

## SECTION 262550 – GENERATOR DOCKING STATION

### PART 1 - GENERAL

#### 0.1 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. UL (Underwriters Laboratories, Inc.) Standards
- C. ULC (Underwriters Laboratories of Canada) Standards
- D. Comply with NFPA 70.

#### 0.2 GUARANTEE/WARRANTY

- A. The equipment installed under this contract shall be left in proper working order. Replace, without additional charge, new work or material which develops defects from ordinary use within one year.
- B. New materials and equipment shall be guaranteed against defects in composition, design or workmanship. Guarantee certificates shall be furnished.

### PART 2 - PRODUCTS

#### 0.3 GENERATOR DOCKING STATION

- A. Manufacturers: Subject to compliance with requirements, provide products by the following:
  - 1. TRYSTAR: TSGDS

#### 0.4 GENERAL REQUIREMENTS

- A. Enclosures:
  - 1. Surface, Base, Dolly or Flush mounted cabinets available and shall be indicated on order.
  - 2. Front, side, bottom or back accessible and shall be indicated on order.
  - 3. Built for environmental conditions at installed location:
    - a. Indoor Dry and Clean Locations: NEMA 250, Type 1.
    - b. Outdoor Locations: NEMA 250, Type 3R.
    - c. Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA 250, Type 5 or Type 12 determined upon order.
  - 4. Outdoor locations:
    - a. 0.100 Aluminum
    - b. Stainless Steel 304
    - c. Stainless Steel 316

5. Front Cover:
    - a. Hinged.
    - b. Gasketed.
    - c. Pad-lockable latch.
  6. Finishes:
    - a. Paint after fabrication. Powder coated ANSI 61 light gray. Custom colors available, consult factory.
    - b. Stainless steel.
- B. Phase, Neutral, and Ground Buses:
1. Material: Silver-plated, Tin-plated or Hard-drawn copper, specified upon order.
  2. Equipment Ground Bus: bonded to box.
  3. Isolated Ground Bus: insulated from box.
  4. Ground Bus: 25%, 50% or 100% of phase size.
  5. Neutral Bus: Neutral bus rated 100 percent of phase bus.
  6. Round edges on bus.
- C. Inputs Connectors shall be specified with order:
1. Located inside or on side mounted gland panels.
  2. Pin and sleeve.
  3. Cam style mounted on 45° angle plate or on gland plate.
  4. Posi – Lok, as manufactured by Crouse-Hinds.
  5. Lugs
  6. Receptacles available. Coordinate quantity and type with order.
  7. Custom configuration available, consult factory.
- D. Output Connectors shall be specified with order:
1. Located inside or on side mounted gland panels.
  2. Pin and sleeve.
  3. Cam style
  4. Posi – Lok, as manufactured by Crouse Hinds.
  5. Lugs.
  6. Receptacles available. Coordinate quantity and type with order.
  7. Custom configuration available, consult factory.
- E. Lockable rake system with reinforced support struts to reduce cable theft.
- F. Voltage & Phase shall be specified with order. Available voltages include the following:
1. 120/240V – 1 phase – 3w
  2. 240V – 3 phase – 3w
  3. 120/208V – 1 phase – 3w
  4. 120/208V – 3 phase – 4w
  5. 277/480V – 3 phase – 4w
  6. Custom configuration available, consult factory.
- G. Amperage

1. Amperage rating of unit is specified with order.

0.5 CIRCUIT BREAKER (OPTIONAL)

- A. Circuit Breaker(s) are available, specified with order.

0.6 KIRK KEY PROVISIONS (OPTIONAL)

- A. Kirk Key(s) available, specified with order.

2.5 ADDITIONAL OPTIONS

A. Additional options available upon request:

1. Phase rotation indicator
2. 1PH, 120V, 20A duplex receptacle (battery charger)
3. 1PH, 120V, 20A GFCI receptacle (battery charger)
4. 1PH, 120V, 30A NEMA L5-30 receptacle (block heater)
5. 1PH, 120V, 50A Twist lock receptacle (block heater)
6. 1PH, 125/250V, 50A Twist lock receptacle (block heater)
7. Generator signal terminal wiring block (SCADA)
8. Bottom conduit access.

PART 3 - EXECUTION

0.7 EXAMINATION

- A. Examine elements and surfaces to receive Generator Docking Station for compliance with installation tolerances and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

0.8 INSTALLATION

- A. Surface, Flush or Base Mounted: Specified with order.
  1. Install anchor bolts to elevations required for proper attachment to Generator Docking Station.
- B. Temporary Lifting Provisions: Remove temporary lifting eyes, channels, and brackets and temporary blocking of moving parts from enclosures and components.

0.9 FIELD QUALITY CONTROL (OPTIONAL)

- A. Suggested Tests and Inspections to include the following:
  1. Perform each visual and mechanical inspection and electrical test stated in NETA Acceptance Testing Specification. Certify compliance with test parameters.
  2. Correct malfunctioning units on-site, where possible, and retest to demonstrate compliance; otherwise, replace with new units and retest.
  3. Perform the following infrared scan tests and inspections and prepare reports:

- a. Initial Infrared Scanning: After Substantial Completion, but not more than 60 days after Final Acceptance, perform an infrared scan of each Generator Docking Station. Remove front panels so joints and connections are accessible to portable scanner.
- B. Generator Docking Station will be considered defective if they do not pass tests and inspections.
- C. Prepare test and inspection reports, including a certified report that identifies Generator Docking Station and that describes scanning results. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.
- D. Optional Manufacturer's Field Start-up: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections prior to turn-over to Owner.

END OF SECTION 262550