

INCH-POUND

MIL-DTL-29183/18A

13 March 2003

SUPERSEDING

MIL-P-29183/18

18 June 1990

DETAIL SPECIFICATION SHEET

PANELBOARD, POWER DISTRIBUTION,
PORTABLE, WEATHERPROOF, TYPE I, CLASS 1,
CONFIGURATION 4: 208Y/120 VOLT, 200 KILOWATT

Inactive for new design after 13 March 2003

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 450 pounds (204 kilograms).

Dimensions (maximum):

Length: 65.0 inches (1651 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).

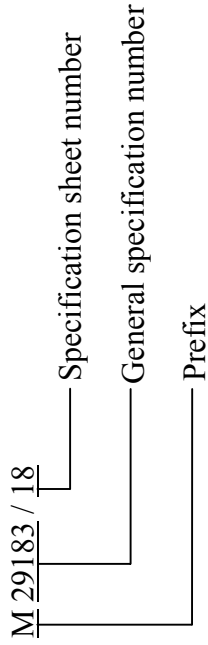
Electrical:

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

Bus capacity: The bus bar capacities shall be 800 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. An interlock bar shall be provided between the two main breakers to preclude both breakers from being in the "ON" position at the same time. Interlocking of circuit breakers shall be accomplished through a mechanical interlock. Interlocking shall be of the break before make type; of two interlocked circuits, one cannot be made (circuit closed or energized) until the other is first broken (circuit open or de-energized). Interlocking between the first circuit breaker and the second circuit breaker shall be provided to preclude the first circuit breaker from being closed when the second circuit breaker is closed, and to preclude the second circuit breaker from being closed when the first circuit breaker closed. The design of the interlock system shall be such as to avoid removal of the interlock bar by unqualified or unauthorized personnel. The design shall lessen the convenience of removing the interlock bar either accidentally or intentionally. The removal of the interlock bar shall not lessen the waterproof characteristics of the panelboard system. A secure location shall be provided to store the removed interlock bar without the threat of interfering with the operation or characteristics of the system.

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



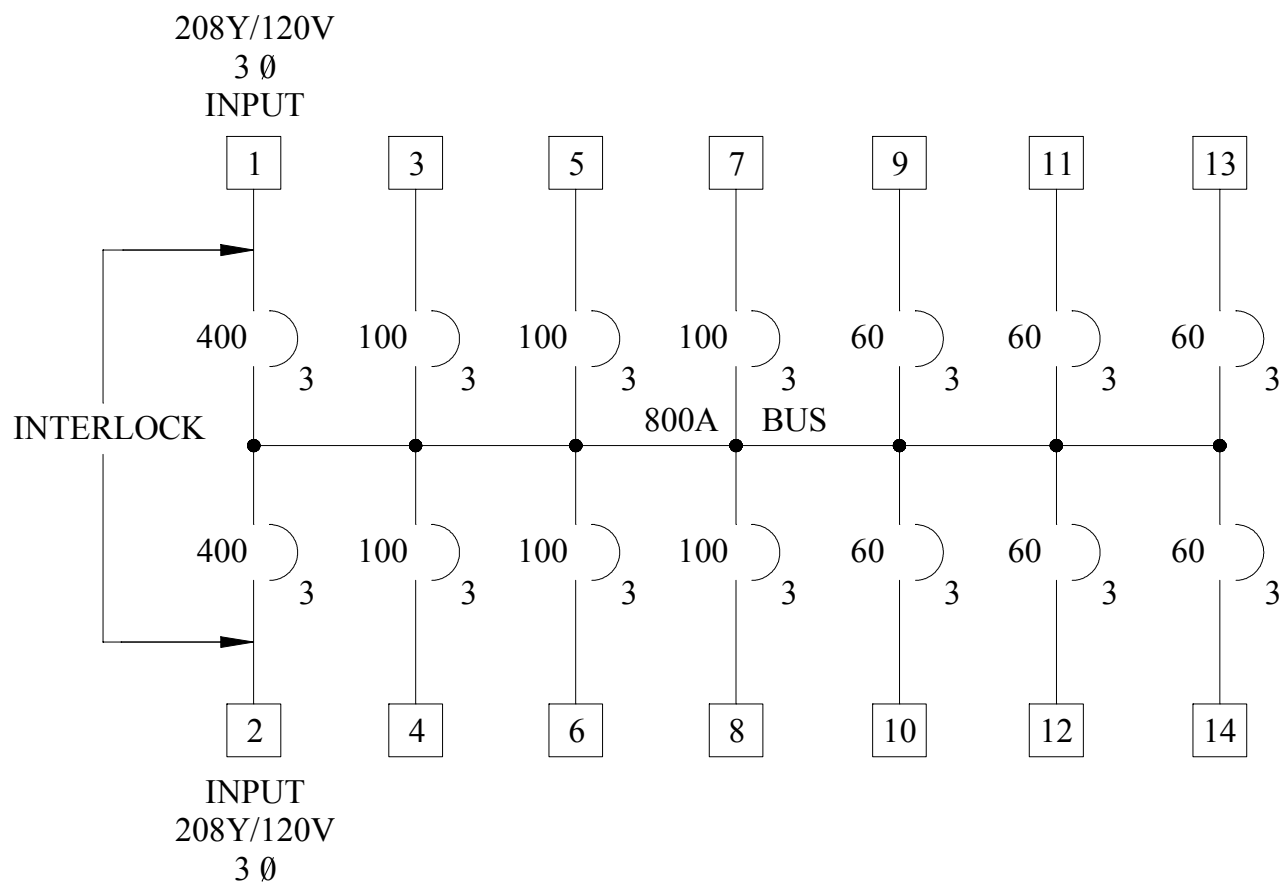
FIGURE 1. Single-line wiring diagram.

TABLE I. Circuit characteristics.

Quantity	Circuit kind	Circuit breaker Pole (P) - Ampere (A)	Interface connector
2	208Y/120V, 3-phase, 5W	3P-400A (Non-automatic)	Terminals
6	208Y/120V, 3-phase, 5W	3P-100A	MS90555C44412S ¹
6	208Y/120V, 3-phase, 5W	3P-60A	MS90555C32412S ¹

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

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	Pressure type, terminal dual lugs, 4/0 AWG to 300 kcmil ²	T1	T2	T3	T0	G
2	Input		P1	P2	P3	P0	G
3, 4, 5, 6, 7, 8	Branch	MS90555C44412S ¹	A	B	C	N	G1, G2, G3, G4
9, 10, 11, 12, 13, 14	Branch	MS90555C32412S ¹	A	B	C	N	G

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

² 1000 (k) circular (c) mils (mil).

TABLE III. Required accessory equipment.

Item	Quantity	Description	Military part number ¹
1	6	MIL-C-22992, class L, 100A wall mount, socket receptacle	MS90555C44412S
2	6	Protective cover (cap) for item 1	MS90563-7C
3	6	MIL-C-22992, class L, 60A, wall mount socket receptacle	MS90555C32412S
4	6	Protective receptacle cover (cap) for item 3	MS90563-3C

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

Custodians:
 Army - CR4
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Preparing Activity:
 DLA - GS2

(Project 6110-0443-013)

Review Activities:
 Navy - MC, MS

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
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I RECOMMEND A CHANGE:

1. DOCUMENT NUMBER
MIL-DTL-29183/18A

2. DOCUMENT DATE (YYYYMMDD)
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3. DOCUMENT TITLE

PANELBOARD, POWER DISTRIBUTION, PORTABLE, WEATHERPROOF, TYPE I, CLASS 1, CONFIGURATION 4: 208Y/120 VOLT, 200 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

a. NAME *(Last, First, Middle Initial)*

b. ORGANIZATION

c. ADDRESS *(Include Zip Code)*

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(1) Commercial
(2) DSN
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