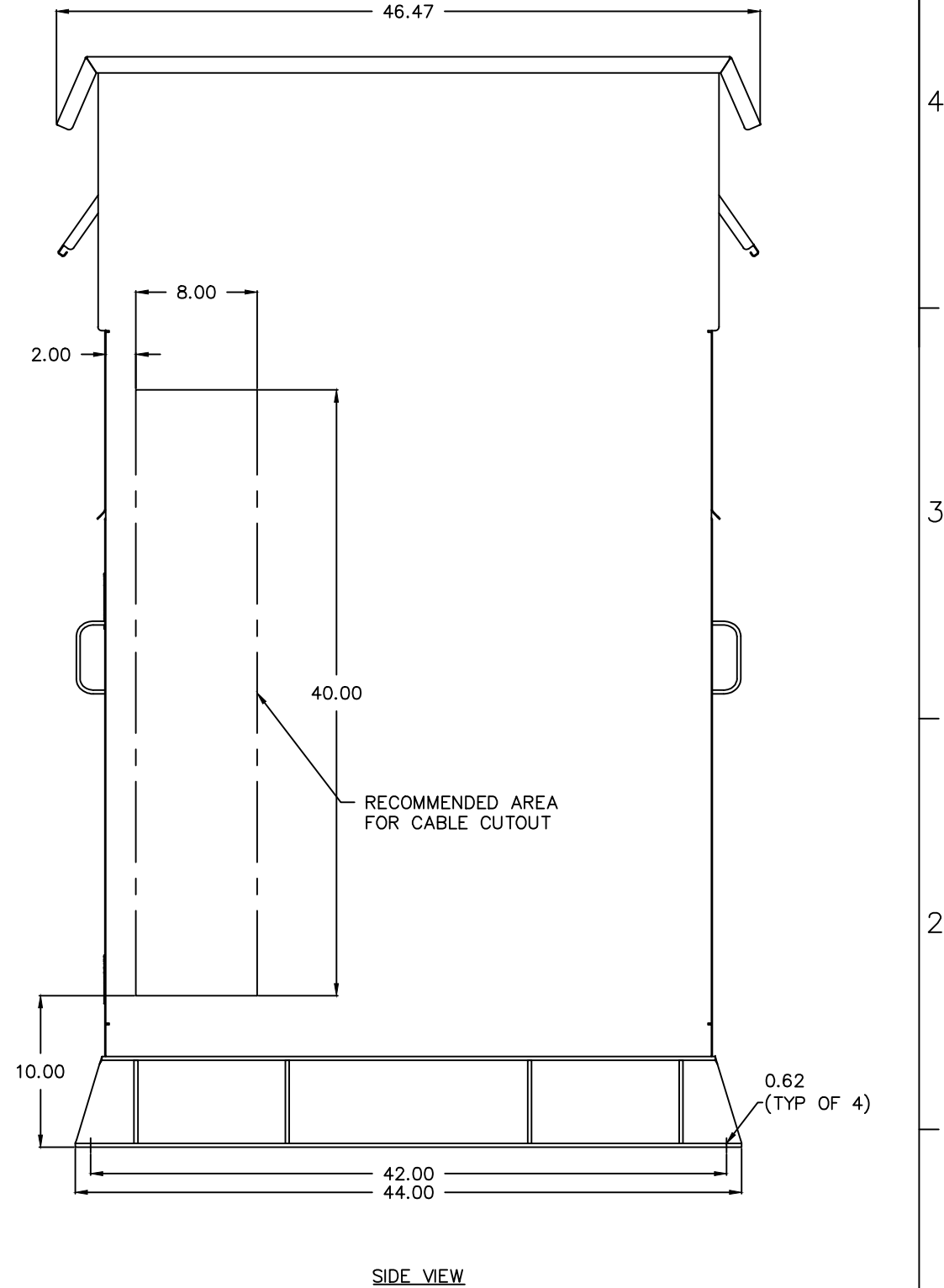
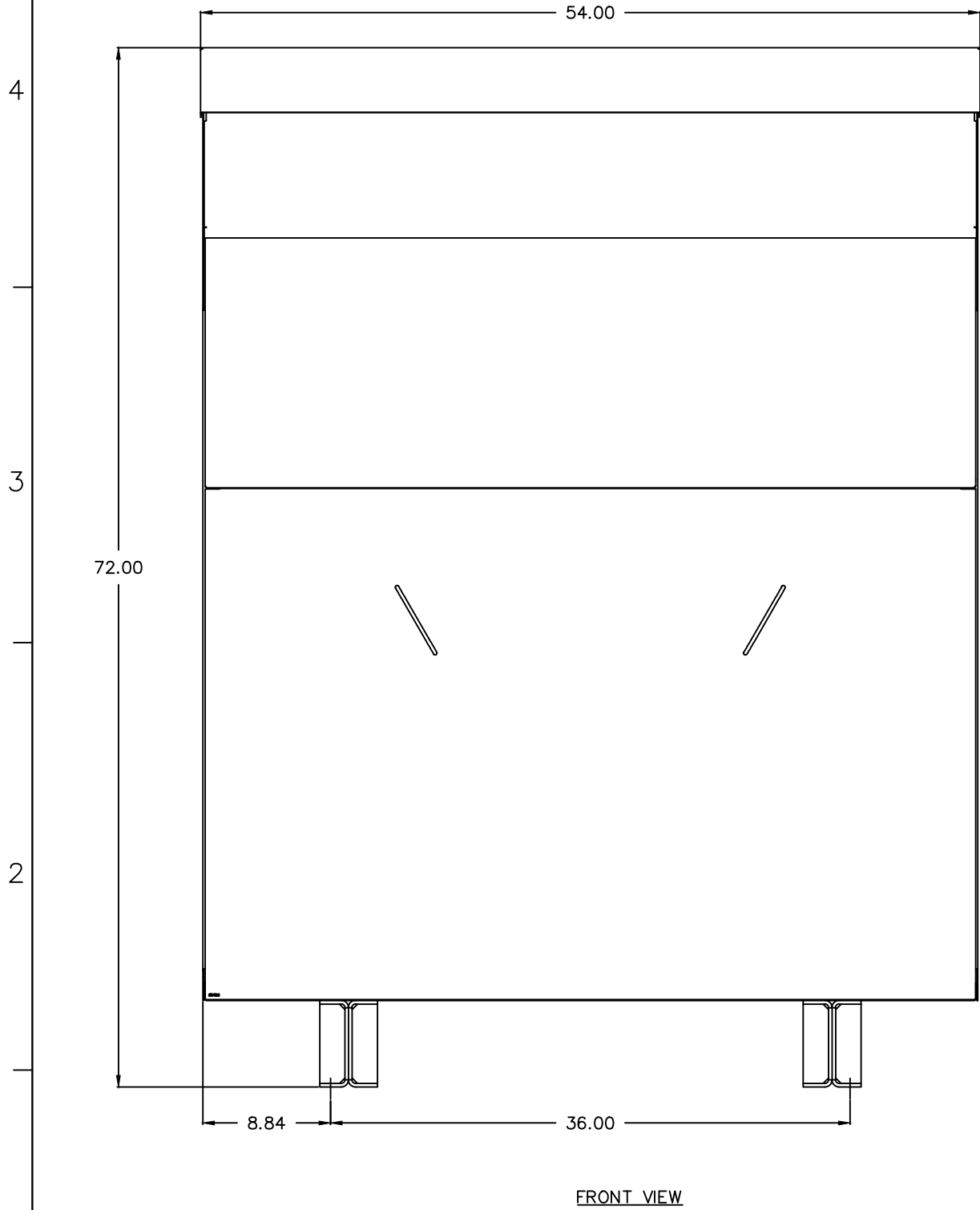


- NOTES:**
1. ALL DIMENSIONS IN INCHES.
 2. HIGH VOLTAGE TERMINATED AT TOP FRONT.
 3. LOW VOLTAGE TERMINATED AT BOTTOM FRONT.

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FILE LOCATION:				

FIGURE 4.7

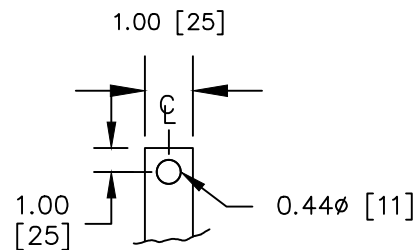


- NOTES:
1. ALL DIMENSIONS IN INCHES.
 2. HIGH VOLTAGE TERMINATED AT TOP FRONT.
 3. LOW VOLTAGE TERMINATED AT BOTTOM FRONT.

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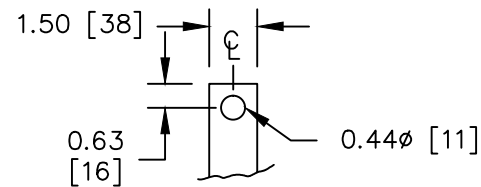
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REF. DWG. No.		ENGINEER: E. FALK	DATE: 04/16/16	
		APPROVED: E. FALK	DATE: 04/16/16	
FILE LOCATION:				REV: 0

FIGURE 5.1



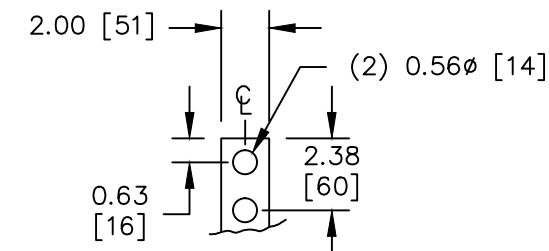
- NOTES:
1. ALL DIMENSIONS IN INCHES [MM].
 2. MATERIAL: 1/4" [6] THICK ALUMINUM.

FIGURE 5.2



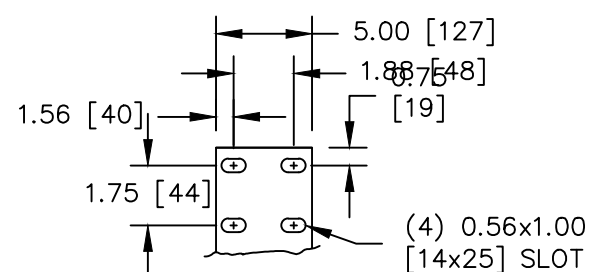
- NOTES:
1. ALL DIMENSIONS IN INCHES [MM].
 2. MATERIAL: 1/4" [6] THICK ALUMINUM.

FIGURE 5.3



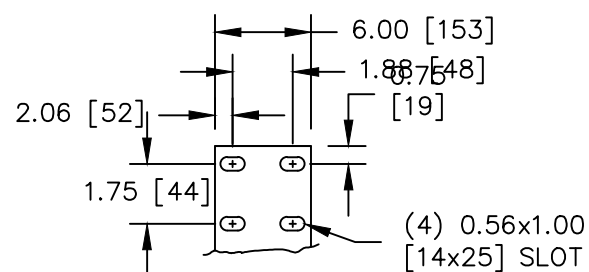
- NOTES:
1. ALL DIMENSIONS IN INCHES [MM].
 2. MATERIAL: 3/8" [9] THICK ALUMINUM.
 3. NEMA 1 3/4" LUG HOLE SPACING.

FIGURE 5.4



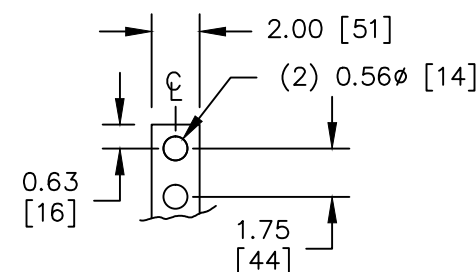
- NOTES:
1. ALL DIMENSIONS IN INCHES [MM].
 2. MATERIAL: 1/4" [6] THICK ALUMINUM.

FIGURE 5.5



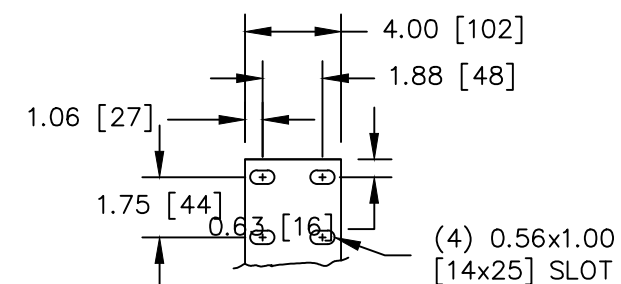
- NOTES:
1. ALL DIMENSIONS IN INCHES [MM].
 2. MATERIAL: 3/8" [10] THICK ALUMINUM.

FIGURE 6.1



- NOTES:
1. ALL DIMENSIONS IN INCHES [MM].
 2. MATERIAL: 1/4" [6] THICK ALUMINUM.
 3. NEMA 1 3/4" LUG HOLE SPACING.

FIGURE 6.2



- NOTES:
1. ALL DIMENSIONS IN INCHES [MM].
 2. MATERIAL: 1/4" [6] THICK ALUMINUM.

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4/15/2016

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