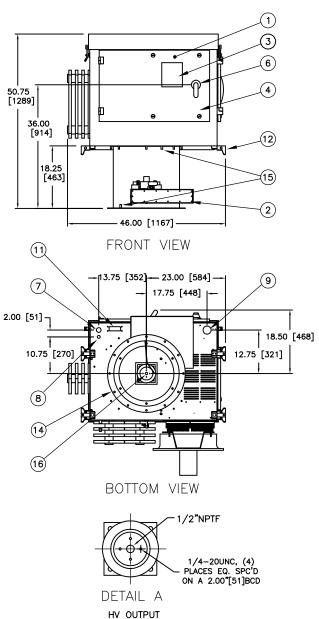
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## HF ESP, POWER PLUS SERIES 21 & 28 kW UNITS WITH BOTTOM EXIT GROUND SWITCH

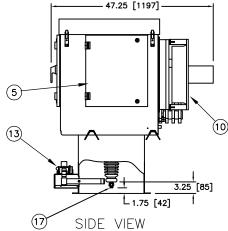


## NOTES:

 POWERPLUS AND SWITCH MUST BE MOUNTED ON A LEVEL SURFACE OR SHIMED TO WITHIN 1/8"[3.2] RISE PER 12"[305] RUN.

CORONA RING DETAIL

- 2. 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 INTERNAL PRESSURE: 1 PSI (2.04"Hg). THE INSTALLER MUST USE AN ENTRANCE BUSHING IN ROOF TO MEET THESE SPECIFICATIONS.
- POWERPLUS MUST BE GROUNDED TO THE COLD ROOF BY THE END USER. REFER TO DWG B125481 FOR GROUNDING DETAILS.
- 5. INTEGRATED AUTO TRANSFORMER OPTION IS NOT AVAILABLE WITH A ROUND GROUND SWITCH. AUTO TRANSFORMER MUST BE SEPARATE.



- 1) POWER PLUS UNIT.
- (2) ROUND BOTTOM EXIT GROUND SWITCH.
- (3) RATINGS NAMEPLATE.
- (4) SWITCH GEAR AND CONTROL SECTION WITH HINGED DOOR. ALLOW 33"[838] OF CLEARANCE FROM THIS FACE FOR DOOR SWING.
- (5) POWER ELECTRONICS SECTION WITH HINGED DOOR.
  ALLOW 19"[483] OF CLEARANCE FROM THIS FACE FOR DOOR SWING.
- (6) INPUT CIRCUIT BREAKER SWITCH HANDLE WITH INTERLOCK PROVISION INSIDE. FOR ACCEPTABLE INTERLOCK SEE DWG A105798.
- 7) 1"[25.4] DIA CONDUIT HOLE FOR 120V CONTROL WIRING.
- (8) 1/2"[12.7] DIA CONDUIT HOLE FOR LOW VOLTAGE TRANSDUCER AND COMMUNICATION LINK CONDUIT.
- ② 2"[51] DIA CONDUIT HOLE FOR 3 PHASE POWER AND GROUND.
- (10) COOLING FAN FOR IGBT HEAT SINK ASSEMBLY.
- (1) EZ SCOPE PORT WITH RJ45 SOCKET FOR GVC DISPLAY CONNECTION AND BNC CONNECTORS FOR MAKING EXTERNAL kV AND MA MEASUREMENTS.
- 1 LIFTING HOOKS (4 PLACES).
- 13 H.V SWITCH MECHANISM WITH VIEWING WINDOW AND INTERLOCK PROVISIONS. FOR INTERLOCK AND BOLT EXTENSION INFO SEE DWG A105811.
- (4) BOTTOM EXIT DUCT FLANGE, 22.63"[575] O.D. X
  19.00"[483] ID W/ (12) 0.50"[12.7] DIA HOLES EQ.
  SPACED ON A 21.44"[545] DIA BOLT CIRCLE. GASKET NOT INCLUDED.
- (5) SS GROUND CABLE TO GROUND EACH SECTION, INCLUDING ACCESS COVERS.
- (16) HIGH VOLTAGE SEMI-OUTDOOR BUSHING, SEE DETAIL A FOR DETAIL.
- (7) OPTIONAL METRIC ADAPTER FOR HV BUSHING CONNECTION. CONVERTS 1/2" NPT TO M20-1.5. SEE DWG A117570.

APPROX WEIGHT WITH GND SWITCH: 1000LBS, 454KG
DIELECTRIC FLUID VOLUME: 29gal, 110L
FINISH: ENAMEL, ASA 61, APPROX. RAL 7042
TANK, SWITCH AND CONTROL ENCLOSURE RATED NEMA 4/IP56
ALL DIMENSIONS IN INCHES FOLLOWED BY [mm]