

MIL-DTL-23928/4C  
2 April 2004  
SUPERSEDING  
MIL-P-23928/4B(SH)  
5 December 1988

DETAIL SPECIFICATION SHEET

PANEL, ELECTRICAL, POWER DISTRIBUTION FOR DOUBLE AQB-A101  
AND NQB-A101 CIRCUIT BREAKERS, 2-12 CIRCUITS, WITH AND WITHOUT MANUAL  
TRANSFER, DRIPPROOF, TOTALLY ENCLOSED AND WATERTIGHT

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 MIL-DTL-23928.

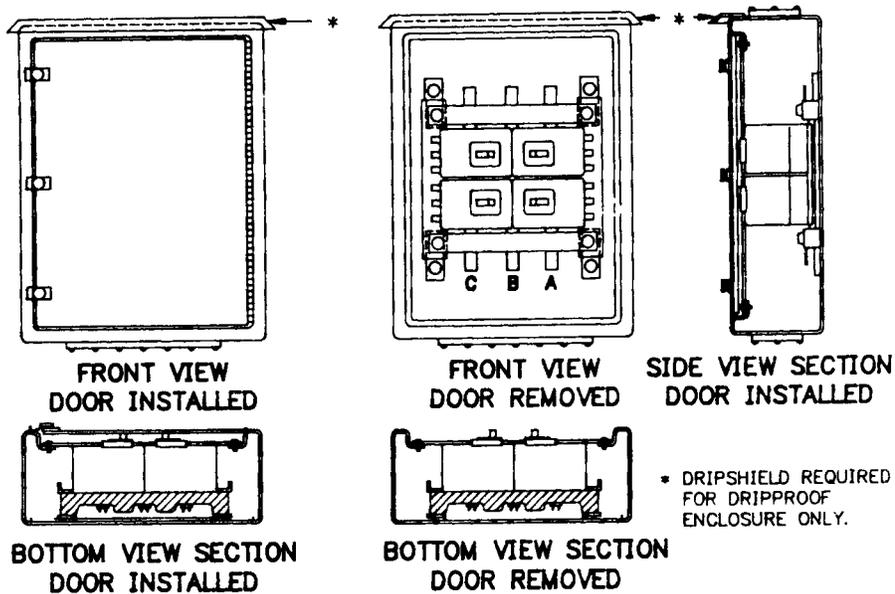


FIGURE 1. Distribution panel for AQB-A101 and NQB-A101 circuit breakers, dripproof and totally enclosed enclosure (typical).

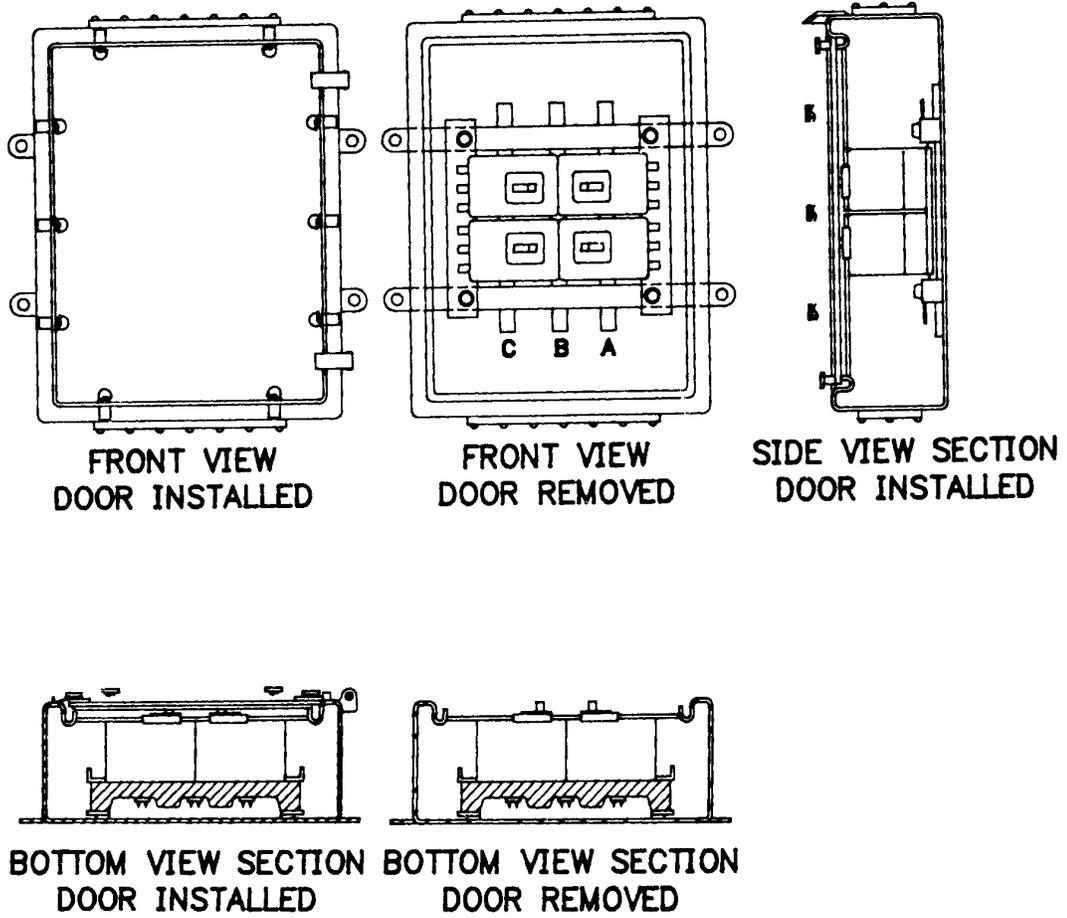
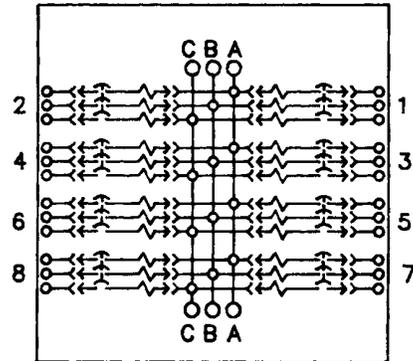
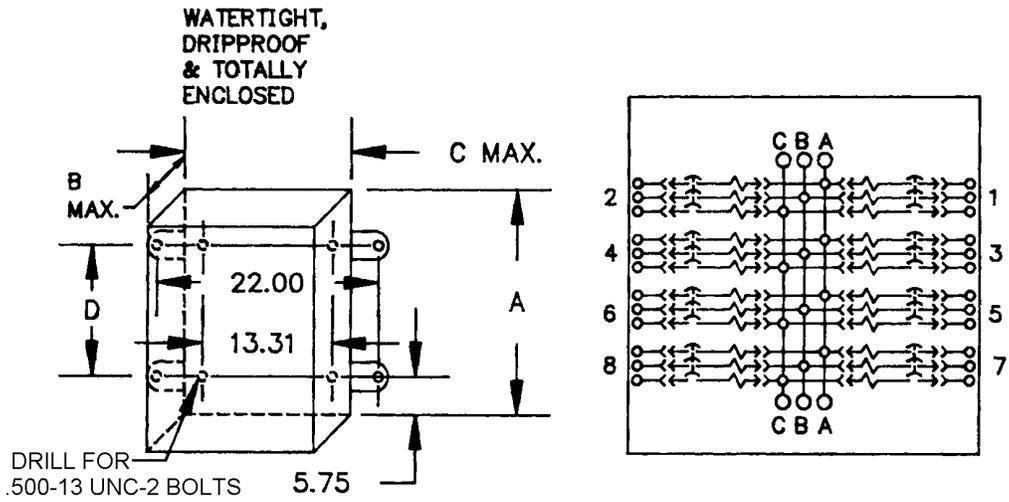
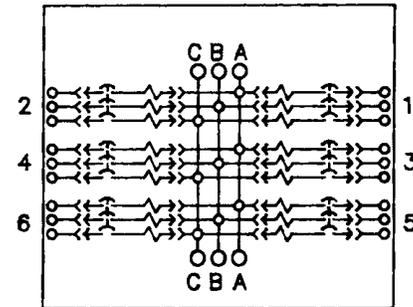


FIGURE 2. Distribution panel with double AQB-A101 and NQB-A101 circuit breakers watertight enclosure (typical).



NO. OF DIST CKTS	DISTRIBUTION ONLY WITH AND WITHOUT SPLIT BUS			
	A	B	C	D
4	26.25	7.13	20.00	14.75
6	30.37	↓	↓	18.87
8	34.50	↓	↓	23.00
10	38.62	↓	↓	27.12
12	42.75	↓	↓	31.25
14	47.00	↓	↓	35.50

PANEL AND MOUNTING DIMENSIONS



WIRING DIAGRAM, FRONT VIEW  
(TYPICAL)

FIGURE 3. Panel mounting dimensions and wiring diagram for figures 1 and 2.

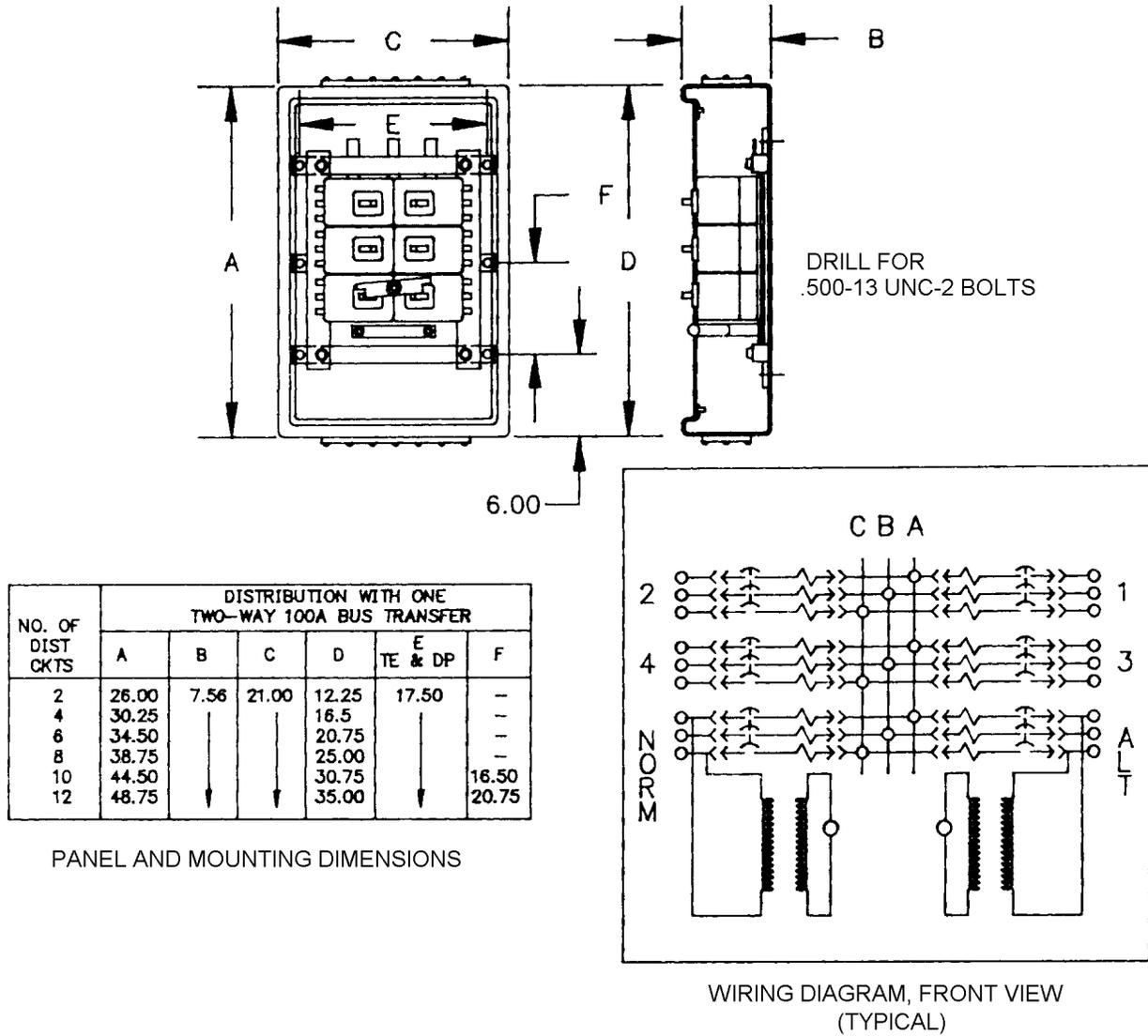
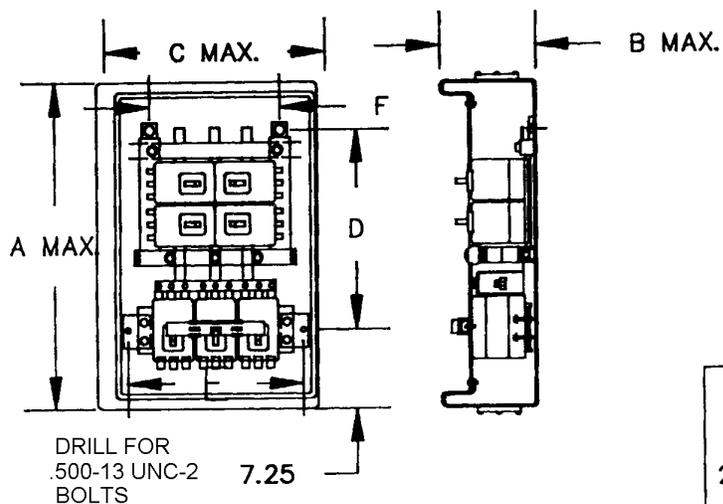


FIGURE 4. Distribution panel with double AQB-A101 circuit breakers with 2-way 100 amp NQB circuit breaker transfer switches (typical).



NO. OF DIST CKTS	DISTRIBUTION WITH ONE THREE-WAY 100A BUS TRANSFER					
	A	B	C	D	E TE & DP	F TE & DP
4	34.87	7.56	24.00	19.82	21.25	13.31
6	39.12	↓	↓	23.75	21.25	↓
8	43.37	↓	↓	27.87	21.25	↓
10	47.62	↓	↓	32.00	21.25	↓
12	53.37	↓	↓	27.87	36.12	↓

PANEL AND MOUNTING DIMENSIONS

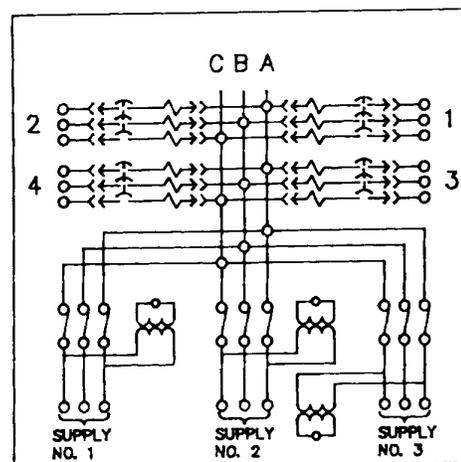
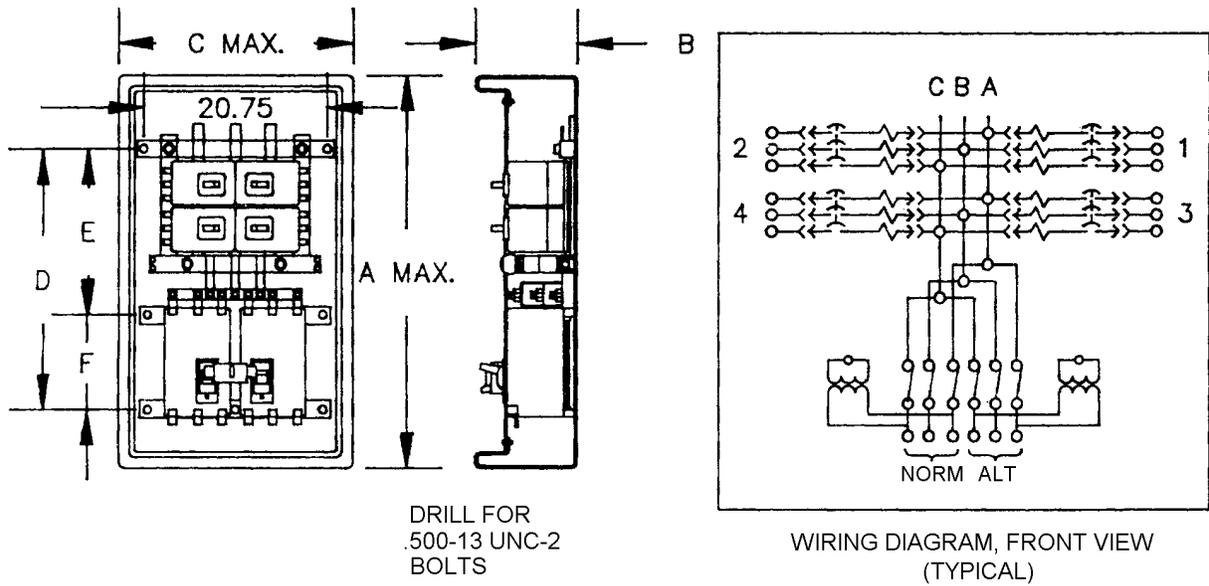


FIGURE 5. Distribution panel with double AQB-A101 circuit breakers with 3-way 100 amp NQB circuit breaker transfer switches (typical).



NO. OF DIST CKTS	DISTRIBUTION WITH ONE THREE-WAY 100A BUS TRANSFER					
	A	B	C	D	E	F
4	39.13	9.125	26.00	24.38	10.00	14.38
6	43.38	↓	↓	28.63	14.25	↓
8	47.63	↓	↓	32.88	18.50	↓
10	53.38	↓	↓	38.63	24.25	↓
12	57.63	↓	↓	42.88	28.50	↓

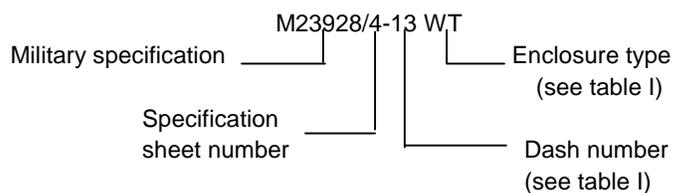
PANEL AND MOUNTING DIMENSIONS

FIGURE 6. Distribution panel with double AQB-A101 circuit breakers with 2-way 250 amp NQB circuit breaker transfer switches (typical).

TABLE I. Part or identifying numbers (PIN's).

Dash number	Number of circuits	Symbol number and enclosure type			Panel type
		Dripproof (DP)	Totally enclosed (TE)	Watertight (WT)	
01	2	2521	2521.1	2521.2	Distribution panel
02	4	2522.2	2522.3	2522.4	
03	6	2523.2	2523.3	2523.4	
04	8	2531.2	2531.3	2531.4	
05	10	2532.2	2532.3	2532.4	
06	12	2533.2	2533.3	2533.4	
11	4	2511	2511.1	2511.2	Distribution panel with (two) NQB-A101 circuit breakers for two-way 100A bus transfer
12	6	2511.3	2511.4	2511.5	
13	8	2511.6	2511.7	2511.8	
14	10	2511.9	2511.10	2511.11	
15	12	2511.12	2511.13	2511.14	
21	4	2512	2512.1	2512.2	Distribution panel with (three) NQB-A101 circuit breakers for three-way 100A bus transfer
22	6	2512.3	2512.4	2512.5	
23	8	2512.6	2512.7	2512.8	
24	10	2512.9	2512.10	2512.11	
25	12	2512.12	2512.13	2512.14	
31	4	2513	2513.1	2513.2	Distribution panel with (two) NQB-A250 circuit breakers for two-way 250A bus transfer
32	6	2513.3	2513.4	2513.5	
33	8	2513.6	2513.7	2513.8	
34	10	2513.9	2513.10	2513.11	
35	12	2513.12	2513.13	2513.14	

Example: The full PIN for an 8-circuit distribution panel with (two) watertight, 8-circuit panel is:



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REQUIREMENTS:

Class: 1 - Dripproof (see note 1).

Class: 2 - Totally enclosed (see note 2).

Class: 3 - Watertight (see note 3).

Dimensions and configuration: See figures.

Composition: Steel or aluminum (see note 6).

Current rating: 400 amperes.

Voltage rating: 500 V ac and 250 V dc.

Short circuit capacity: 100,000 amperes.

Bus bar sizes (minimum): 400 amperes - 1 x 0.250 inch.

Circuit breakers: AQB-A101, NQB-A101, and NQB-A250 (see MIL-C-17361).

NOTES:

1. Class 1 panels with doors shall meet the 45 degree dripproof requirements, and panels without doors shall meet the 15 degree dripproof requirements in accordance with MIL-STD-108. When used, drip shield dimensions shall be as required to provide the specified degree of enclosure. Panels shall be furnished without doors only when specified in acquisition documents.
2. Class 2 panels shall meet the totally enclosed requirements as specified in MIL-STD-108.
3. Class 3 panels, with doors, gaskets, and drain opening, shall meet the watertight requirements as specified in MIL-STD-108.
4. A power available light shall be provided for each circuit breaker placed in close proximity to the circuit breaker to which it refers and shall illuminate when power is available.
5. A split bus arrangement shall be provided when specified in the acquisition documents. The current rating shown shall apply to each separate bus grouping.
6. Panels shall be of aluminum construction unless steel is specified in the acquisition document.

Revision letters are not used to denote changes due to the extensiveness of the changes.

Referenced documents. In addition to MIL-DTL-23928, this document references the following:

MIL-C-17361      MIL-STD-108

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

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Custodians:  
Navy - SH  
DLA - CC

Preparing activity:  
DLA - CC

(Project 5925-0368-004)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at [www.dodssp.daps.mil](http://www.dodssp.daps.mil).