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WINDCHILL VERSION

D.6

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NOTES:

- CONTROL PANEL, (OPTIONAL BATTERY CHARGER INSIDE).
- 120V, 20A GFCI & 250V, 15A OUTLET (OPTIONAL).
- CONNECTION POINTS FOR CONTROL WIRES PROVIDED IN THE LOW VOLTAGE CONNECTION BOX (USE LOW VOLTAGE STUB-UP AREA).
- BATTERY (24 VOLT NEGATIVE GROUND SYSTEM).
- MAIN LINE CIRCUIT BREAKER (MLCB), AC LOAD LEADS. (DIMENSIONS MAY VARY DUE TO UNIT CONFIGURATION)
- CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
- ENGINE SERVICE CONNECTIONS:
  - INLET NATURA GAS = 2" NPT FEMALE COUPLING (STANDARD OPT), 3" NPT FEMALE COUPLING (LOW FUEL PRESSURE OPT)
  - INLET DIESEL = N/A
  - RETURN DIESEL = N/A
  - OIL DRAIN = 1/2" NPT FEMALE COUPLING
  - RADIATOR DRAIN = 1/2" NPT FEMALE COUPLING
  - EXHAUST FLEX PIPE OUTLET = 3.5" I.D. SAE FLANGE
  - CATALYST INLET/OUTLET = 5" I.D. SAE FLANGE
  - ELBOW INLET = 3.5" I.D. SAE FLANGE
  - ELBOW OUTLET = 5" I.D. SAE FLANGE
- \*\*\*\*\* SEE GENERATOR SIZING GUIDE FOR FUEL PIPE SIZING TO SUIT APPLICATION \*\*\*\*\*
- AUXILIARY AC CONNECTION FOR UNIT OPTIONS ARE LOCATED IN HIGH VOLTAGE CONNECTION BOX, UNLESS AN OPTIONAL LOAD CENTER IS INSTALLED.
- EXHAUST PIPES MAY BE ROTATED TO ALLOW MUFFLER TO POINT OUT TO THE RIGHT OR LEFT SIDE OF GENERATOR. (MAY NOT APPLY TO ALL UNITS)
- GENERATOR SET MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND DISCHARGE AIR FROM THE RADIATOR IS NOT RECIRCULATED.
- BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
- IF USED, INSTALL EXHAUST BLANKETS (SUPPLIED BY OTHERS) ALONG THIS LINE. O<sub>2</sub> SENSOR TO BE PLACED THIS DISTANCE FROM TURBO FLANGE. BLANKETS MUST HAVE MINIMUM CONTINUOUS OPERATING TEMPERATURE OF 1500° F [816° C].
- CONNECT THE OPEN SET EXHAUST PER NFPA 37
- BLANKETS SHOULD NOT COVER OXYGEN SENSOR.
- OXYGEN SENSOR MUST BE MOUNTED BETWEEN ENGINE OUTLET AND CATALYST INLET AS SHOWN. IF ELBOWS ARE REQUIRED, ONLY TWO ELBOWS PER EXHAUST LINE MAY BE USED. OXYGEN SENSOR MUST BE LOCATED AT LEAST 508MM [20IN] DOWNSTREAM OF ANY ELBOW. PIPES WITH SMALLER DIAMETERS THAN THOSE OF THE PIPES PROVIDED MAY NOT BE USED.
- CATALYZED SILENCER (FOR EPA UNITS) MUST BE MOUNTED IN DESCRIBED POSITION. FAILING TO FOLLOW THESE INSTRUCTIONS WHEN INSTALLING A CERTIFIED ENGINE IN A PIECE OF STATIONARY EQUIPMENT VIOLATES FEDERAL LAW 40 CFR 1068. 105(B), SUBJECT TO FINES OR PENALTIES AS DESCRIBED IN THE CLEAN AIR ACT.
- BOLTS OR STUDS USED TO MOUNT UNIT TO PAD, OR BASE TANK, SHALL BE 5/8"-11 GRADE 5. USE STANDARD SAE TORQUE SPECS. (FOR INSTALLATION OF FUEL TANK TO PAD REFER TO INSTALL DRAWING OF THE BASE TANK)

ADDITIONAL NOTES:

FOR WEIGHT AND CENTER OF GRAVITY DATA SEE NOTE 6, AND SHEET 3.

TABLE 1 - DIMENSIONS

| DIM | OPEN SET & STD, L1A & L2A ENCLOSURE | LEVEL L3A ENCLOSURE |
|-----|-------------------------------------|---------------------|
| A   | 376 [14.8]                          | 681 [26.8]          |
| B   | 2565 [101.0]                        | 2573 [101.3]        |
| D   | 1497 [58.9]                         | 1802 [70.9]         |
| E   | 1532 [60.3]                         | 1837 [72.3]         |

NOTE: OPEN SET FRAME LEVEL 0, 1 &amp; 2 SHOWN

TABLE 2 - MLCB HEIGHTS

| DIM | STANDARD (SG) | MULTIPLE (SG) | MPS (MG)    |
|-----|---------------|---------------|-------------|
| C   | 923 [36.31]   | 923 [36.3]    | 1210 [47.6] |

NOTES:

- TWO OPTIONAL BREAKERS SHOWN
- MLCB HEIGHT MAY VARY BASED ON AMPERAGE SIZE.

DIMENSIONS ARE IN MILLIMETERS [INCHES]

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ELECTRONICALLY APPROVED  
INSIDE WINDCHILL**GENERAC**

TITLE

OPEN SET W/POWERZONE  
G25.8L, 60HZ: SG500, PG450  
50HZ: SG400, PG360

ISSUE DATE:

| SIZE  | CAGE NO | DWG NO      | REV    |
|-------|---------|-------------|--------|
| B     | N/A     | 10000038218 | D      |
| SCALE | 0.030   | WT-KG       | N/A    |
|       |         | SHEET       | 1 of 4 |

**INSTALLATION DRAWING**

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WINDCHILL VERSION

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RECOMMENDED ELECTRICAL STUB-UP

(HIGH VOLTAGE STUB-UP)  
AC LOAD LEAD CONDUIT FOR  
PERMANENT MAGNET EXCITATION  
CONNECTION BOX

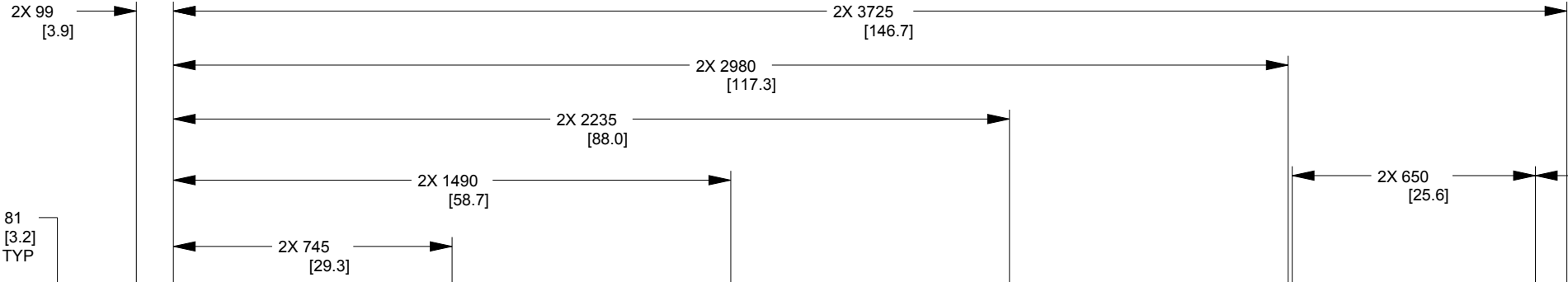
(LOW VOLTAGE STUB-UP)

B

B

A

A



SECONDARY HIGH VOLTAGE STUB-UP AREA (OPTIONAL) W/ GLAND PLATE

2X 306 [12.0]

2X 200 [7.9]

SECONDARY CB CONNECTION BOX OPENING (OPTIONAL)

582 [22.9]

PRIMARY CB CONNECTION BOX OPENING

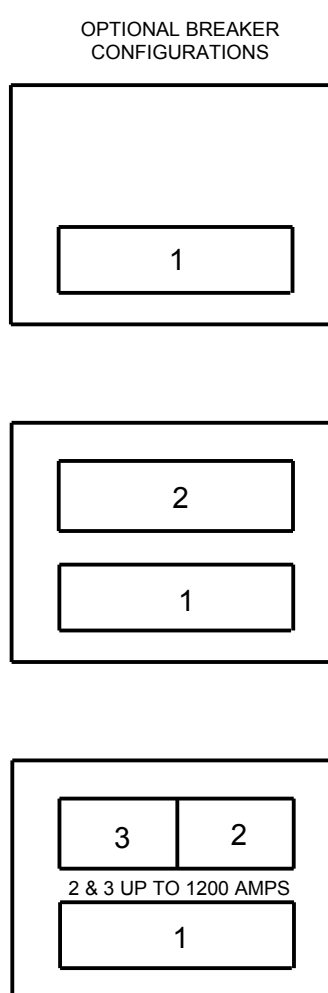
PRIMARY HIGH VOLTAGE STUB-UP AREA W/ GLAND PLATE

2X 479 [18.9]

Ø 16.7 [66] MOUNTING HOLES (12 PLACES) (SEE NOTE 18)

LOW VOLTAGE STUB-UP AREA SURFACE MOUNTED (SEE NOTE 3)

775 [30.5] OPEN AREA FOR STUB-UP



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DIMENSIONS ARE IN MILLIMETERS [INCHES]

**GENERAC**

TITLE  
STUB-UP VIEW FRAME: STD, L1A & L2A  
G25.8L, 60HZ: SG500, PG450  
50HZ: SG400, PG360

ISSUE DATE:

|                |                |                       |          |
|----------------|----------------|-----------------------|----------|
| SIZE<br>B      | CAGE NO<br>N/A | DWG NO<br>10000038218 | REV<br>D |
| SCALE<br>0.030 | WT-KG<br>N/A   | SHEET<br>2 of 4       |          |

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INSIDE WINDCHILL

# INSTALLATION DRAWING

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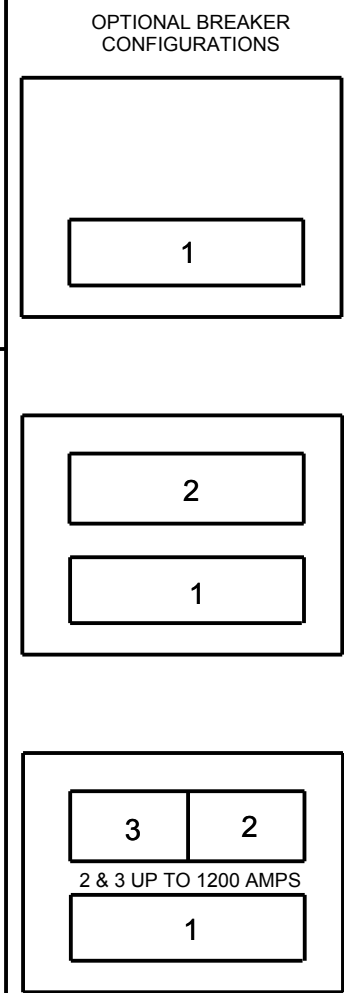
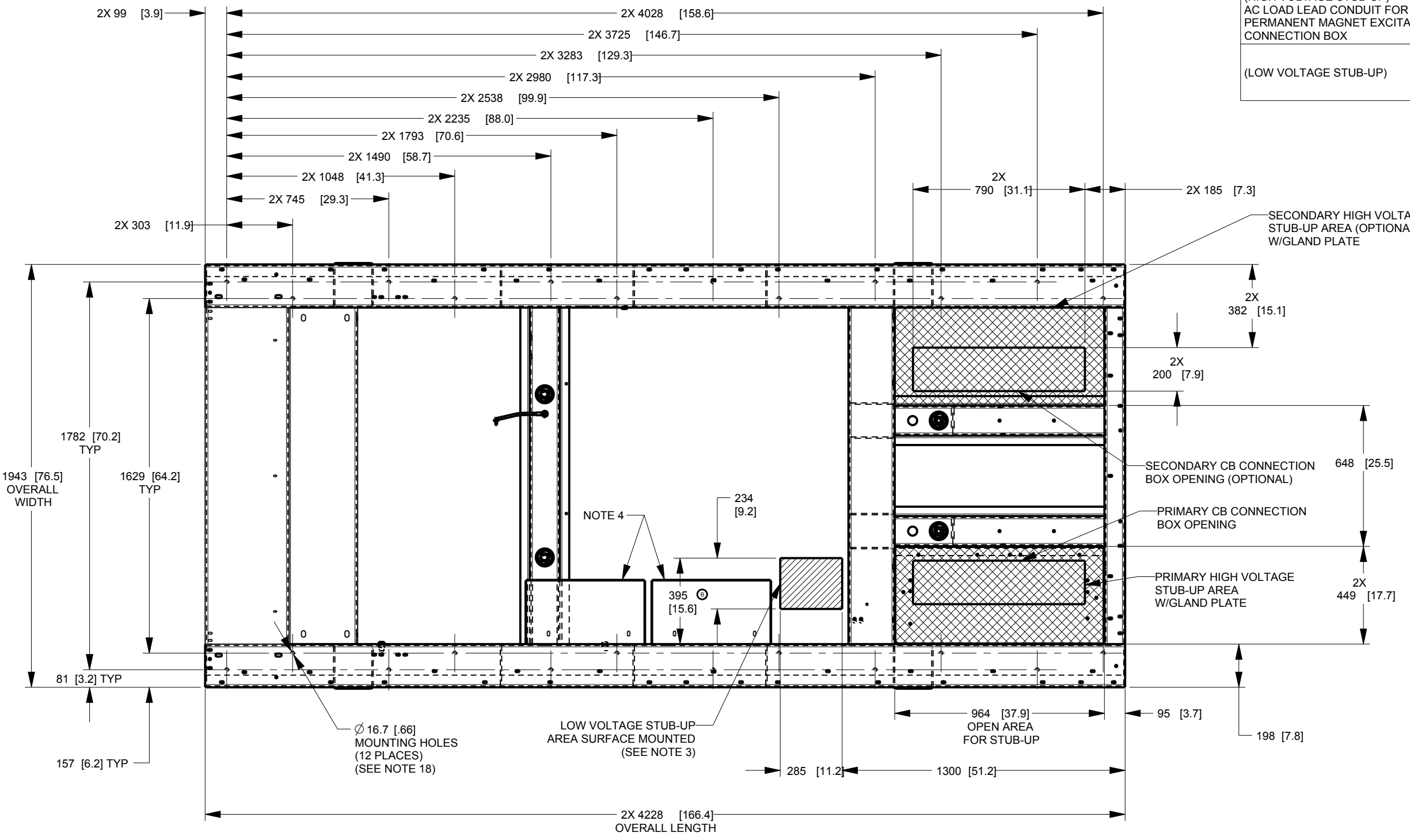
|   |  |
|---|--|
| RECOMMENDED ELECTRICAL STUB-UP  |  |
| (HIGH VOLTAGE STUB-UP)<br>AC LOAD LEAD CONDUIT FOR<br>PERMANENT MAGNET EXCITATION<br>CONNECTION BOX |  |
| (LOW VOLTAGE STUB-UP)   |  |

B

B

A

A



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INSIDE WINDCHILL



|   |                |                       |          |        |
|---|----------------|-----------------------|----------|--------|
| TITLE   |                |                       |          |        |
| STUB-UP VIEW: L3A FRAME<br>G25.8L, 60 Hz: SG500, PG450<br>50 Hz: SG400, PG360 |                |                       |          |        |
| ISSUE DATE:   |                |                       |          |        |
| SIZE<br>B   | CAGE NO<br>N/A | DWG NO<br>10000038218 | REV<br>D |        |
| SCALE<br>0.050  | WT-KG          | 1240.248              | SHEET    | 3 of 4 |

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WINDCHILL VERSION

D.6

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OPEN SET

| MODEL             | VOLTAGE                                   | WEIGHT             | CENTER OF GRAVITY DIM X | CENTER OF GRAVITY DIM Y | CENTER OF GRAVITY DIM Z |
|-------------------|---|--------------------|-------------------------|-------------------------|-------------------------|
| SG/MG 500, PG 450 | 208V,240V,400V,480V & 600V                | 4257 kg [9386 lbs] | 1957 [77.0]             | 687 [27.0]              | 837 [33.0]              |
| SG/MG 500, PG 450 | 208V,240V,400V,480V & 600V<br>UPSIZED ALT | 4417 kg [9739 lbs] | 1915 [75.3]             | 662 [26.0]              | 837 [33.0]              |

NOTE:  
CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.

STD ENCLOSURE, STEEL

| MODEL             | VOLTAGE                                   | WEIGHT               | CENTER OF GRAVITY DIM X | CENTER OF GRAVITY DIM Y | CENTER OF GRAVITY DIM Z |
|-------------------|---|----------------------|-------------------------|-------------------------|-------------------------|
| SG/MG 500, PG 450 | 208V,240V,400V,480V & 600V                | 5250 kg [11,576 lbs] | 2173 [85.5]             | 795 [31.3]              | 838 [33.0]              |
| SG/MG 500, PG 450 | 208V,240V,400V,480V & 600V<br>UPSIZED ALT | 5410 kg [11,929 lbs] | 2141 [84.3]             | 788 [31.0]              | 838 [33.0]              |

STD ENCLOSURE, ALUMINUM

| WEIGHT              | CENTER OF GRAVITY DIM "X" | CENTER OF GRAVITY DIM "Y" | CENTER OF GRAVITY DIM "Z" |
|---------------------|---------------------------|---------------------------|---------------------------|
| 4757kg [10,489 lbs] | 2098 [82.6]               | 748 [29.4]                | 838 [33.0]                |
| 4917kg [10,841 lbs] | 2065 [81.3]               | 743 [29.2]                | 838 [33.0]                |

L1A ENCLOSURE, STEEL

| MODEL             | VOLTAGE                                   | WEIGHT               | CENTER OF GRAVITY DIM X | CENTER OF GRAVITY DIM Y | CENTER OF GRAVITY DIM Z |
|-------------------|---|----------------------|-------------------------|-------------------------|-------------------------|
| SG/MG 500, PG 450 | 208V,240V,400V,480V & 600V                | 5707 kg [12,583 lbs] | 2021 [79.5]             | 822 [32.3]              | 841 [33.1]              |
| SG/MG 500, PG 450 | 208V,240V,400V,480V & 600V<br>UPSIZED ALT | 5867 kg [12,936 lbs] | 1996 [78.5]             | 815 [32.0]              | 841 [33.1]              |

L1A ENCLOSURE, ALUMINUM

| WEIGHT              | CENTER OF GRAVITY DIM "X" | CENTER OF GRAVITY DIM "Y" | CENTER OF GRAVITY DIM "Z" |
|---------------------|---------------------------|---------------------------|---------------------------|
| 4953kg [10,921 lbs] | 2024 [79.6]               | 764 [30.0]                | 839 [33.0]                |
| 5113kg [11,274 lbs] | 1995 [78.5]               | 758 [29.8]                | 839 [33.0]                |

L2A ENCLOSURE, STEEL

| MODEL             | VOLTAGE                                   | WEIGHT               | CENTER OF GRAVITY DIM X | CENTER OF GRAVITY DIM Y | CENTER OF GRAVITY DIM Z |
|-------------------|---|----------------------|-------------------------|-------------------------|-------------------------|
| SG/MG 500, PG 450 | 208V,240V,400V,480V & 600V                | 5860 kg [12,921 lbs] | 2205 [86.8]             | 975 [38.3]              | 837 [33.0]              |
| SG/MG 500, PG 450 | 208V,240V,400V,480V & 600V<br>UPSIZED ALT | 6020 kg [13,274 lbs] | 2175 [85.6]             | 963 [37.9]              | 837 [33.0]              |

L2A ENCLOSURE, ALUMINUM

| WEIGHT              | CENTER OF GRAVITY DIM "X" | CENTER OF GRAVITY DIM "Y" | CENTER OF GRAVITY DIM "Z" |
|---------------------|---------------------------|---------------------------|---------------------------|
| 5019kg [11,066 lbs] | 2119 [83.4]               | 843 [33.1]                | 837 [33.0]                |
| 5179kg [11,419 lbs] | 2087 [82.1]               | 835 [32.8]                | 837 [33.0]                |

L2A MOTORIZED DAMPER ENCLOSURE, STEEL

| MODEL             | VOLTAGE                                   | WEIGHT               | CENTER OF GRAVITY DIM X | CENTER OF GRAVITY DIM Y | CENTER OF GRAVITY DIM Z |
|-------------------|---|----------------------|-------------------------|-------------------------|-------------------------|
| SG/MG 500, PG 450 | 208V,240V,400V,480V & 600V                | 6034 kg [13,304 lbs] | 2205 [86.8]             | 975 [38.3]              | 837 [33.0]              |
| SG/MG 500, PG 450 | 208V,240V,400V,480V & 600V<br>UPSIZED ALT | 6195 kg [13,658 lbs] | 2175 [85.6]             | 963 [37.9]              | 837 [33.0]              |

L2A MOTORIZED DAMPER ENCLOSURE, ALUMINUM

| WEIGHT              | CENTER OF GRAVITY DIM "X" | CENTER OF GRAVITY DIM "Y" | CENTER OF GRAVITY DIM "Z" |
|---------------------|---------------------------|---------------------------|---------------------------|
| 5086kg [11,213 lbs] | 2119 [83.4]               | 843 [33.1]                | 837 [33.0]                |
| 5246kg [11,565 lbs] | 2087 [82.1]               | 835 [32.8]                | 837 [33.0]                |

L3A ENCLOSURE, STEEL

| MODEL             | VOLTAGE                    | WEIGHT              | CENTER OF GRAVITY DIM X | CENTER OF GRAVITY DIM Y | CENTER OF GRAVITY DIM Z |
|-------------------|----------------------------|---------------------|-------------------------|-------------------------|-------------------------|
| SG/MG 500, PG 450 | 208V,240V,400V,480V & 600V | 7233kg [15,950 lbs] | 2235 [88.0]             | 972 [38.0]              | 914 [36.0]              |

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TITLE  
WEIGHT & CENTER OF GRAVITY  
G25.8L, 60HZ: SG500, PG450  
50HZ: SG400, PG360

ISSUE DATE:

|           |                |                       |          |
|-----------|----------------|-----------------------|----------|
| SIZE<br>B | CAGE NO<br>N/A | DWG NO<br>10000038218 | REV<br>D |
|-----------|----------------|-----------------------|----------|

|                |              |                 |
|----------------|--------------|-----------------|
| SCALE<br>0.030 | WT-KG<br>N/A | SHEET<br>4 of 4 |
|----------------|--------------|-----------------|

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INSIDE WINDCHILL

# INSTALLATION DRAWING

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