

INCH-POUND

MIL-DTL-29183/17A
13 March 2003
SUPERSEDING
MIL-P-29183/17
18 June 1990

DETAIL SPECIFICATION SHEET

PANELBOARD, POWER DISTRIBUTION,
PORTABLE, WEATHERPROOF, TYPE I, CLASS 1,
CONFIGURATION 4: 208Y/120 VOLT, 100 KILOWATT

Inactive for new design after 22 April 1998

This specification is approved for use by all departments and agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and the issue of MIL-DTL-29183 listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation.

REQUIREMENTS: The distribution panel shall be as specified herein and in accordance with figure 1 and tables I and II. Required accessory equipment shall be as specified in table III.

Physical:

Weight: The weight shall not exceed 180 pounds (82 kilograms).

Dimensions (maximum):

Length: 40.0 inches (1016 millimeters (mm))

Width: 32.0 inches (813 mm)

Height: 35.0 inches (889 mm)

Stability: The vertical center of gravity shall be not more than 21.0 inches (533 mm) above level ground. Additional stability requirements shall apply in accordance with MIL-DTL-29183.

Paralleling cable access panel: Required (see MIL-DTL-29183).

Electrical:

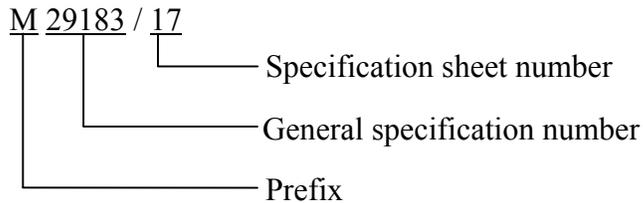
Input: The input to the distribution panel shall be 208Y/120 volt (V), 3-phase (\emptyset), 4-pole (P), 5-wire (W), 60 Hertz (Hz).

Bus capacity: The bus bar capacities shall be 225 amperes (A) (see figure 1).

Circuit breaker: The number of poles and current rating shall be as indicated in table I herein and the voltage rating shall be sufficient for the intended circuit.

Modification capability: Design provisions shall be made to accommodate in the future an additional 3P-400A main breaker and a knockout for 100A, class L in put connection (MS90558C44412P).

PIN: The government part identification number (PIN) is as follows:



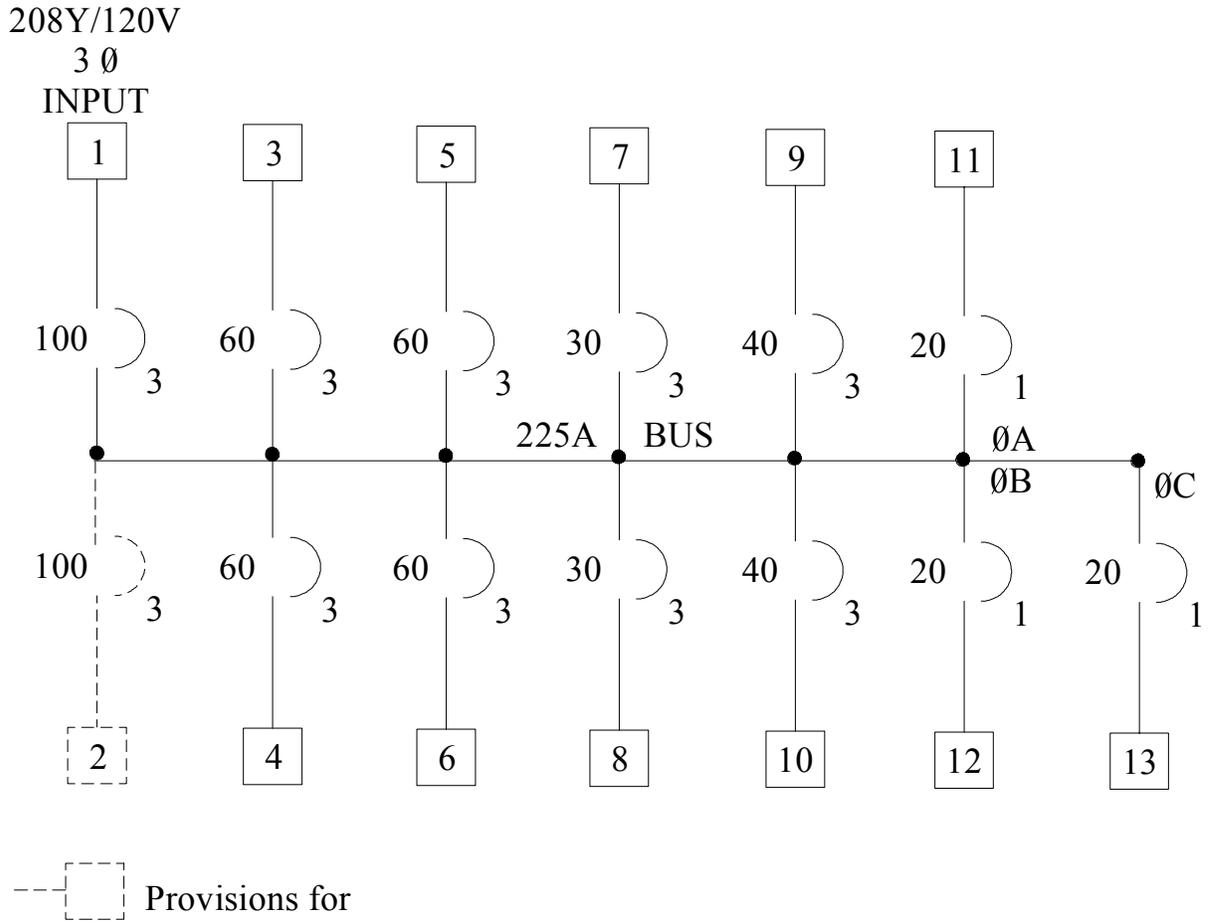


FIGURE 1. Single-line wiring diagram.

TABLE I. Circuit characteristics.

| Quantity | Circuit kind | Circuit breaker Pole (P) - Ampere (A) | Interface connector |
|----------|---------------------------|--|-----------------------------|
| 1 | 208Y/120V, 3-phase, 5W | 3P-100A | MS90558C44412P ¹ |
| 4 | 208Y/120V, 3-phase, 5W | 3P-60A | MS90555C32412S ¹ |
| 2 | 208Y/120V, 3-phase, 5W | 3P-30A | MS90555C32412S ¹ |
| 2 | 208Y/120V, 3-phase, 5W | 3P-40A | MS90555C32412S ¹ |
| 3 | 120V, 1-phase, 3W | 1P-20A | NEMA L5-20R ² |

¹ Connector designations are military part numbers for military type connectors conforming to MIL-C-22992. See MIL-DTL-29183.

² Connector designations are National Electrical Manufacturers Association (NEMA).

TABLE II. Connector assignment and connector terminal wiring.

| Circuit | Function | Interface connector | Phase A, black wire | Phase B, red wire | Phase C, blue wire | Neutral, white wire | Ground, green (bare) wire |
|-------------|----------|-----------------------------|------------------------------|----------------------------|-----------------------------|---------------------------|------------------------------------|
| 1 | Input | MS90558C44412P ¹ | A | B | C | N | G1, G2 G3, G4 |
| 3, 4, 5, 6 | Branch | MS90555C32412S ¹ | A | B | C | N | G |
| 7, 8, 9, 10 | Branch | MS90555C32412S ¹ | A | B | C | N | G |
| 11 | Branch | L5-20R ² | X ³ | | | W | G |
| 12 | Branch | L5-20R ² | | X ³ | | W | G |
| 13 | Branch | L5-20R ² | | | X ³ | W | G |

¹ Connector designations are military part numbers for military type connectors conforming to MIL-C-22992. See MIL-DTL-29183.

² Connector designations are National Electrical Manufacturers Association (NEMA).

³ Unmarked terminal.

TABLE III. Required accessory equipment.

| Item | Quantity | Description | Part number |
|------|----------|--|-----------------------------|
| 1 | 1 | MIL-C-22992, class L, 100A wall mount, plug, with coupling ring, connector | MS90558C44412P ¹ |
| 2 | 1 | Protective cover (cap) for item 1 | MS90564-7C ¹ |
| 3 | 8 | MIL-C-22992, class L, 60A, wall mount socket receptacle | MS90555C32412S ¹ |
| 4 | 8 | Protective receptacle cover (cap) for item 3 | MS90563-3C ¹ |
| 5 | 3 | NEMA type, connector, locking | L5-20R ² |
| 6 | 3 | Protective receptor cover (cap) for item 5 | NEMA standard |

¹ Designations are military part numbers for military type connectors conforming to MIL-C-22992. See MIL-DTL-29183.

² Connector designations are National Electrical Manufacturers Association (NEMA).

Custodians:
 Army - CR4
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Preparing Activity:
 DLA - GS2

(Project 6110-0443-012)

Review Activities:
 Navy - MC, MS

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| I RECOMMEND A CHANGE: | 1. DOCUMENT NUMBER MIL-DTL-29183/17A | 2. DOCUMENT DATE (YYYYMMDD) 20030313 |
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3. DOCUMENT TITLE
PANELBOARD, POWER DISTRIBUTION, PORTABLE, WEATHERPROOF, TYPE I, CLASS 1, CONFIGURATION 4: 208Y/120 VOLT, 100 KILOWATT

4. NATURE OF CHANGE (*Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.*)

5. REASON FOR RECOMMENDATION

6. SUBMITTER

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| c. ADDRESS (<i>Include Zip Code</i>) ATTN: DSCR-VBD (C. Hammond) 8000 Jefferson Davis Highway Richmond, VA 23297-5610 | IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: DEFENSE STANDARDIZATION PROGRAM OFFICE (DLSC-LM) 8725 John J. Kingman Road, Suite 2533 Fort Belvoir, VA 22060-6221 Commercial: (703) 767-6888 DSN: 427-6888 |