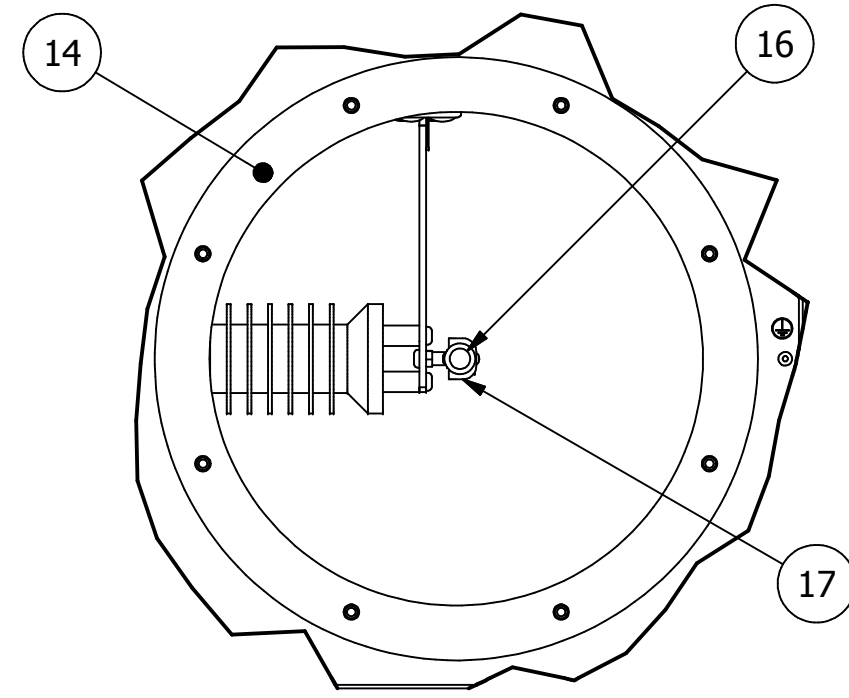
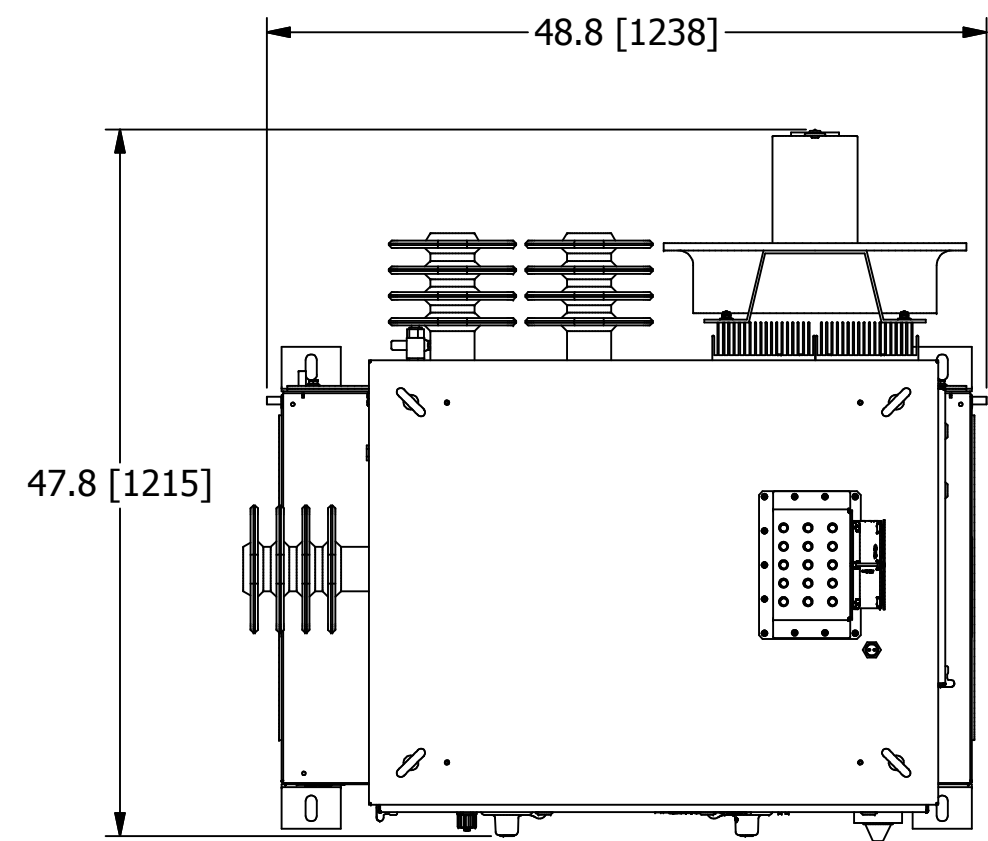


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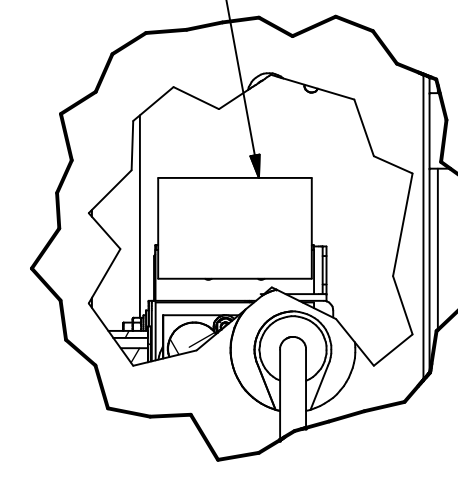


DETAIL A
SCALE 1 / 7

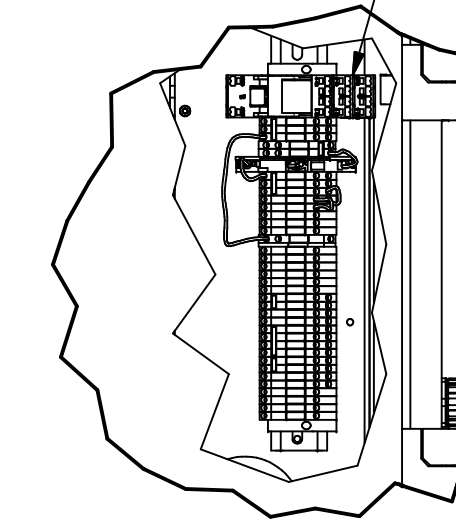


TOP

3 PHASE CIRCUIT BREAKER PER DWG ESPELECT-06
TABS TO ACCEPT 3/8" LUGS, TORQUE TO 80in.-lbs.

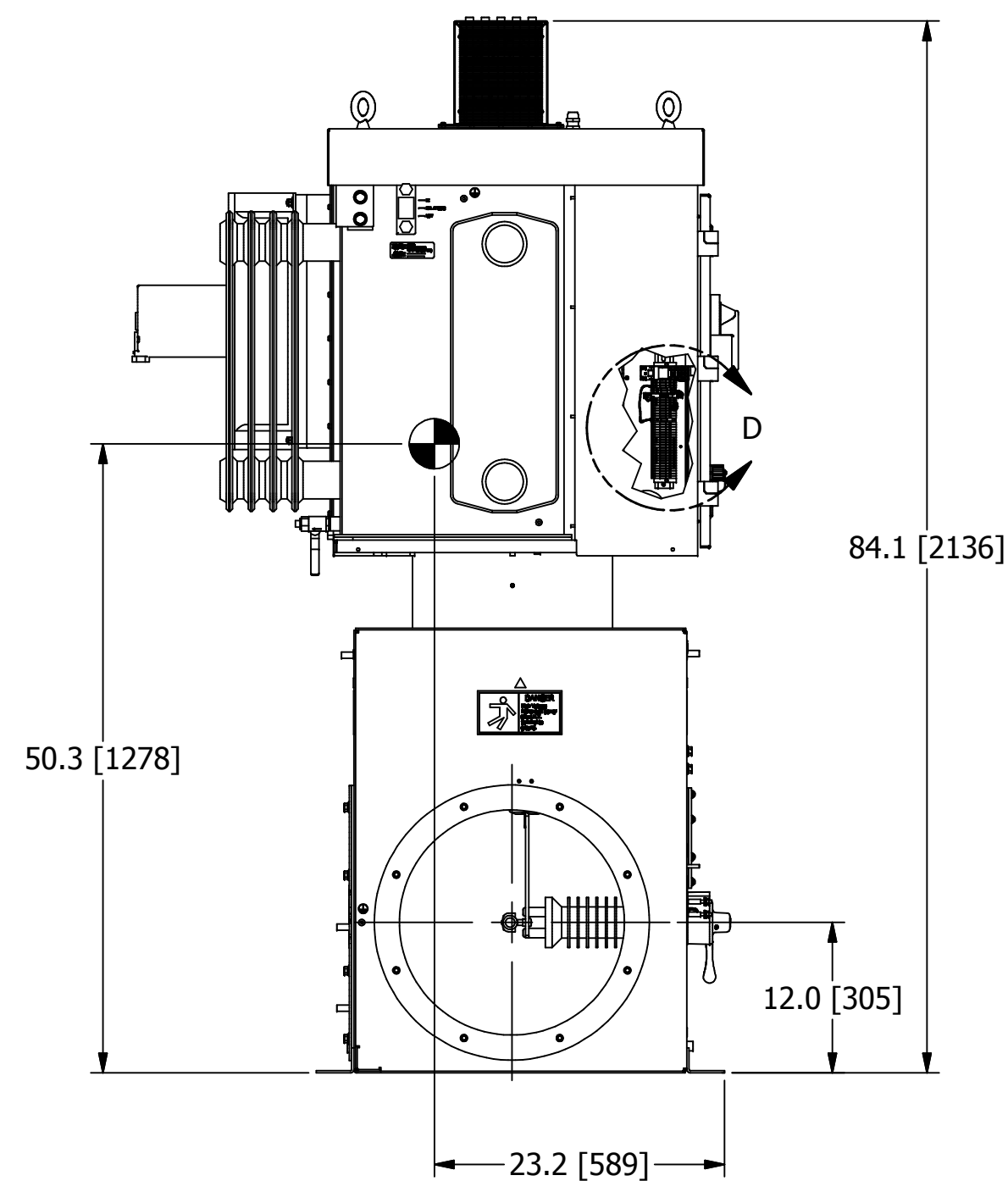
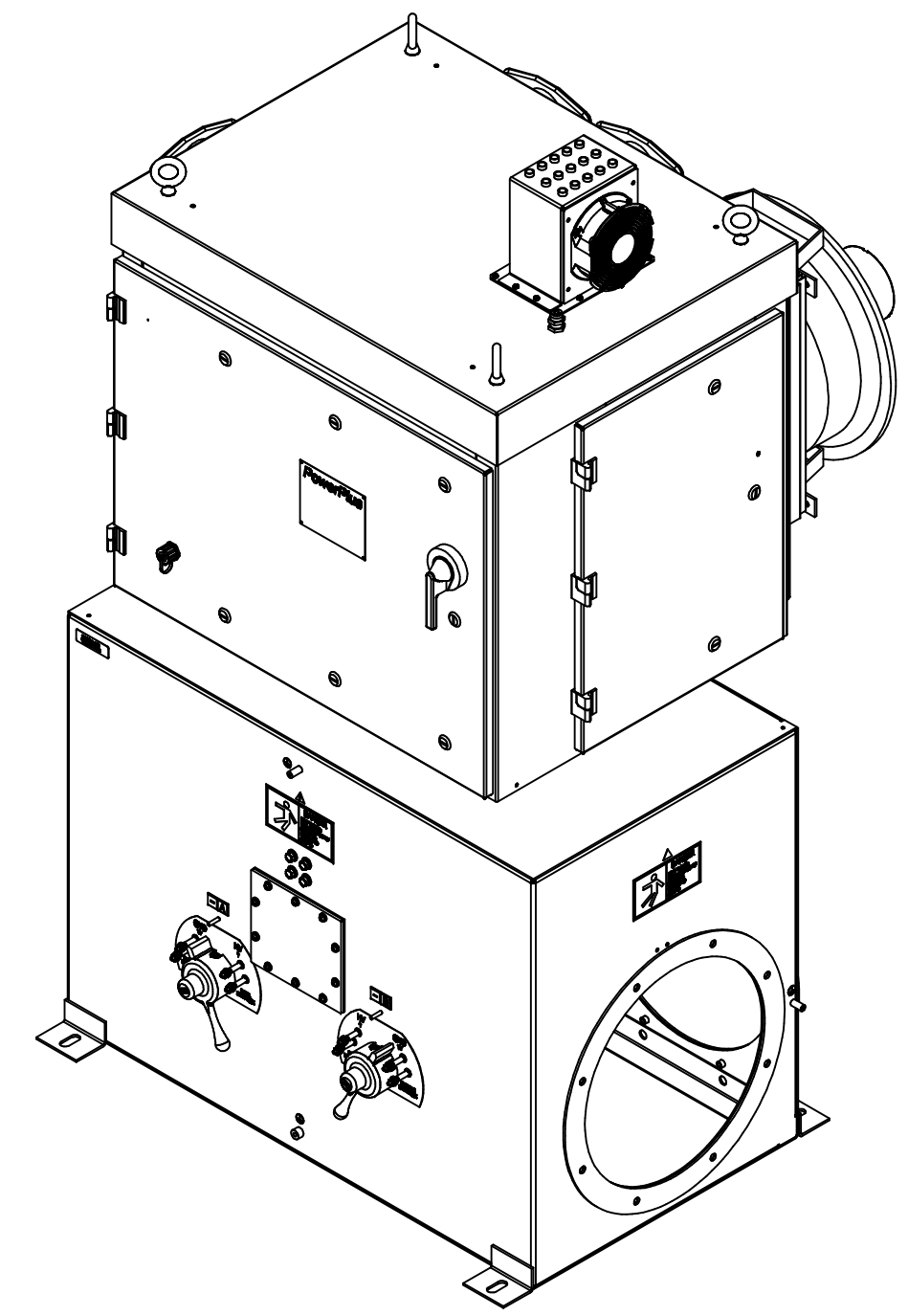


DETAIL C
CIRCUIT BREAKER DETAIL
SCALE 1 / 5

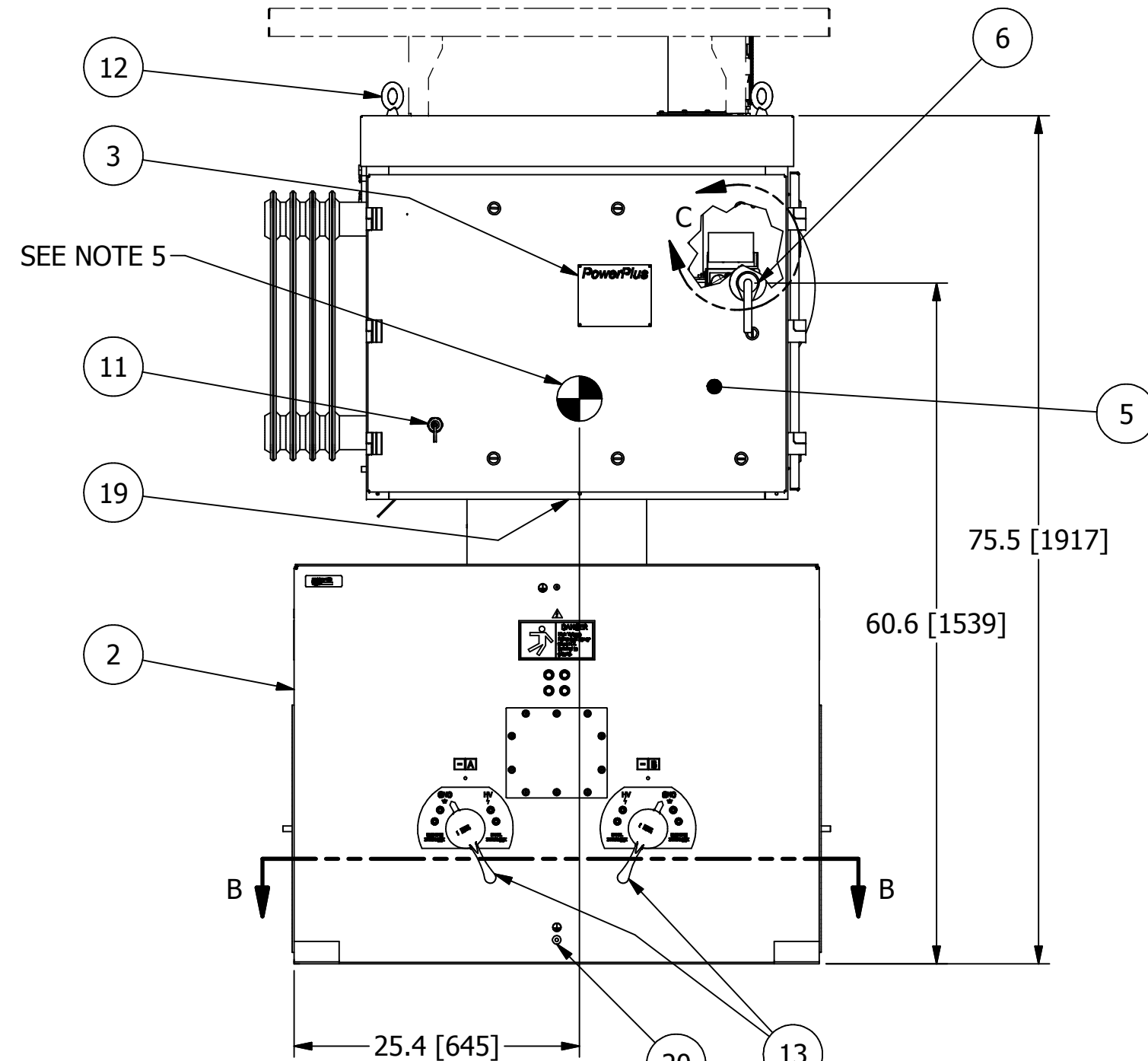


DETAIL D
'2TB' TERMINAL BLOCK RAIL ASSY
SCALE 1 / 5

FOR DETAILS REFER TO
DWG ESPELECT-06

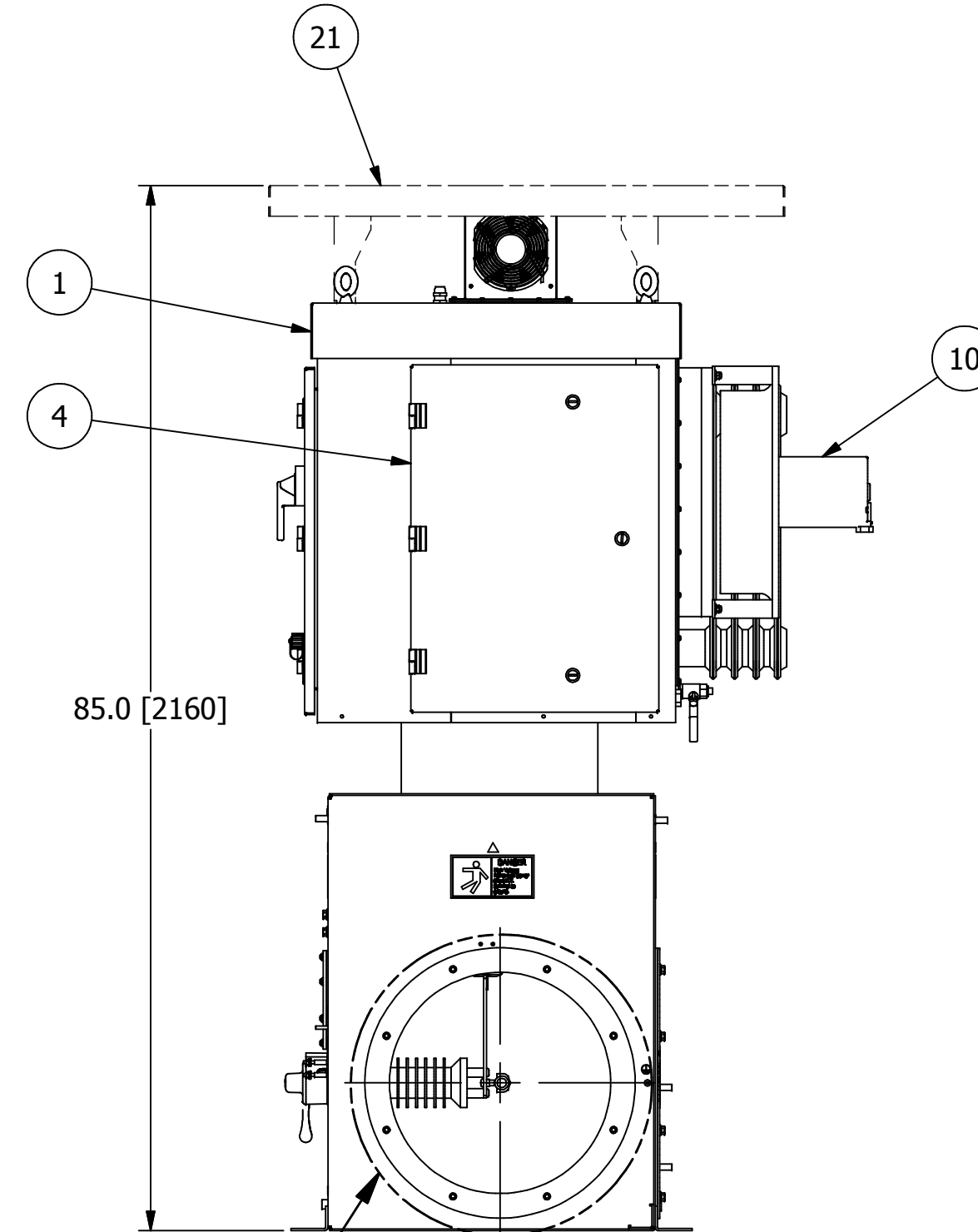


LEFT SIDE



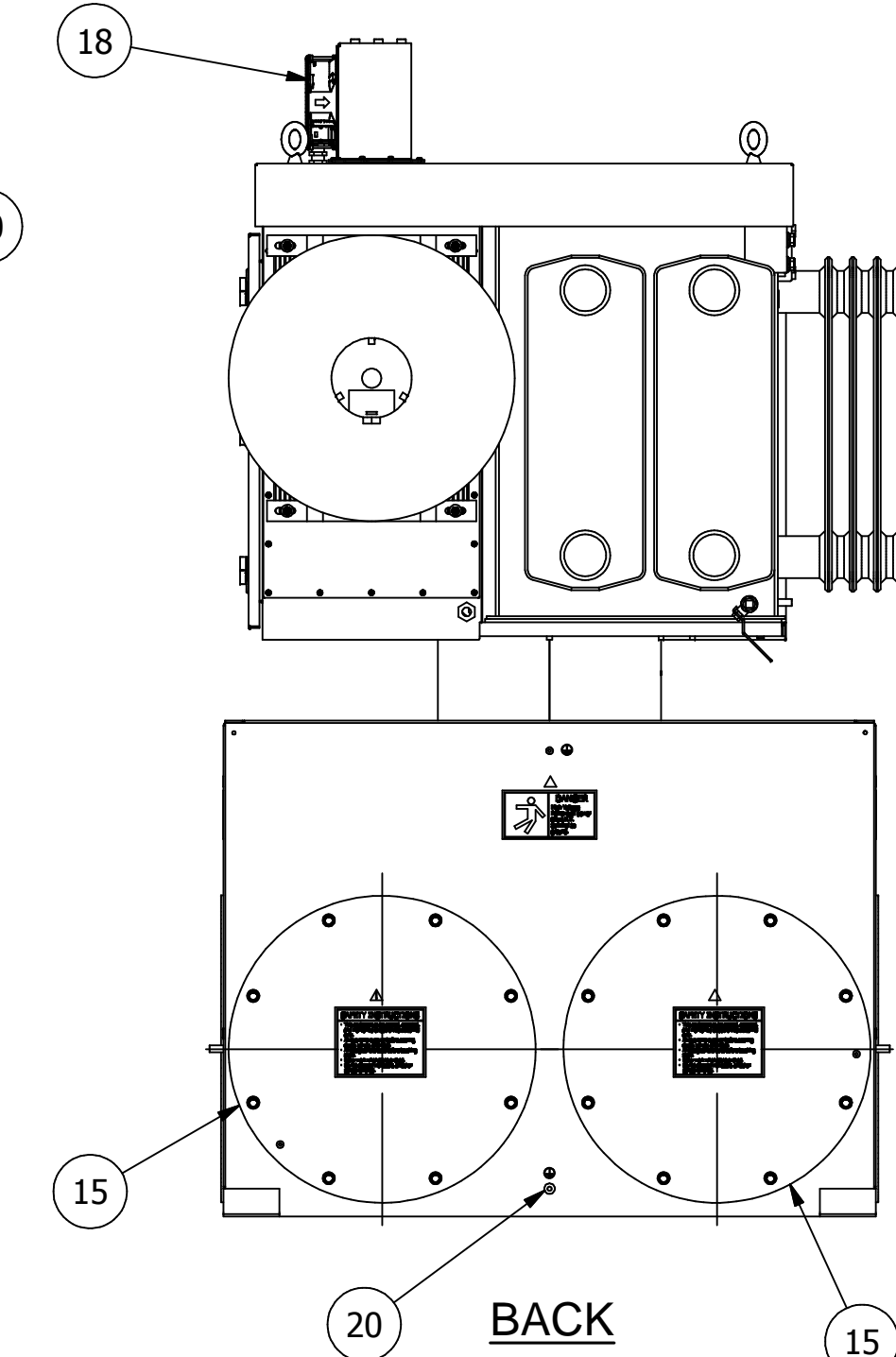
FRONT

SEE NOTE 5

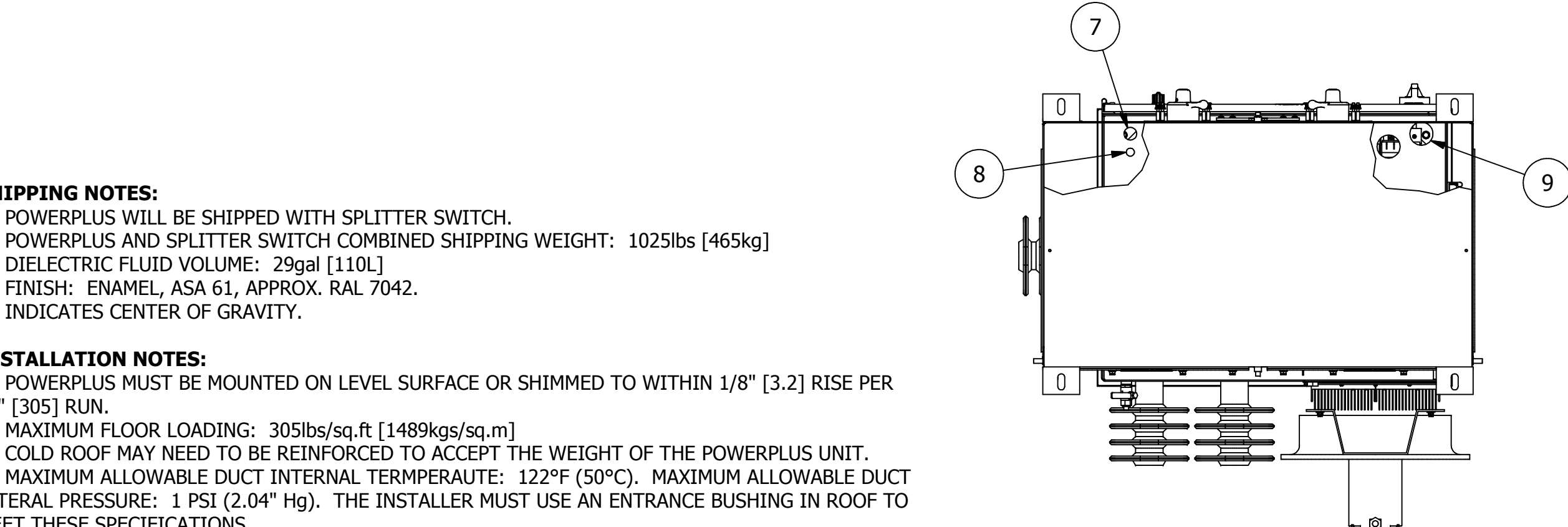


RIGHT SIDE

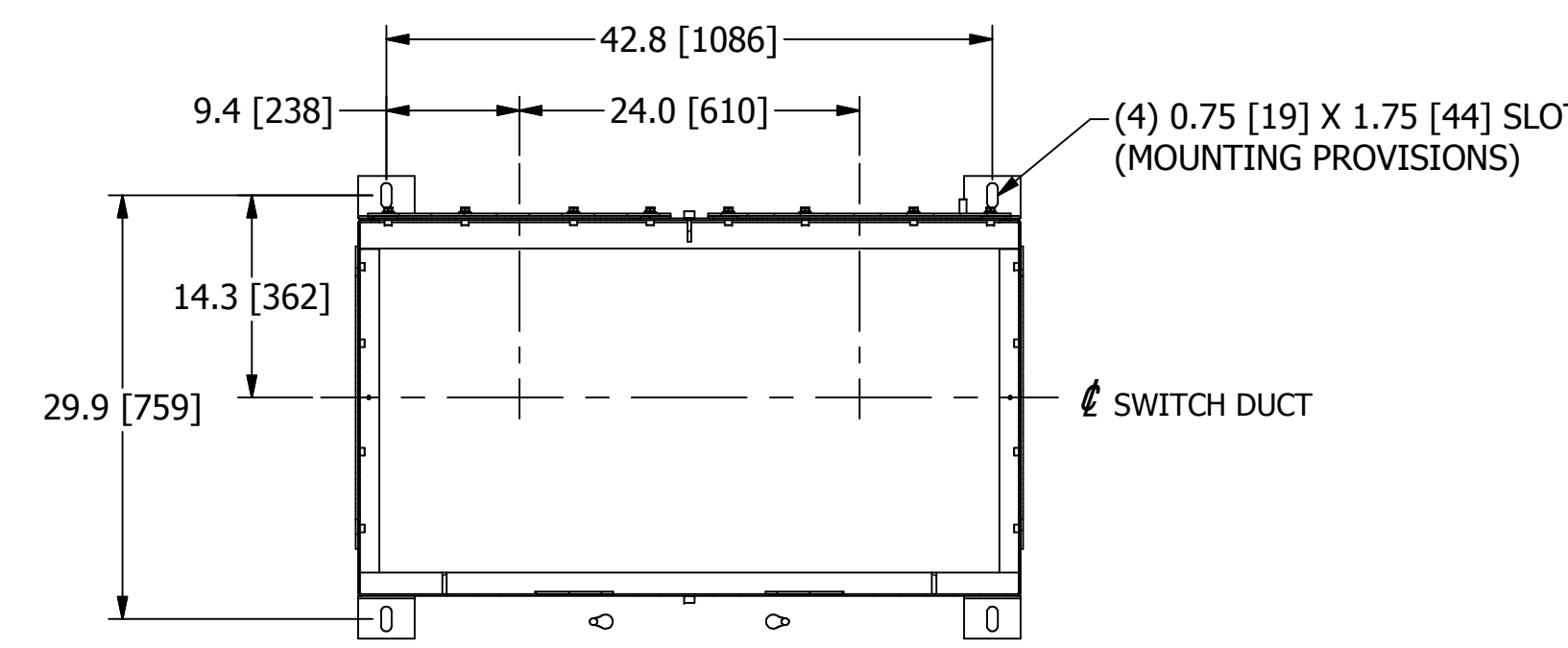
DUCT OPENING
(SEE DETAIL 'A')



BACK



BOTTOM



MOUNTING ARRANGEMENT FROM TOP VIEW
(SECTION B-B)

(4) 0.75 [19] X 1.75 [44] SLOT
(MOUNTING PROVISIONS)

SWITCH DUCT

BALLOONED NUMBERS:

- ① POWERPLUS UNIT.
- ② SPLITTER SWITCH.
- ③ RATINGS NAMEPLATE, ALUMINUM PHOTO ETCHED.
- ④ ACCESS DOOR TO POWER ELECTRONICS SECTION. ALLOW 19" [483] OF CLEARANCE FROM THIS FACE FOR DOOR SWING.
- ⑤ ACCESS DOOR TO SWITCHGEAR AND CONTROL SECTION. ALLOW 37" [940] OF CLEARANCE FROM THIS FACE FOR DOOR SWING.
- ⑥ INPUT CIRCUIT BREAKER SWITCH HANDLE W/ INTERLOCK PROVISION INSIDE. SEE DWG C140616.
- ⑦ 1" [25.4] DIA. CONDUIT HOLE FOR 120V CONTROL WIRING.
- ⑧ 1/2" [12.7] DIA. CONDUIT HOLE FOR LOW VOLTAGE TRANSUCER AND COMMUNICATION LINK CONDUIT.
- ⑨ 2" [51] DIA. CONDUIT HOLE FOR 3 PHASE POWER AND GROUND.
- ⑩ COOLING FAN FOR IGBT HEATSINK ASSEMBLY.
- ⑪ EZ SCOPE PORT W/ RJ45 SOCKET FOR KEYPAD DISPLAY CONNECTION AND BNC CONNECTORS FOR MAKING EXTERNAL kV AND mA MEASUREMENTS.
- ⑫ LIFTING EYES (4 PLACES).
- ⑬ H.V. SWITCH MECHANISM W/ VIEWING WINDOW AND INTERLOCK PROVISIONS. SEE B105881.
- ⑭ SIDE EXIT 18" DUCT MOUNTING PROVISION. INCLUDES GASKETS AND 3/8-16 HARDWARE, (8) PLACES ON A 20" [508] DIA. WITH 18" [457] DIA. DUCT OPENING.
- ⑮ SIDE EXIT 22" ACCESS COVER (NOT SHOWN). INCLUDES GASKETS AND 3/8-16 HARDWARE, (8) PLACES ON A 20" [508] DIA. WITH 18" [457] DIA. DUCT OPENING.
- ⑯ 1/2" NPT OUTPUT CONNECTION TAB. CONNECTIONS FACING SIDES ARE 14" [356] OFF CENTER. CONNECTIONS FACING BACK ARE ON CENTER LINE OF DUCTS AT 12" [305].
- ⑰ OPTIONAL METRIC ADAPTER FOR H.V. BUSHING CONNECTION. CONVERTS 1/2" NPT TO M20-1.5. SEE DWG A117570.
- ⑱ HEAT EXCHANGER ASSEMBLY.
- ⑲ S.S. GROUND CABLE TO GROUND EACH SECTION, INCLUDING ACCESS COVERS.
- ⑳ EQUIPMENT SAFETY GROUND TERMINATION, 3/8-16 GROUND BOSS.
- ㉑ OPTIONAL SUN SHIELD MUST BE SHIPPED SEPARATELY AND INSTALLED IN THE FIELD.

SHIPPING NOTES:
 1. POWERPLUS WILL BE SHIPPED WITH SPLITTER SWITCH.
 2. POWERPLUS AND SPLITTER SWITCH COMBINED SHIPPING WEIGHT: 1025lbs [465kg]
 3. DIELECTRIC FLUID VOLUME: 29gal [110L]
 4. FINISH: ENAMEL, ASA 61, APPROX. RAL 7042.
 5. INDICATES CENTER OF GRAVITY.

INSTALLATION NOTES:
 1. POWERPLUS MUST BE MOUNTED ON LEVEL SURFACE OR SHIMMED TO WITHIN 1/8" [3.2] RISE PER 12" [305] RUN.
 2. MAXIMUM FLOOR LOADING: 305lbs/sq.ft [1489kg/sq.m]
 3. COLD ROOF MAY NEED TO BE REINFORCED TO ACCEPT THE WEIGHT OF THE POWERPLUS UNIT.
 4. MAXIMUM ALLOWABLE DUCT INTERNAL TEMPERATURE: 122°F (50°C). MAXIMUM ALLOWABLE DUCT INTERNAL PRESSURE: 1 PSI (2.04" Hg). THE INSTALLER MUST USE AN ENTRANCE BUSHING IN ROOF TO MEET THESE SPECIFICATIONS.
 5. POWERPLUS MUST BE GROUNDED TO THE COLD ROOF BY THE END USER. REFER TO DWG B126972 FOR GROUNDING DETAILS.
 6. ALLOW 120" MINIMUM CLEARANCE ABOVE THE FLOOR TO LIFT AND REMOVE THE T/R RIG ASSEMBLY FROM THE OIL TANK. CLEARANCE DOES NOT INCLUDE RIGGING HEIGHT.
 7. POWERPLUS AND SWITCH ARE SEALED, RATED NEMA 4/IP56.

ALL DIMENSIONS IN INCHES [mm]

NWL 312 RISING SUN RD BORDENTOWN, NJ 08505 TEL. (609) 298-7300 FAX. (609) 298-1982		
TITLE: HF ESP, POWERPLUS SERIES 7, 45-70kW UNITS, w/ SPLITTER SWITCH		
SCALE: N/A	APP'D BY: RJK	REVISION DATE: 01/29/18
DWG BY: KAF	D.E.: RJK	DWG: 45-70SP_S7
TOLERANCES: (UNLESS OTHERWISE SPECIFIED) ANGLES +/- 5 DEG DECIMALS: .XX +/- 0.05 FRACTIONS: +/- 3/16		NWL PROPRIETARY INFORMATION, NOT TO BE REPRODUCED WITHOUT WRITTEN CONSENT

8 7 6 5 4 3 2 1