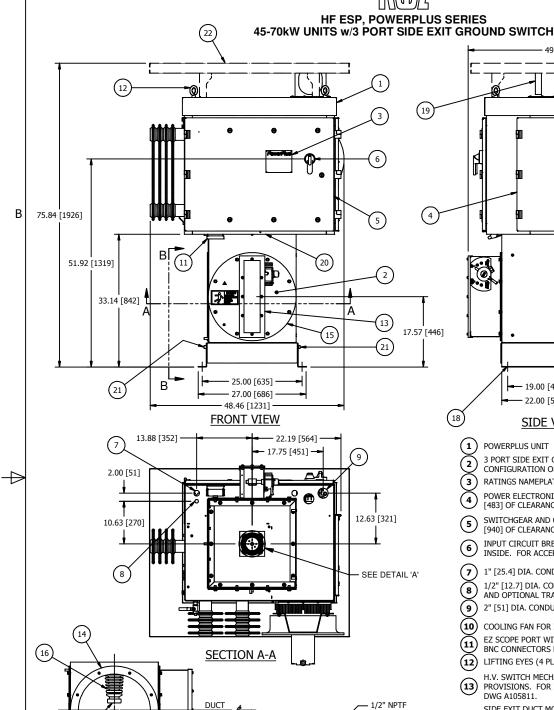
49.81 [1265]



2

17.57 [446]

SECTION B-B (BACK VIEW OF SWITCH DUCT AND BUSHING DETAIL)

(4) 1/4-20 UNC **EQUALLY SPACED ON** A Ø2.00 [51] B.C.

<u>DETAIL</u> OUTPUT CORONA RING DETAIL)

(17)

1. POWERPLUS AND SWITCH MUST BE MOUNTED ON LEVEL SURFACE OR SHIMED TO WITHIN 1/8" [3,2] RISE PER 12" [305] RUN.

- COLD ROOF MAY NEED TO BE REINFORCED TO ACCEPT THE WEIGHT OF THE POWER PLUS UNIT.
- 3. MAXIMUM ALLOWABLE DUCT INTERNAL TEMPERATURE: 122°F (50°C). MAXIMUM ALLOWABLE DUCT INTERAL PRESSURE: 1 PSI (2.04" Hg). THE INSTALLER MUST USE AN ENTRANCE BUSHING IN ROOF TO MEET THESE SPECIFICATIONS.
- 4. POWERPLUS MUST BE GROUNDED TO THE COLD ROOF BY THE END USER. REFER TO DWG B125481 FOR GROUNDING DETAILS.
- 5. MINIMUM CLEARANCE REQUIRED ABOVE FLOOR TO LIFT AND REMOVE THE T/R RIG IS 87". CLEARANCE DOES NOT INCLUDE RIGGING HEIGHT.

APPROX. WEIGHT WITH GROUND SWITCH: 1225lbs (556kg). DIELECTRIC FLUID VOLUME: 29gal (110L). FINISH: ENAMEL, ASA 61, APPROX. RAL 7042.

TANK AND CONTROL ENCLOSURE RATED NEMA 4/IP56.

- POWERPLUS UNIT
- 3 PORT SIDE EXIT GROUND SWITCH. SEE ESP-SQ-CONF FOR SWITCH ໌ 2 ັ CONFIGURATION OPTIONS.
- (3) RATINGS NAMEPLATE, ALUMINUM PHOTO ETCHED.

- 19.00 [483] ---

SIDE VIEW

- 22.00 [559]

- POWER ELECTRONICS SECTION WITH HINGED DOOR. ALLOW 19" (4) [483] OF CLEARANCE FROM THIS FACE FOR DOOR SWING.
- SWITCHGEAR AND CONTROL SECTION WITH HINGED DOOR. ALLOW 37" [940] OF CLEARANCE FROM THIS FACE FOR DOOR SWING.
- INPUT CIRCUIT BREAKER SWITCH HANDLE WITH INTERLOCK PROVISION (6) INSIDE. FOR ACCEPTABLE INTERLOCKS SEE DWG C140616.
- 1" [25.4] DIA. CONDUIT HOLE FOR 120V CONTROL WIRING.
- 1/2" [12.7] DIA. CONDUIT HOLE FOR LOW VOLTAGE COMMUNICATION 8 AND OPTIONAL TRANSDUCER CONDUIT.
- 9 2" [51] DIA. CONDUIT HOLE FOR 3 PHASE POWER AND GROUND.
- (10) COOLING FAN FOR IGBT HEATSINK ASSEMBLY.
- EZ SCOPE PORT WITH RJ45 SOCKET FOR KEYPAD DISPLAY CONNECTION AND (11) BNC CONNECTORS FOR MAKING EXTERNAL kV AND mA MEASUREMENTS.
- LIFTING EYES (4 PLACES). (12)
- H.V. SWITCH MECHANISM WITH VIEWING WINDOW AND INTERLOCK PROVISIONS. FOR INTERLOCK AND BOLT EXTENSION INFORMATION SEE DWG A105811.
- SIDE EXIT DUCT MOUNTING PROVISION WITH 22" [558] O.D. COVER PLATE. INCLUDES GASKETS AND 3/8-16 HARDWARE, (8) PLACES ON A 20" [508] DIA. B.C. WITH 18" [457] DUCT OPENING.
- SIDE EXIT 22" ACCESS COVER. INCLUDES GASKETS AND 3/8-16 HARDWARE, (8) PLACES ON A 20" [508] DIA WITH 18" [457] DIA DUCT OPENING (NOT SHOWN)
- (16) HIGH VOLTAGE SEMI-OUTDOOR BUSHING, SEE DETAIL 'A' FOR DETAILS.
- OPTIONAL METRIC ADAPTER FOR H.V. BUSHING CONNECTION. CONVERTS (17) 1/2" NPT TO M20-1.5. SEE DWG A117570.
- 0.69" [17.5] HOLE BOLT PATTERN PROVIDED FOR SWITCH BOX MOUNTING. (18) 25.00" [635] X 19.00" [482] BOLT PATTERN.
- HEAT EXCHANGER UNIT WILL BE SHIPPED WITH A PROTECTIVE (19) COVER OVER THE HEAT EXCHANGER. DISCARD PRIOR TO STARTUP.
- S.S. GROUND CABLE TO GROUND EACH SECTION, INCLUDING ACCESS COVERS. (20)
- (21) EQUIPMENT SAFETY GROUND TERMINATION, 3/8-16 GROUND BOSS.
- OPTIONAL SUN SHIELD MUST BE SHIPPED SEPARATELY (22) AND INSTALL IN THE FIELD.

DATA SHEET: ESP45-70SQ REVISION DATE: 10/14/15 APPROVED BY: HH

70.26 [1785]

ALL DIMENSIONS IN INCHES [mm]

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