

SYSTEM OVERVIEW

Description:

The LORAIN® Model 1293V3 Battery Distribution Fuse Circuit Breaker Bay (BDF/CBB) can be equipped in any of several different configurations. It can be equipped as a single or up to six bus bay, or as a single or up to eight bus bay, [depending upon configuration](#). It is designed to provide 600 amperes per bus at -48 volts, and has a maximum current capacity of 4800 amperes. The BDF/CBB can be equipped with an [optional digital load meter](#) when metering is desired. The optional digital meter is capable of displaying system load voltage and current on each bus. The BDF/CBB is designed for top or bottom feed arrangement.

Available distribution bus modules for six bus bay.

[20 TLS/TPS-Type Fuseholders \(3-70A\)](#)

[20 TLS/TPS-Type Fuseholders e/w Internal Grounding \(3-70A\)](#)

[28 TPA-Type Fuseholders \(3-50A\) or LEL1-Type Circuit Breaker Modules \(3-100A\), or a combination of both](#)

[3 TPL-Type \(70-150A\) and 14 TLS/TPS-Type \(3-70A\) High Capacity Fuseholders](#)

[28 AM1-Type Circuit Breakers \(1-150A\)](#)

[28 Bullet Nose-Type Circuit Breakers or Bullet Nose-Type TLS/TPS Fuseholders \(1-100A\), or a combination of both](#)

Available distribution bus modules for eight bus bay.

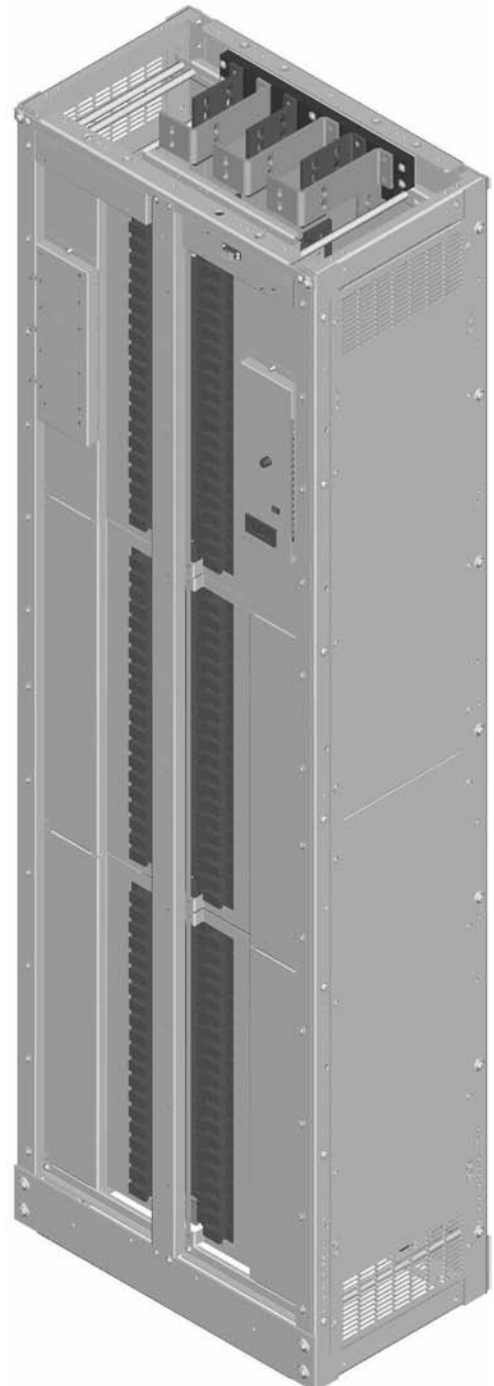
[12 TLS/TPS-Type Fuseholders \(3-70A\)](#)

[16 TPA-Type Fuseholders \(3-50A\) or LEL1-Type Circuit Breaker Modules \(3-100A\), or a combination of both](#)

[2 TPL-Type \(70-150A\) and 8 TLS/TPS-Type \(3-70A\) High Capacity Fuseholders](#)

[16 AM1-Type Circuit Breakers \(1-150A\)](#)

[16 Bullet Nose-Type Circuit Breakers or Bullet Nose-Type TLS/TPS Fuseholders \(1-100A\), or a combination of both](#)

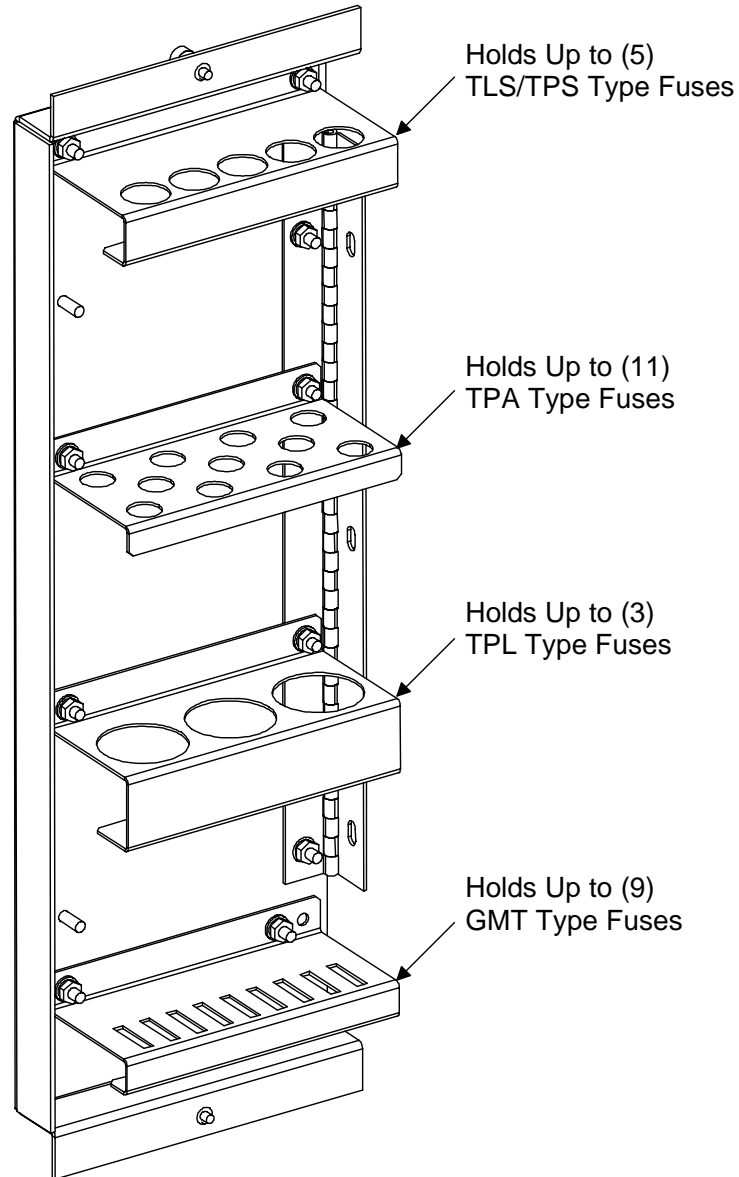


[Home](#)

The BDF/CBB is also equipped with a [spare fuseholder](#). The spare fuseholder is located behind the hinged panel on the left side access panel. The spare fuseholder stores TPA, TLS/TPS, TPL, and GMT type fuses.

Spec. No.:	582120600
Family:	Vortex
Model:	1293V3
Output:	-48 Volts DC
Capacity:	600 Amps per Bus, 6 Bus Bay, 3600 Amps Maximum 8 Bus Bay, 4800 Amps Maximum
Agency Approval:	Listed UL Subject 1801 NEBS Levels 1, 2, and 3 Available on Most Configurations
Framework Type:	Standard (meets Zone 3 earthquake criteria) or Seismic Rated (Zone 4) Box Framework
Mounting Width:	26 Inches
Mounting Depth:	15 Inches
Access:	Front and Rear for Installation, Front for Operation and Maintenance
Color:	Off-White (Lorain Spec. M500-117)
Options:	Six or Eight Bus, Top or Bottom Feed Arrangement, Standard or Seismic Box Framework, Distribution Bus Modules, Internal Paralleled Distribution
Accessories:	Internal Ground Bar Assembly (6-Bus Bay, 8-Bus Bay), Optional Internal Ground Bar Assembly Paralleling Kit (8-Bus Bay Only) , External Ground Bar Assemblies , Blank Distribution Bus Module Mounting Position Panels (6-Bus Bay, 8-Bus Bay), Lug Adapters , Input Termination Assembly , Capacitor Precharge Assembly , Dressing Bar , Digital Meter Panel , Distribution (Load) Wiring Management Kit , Meter and Alarm Power In-Line Fuse Kit , Lockable Door , Framework Extensions (List 59 , 60 , 61), Transient Voltage Surge Suppressor
Environment:	40°C Natural Convection, Equipment Designed for Use in Environmentally Controlled Space

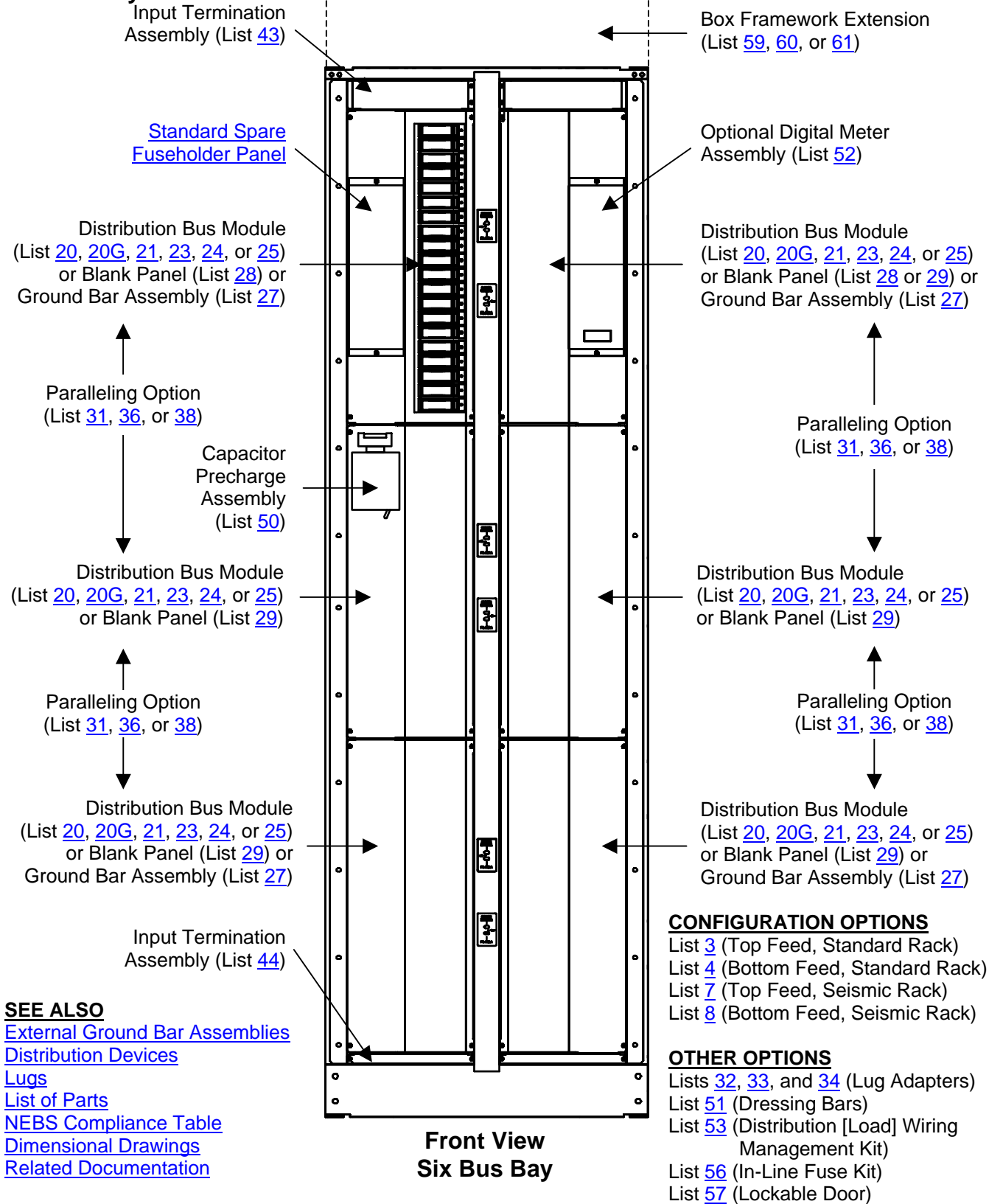




Standard Spare Fuseholder

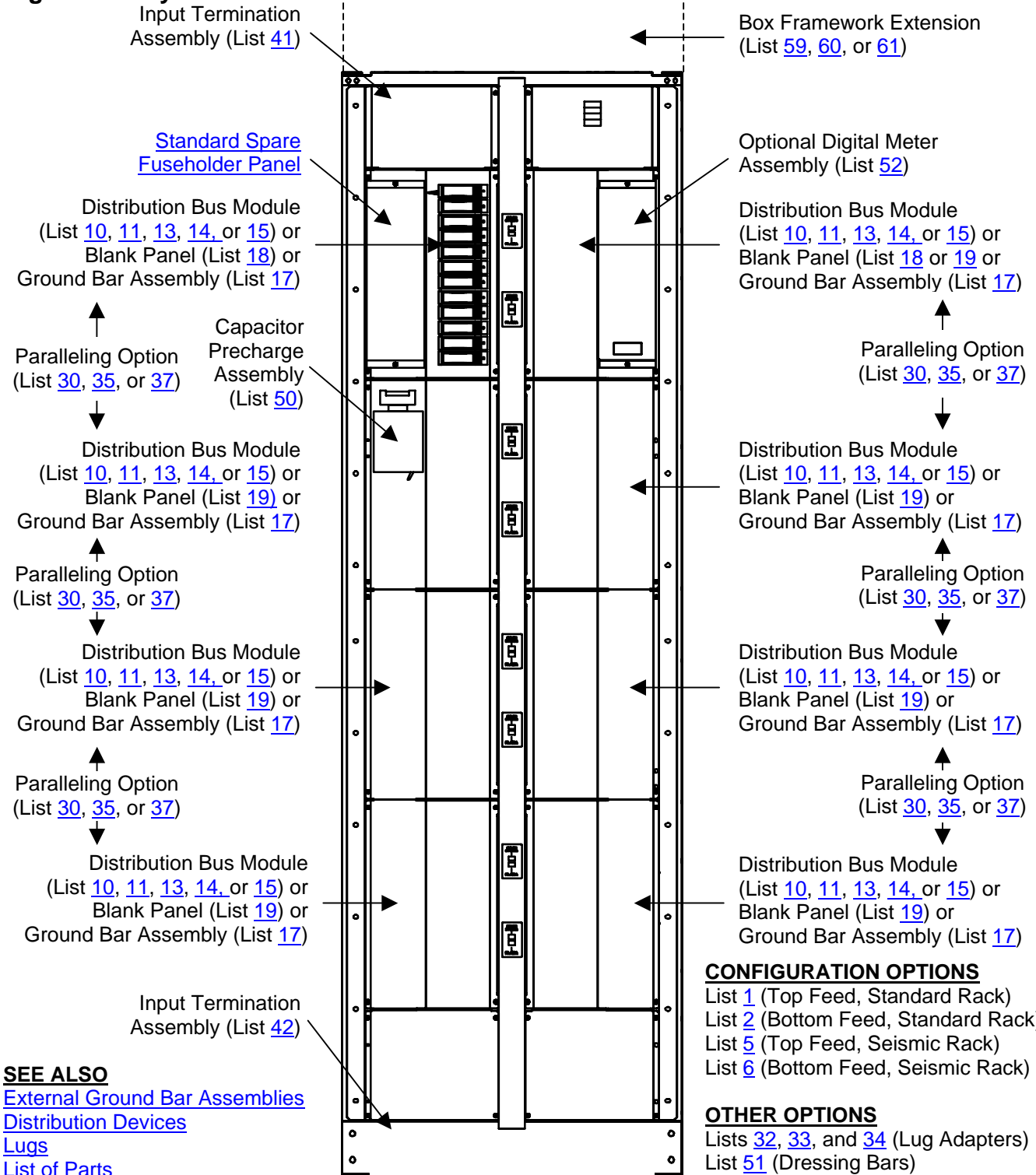
[Home](#)

Six Bus Bay



[Home](#)

Eight Bus Bay



**Front View
Eight Bus Bay**

SEE ALSO
[External Ground Bar Assemblies](#)
[Distribution Devices](#)
[Lugs](#)
[List of Parts](#)
[NEBS Compliance Table](#)
[Dimensional Drawings](#)
[Related Documentation](#)

CONFIGURATION OPTIONS
 List 1 (Top Feed, Standard Rack)
 List 2 (Bottom Feed, Standard Rack)
 List 5 (Top Feed, Seismic Rack)
 List 6 (Bottom Feed, Seismic Rack)

OTHER OPTIONS
 Lists 32, 33, and 34 (Lug Adapters)
 List 51 (Dressing Bars)
 List 53 (Distribution [Load] Wiring Management Kit)
 List 56 (In-Line Fuse Kit)
 List 57 (Lockable Door)
 List 39 (Optional Internal Ground Bar Assembly Paralleling Kit (8-Bus Bay Only))

TABLE OF CONTENTS

		System Overview						
General	Six Bus Bay	Eight Bus Bay	List Information	Accessory Information	List of Parts	Compliance Information	Physical Size Information	Related Documentation
<hr/>								
SYSTEM OVERVIEW	1							
Six Bus Bay	4							
Eight Bus Bay	5							
TABLE OF CONTENTS	6							
LIST INFORMATION	8							
List Structure	8							
Box Framework Configuration Options	8							
Distribution Bus Module Configuration Options	9							
Distribution Bus Module Paralleling Options (Internal).....	10							
Accessory Options	11							
See also the following located in this document	11							
List Descriptions	12							
List 1: Common Equipment.....	12							
List 2: Common Equipment.....	12							
List 3: Common Equipment.....	13							
List 4: Common Equipment.....	13							
List 5: Common Equipment.....	14							
List 6: Common Equipment.....	14							
List 7: Common Equipment.....	15							
List 8: Common Equipment.....	15							
List 10: Distribution Bus Module (Part No. 505125).....	16							
List 11: Distribution Bus Module (Part No. 505126).....	17							
List 13: Distribution Bus Module (Part No. 514406).....	18							
List 14: Distribution Bus Module (Part No. 505132).....	19							
List 15: Distribution Bus Module (Part No. 502887).....	20							
List 17: Internal Ground Bar Assembly Option.....	21							
List 18: Blank Distribution Bus Module Mounting Position Cover Panel.....	23							
List 19: Blank Distribution Bus Module Mounting Position Cover Panel.....	23							
List 20: Distribution Bus Module (Part No. 505128).....	24							
List 20G: Distribution Bus Module (Part No. 509378).....	25							
List 21: Distribution Bus Module (Part No. 505129).....	26							
List 23: Distribution Bus Module (Part No. 509364).....	27							
List 24: Distribution Bus Module (Part No. 505131).....	28							
List 25: Distribution Bus Module (Part No. 502616).....	29							
List 27: Internal Ground Bar Assembly Option.....	30							
List 28: Blank Distribution Bus Module Mounting Position Cover Panel.....	32							
List 29: Blank Distribution Bus Module Mounting Position Cover Panel.....	32							
List 30: Parallel Distribution Bus Module Option (Internal)	33							
List 31: Parallel Distribution Bus Module Option (Internal)	33							
List 35: Parallel Distribution Bus Module Option (Internal)	34							
List 36: Parallel Distribution Bus Module Option (Internal)	34							
List 37: Parallel Distribution Bus Module Option (Internal)	35							
List 38: Parallel Distribution Bus Module Option (Internal)	35							
List 39: Optional Internal Ground Bar Assembly Paralleling Kit (8-Bus Bay Only).....	35							
List 41: Optional Input Termination Assembly.....	36							

List 42: Optional Input Termination Assembly.....	36
List 43: Optional Input Termination Assembly.....	36
List 44: Optional Input Termination Assembly.....	37
List 50: Optional Capacitor Precharge Assembly.....	40
List 51: Dressing Bar Option	41
List 52: Optional Digital Meter Panel Assembly	42
List 53: Distribution (Load) Wiring Management Kit.....	42
List 56: Meter and Alarm Power In-Line Fuse Kit.....	42
List 57: Lockable Door Option	42
List 59: 1 Foot Box Framework Extension	43
List 60: 2 Foot Box Framework Extension	43
List 61: 4-1/2 Foot Box Framework Extension	43
Lists 70-79: Special Application Configurations	43
ACCESSORY INFORMATION	48
External Ground Bar Assemblies.....	48
Transient Voltage Surge Suppressor (TVSS) Device	49
Distribution Devices	50
TLS/TPS-Type Fuses.....	50
TPA-Type Fuses.....	51
TPL-Type Fuses.....	51
LEL1-Type Circuit Breakers	52
AM1-Type Circuit Breakers and Kits	53
Bullet Nose-Type Circuit Breakers	54
Lugs.....	55
Distribution (Load) Lugs	55
Input Lugs.....	55
Special Application Crimp Lug / Strap Combination	58
LIST OF PARTS.....	59
COMPLIANCE INFORMATION	65
NEBS Compliance.....	65
PHYSICAL SIZE INFORMATION.....	66
Dimensions.....	66
RELATED DOCUMENTATION.....	69
APPENDIX (A RECORD OF CHANGES MADE TO THIS DOCUMENT).....	70

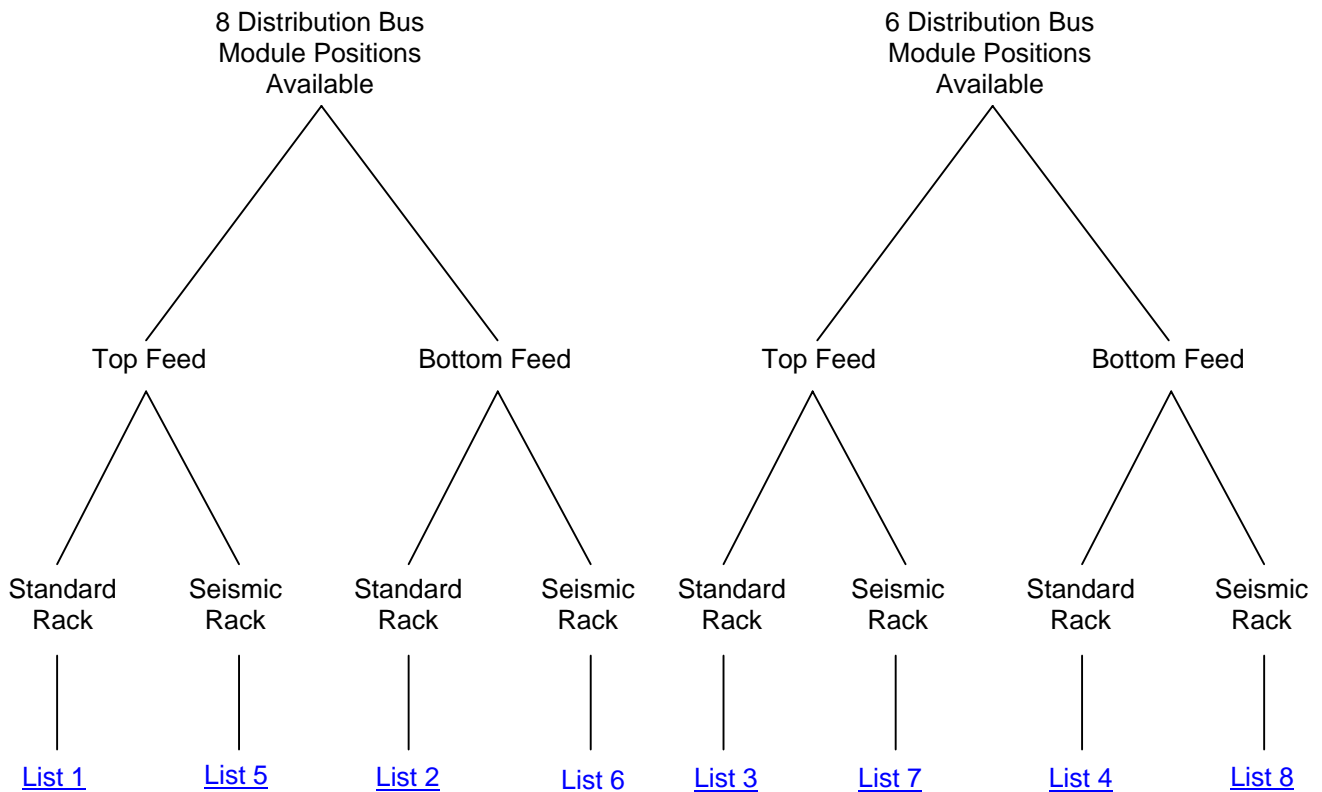
LIST INFORMATION

List Structure

Box Framework Configuration Options

Options	List							
	1	2	3	4	5	6	7	8
Available Distribution Bus Module Positions (6 or 8)	8	8	6	6	8	8	6	6
Battery and Distribution Cable Feed (from Top or from Bottom)	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom
Type of Rack (Standard or Seismic)	Standard	Standard	Standard	Standard	Seismic	Seismic	Seismic	Seismic

Available Box Framework Configurations (Ordered by List Number)



[Home](#)

Distribution Bus Module Configuration Options

Options	List	
	8 Bus Bay	6 Bus Bay
TLS/TPS-Type Fuseholders (3-70A)	10	20
TLS/TPS-Type Fuseholders (3-70A) e/w Internal Grounding	N/A	20G
TPA-Type Fuseholders (3-50A) or LEL1-Type Circuit Breaker Modules (3-100A), or a combination of both	11	21
TPL-Type (70-150A) and TLS/TPS-Type (3-70A) High Capacity Fuseholders	13	23
AM1-Type Circuit Breakers (1-150A)	14	24
Bullet Nose-Type Circuit Breakers or Bullet Nose-Type TLS/TPS Fuseholders (1-100A), or a combination of both	15	25

Available Distribution Bus Module Configurations (Ordered by List Number)

Distribution Bus Module Paralleling Options (Internal)

To Parallel This List			This List		Order Paralleling Option List
Purchased Before 6/30/00	Purchased After 6/30/00		Purchased Before 6/30/00	Purchased After 6/30/00	
10, 11, 12, or 14	--	W I T H	10, 11, 12, or 14	--	30 , 35
20, 21, 22, or 24	--		20, 21, 22, or 24	--	31 , 36
15	--		15	--	35 or 37
25	--		25	--	36 or 38
--	10, 11, 12, 14, or 15		--	10, 11, 12, 14, or 15	35 or 37
--	13		--	13	35 or 37
--	20, 20G, 21, 22, 24, or 25		--	20, 20G, 21, 22, 24, or 25	36 or 38
--	23		--	23	36 or 38
15	--		--	10, 11, 12, 14, or 15	35 or 37
25	--		--	20, 20G, 21, 22, 24, or 25	36 or 38
10, 11, 12, or 14	--		--	10, 11, 12, or 14	30 *, 35
20, 21, 22, or 24	--		--	20, 20G, 21, 22, or 24	31 *, 36
10, 11, 12, or 14	--		--	15	NONE
20, 21, 22, or 24	--		--	25	NONE
10, 11, 12, or 14	--		--	15	NONE
20, 21, 22, or 24	--		--	25	NONE

Notes: Total load for all paralleled distribution bus modules is limited to 600 amperes, maximum.

List 35 and 36 provide multiple load shunts.

List 30, 31, 37, and 38 provide a single load shunt.

* Requires additional components, see Lists [30](#) and [31](#) Ordering Notes.

Available Distribution Bus Module Paralleling Options (Ordered by List Number)

[Home](#)

Accessory Options

Options	List		
	8 Bus Bay	6 Bus Bay	
Internal Ground Bar Assembly	17	27	
Optional Internal Ground Bar Assembly Paralleling Kit	39	NA	
Blank Distribution Bus Module Mounting Position Panels	Top Most Left Position (standard spare fuseholder panel installed) and Top Most Right Position (only when optional List 52 Meter Panel installed)	18	28
	Remaining Positions	19	29
Input Termination Assembly	41 (Top Feed)	43 (Top Feed)	
	42 (Bottom Feed)	44 (Bottom Feed)	
Capacitor Precharge Assembly (for use with Lists 10, 13, 20, 20G, and 23)	50		
Dressing Bar	51		
Digital Meter	52		
Distribution (Load) Wiring Management Kit	53		
Meter and Alarm Power In-Line Fuse Kit	56		
Lockable Door	57		
1' Box Framework Extension	59		
2' Box Framework Extension	60		
4-1/2' Box Framework Extension	61		
External Ground Bar Assemblies	Order by Part Number		
Lugs	Order by Part Number		
Transient Voltage Surge Suppressor	Order by Part Number		

Available Accessories (Ordered by List Number or Part Number)

See also the following located in this document

- [Lists 70-79: Special Application Configurations](#)
- [List of Parts](#)
- [NEBS Compliance Table](#)
- [Dimensional Drawings](#)

List Descriptions

List 1: Common Equipment [List of Parts](#)

List 1 consists of an **8 bus** BDF/CBB, configured for a **top feed** cable arrangement. ([Distribution Options](#) to be ordered separately.) The Bay [measures](#) 7 feet tall by 26 inches wide and 15 inches deep. The system uses a **bolted box framework (meets Zone 3 earthquake criteria)** and contains all internal wiring and cabling.

Features

- ◆ Eight (8) Distribution Bus Module Mounting Positions
- ◆ Top Feed Cable Access for Battery and Load Cables
- ◆ NEBS Level 1 Compliant

Ordering Notes

- 1) Order up to eight (8) Distribution Bus Modules per Lists [10](#), [11](#), [13](#), [14](#), and [15](#) descriptions.
- 2) Order blank cover panels as required for any unused Distribution Bus Module mounting position (excluding positions to be populated with [internal ground bar assemblies](#)) per Lists [18](#) and [19](#) descriptions.
- 3) Order distribution fuses and/or circuit breakers as required per Lists [10](#), [11](#), [13](#), [14](#), and [15](#) descriptions.
- 4) Order input and load distribution lugs as required per Lists [10](#), [11](#), [13](#), [14](#), and [15](#) descriptions.
- 5) Order as required ground bar assemblies per List [17](#) and ground bar paralleling kit per List [39](#).
- 6) Order additional accessory options as required per appropriate [Lists](#).
- 7) Order optional Input Termination Assembly per List [41](#) description.

List 2: Common Equipment [List of Parts](#)

List 2 consists of an **8 bus** BDF/CBB, configured for a **bottom feed** cable arrangement. ([Distribution Options](#) to be ordered separately.) The Bay [measures](#) 7 feet tall by 26 inches wide and 15 inches deep. The system uses a **bolted box framework (meets Zone 3 earthquake criteria)** and contains all internal wiring and cabling.

Features

- ◆ Eight (8) Distribution Bus Module Mounting Positions
- ◆ Bottom Feed Cable Access for Battery and Load Cables
- ◆ NEBS Level 1 Compliant

Ordering Notes

- 1) Order up to eight (8) Distribution Bus Modules per Lists [10](#), [11](#), [13](#), [14](#), and [15](#) descriptions.
- 2) Order blank cover panels as required for any unused Distribution Bus Module mounting position (excluding positions to be populated with [internal ground bar assemblies](#)) per Lists [18](#) and [19](#) descriptions.
- 3) Order distribution fuses and/or circuit breakers as required per Lists [10](#), [11](#), [13](#), [14](#), and [15](#) descriptions.
- 4) Order input and load distribution lugs as required per Lists [10](#), [11](#), [13](#), [14](#), and [15](#) descriptions.
- 5) Order as required ground bar assemblies per List [17](#) and ground bar paralleling kit per List [39](#).
- 6) Order additional accessory options as required per appropriate [Lists](#).
- 7) Order optional Input Termination Assembly per List [42](#) description.

List 3: Common Equipment [List of Parts](#)

List 3 consists of a **6 bus** BDF/CBB, configured for a **top feed** cable arrangement. ([Distribution Options](#) to be ordered separately.) The Bay [measures](#) 7 feet tall by 26 inches wide and 15 inches deep. The system uses a **bolted box framework (meets Zone 3 earthquake criteria)** and contains all internal wiring and cabling.

Features

- ◆ Six (6) Distribution Bus Module Mounting Positions
- ◆ Top Feed Cable Access for Battery and Load Cables
- ◆ NEBS Level 1 Compliant

Ordering Notes

- 1) Order up to six (6) Distribution Bus Modules per Lists [20](#), [20G](#), [21](#), [23](#), [24](#), and [25](#) descriptions.
- 2) Order blank cover panels as required for any unused Distribution Bus Module mounting position (excluding positions to be populated with [internal ground bar assemblies](#)) per Lists [28](#) and [29](#) descriptions.
- 3) Order distribution fuses and/or circuit breakers as required per Lists [20](#), [20G](#), [21](#), [23](#), [24](#), and [25](#) descriptions.
- 4) Order input and load distribution lugs as required per Lists [20](#), [20G](#), [21](#), [23](#), [24](#), and [25](#) descriptions.
- 5) Order ground bar assemblies as required per List [27](#) description.
- 6) Order additional accessory options as required per appropriate [Lists](#).
- 7) Order optional Input Termination Assembly per List [43](#) description.

List 4: Common Equipment [List of Parts](#)

List 4 consists of a **6 bus** BDF/CBB, configured for a **bottom feed** cable arrangement. ([Distribution Options](#) to be ordered separately.) The Bay [measures](#) 7 feet tall by 26 inches wide and 15 inches deep. The system uses a **bolted box framework (meets Zone 3 earthquake criteria)** and contains all internal wiring and cabling.

Features

- ◆ Six (6) Distribution Bus Module Mounting Positions
- ◆ Bottom Feed Cable Access for Battery and Load Cables
- ◆ NEBS Level 1 Compliant

Ordering Notes

- 1) Order up to six (6) Distribution Bus Modules per Lists [20](#), [20G](#), [21](#), [23](#), [24](#), and [25](#) descriptions.
- 2) Order blank cover panels as required for any unused Distribution Bus Module mounting position (excluding positions to be populated with [internal ground bar assemblies](#)) per Lists [28](#) and [29](#) descriptions.
- 3) Order distribution fuses and/or circuit breakers as required per Lists [20](#), [20G](#), [21](#), [23](#), [24](#), and [25](#) descriptions.
- 4) Order input and load distribution lugs as required per Lists [20](#), [20G](#), [21](#), [23](#), [24](#), and [25](#) descriptions.
- 5) Order ground bar assemblies as required per List [27](#) description.
- 6) Order additional accessory options as required per appropriate [Lists](#).
- 7) Order optional Input Termination Assembly per List [44](#) description.

List 5: Common Equipment [List of Parts](#)

List 5 consists of an **8 bus** BDF/CBB, configured for a **top feed** cable arrangement. ([Distribution Options](#) to be ordered separately.) The Bay [measures](#) 7 feet tall by 26 inches wide and 15 inches deep. The system uses a **welded box framework (Seismic, Zone 4 Earthquake Compliant)** and contains all internal wiring and cabling.

Features

- ◆ Eight (8) Distribution Bus Module Mounting Positions
- ◆ Top Feed Cable Access for Battery and Load Cables
- ◆ NEBS Level 1-3 Compliant

Ordering Notes

- 1) Order up to eight (8) Distribution Bus Modules per Lists [10](#), [11](#), [13](#), [14](#), and [15](#) descriptions.
- 2) Order blank cover panels as required for any unused Distribution Bus Module mounting position (excluding positions to be populated with [internal ground bar assemblies](#)) per Lists [18](#) and [19](#) descriptions.
- 3) Order distribution fuses and/or circuit breakers as required per Lists [10](#), [11](#), [13](#), [14](#), and [15](#) descriptions.
- 4) Order input and load distribution lugs as required per Lists [10](#), [11](#), [13](#), [14](#), and [15](#) descriptions.
- 5) Order as required ground bar assemblies per List [17](#) and ground bar paralleling kit per List [39](#).
- 6) Order additional accessory options as required per appropriate [Lists](#).
- 7) Order optional Input Termination Assembly per List [41](#) description.

List 6: Common Equipment [List of Parts](#)

List 6 consists of an **8 bus** BDF/CBB, configured for a **bottom feed** cable arrangement. ([Distribution Options](#) to be ordered separately.) The Bay [measures](#) 7 feet tall by 26 inches wide and 15 inches deep. The system uses a **welded box framework (Seismic, Zone 4 Earthquake Compliant)** and contains all internal wiring and cabling.

Features

- ◆ Eight (8) Distribution Bus Module Mounting Positions
- ◆ Bottom Feed Cable Access for Battery and Load Cables
- ◆ NEBS Level 1-3 Compliant

Ordering Notes

- 1) Order up to eight (8) Distribution Bus Modules per Lists [10](#), [11](#), [13](#), [14](#), and [15](#) descriptions.
- 2) Order blank cover panels as required for any unused Distribution Bus Module mounting position (excluding positions to be populated with [internal ground bar assemblies](#)) per Lists [18](#) and [19](#) descriptions.
- 3) Order distribution fuses and/or circuit breakers as required per Lists [10](#), [11](#), [13](#), [14](#), and [15](#) descriptions.
- 4) Order input and load distribution lugs as required per Lists [10](#), [11](#), [13](#), [14](#), and [15](#) descriptions.
- 5) Order as required ground bar assemblies per List [17](#) and ground bar paralleling kit per List [39](#).
- 6) Order additional accessory options as required per appropriate [Lists](#).
- 7) Order optional Input Termination Assembly per List [42](#) description.

List 7: Common Equipment [List of Parts](#)

List 7 consists of a **6 bus** BDF/CBB, configured for a **top feed** cable arrangement. ([Distribution Options](#) to be ordered separately.) The Bay [measures](#) 7 feet tall by 26 inches wide and 15 inches deep. The system uses a **welded box framework (Seismic, Zone 4 Earthquake Compliant)** and contains all internal wiring and cabling.

Features

- ◆ Six (6) Distribution Bus Module Mounting Positions
- ◆ Top Feed Cable Access for Battery and Load Cables
- ◆ NEBS Level 1-3 Compliant

Ordering Notes

- 1) Order up to six (6) Distribution Bus Modules per Lists [20](#), [20G](#), [21](#), [23](#), [24](#), and [25](#) descriptions.
- 2) Order blank cover panels as required for any unused Distribution Bus Module mounting position (excluding positions to be populated with [internal ground bar assemblies](#)) per Lists [28](#) and [29](#) descriptions.
- 3) Order distribution fuses and/or circuit breakers as required per Lists [20](#), [20G](#), [21](#), [23](#), [24](#), and [25](#) descriptions.
- 4) Order input and load distribution lugs as required per Lists [20](#), [20G](#), [21](#), [23](#), [24](#), and [25](#) descriptions.
- 5) Order ground bar assemblies as required per List [27](#) description.
- 6) Order additional accessory options as required per appropriate [Lists](#).
- 7) Order optional Input Termination Assembly per List [43](#) description.

List 8: Common Equipment [List of Parts](#)

List 8 consists of a **6 bus** BDF/CBB, configured for a **bottom feed** cable arrangement. ([Distribution Options](#) to be ordered separately.) The Bay [measures](#) 7 feet tall by 26 inches wide and 15 inches deep. The system uses a **welded box framework (Seismic, Zone 4 Earthquake Compliant)** and contains all internal wiring and cabling.

Features

- ◆ Six (6) Distribution Bus Module Mounting Positions
- ◆ Bottom Feed Cable Access for Battery and Load Cables
- ◆ NEBS Level 1-3 Compliant

Ordering Notes

- 1) Order up to six (6) Distribution Bus Modules per Lists [20](#), [20G](#), [21](#), [23](#), [24](#), and [25](#) descriptions.
- 2) Order blank cover panels as required for any unused Distribution Bus Module mounting position (excluding positions to be populated with [internal ground bar assemblies](#)) per Lists [28](#) and [29](#) descriptions.
- 3) Order distribution fuses and/or circuit breakers as required per Lists [20](#), [20G](#), [21](#), [23](#), [24](#), and [25](#) descriptions.
- 4) Order input and load distribution lugs as required per Lists [20](#), [20G](#), [21](#), [23](#), [24](#), and [25](#) descriptions.
- 5) Order ground bar assemblies as required per List [27](#) description.
- 6) Order additional accessory options as required per appropriate [Lists](#).
- 7) Order optional Input Termination Assembly per List [44](#) description.

List 10: Distribution Bus Module (Part No. 505125)

[List of Parts](#)

Features

- ◆ 12 Fuse Positions
- ◆ Accepts TLS/TPS Type Fuses
- ◆ Input Shunt
- ◆ 600A Maximum Capacity
- ◆ 3/8" Clearance Holes on 1" Centers for Input Lead Connections, if required (accepts two hole lugs)
- ◆ 1/4-20 Studs for Load Lead Connections (accepts single hole lugs)
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

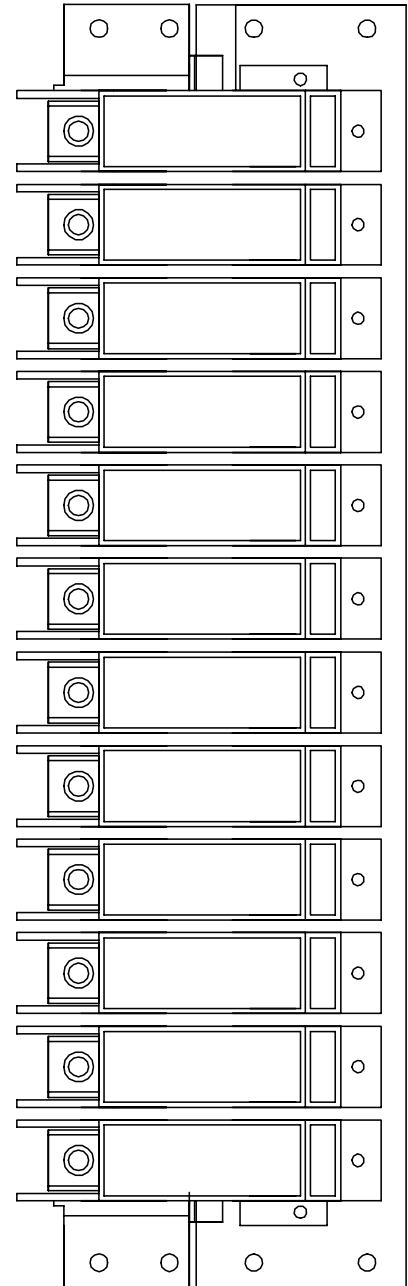
For use in an eight (8) bus bay (Lists [1](#), [2](#), [5](#), and [6](#)) only.

Maximum size of wire to be connected to a single fuseholder position is 2 gauge.

Maximum lug width, 0.750 inches.

Ordering Notes

- 1) Order fuses as required per the "Distribution Devices" [table](#).
- 2) Order one (1) Part No. 248610301 alarm-type fuse and one (1) Part No. 102774 safety fuse cover per distribution fuse ordered in 1) above.
- 3) Order input lugs (two hole, 3/8" bolt clearance hole, 1" centers) as required per "Lugs" [table](#). Input lug requirements vary if [paralleling](#) or [Input Termination Assembly](#) options ordered.
- 4) Order load lugs (single hole, 1/4" bolt clearance hole) as required for each distribution position per "Lugs" [table](#).



List 11: Distribution Bus Module (Part No. 505126) [List of Parts](#)

Features

- ◆ 16 Fuse and/or Circuit Breaker Positions
- ◆ Accepts TPA Type Fuses and/or LEL1 Type Circuit Breakers
- ◆ Input Shunt
- ◆ 600A Maximum Capacity
- ◆ 3/8" Clearance Holes on 1" Centers for Input Lead Connections, if required (accepts two hole lugs)
- ◆ 1/4"-20 Studs for Load Lead Connections (accepts double hole lugs on 0.625" centers)
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use in an eight (8) bus bay (Lists [1](#), [2](#), [5](#), and [6](#)) only.

Unless otherwise specified, install the circuit breaker with the highest capacity in the mounting position closest to the bus module's input busbar. Install other circuit breakers starting with the next highest capacity and working to the lowest capacity.

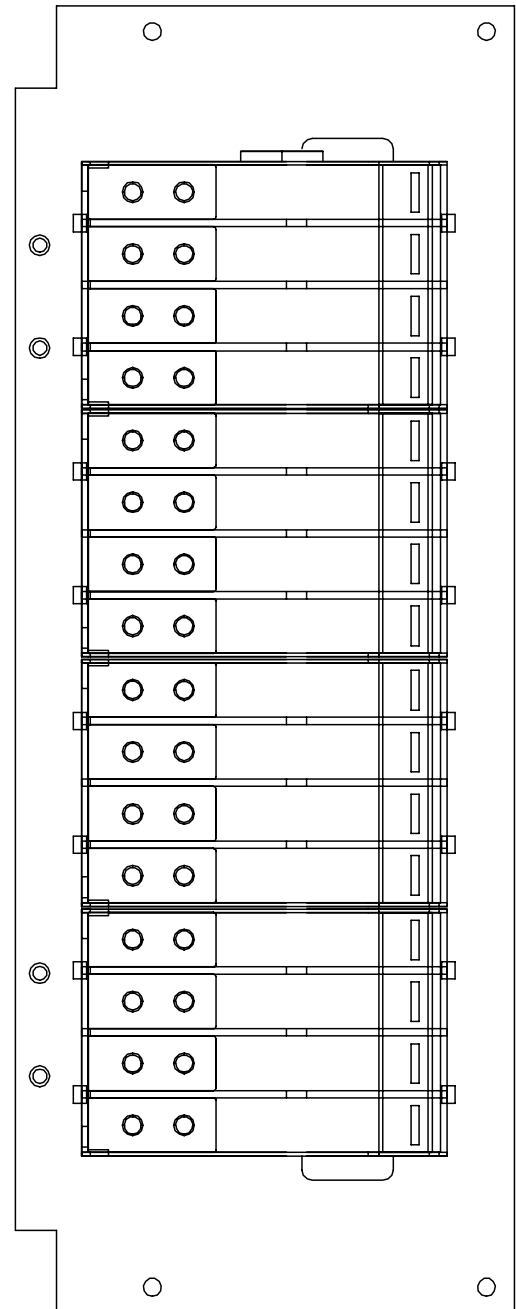
Maximum size of wire to be connected to a single fuseholder or circuit breaker position is 2 gauge.

Maximum lug width, 0.610 inches.

Caution: *Circuit breaker with a 70 ampere or greater rating SHALL HAVE an empty mounting position between it and any other overcurrent protective device.*

Ordering Notes

- 1) Order circuit breakers as required per the "Distribution Devices" [table](#). Different circuit breaker modules provide a choice of circuit breaker sizes. Each module snaps into a single mounting position of a List 11 Distribution Bus Module.
- 2) Order fuses as required per the "Distribution Devices" [table](#).
- 3) Order one (1) Part No. 248817350 fuseholder module per fuse ordered in 2) above. A single module provides for the installation of 3 to 50 ampere Bussmann TPA-type fuses. This module snaps into a single mounting position of a List 11 Distribution Bus Module.
- 4) Order input lugs (two hole, 3/8" bolt clearance hole, 1" centers) as required per "Lugs" [table](#). Input lug requirements vary if [paralleling](#) or [Input Termination Assembly](#) options ordered.
- 5) Order load lugs (two hole, 1/4" bolt clearance hole, 0.625" centers) as required for each distribution position per "Lugs" [table](#).



List 13: Distribution Bus Module (Part No. 514406)

[List of Parts](#)

Features

- ◆ 10 Fuse Positions
- ◆ Accepts (2) TPL-Type and (8) TLS/TPS-Type High Capacity Fuses
- ◆ Input Shunt
- ◆ 600A Maximum Capacity
- ◆ 3/8" Clearance Holes on 1" Centers for Input Lead Connections, if required (accepts two hole lugs)
- ◆ 1/4-20 Studs for Load Lead Connections (accepts single hole lugs) to the TLS/TPS fuseholders
- ◆ 5/16-18 Studs for Load Lead Connections (accepts single hole lugs) to the TPL fuseholders

Restrictions

For use in an eight (8) bus bay (Lists [1](#), [2](#), [5](#), and [6](#)) only.

Cannot be installed in upper most left and right Distribution Bus Module mounting positions (top or bottom feed arrangement).

TLS/TPS Fuseholder:

Maximum torque on lug adapter stud is 72 in-lbs.

Maximum size of wire to be connected to a single fuseholder position is 2 gauge.

Maximum lug width, 0.750 inches.

TPL Fuseholder:

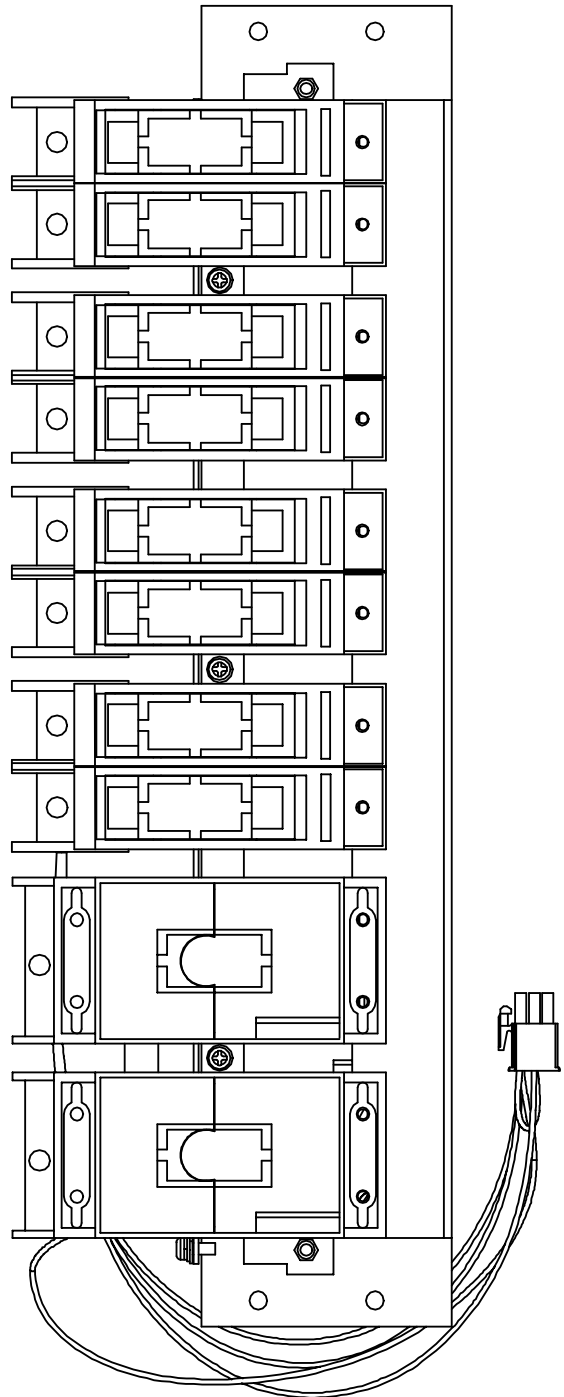
Maximum torque on lug adapter stud is 132 in-lbs.

Maximum size of wire to be connected to a single fuseholder position is 2/0 gauge.

Maximum lug width, 0.875 inches.

Ordering Notes

- 1) Order fuses as required per the [TPL](#) and [TLS/TPS](#) "Distribution Devices" tables.
- 2) Order one (1) Part No. 248610301 alarm-type fuse and one (1) Part No. 102774 safety fuse cover per distribution fuse ordered in 1) above.
- 3) Order input lugs (two hole, 3/8" bolt clearance hole, 1" centers) as required per "Lugs" [table](#). Input lug requirements vary if [paralleling](#) or [Input Termination Assembly](#) options ordered.
- 4) Order load lugs (single hole, 1/4" bolt clearance hole) as required for each TLS/TPS distribution position per "Lugs" [table](#).
- 5) Order load lugs (single hole, 5/16" bolt clearance hole) as required for each TPL distribution position per "Lugs" [table](#).



List 14: Distribution Bus Module (Part No. 505132)

[List of Parts](#)

Features

- ◆ 16 Circuit Breaker Positions, maximum
- ◆ Accepts AM1 Type Circuit Breakers
- ◆ Input Shunt
- ◆ 600A Maximum Capacity
- ◆ 3/8" Clearance Holes on 1" Centers for Input Lead Connections, if required (accepts two hole lugs)
- ◆ Single Position Breakers (1-100A): 1/4-20 Threaded Holes for Load Lead Connections (accepts double hole lugs on 0.625" centers)
- ◆ Double Position Breakers (125-150A): 3/8" Clearance Holes for Load Lead Connections (accepts double hole lugs on 1.000" centers)
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use in an eight (8) bus bay (Lists [1](#), [2](#), [5](#), and [6](#)) only.

125A and 150A breakers require two mounting positions.

Unless otherwise specified, install the circuit breaker with the highest capacity in the mounting position closest to the bus module's input busbar. Install other circuit breakers starting with the next highest capacity and working to the lowest capacity.

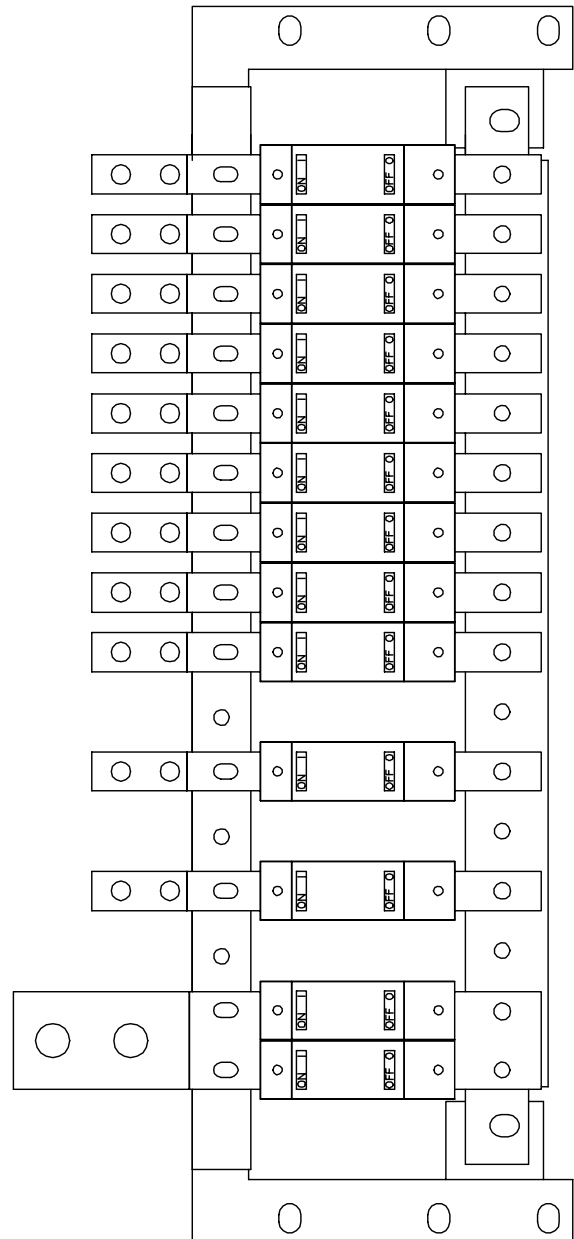
Maximum size of wire to be connected to a single circuit breaker position is 2 gauge for single position breakers and 2/0 gauge for double position breakers.

Maximum lug width, 0.610" for single position breakers and 0.875" for double position breakers.

Caution: *Circuit breaker with a 70 ampere or greater rating SHALL HAVE an empty mounting position between it and any other overcurrent protective device.*

Ordering Notes

- 1) Order circuit breakers as required per the "Distribution Devices" [table](#).
- 2) Order one (1) circuit breaker mounting kit for each circuit breaker ordered in 1) above per the "Distribution Devices" [table](#).
- 3) Order input lugs (two hole, 3/8" bolt clearance hole, 1" centers) as required per "Lugs" [table](#). Input lug requirements vary if [paralleling](#) or [Input Termination Assembly](#) options ordered.
- 4) Order load lugs (two hole, 1/4" bolt clearance hole, 0.625" centers [single position breakers]; or two hole, 3/8" bolt clearance hole, 1" centers [double position breakers]) as required for each distribution position per "Lugs" [table](#).



List 15: Distribution Bus Module (Part No. 502887)

[List of Parts](#)

Features

- ◆ 16 Fuse and/or Circuit Breaker Positions
- ◆ Accepts Bullet Nose Type Circuit Breakers and/or Bullet Nose Type Fuseholders (TLS/TPS Fuses)
- ◆ Input Shunt
- ◆ 600A Maximum Capacity
- ◆ 3/8" Clearance Holes on 1" Centers for Input Lead Connections, if required (accepts two hole lugs)
- ◆ 1/4-20 Threaded Holes for Load Lead Connections (accepts double hole lugs on 0.625" centers)
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use in an eight (8) bus bay (Lists [1](#), [2](#), [5](#), and [6](#)) only.

Unless otherwise specified, install the circuit breaker with the highest capacity in the mounting position closest to the bus module's input busbar. Install other circuit breakers starting with the next highest capacity and working to the lowest capacity.

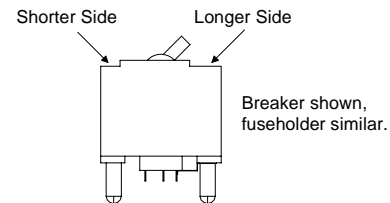
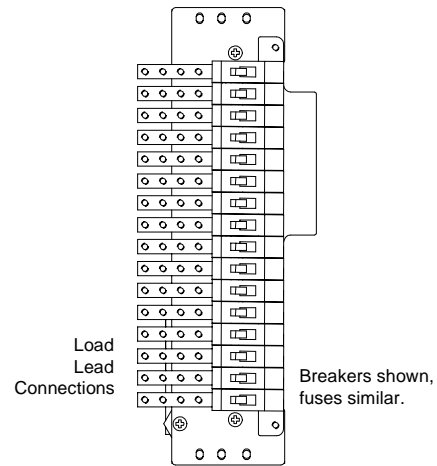
Maximum size of wire to be connected to a single circuit breaker position is 2 gauge.

Maximum lug width, 0.610 inches.

Caution: *Circuit breaker with a 70 ampere or greater rating SHALL HAVE an empty mounting position between it and any other overcurrent protective device.*

Ordering Notes

- 1) List 15 includes standard cover panel. If List 15 is to be installed in top most left position (standard spare fuseholder panel installed) or top right position (only when optional List 52 Meter Panel installed), the standard panel must be replaced with panel Part No. 502702. This part must be ordered separately as needed.
- 2) Order circuit breakers as required per the "Distribution Devices" [table](#).
- 3) Order fuses as required per the "Distribution Devices" [table](#).
- 4) Order one (1) Part No. 248610301 alarm-type fuse and one (1) Part No. 102774 safety fuse cover per distribution fuse ordered in 3) above.
- 5) Order one (1) Part No. 117201 fuseholder module per fuse ordered in 3) above. A single module provides for the installation of 3 to 100 ampere TLS/TPS-type fuses. This module snaps into a single mounting position of a List 15 Distribution Bus Module.
- 6) Order input lugs (two hole, 3/8" bolt clearance hole, 1" centers) as required per "Lugs" [table](#). Input lug requirements vary if [paralleling](#) or [Input Termination Assembly](#) options ordered.
- 7) Order load lugs (two hole, 1/4" bolt clearance hole, 0.625" centers) as required for each distribution position per "Lugs" [table](#).
- 8) Order TVSS Device(s) as required per "[Transient Voltage Surge Suppressor \(TVSS\) Device](#)" description under ACCESSORY INFORMATION.



Install Fuseholder, Breaker, and/or TVSS so Shorter Side is Towards the Load Lead Connections

Note: *Line/Load Designations on Breaker may be Different than Shown Here. The Illustration Depicts the Correct Orientation of the Breaker for this System.*

List 17: Internal Ground Bar Assembly Option [List of Parts](#)

Features

- ◆ Consists of Two (2) Ground Bar Assemblies and Two (2) Blank Cover Panels
- ◆ For installation in top feed or bottom feed arrangements. When used in top feed arrangements, ground bar assemblies are installed in top most left and right Distribution Bus Module mounting positions (appropriate blank cover panels are also installed in these positions). When used in bottom feed arrangements, ground bar assemblies are installed in bottom most left and right Distribution Bus Module mounting positions (appropriate blank cover panels are also installed in these positions). When additional List 17 ordered, these additional ground bar assemblies are installed in the adjacent Distribution Bus Module mounting positions (appropriate blank cover panels are supplied and installed in these positions).
- ◆ 1/4" Clearance Holes for Load Lead Return Connections (accepts double hole lugs on 0.625" centers)
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment
- ◆ See List [39](#) for an optional ground bar paralleling kit.

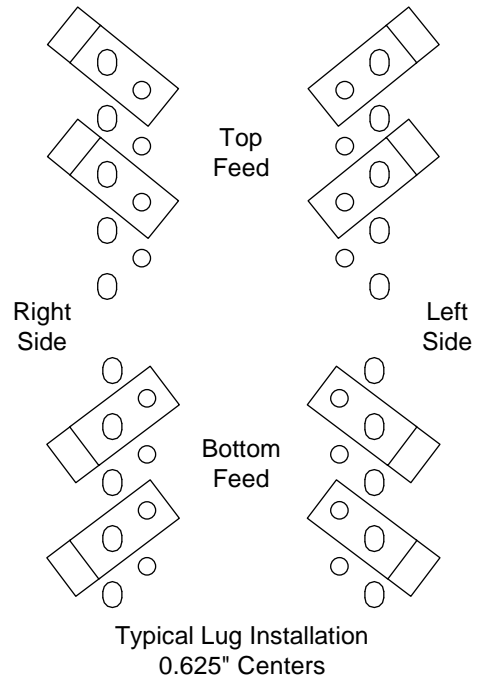
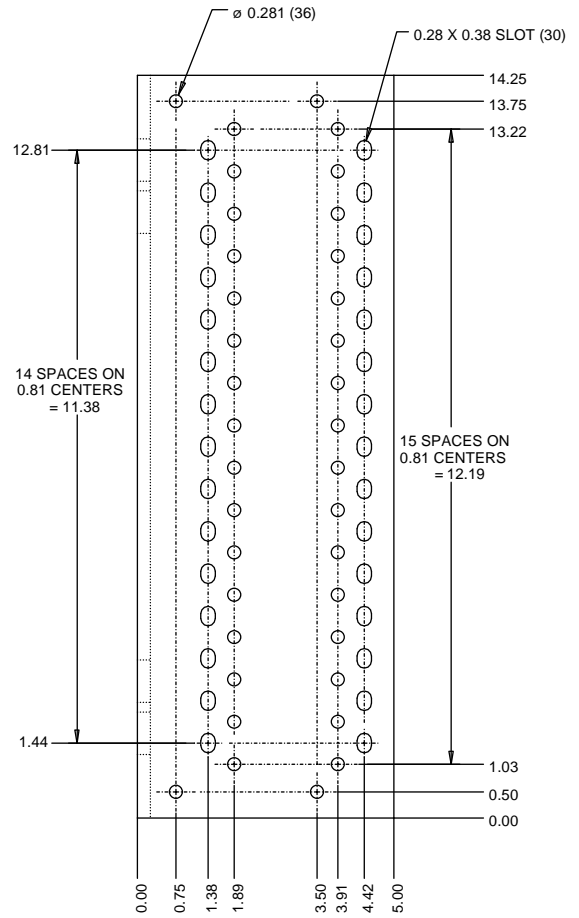
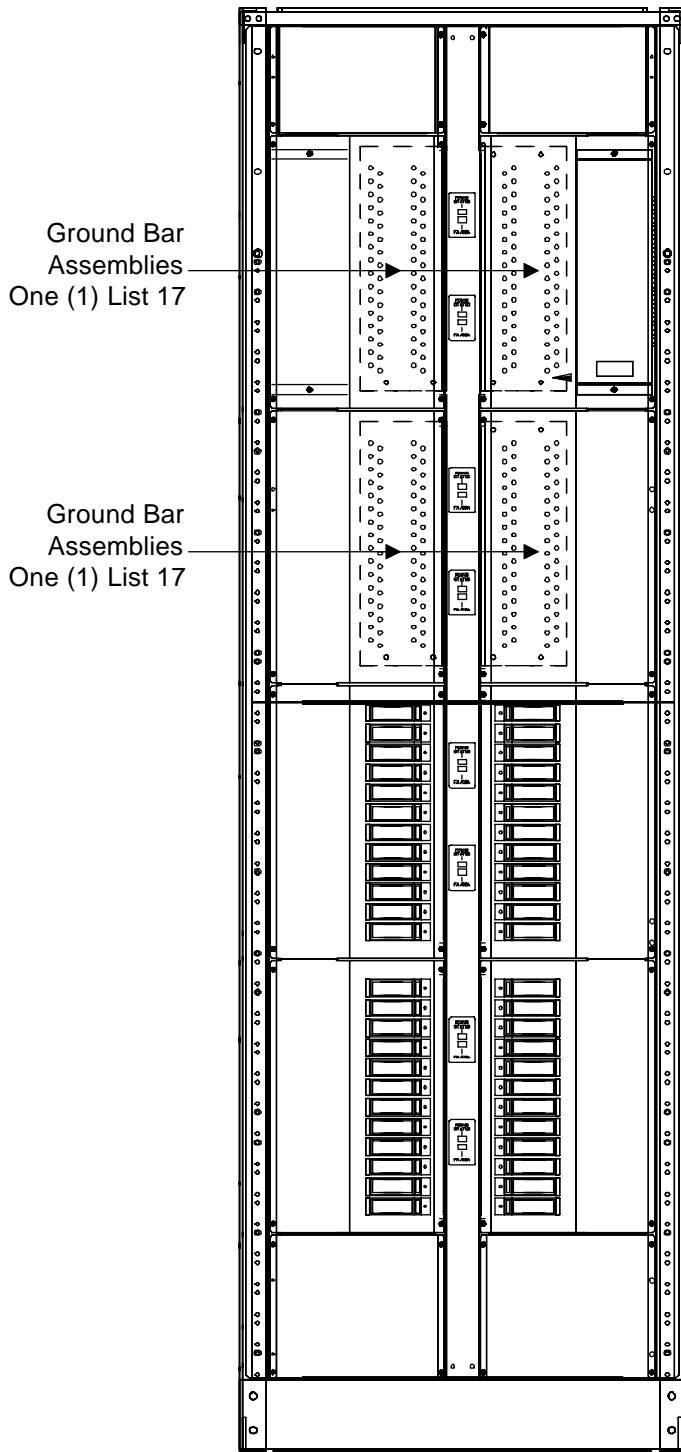
Restrictions

For use in an eight (8) bus bay (Lists [1](#), [2](#), [5](#), and [6](#)) only.

CANNOT be used with Lists [41](#) or [42](#).

Ordering Notes

- 1) Order two (2) List 17's for a fully configured 8 bus bay.
- 2) Order load lugs (two hole, 1/4" bolt clearance hole, 0.625" centers) as required for each distribution position per "Lugs" [table](#).
- 3) Order as required optional paralleling kit per List [39](#).



Top Feed Arrangement Shown
 For Bottom Feed Arrangement,
 Ground Bar Assemblies Are
 Installed in Bottom Most
 Mounting Positions

List 18: Blank Distribution Bus Module [List of Parts](#)
Mounting Position Cover Panel

Features

- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use in an eight (8) bus bay (Lists [1](#), [2](#), [5](#), and [6](#)) only.

Ordering Notes

- 1) Order blank cover panels as required for unused Distribution Bus Module mounting position (excluding positions to be populated with ground bar assemblies, blank cover panels are provided with the ground bar assemblies). List 18 is used to cover the top most left mounting position (standard spare fuseholder panel installed) or top most right mounting position (only when optional List 52 Meter Panel installed). List [19](#) is used to cover any of the remaining mounting positions or when optional List 52 Meter Panel is NOT installed.

List 19: Blank Distribution Bus Module [List of Parts](#)
Mounting Position Cover Panel

Features

- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use in an eight (8) bus bay (Lists [1](#), [2](#), [5](#), and [6](#)) only.

Ordering Notes

- 1) Order blank cover panels as required for unused Distribution Bus Module mounting position (excluding positions to be populated with ground bar assemblies, blank cover panels are provided with the ground bar assemblies). List [18](#) is used to cover the top most left mounting position (standard spare fuseholder panel installed) or top most right mounting position (only when optional List 52 Meter Panel installed). List 19 is used to cover any of the remaining mounting positions or when optional List 52 Meter Panel is NOT installed.

List 20: Distribution Bus Module (Part No. 505128)

[List of Parts](#)

Features

- ◆ 20 Fuse Positions
- ◆ Accepts TLS/TPS Type Fuses
- ◆ Input Shunt
- ◆ 600A Maximum Capacity
- ◆ 3/8" Clearance Holes on 1" Centers for Input Lead Connections, if required (accepts two hole lugs)
- ◆ 1/4"-20 Studs for Load Lead Connections (accepts single hole lugs)
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

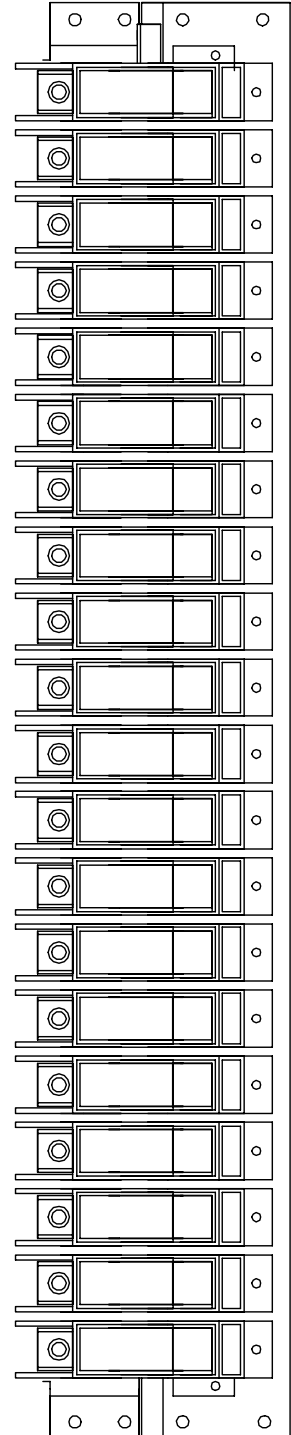
For use in an six (6) bus bay (Lists [3](#), [4](#), [7](#), and [8](#)) only.

Maximum size of wire to be connected to a single fuseholder position is 2 gauge.

Maximum lug width, 0.750 inches.

Ordering Notes

- 1) Order fuses as required per the "Distribution Devices" [table](#).
- 2) Order one (1) Part No. 248610301 alarm-type fuse and one (1) Part No. 102774 safety fuse cover per distribution fuse ordered in 1) above.
- 3) Order input lugs (two hole, 3/8" bolt clearance hole, 1" centers) as required per "Lugs" [table](#). Input lug requirements vary if [paralleling](#) or [Input Termination Assembly](#) options ordered.
- 4) Order load lugs (single hole, 1/4" bolt clearance hole) as required for each distribution position per "Lugs" [table](#).



List 20G: Distribution Bus Module (Part No. 509378)

[List of Parts](#)

Features

- ◆ 20 Fuse Positions
- ◆ Accepts TLS/TPS Type Fuses
- ◆ Equipped with Internal Ground
- ◆ Input Shunt
- ◆ 600A Maximum Capacity (Per Side); Paralleling Bars Provided
- ◆ 3/8" Clearance Holes on 1" Centers for Input Lead Connections, if required (accepts two hole lugs)
- ◆ 1/4-20 Studs for Load Lead Connections (accepts single hole lugs)
- ◆ 1/4-20 Studs for Load Lead Return Connections (accepts double hole lugs on 0.625" centers)

Restrictions

For use in an six (6) bus bay (Lists [3](#), [4](#), [7](#), and [8](#)) only.

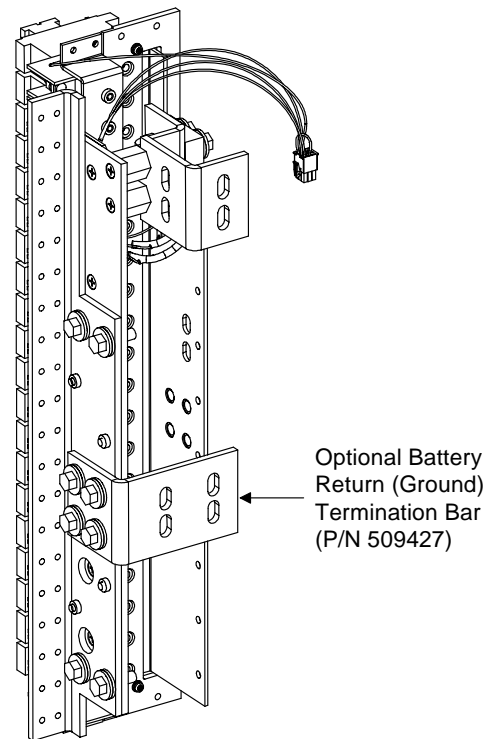
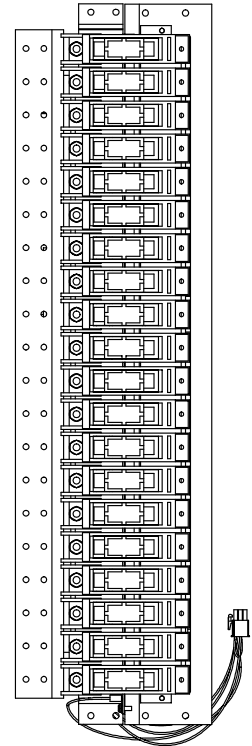
Maximum size of wire to be connected to a single fuseholder position is 2 gauge.

Maximum lug width, 0.750 inches.

If it is desired to tie the internal ground busbar of multiple modules together, a shorting busbar link (P/N 509376) is included. When paralleling inputs (Lists 30, 31, 35, 36, 37, and 38) or shorting internal ground busbars, all connected modules are limited to maximum capacity of 600A.

Ordering Notes

- 1) Order fuses as required per the "Distribution Devices" [table](#).
- 2) Order one (1) Part No. 248610301 alarm-type fuse and one (1) Part No. 102774 safety fuse cover per distribution fuse ordered in 1) above.
- 3) Order input lugs (two hole, 3/8" bolt clearance hole, 1" centers) as required per "Lugs" [table](#). Input lug requirements vary if [paralleling](#) or [Input Termination Assembly](#) options ordered.
- 4) Order load lugs (single hole, 1/4" bolt clearance hole) as required for each distribution position per "Lugs" [table](#).
- 5) Order load return lugs (two hole, 1/4" bolt clearance hole, 5/8" centers) as required for each distribution position per "Lugs" [table](#).
- 6) Battery return (ground) termination bar (P/N 509427) is an optional item on the module. If distribution module is not being paralleled, it is required on each module. If distribution module is being paralleled, specify which modules should include the termination ground bar. For List 3 and List 7 bay configurations, termination ground bars should at least be included on modules 1 and 2. For List 4 and List 8 bay configurations, termination ground bars should at least be included on modules 5 and 6.



List 21: Distribution Bus Module (Part No. 505129) [List of Parts](#)

Features

- ◆ 28 Fuse and/or Circuit Breaker Positions
- ◆ Accepts TPA Type Fuses and/or LEL1 Type Circuit Breakers
- ◆ Input Shunt
- ◆ 600A Maximum Capacity
- ◆ 3/8" Clearance Holes on 1" Centers for Input Lead Connections, if required (accepts two hole lugs)
- ◆ 1/4"-20 Studs for Load Lead Connections (accepts double hole lugs on 0.625" centers)
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use in an six (6) bus bay (lists [3](#), [4](#), [7](#), and [8](#)) only.

Unless otherwise specified, install the circuit breaker with the highest capacity in the mounting position closest to the bus module's input busbar. Install other circuit breakers starting with the next highest capacity and working to the lowest capacity.

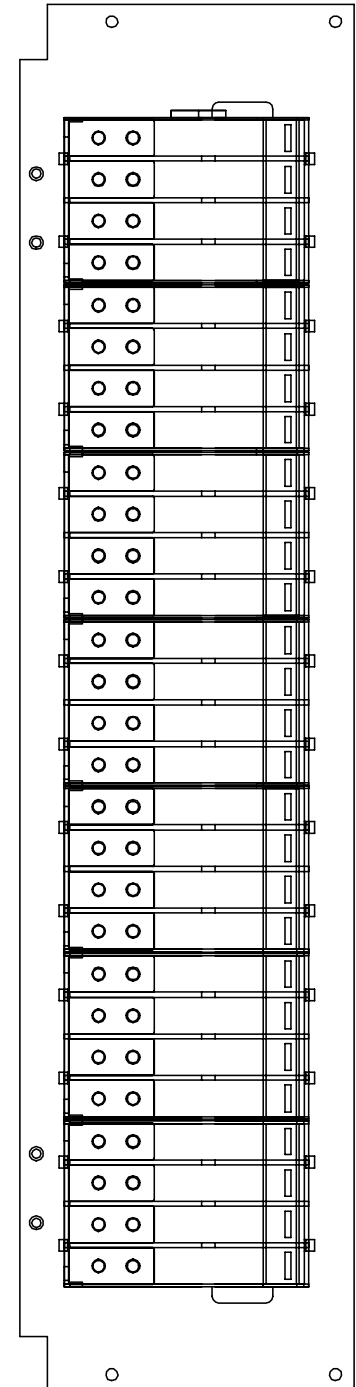
Maximum size of wire to be connected to a single fuseholder or circuit breaker position is 2 gauge.

Maximum lug width, 0.610 inches.

Caution: *Circuit breaker with a 70 ampere or greater rating SHALL HAVE an empty mounting position between it and any other overcurrent protective device.*

Ordering Notes

- 1) Order circuit breakers as required per the "Distribution Devices" [table](#). Different circuit breaker modules provide a choice of circuit breaker sizes. Each module snaps into a single mounting position of a List 21 Distribution Bus Module.
- 2) Order fuses as required per the "Distribution Devices" [table](#).
- 3) Order one (1) Part No. 248817350 fuseholder module per fuse ordered in 2) above. A single module provides for the installation of 3 to 50 ampere Bussmann TPA-type fuses. This module snaps into a single mounting position of a List 21 Distribution Bus Module.
- 4) Order input lugs (two hole, 3/8" bolt clearance hole, 1" centers) as required per "Lugs" [table](#). Input lug requirements vary if [paralleling](#) or [Input Termination Assembly](#) options ordered.
- 5) Order load lugs (two hole, 1/4" bolt clearance hole, 0.625" centers) as required for each distribution position per "Lugs" [table](#).



List 23: Distribution Bus Module (Part No. 509364) [List of Parts](#)

Features

- ◆ 17 Fuse Positions
- ◆ Accepts (3) TPL-Type and (14) TLS/TPS-Type High Capacity Fuses
- ◆ Input Shunt
- ◆ 600A Maximum Capacity
- ◆ 3/8" Clearance Holes on 1" Centers for Input Lead Connections, if required (accepts two hole lugs)
- ◆ 1/4-20 Studs for Load Lead Connections (accepts single hole lugs) to the TLS/TPS fuseholders
- ◆ 5/16-18 Studs for Load Lead Connections (accepts single hole lugs) to the TPL fuseholders

Restrictions

For use in an six (6) bus bay (Lists [3](#), [4](#), [7](#), and [8](#)) only.

Cannot be installed in upper most left and right Distribution Bus Module mounting positions (top or bottom feed arrangement).

TLS/TPS Fuseholder:

Maximum torque on lug adapter stud is 72 in-lbs.

Maximum size of wire to be connected to a single fuseholder position is 2 gauge.

Maximum lug width, 0.750 inches.

TPL Fuseholder:

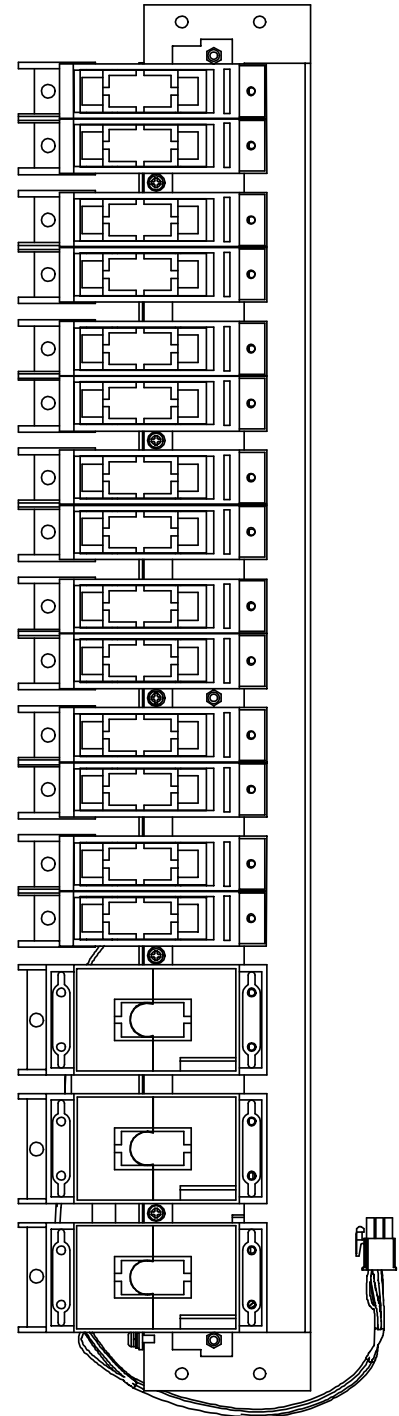
Maximum torque on lug adapter stud is 132 in-lbs.

Maximum size of wire to be connected to a single fuseholder position is 2/0 gauge.

Maximum lug width, 0.875 inches.

Ordering Notes

- 1) Order fuses as required per the [TPL](#) and [TLS/TPS](#) "Distribution Devices" tables.
- 2) Order one (1) Part No. 248610301 alarm-type fuse and one (1) Part No. 102774 safety fuse cover per distribution fuse ordered in 1) above.
- 3) Order input lugs (two hole, 3/8" bolt clearance hole, 1" centers) as required per "Lugs" [table](#). Input lug requirements vary if [paralleling](#) or [Input Termination Assembly](#) options ordered.
- 4) Order load lugs (single hole, 1/4" bolt clearance hole) as required for each TLS/TPS distribution position per "Lugs" [table](#).
- 5) Order load lugs (single hole, 5/16" bolt clearance hole) as required for each TPL distribution position per "Lugs" [table](#).



List 24: Distribution Bus Module (Part No. 505131) [List of Parts](#)

Features

- ◆ 28 Circuit Breaker Positions, maximum
- ◆ Accepts AM1 Type Circuit Breakers
- ◆ Input Shunt
- ◆ 600A Maximum Capacity
- ◆ 3/8" Clearance Holes on 1" Centers for Input Lead Connections, if required (accepts two hole lugs)
- ◆ Single Position Breakers (1-100A): 1/4-20 Threaded Holes for Load Lead Connections (accepts double hole lugs on 0.625" centers)
- ◆ Double Position Breakers (125-150A): 3/8" Clearance Holes for Load Lead Connections (accepts double hole lugs on 1.000" centers)
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use in an six (6) bus bay (Lists [3](#), [4](#), [7](#), and [8](#)) only.

125A and 150A breakers require two mounting positions.

Unless otherwise specified, install the circuit breaker with the highest capacity in the mounting position closest to the bus module's input busbar. Install other circuit breakers starting with the next highest capacity and working to the lowest capacity.

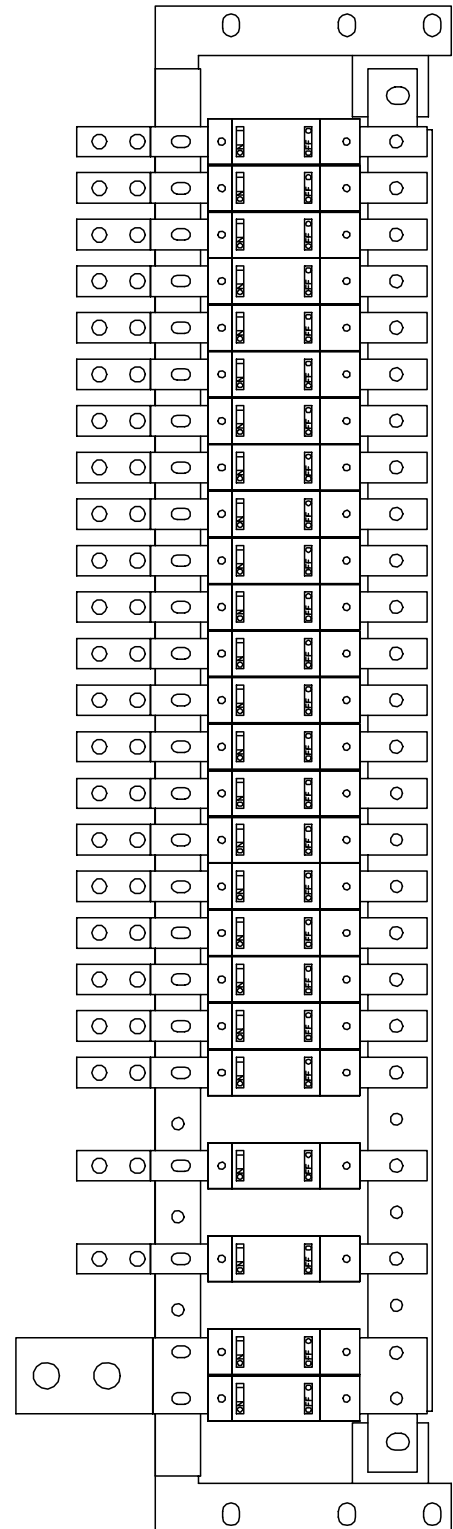
Maximum size of wire to be connected to a single circuit breaker position is 2 gauge for single position breakers and 2/0 gauge for double position breakers.

Maximum lug width, 0.610" for single position breakers and 0.875" for double position breakers.

Caution: *Circuit breaker with a 70 ampere or greater rating SHALL HAVE an empty mounting position between it and any other overcurrent protective device.*

Ordering Notes

- 1) Order circuit breakers as required per the "Distribution Devices" [table](#).
- 2) Order one (1) circuit breaker mounting kit for each circuit breaker ordered in 1) above per the "Distribution Devices" [table](#).
- 3) Order input lugs (two hole, 3/8" bolt clearance hole, 1" centers) as required per "Lugs" [table](#). Input lug requirements vary if [paralleling](#) or [Input Termination Assembly](#) options ordered.
- 4) Order load lugs (two hole, 1/4" bolt clearance hole, 0.625" centers [single position breakers]; or two hole, 3/8" bolt clearance hole, 1" centers [double position breakers]) as required for each distribution position per "Lugs" [table](#).



List 25: Distribution Bus Module (Part No. 502616) [List of Parts](#)

Features

- ◆ 28 Fuse and/or Circuit Breaker Positions
- ◆ Accepts Bullet Nose Type Circuit Breakers and/or Bullet Nose Type Fuseholders (TLS/TPS Fuses)
- ◆ Input Shunt
- ◆ 600A Maximum Capacity
- ◆ 3/8" Clearance Holes on 1" Centers for Input Lead Connections, if required (accepts two hole lugs)
- ◆ 1/4-20 Threaded Holes for Load Lead Connections (accepts double hole lugs on 0.625" centers)
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use in an six (6) bus bay (Lists [3](#), [4](#), [7](#), and [8](#)) only.

Unless otherwise specified, install the circuit breaker with the highest capacity in the mounting position closest to the bus module's input busbar. Install other circuit breakers starting with the next highest capacity and working to the lowest capacity.

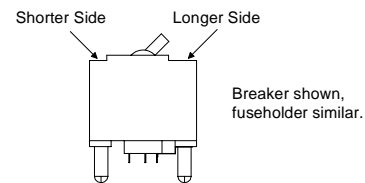
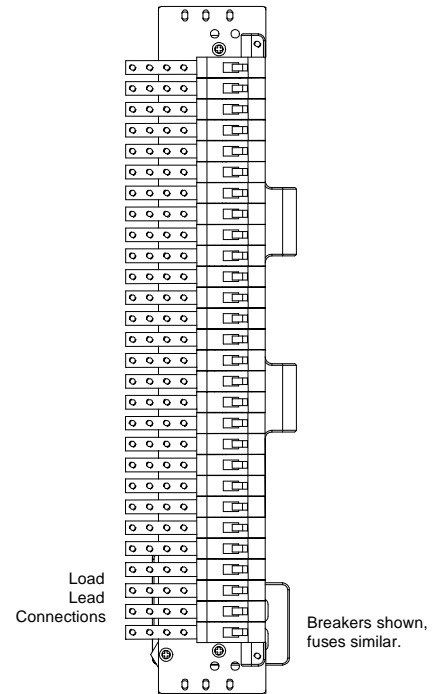
Maximum size of wire to be connected to a single circuit breaker position is 2 gauge.

Maximum lug width, 0.610 inches.

Caution: *Circuit breaker with a 70 ampere or greater rating SHALL HAVE an empty mounting position between it and any other overcurrent protective device.*

Ordering Notes

- 1) List 25 includes standard cover panel. If List 25 is to be installed in top most left position (standard spare fuseholder panel installed) or top right position (only when optional List 52 Meter Panel installed), the standard panel must be replaced with panel Part No. 502701. This part must be ordered separately as needed.
- 2) Order circuit breakers as required per the "Distribution Devices" [table](#).
- 3) Order fuses as required per the "Distribution Devices" [table](#).
- 4) Order one (1) Part No. 248610301 alarm-type fuse and one (1) Part No. 102774 safety fuse cover per distribution fuse ordered in 3) above.
- 5) Order one (1) Part No. 117201 fuseholder module per fuse ordered in 3) above. A single module provides for the installation of 3 to 100 ampere TLS/TPS-type fuses. This module snaps into a single mounting position of a List 25 Distribution Bus Module.
- 6) Order input lugs (two hole, 3/8" bolt clearance hole, 1" centers) as required per "Lugs" [table](#). Input lug requirements vary if [paralleling](#) or [Input Termination Assembly](#) options ordered.
- 7) Order load lugs (two hole, 1/4" bolt clearance hole, 0.625" centers) as required for each distribution position per "Lugs" [table](#).
- 8) Order TVSS Device(s) as required per "[Transient Voltage Surge Suppressor \(TVSS\) Device](#)" description under ACCESSORY INFORMATION.



Install Fuseholder, Breaker, and/or TVSS so Shorter Side is Towards the Load Lead Connections

Note: *Line/Load Designations on Breaker may be Different than Shown Here. The Illustration Depicts the Correct Orientation of the Breaker for this System.*

List 27: Internal Ground Bar Assembly Option

[List of Parts](#)

Features

- ◆ Consists of Two (2) Ground Bar Assemblies and Two (2) Blank Cover Panels
- ◆ For installation in top feed or bottom feed arrangements. When used in top feed arrangements, ground bar assemblies are installed in top most left and right Distribution Bus Module mounting positions (appropriate blank cover panels are also installed in these positions). When used in bottom feed arrangements, ground bar assemblies are installed in bottom most left and right Distribution Bus Module mounting positions (appropriate blank cover panels are supplied and installed in these positions).
- ◆ 1/4" Clearance Holes for Load Lead Return Connections (accepts double hole lugs on 0.625" centers)
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

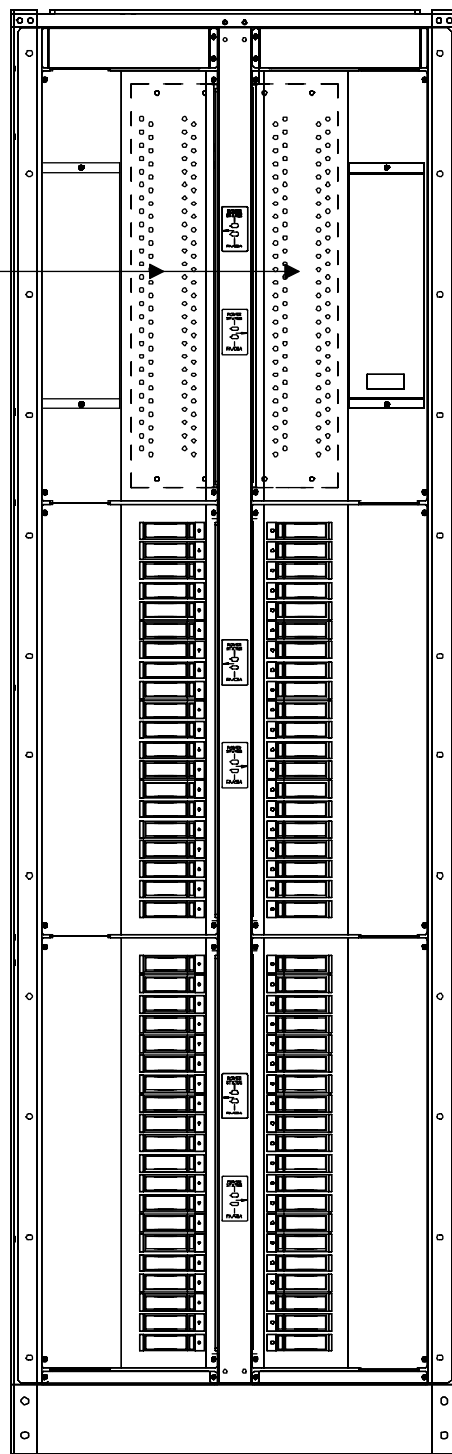
For use in a six (6) bus bay (Lists [3](#), [4](#), [7](#), and [8](#)) only.

CANNOT be used with Lists [43](#) or [44](#).

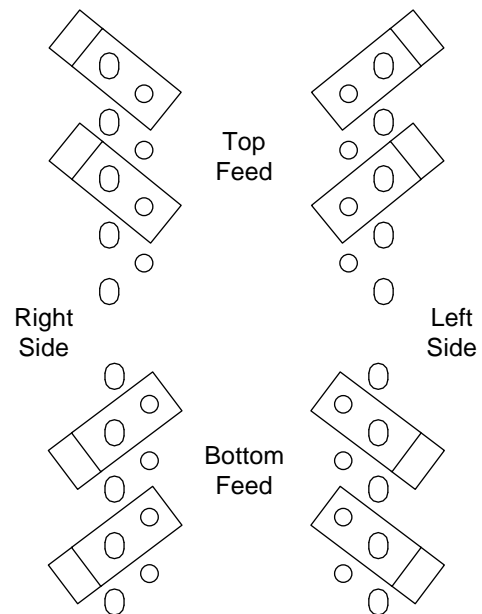
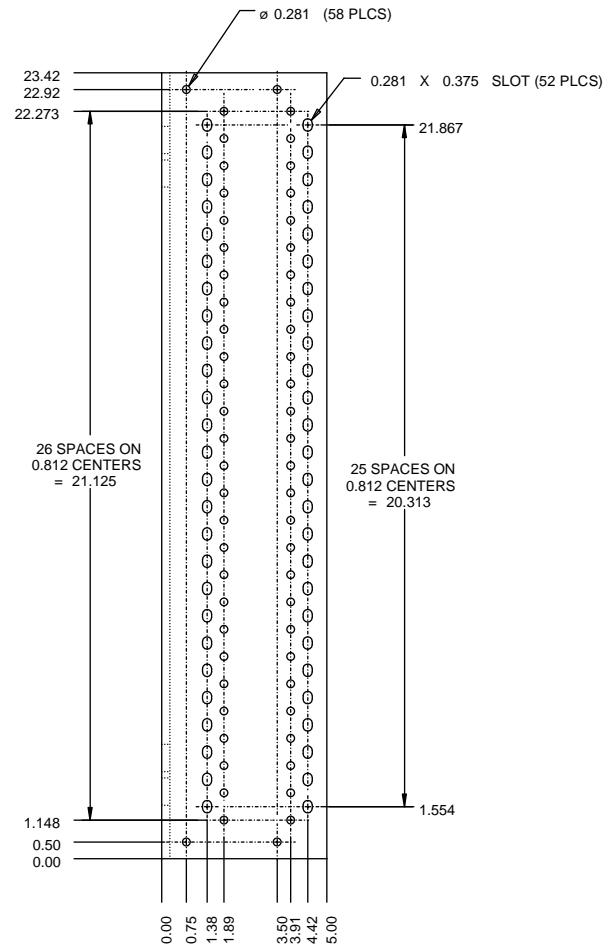
Ordering Notes

- 1) Order one (1) List 27 for a fully configured 6 bus bay.
- 2) Order load lugs (two hole, 1/4" bolt clearance hole, 0.625" centers) as required for each distribution position per "Lugs" [table](#).

Ground Bar Assemblies
 One (1) List 27



Top Feed Arrangement Shown
 For Bottom Feed Arrangement,
 Ground Bar Assemblies Are
 Installed in Bottom Most
 Mounting Positions



Typical Lug Installation
 0.625" Centers

**List 28: Blank Distribution Bus Module
Mounting Position Cover Panel**

[List of Parts](#)

Features

- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use in an six (6) bus bay (Lists [3](#), [4](#), [7](#), and [8](#)) only.

Ordering Notes

- 1) Order blank cover panels as required for unused Distribution Bus Module mounting position (excluding positions to be populated with ground bar assemblies, blank cover panels are provided with the ground bar assemblies). List 28 is used to cover the top most left mounting position (standard spare fuseholder panel installed) or top most right mounting position (only when optional List 52 Meter Panel installed). List [29](#) is used to cover any of the remaining mounting positions or when optional List 52 Meter Panel is NOT installed.

**List 29: Blank Distribution Bus Module
Mounting Position Cover Panel**

[List of Parts](#)

Features

- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use in an six (6) bus bay (Lists [3](#), [4](#), [7](#), and [8](#)) only.

Ordering Notes

- 1) Order blank cover panels as required for unused Distribution Bus Module mounting position (excluding positions to be populated with ground bar assemblies, blank cover panels are provided with the ground bar assemblies). List [28](#) is used to cover the top most left mounting position (standard spare fuseholder panel installed) or top most right mounting position (only when optional List 52 Meter Panel installed). List 29 is used to cover any of the remaining mounting positions or when optional List 52 Meter Panel is NOT installed.

List 30: Parallel Distribution Bus Module Option (Internal) [List of Parts](#)

Features

- ◆ Parallels the Inputs of Two Distribution Bus Modules (distribution bus modules must be located above and below each other)
- ◆ Paralleled Distribution Bus Modules Current Monitored by a Single Common Input Shunt
- ◆ 600A Maximum Capacity per Paralleled Bus Arrangement
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use in an eight (8) bus bay (Lists [1](#), [2](#), [5](#), and [6](#)) only.

See "[Distribution Bus Module Paralleling Options](#)" table for paralleling option selection.

Ordering Notes

- 1) Order one (1) List 30 per valid distribution bus module junction to be paralleled to a common input.
- 2) Order multiple options to parallel a string of distribution bus modules, (this allows each distribution side to require one, two, or three separate inputs; as configured).
- 3) When paralleling a List 10, 11, 12, or 14 Bus Module purchased before 6/30/00 with a List 10, 11, 12, or 14 Bus Module purchased after 6/30/00, order also the following additional items.
 - a) Qty. (1) "Z-Bar" Bracket; Part No. 504822 for List 11, 357382200 for Lists 10 and 14, 357382300 for List 12
 - b) Qty. (4) 3/8" Flat Washer, Part No. 214204100
 - c) Qty. (4) 3/8" x 1-1/2" Bolt, Part No. 227647000
 - d) Qty. (4) 3/8" Belleville Lock Washer, Part No. 214825000
 - e) Qty. (4) 3/8-16 Hex Nut, Part No. 228567100

List 31: Parallel Distribution Bus Module Option (Internal) [List of Parts](#)

Features

- ◆ Parallels the Inputs of Two Distribution Bus Modules (distribution bus modules must be located above and below each other)
- ◆ Paralleled Distribution Bus Modules Current Monitored by a Single Common Input Shunt
- ◆ 600A Maximum Capacity per Paralleled Bus Arrangement
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use in a six (6) bus bay (Lists [3](#), [4](#), [7](#), and [8](#)) only.

See "[Distribution Bus Module Paralleling Options](#)" table for paralleling option selection.

Ordering Notes

- 1) Order one (1) List 31 per valid distribution bus module junction to be paralleled to a common input.
- 2) Order multiple options to parallel a string of distribution bus modules, (this allows each distribution side to require one or two separate inputs, as configured).

[Home](#)

- 3) When paralleling a List 20, 21, 22, or 24 Bus Module purchased before 6/30/00 with a List 20, 21, 22, or 24 Bus Module purchased after 6/30/00, order also the following additional items.
 - a) Qty. (1) "Z-Bar" Bracket; Part No. 504822 for List 21, 357382200 for Lists 20 and 24, 357382300 for List 22
 - b) Qty. (4) 3/8" Flat Washer, Part No. 214204100
 - c) Qty. (4) 3/8" x 1-1/2" Bolt, Part No. 227647000
 - d) Qty. (4) 3/8" Belleville Lock Washer, Part No. 214825000
 - e) Qty. (4) 3/8-16 Hex Nut, Part No. 228567100

List 35: Parallel Distribution Bus Module Option (Internal) [List of Parts](#)

Features

- ◆ Parallels the Inputs of Two Distribution Bus Modules (distribution modules must be located above and below each other)
- ◆ Paralleled Distribution Bus Modules Current Monitored by Individual Input Shunts
- ◆ 600A Maximum Capacity per Paralleled Bus Arrangement
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use in an eight (8) bus bay (Lists [1](#), [2](#), [5](#), and [6](#)) only.

See "[Distribution Bus Module Paralleling Options](#)" table for paralleling option selection.

Ordering Notes

- 1) Order one (1) List 35 per valid distribution bus module junction to be paralleled to a common input.
- 2) Order multiple options to parallel a string of distribution bus modules, (this allows each distribution side to require one, two, or three separate inputs, as configured).

List 36: Parallel Distribution Bus Module Option (Internal) [List of Parts](#)

Features

- ◆ Parallels the Inputs of Two Distribution Bus Modules (distribution modules must be located above and below each other)
- ◆ Paralleled Distribution Bus Modules Current Monitored by Individual Input Shunts
- ◆ 600A Maximum Capacity per Paralleled Bus Arrangement
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use in a six (6) bus bay (Lists [3](#), [4](#), [7](#), and [8](#)) only.

See "[Distribution Bus Module Paralleling Options](#)" table for paralleling option selection.

Ordering Notes

- 1) Order one (1) List 36 per valid distribution bus module junction to be paralleled to a common input
- 2) Order multiple options to parallel a string of distribution bus modules, (this allows each distribution side to require one or two separate inputs, as configured).

List 37: Parallel Distribution Bus Module Option (Internal) [List of Parts](#)

Features

- ◆ Parallels the Inputs of Two Distribution Bus Modules (distribution modules must be located above and below each other)
- ◆ Paralleled Distribution Bus Modules Current Monitored by a Single Common Input Shunt
- ◆ 600A Maximum Capacity per Paralleled Bus Arrangement
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use in an eight (8) bus bay (Lists [1](#), [2](#), [5](#), and [6](#)) only.

See "[Distribution Bus Module Paralleling Options](#)" table for paralleling option selection.

Ordering Notes

- 1) Order one (1) List 37 per valid distribution bus module junction to be paralleled to a common input.
- 2) Order multiple options to parallel a string of distribution bus modules, (this allows each distribution side to require one, two, or three separate inputs, as configured).

List 38: Parallel Distribution Bus Module Option (Internal) [List of Parts](#)

Features

- ◆ Parallels the Inputs of Two Distribution Bus Modules (distribution modules must be located above and below each other)
- ◆ Paralleled Distribution Bus Modules Current Monitored by a Single Common Input Shunt
- ◆ 600A Maximum Capacity per Paralleled Bus Arrangement
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use in an six (6) bus bay (Lists [3](#), [4](#), [7](#), and [8](#)) only.

See "[Distribution Bus Module Paralleling Options](#)" table for paralleling option selection.

Ordering Notes

- 1) Order one (1) List 38 per valid distribution bus module junction to be paralleled to a common input.
- 2) Order multiple options to parallel a string of distribution bus modules, (this allows each distribution side to require one or two separate inputs, as configured).

List 39: Optional Internal Ground Bar Assembly Paralleling Kit (8-Bus Bay Only) [List of Parts](#)

Features

- ◆ Parallels two Internal Ground Bar Assemblies ([List 17](#)) (must be located above and below each other).
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use in an eight (8) bus bay (Lists [1](#), [2](#), [5](#), and [6](#)) only.

Ordering Notes

- 1) Order two (2) List 39 for each [List 17](#) to be paralleled. Note that each List 17 consists of two (2) Ground Bar Assemblies.

List 41: Optional Input Termination Assembly [List of Parts](#)

Features

- ◆ Input of Each Distribution Bus Module Factory Wired to Input Termination Assembly. The cable is 500MCM made from Lucent KS-20921 L1. This cable is Hypalon (chlorosulphonated polyethylene insulation) with a temperature rating of 90°C. The UL File No. is E18321 and indicates Type RH, RHH, RHW, RHW-2, SA, SIS, XHHW, XHHW-2 Thermoset-Insulated. The cable is also compliant to UL 44.
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use in an eight (8) bus top feed bay (Lists [1](#) and [5](#)) only.

CANNOT be used with Lists [17](#).

Ordering Notes

- 1) Order input lugs (two hole, 3/8" bolt clearance hole, 1" centers) as required per "Lugs" [table](#). Input lug requirements vary if [paralleling](#) options ordered.

List 42: Optional Input Termination Assembly [List of Parts](#)

Features

- ◆ Input of Each Distribution Bus Module Factory Wired to Input Termination Assembly. The cable is 500MCM made from Lucent KS-20921 L1. This cable is Hypalon (chlorosulphonated polyethylene insulation) with a temperature rating of 90°C. The UL File No. is E18321 and indicates Type RH, RHH, RHW, RHW-2, SA, SIS, XHHW, XHHW-2 Thermoset-Insulated. The cable is also compliant to UL 44.
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use in an eight (8) bus bottom feed bay (Lists [2](#) and [6](#)) only.

CANNOT be used with Lists [17](#).

Ordering Notes

- 1) Order input lugs (two hole, 3/8" bolt clearance hole, 1" centers) as required per "Lugs" [table](#). Input lug requirements vary if [paralleling](#) options ordered.

List 43: Optional Input Termination Assembly [List of Parts](#)

Features

- ◆ Input of Each Distribution Bus Module Factory Wired to Input Termination Assembly. The cable is 500MCM made from Lucent KS-20921 L1. This cable is Hypalon (chlorosulphonated polyethylene insulation) with a temperature rating of 90°C. The UL File No. is E18321 and indicates Type RH, RHH, RHW, RHW-2, SA, SIS, XHHW, XHHW-2 Thermoset-Insulated. The cable is also compliant to UL 44.
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use in a six (6) bus top feed bay (Lists [3](#) and [7](#)) only.

CANNOT be used with List [27](#).

Ordering Notes

- 1) Order input lugs (two hole, 3/8" bolt clearance hole, 1" centers) as required per "Lugs" [table](#). Input lug requirements vary if [paralleling](#) options ordered.

List 44: Optional Input Termination Assembly [List of Parts](#)

Features

- ◆ Input of Each Distribution Bus Module Factory Wired to Input Termination Assembly. The cable is 500MCM made from Lucent KS-20921 L1. This cable is Hypalon (chlorosulphonated polyethylene insulation) with a temperature rating of 90°C. The UL File No. is E18321 and indicates Type RH, RHH, RHW, RHW-2, SA, SIS, XHHW, XHHW-2 Thermoset-Insulated. The cable is also compliant to UL 44.
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

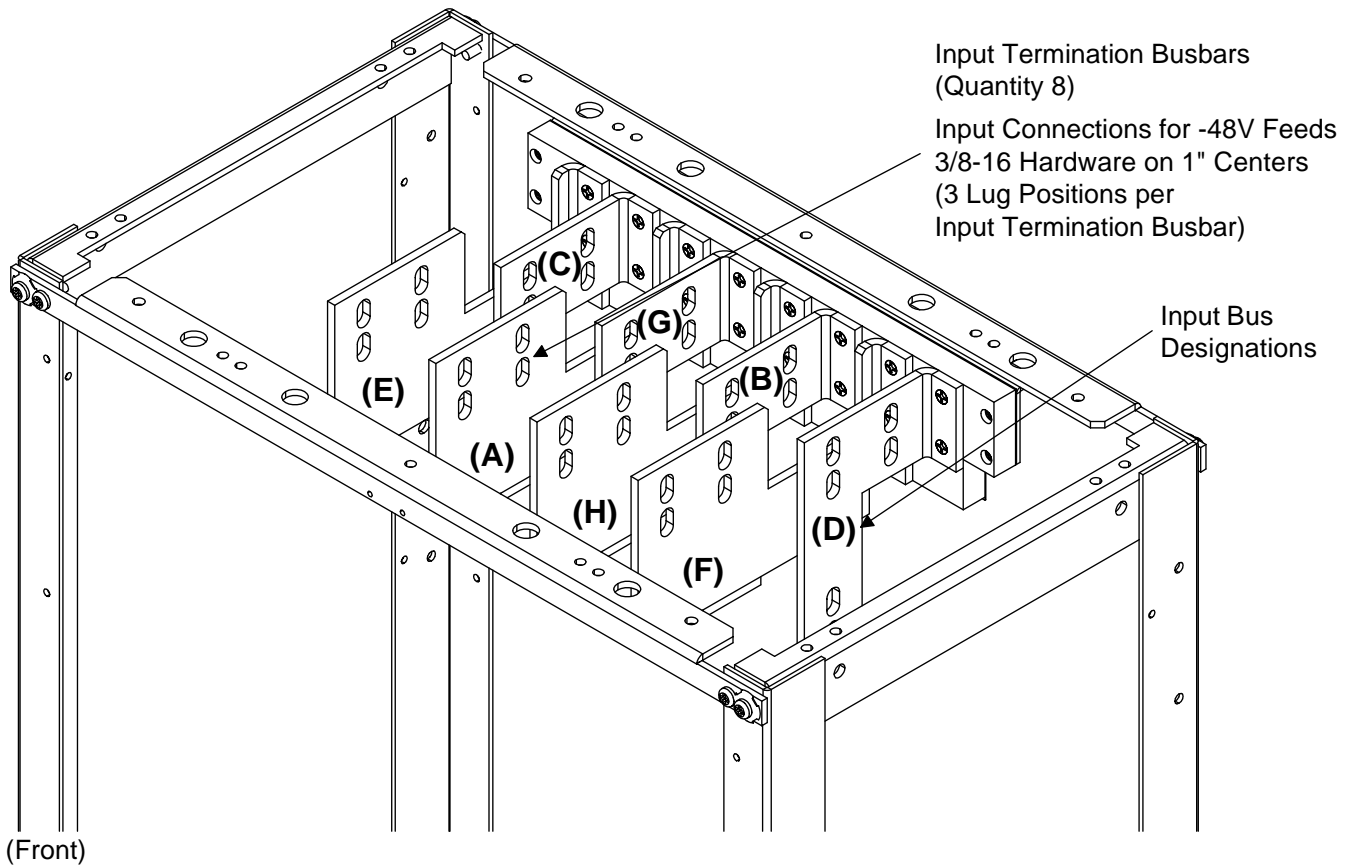
Restrictions

For use in a six (6) bus bottom bay (Lists [4](#) and [8](#)) only.

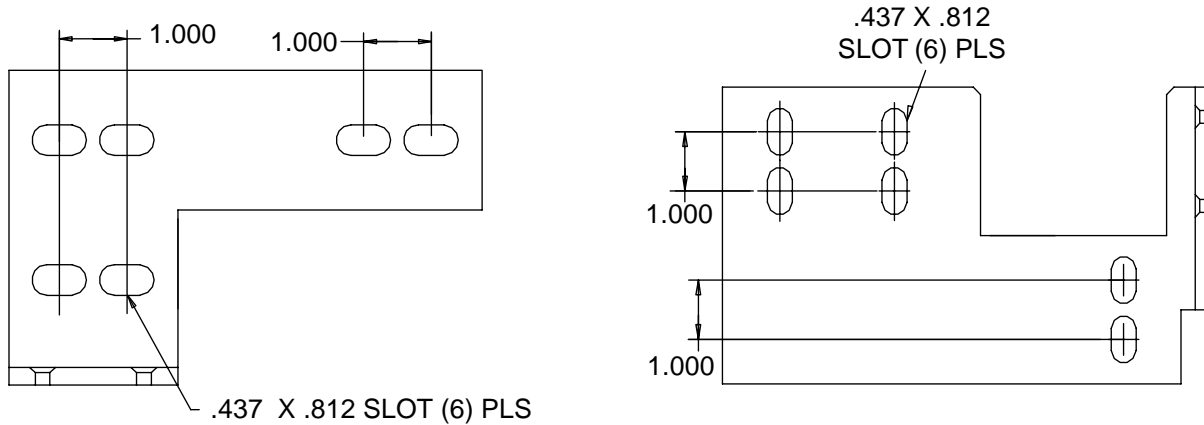
CANNOT be used with List [27](#).

Ordering Notes

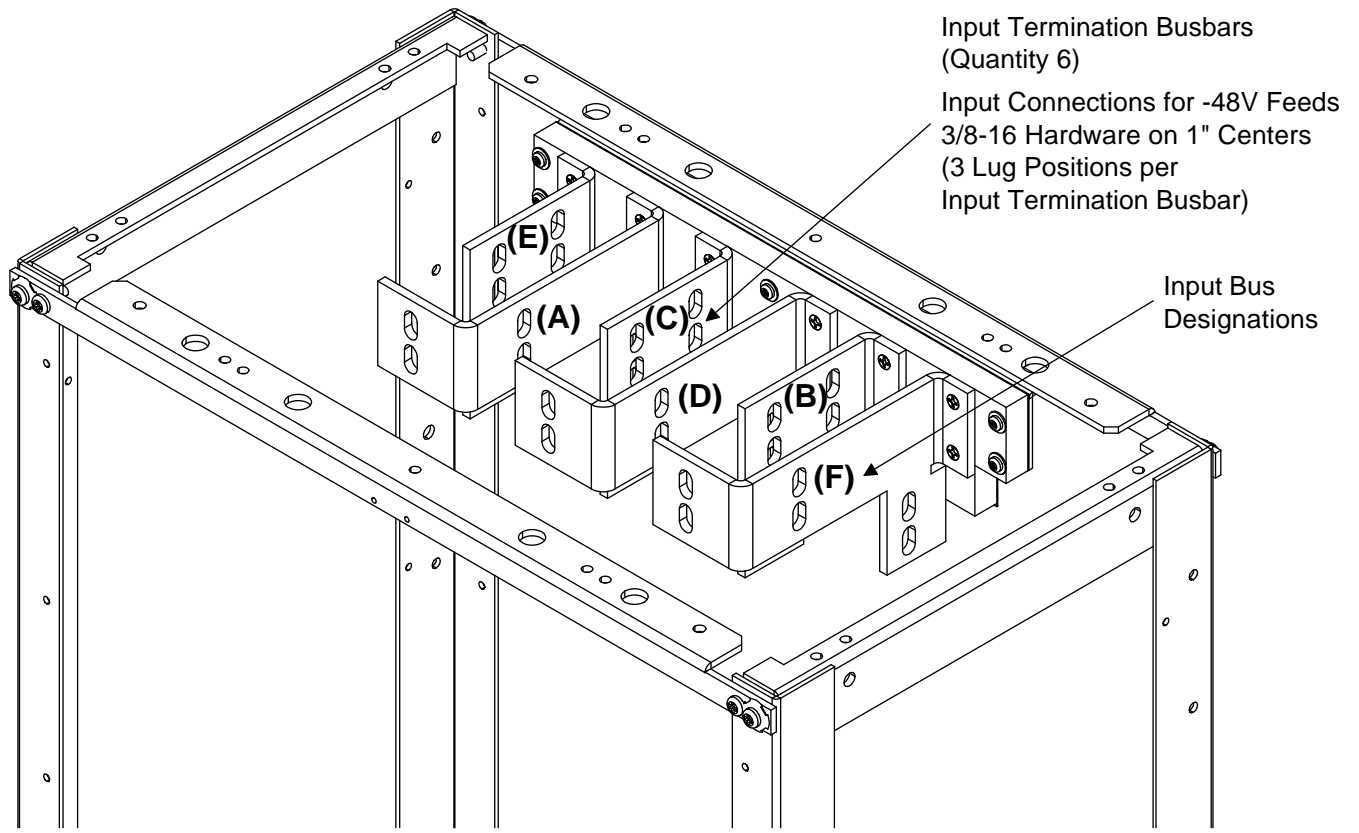
- 1) Order input lugs (two hole, 3/8" bolt clearance hole, 1" centers) as required per "Lugs" [table](#). Input lug requirements vary if [paralleling](#) options ordered.



Optional Input Termination
 Panel for 8-Bus Bay Top Feed
 (Top View)
 (List 41 Shown, List 42 Similar)

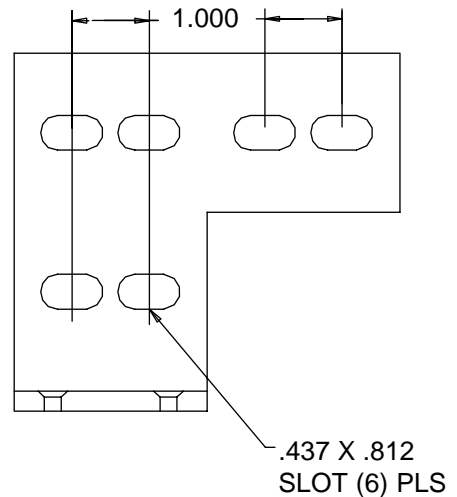
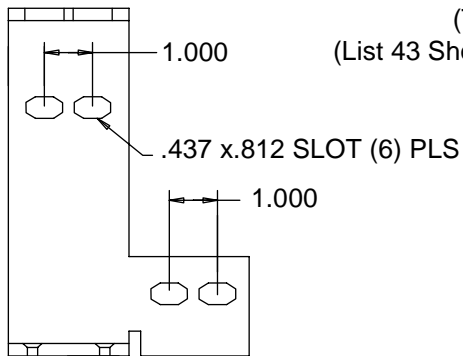


Typical Input Busbars
 (accepts two hole lugs with
 3/8" bolt clearance slots
 and 1" centers)

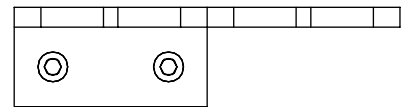
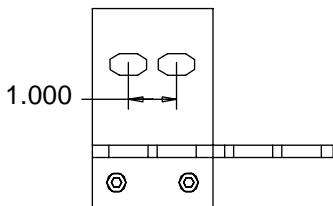


(Front)

Optional Input Termination
 Panel for 6-Bus Bay Top Feed
 (Top View)
 (List 43 Shown, List 44 Similar)



Typical Input Busbars
 (accepts two hole lugs with
 3/8" bolt clearance slots
 and 1" centers)



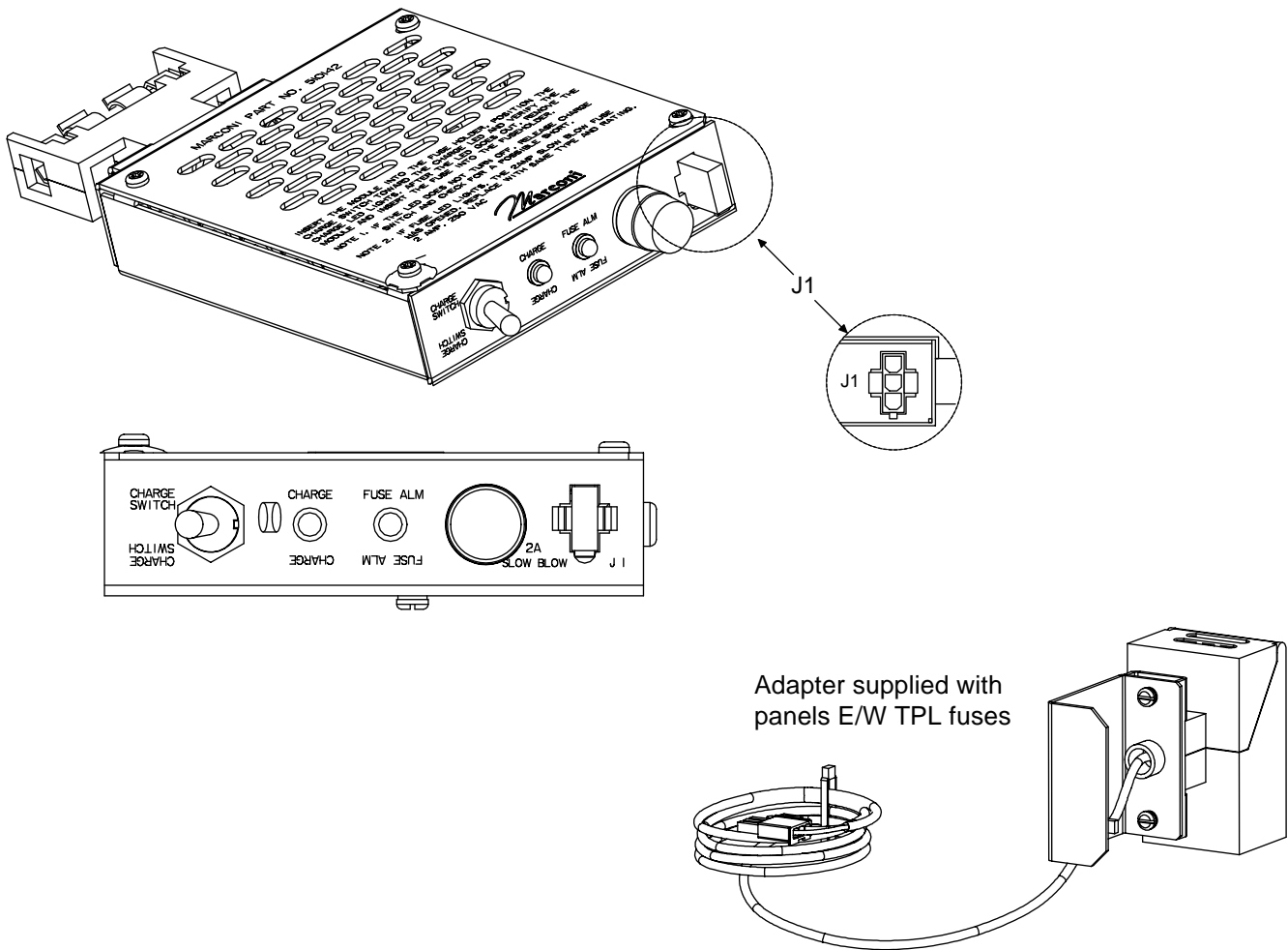
List 50: Optional Capacitor Precharge Assembly [List of Parts](#)

Features

- ◆ Portable Hand-Held Unit
- ◆ Allows Capacitors of a DC Load to be Initially Charged before a TLS/TPS or TPL Distribution Fuse is Inserted. This Prevents the Fuse from Possibly Blowing Open as it is Inserted Due to High Capacitor Charging Current.
- ◆ Designed to Plug Directly into a TLS/TPS Type Fuseholder Case. Adapter Furnished with Distribution Panels Equipped with TPL Type Fuseholders which Plugs Directly into a TPL Type Fuseholder Case.
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For Use with Lists [10](#), [13](#), [20](#), [20G](#), and [23](#).



List 51: Dressing Bar Option [List of Parts](#)

Features

- ◆ Provides Adjustable Grooming Bar to Allow Customer to Dress Output Load Cables Along the Sides of the System
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use with Lists [1-8](#).

Not for use with List [53](#).

Ordering Notes

- 1) Order dressing bars as required.

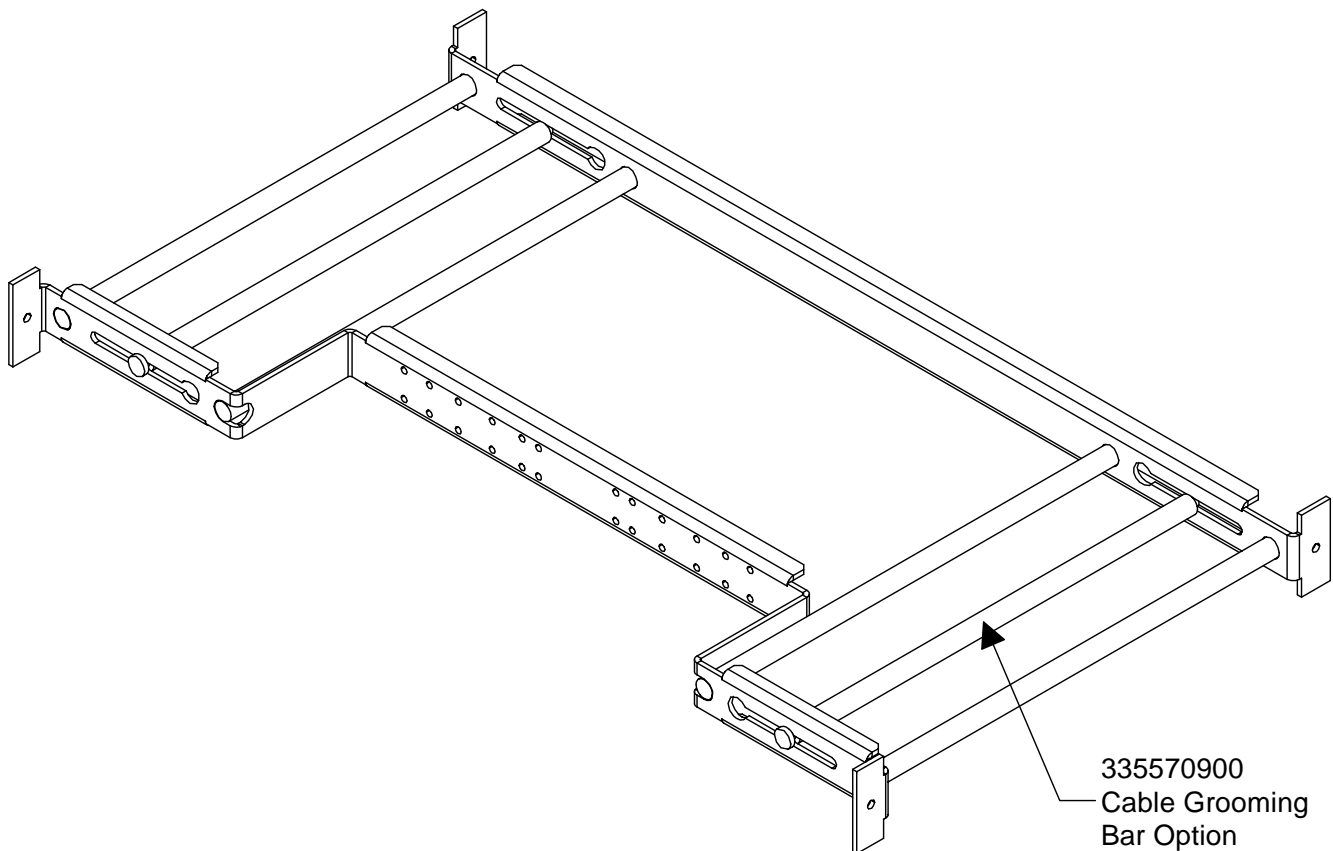
Maximum of eight (8) dressing bars to be ordered for an eight (8) bus bay (Lists [1](#), [2](#), [5](#), and [6](#)).

Maximum of six (6) dressing bars to be ordered for a six (6) bus bay (Lists [3](#), [4](#), [7](#), and [8](#)).

- 2) Additional dressing bars may be ordered when using boxframe extensions.

Maximum of four (4) additional dressing bars to be ordered when using the two foot (2') extension (List [60](#)).

Maximum of six (6) additional dressing bars to be ordered when using the four foot six inch (4'6") extension (List [61](#)).



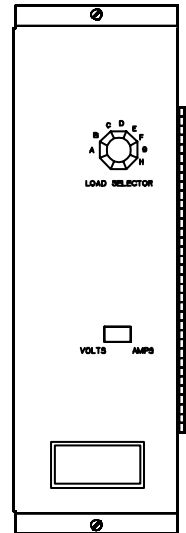
[Home](#)

List 52: Optional Digital Meter Panel Assembly

[List of Parts](#)

Features

- ◆ Provides a Digital Meter for Local Display of Load Voltage and Load Current. Voltage or Current is Selectable via a Local Toggle Switch. Load Current is Selectable via an Eight Position Rotary Switch. This Allows for Up to Eight Load Shunts to be Monitored.
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment



List 53: Distribution (Load) Wiring Management Kit

[List of Parts](#)

Features

- ◆ Provides Twelve (12) Cable Separators and Self-Adhesive Wiring Instruction Labels as a Method to Manage Wiring.
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

Not for use with List [51](#).

Ordering Notes

- 1) Order one (1) kit per bay. Order an additional kit if Box Framework Extensions are ordered.

List 56: Meter and Alarm Power In-Line Fuse Kit

[List of Parts](#)

Features

- ◆ The In-Line Fuse Kit is a Field Installable Option that Allows Internally Powered Meter and Alarm Circuits vs. External Powered Meter and Alarm Circuits.
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Ordering Notes

- 1) One (1) required for base installation. Order two (2) if bay is equipped with 2 or more isolated loads.
- 2) In-Line fuse kit comes furnished with a 3 amp fuse. If additional fuses required, order Part No. 101014.

List 57: Lockable Door Option

[List of Parts](#)

Features

- ◆ Provides a Lockable Front Door Panel to the Bay, the Door is Locked with a Key.
- ◆ Prevents Unauthorized Access to the BDF/CBB.
- ◆ Factory or Field Installable.

Ordering Notes

- 1) Order one (1) option per bay, as required.

List 59: 1 Foot Box Framework Extension [List of Parts](#)

Features

- ◆ The 1 Foot Box Framework Extension Allows a Standard 7 Foot Box Framework to Extend to 8 Feet.
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use with Lists [1-8](#).

List 60: 2 Foot Box Framework Extension [List of Parts](#)

Features

- ◆ The 2 Foot Box Framework Extension Allows a Standard 7 Foot Box Framework to Extend to 9 Feet.
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use with Lists [1-8](#).

List 61: 4-1/2 Foot Box Framework Extension [List of Parts](#)

Features

- ◆ The 4-1/2 Foot Box Framework Extension Allows a Standard 7 Foot Box Framework to Extend to 11-1/2 Feet.
- ◆ Up to NEBS Level 3 Compliant, depending on Common Equipment

Restrictions

For use with Lists [1-8](#).

Lists 70-79: Special Application Configurations

- ◆ Consists of a Modified List [7](#) Six Bus Top Feed Bay (Lists 70-76) or Modified List [8](#) Six Bus Bottom Feed Bay (List 79)
- ◆ Also Includes List [52](#) Digital Meter Assembly
- ◆ Lists 70-76 are Provided with Special 20 Position TLS/TPS Distribution Fuse Module (with shunts) Installed in the Top Right and Left Positions
- ◆ List 76 does not Include any Other Distribution Modules (blank covers provided for unused positions)
- ◆ Lists 71, 73, and 75 are Provided with Special 20 Position TLS/TPS Distribution Fuse Module (without shunts) Installed in the Middle Right and Left Positions (blank panels provided for bottom unused positions)
- ◆ Lists 70, 72, and 74 are Provided with Special 20 Position TLS/TPS Distribution Fuse Module (without shunts) Installed in the Middle and Bottom Right and Left Positions
- ◆ Lists 72 and 73 are Provided with 2' Box Framework Extension
- ◆ Lists 74 and 75 are Provided with 4'6" Box Framework Extension
- ◆ List 77 Provides a Spare Special 20 Position TLS/TPS Distribution Fuse Module (with shunts), for use with Lists 70-79 as required.
- ◆ List 78 Provides a Spare Special 20 Position TLS/TPS Distribution Fuse Module (without shunts), for use with Lists 70-79 as required.

[Home](#)

- ◆ List 79 is a Bottom Feed Arrangement of List 76
- ◆ Up to NEBS Level 3 Compliant, Depending on Common Equipment

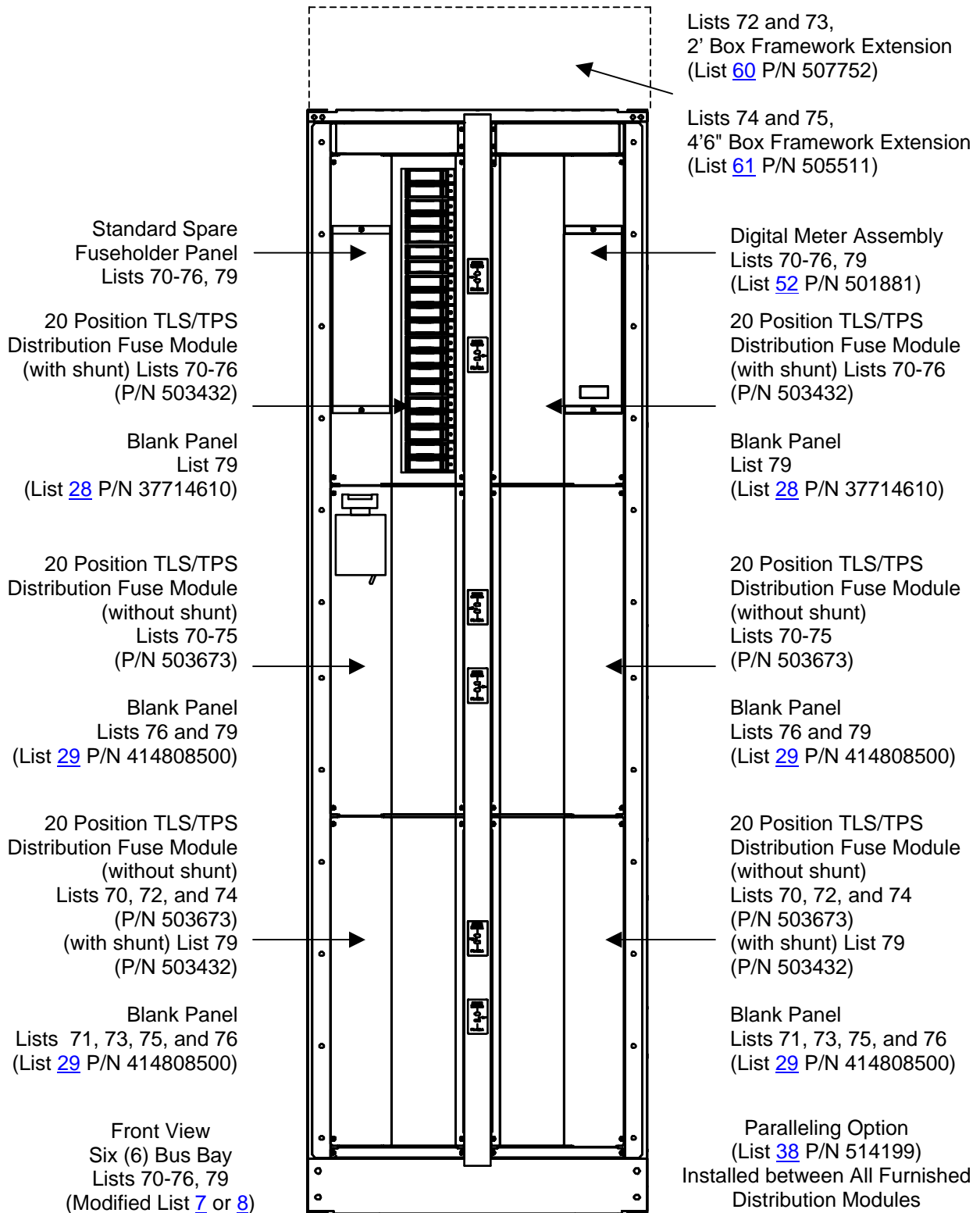
[Home](#)

Installed Equipment	List									
	70	71	72	73	74	75	76	77	78	79
Modified Six Bus Top or Bottom Feed Bay (Modified List 7 or 8 E/W cable mounting tray P/N 102823)	Top Feed	Top Feed	Top Feed	Top Feed	Top Feed	Top Feed	Top Feed	N/A	N/A	Btm Feed
Digital Meter Assembly (List 52 P/N 501881)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes
20 Position TLS/TPS Distribution Fuse Module (with Shunts) (provided as a spare) (P/N 503432)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	N/A	N/A
20 Position TLS/TPS Distribution Fuse Module (with Shunts) Installed in Top Left and Right Module Positions (P/N 503432)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	No
20 Position TLS/TPS Distribution Fuse Module (with Shunts) Installed in Bottom Left and Right Module Positions (P/N 503432)	No	No	No	No	No	No	No	N/A	N/A	Yes
20 Position TLS/TPS Distribution Fuse Module (without Shunts) (provided as a spare) (P/N 503673)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	N/A
20 Position TLS/TPS Distribution Fuse Module (without Shunts) Installed in Middle Left and Right Module Positions (P/N 503673)	Yes	Yes	Yes	Yes	Yes	Yes	No	N/A	N/A	No
20 Position TLS/TPS Distribution Fuse Module (without Shunts) Installed in Bottom Left and Right Module Positions (P/N 503673)	Yes	No	Yes	No	Yes	No	No	N/A	N/A	No

[Home](#)

Installed Equipment	List									
	70	71	72	73	74	75	76	77	78	79
Interconnect Paralleling Busbars (List 38 P/N 514199)	Four	Four	Four	Four	Four	Four	N/A	N/A	N/A	N/A
Blank Panels (List 29 P/N 414808500)	No	Two	No	Two	No	Two	Four	N/A	N/A	Two
2' Bay Extension (List 60 P/N 507752)	No	No	Yes	Yes	No	No	No	N/A	N/A	No
4'6" Bay Extension (List 61 P/N 505511)	No	No	No	No	Yes	Yes	No	N/A	N/A	No
NEBS Compliance	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3
List of Parts	Go To List	Go To List	Go To List	Go To List	Go To List	Go To List	Go To List	Go To List	Go To List	Go To List

Lists 70-79



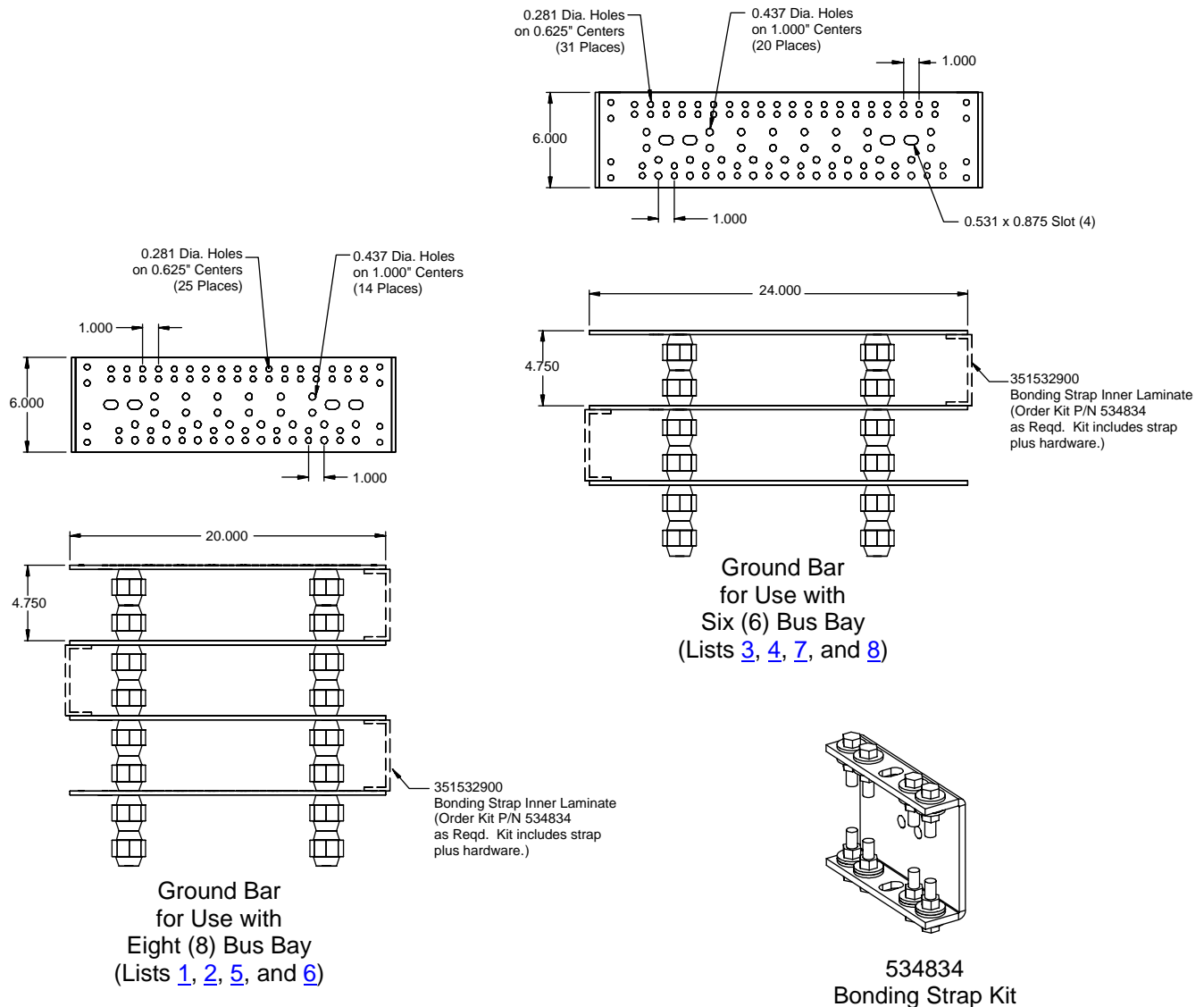
ACCESSORY INFORMATION

External Ground Bar Assemblies

GROUND BAR ASSEMBLIES	
8 Bus Bay Ground Bar Assembly	436110200
6 Bus Bay Ground Bar Assembly	436110300
Bonding Strap Kit	534834

Ordering Notes

- 1) Order Ground Bar Assemblies as required, two per bay.
- 2) Order Bonding Strap Kit as required. Kit includes one strap plus hardware.
- 3) Order input return lugs (two hole, 1/4" bolt clearance hole, 0.625" centers; or two hole, 3/8" bolt clearance hole, 1" centers) as required per "Lugs" [table](#).



Transient Voltage Surge Suppressor (TVSS) Device

Features

- ◆ When properly grounded, the device(s) suppresses transient voltages that are above 60 VDC.
- ◆ Contains an indicator which lights when circuit has activated to suppress voltages.
- ◆ Plugs into distribution device mounting positions of a [List 15](#) and [List 25](#) Distribution Bus Module.

Restrictions

To be used with Distribution Bus Modules [List 15](#) and [List 25](#) only.

All unparallelled Distribution Bus Modules require a TVSS Device, only one (1) TVSS Device required per parallelled groups of Distribution Bus Modules.

Unless otherwise specified, install the TVSS Device in the mounting position closest to the bus module's input busbar.

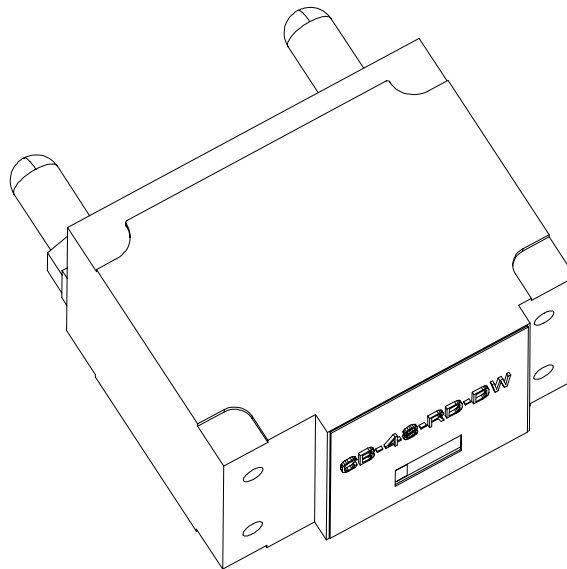
Wire to be sized so that the maximum wire resistance is less than 0.550 milliohms.

Maximum lug width, 0.610 inches.

Caution: *The TVSS Device occupies two mounting positions. Leave an additional empty mounting position between the TVSS Device and any overcurrent protective device.*

Ordering Notes

- 1) Order kit P/N 520401 (includes TVSS Device P/N 122201 plus lug mtg. hardware) as required. Customer to supply grounding lead(s) with lugs to connect from TVSS Device(s) into customer's grounding network.



Distribution Devices

TLS/TPS-Type Fuses

Restrictions

This table is to be used to order fuses for Lists [10](#), [13](#), [20](#), [20G](#), and [23](#) (3-70A fuses only).

This table is to be used to order Bullet Nose-Type Fuseholders (if required) for Lists [15](#) and [25](#), and the associated fuses (3-100A).

Note: Load should not exceed 80% of device rating.

TLS/TPS-TYPE FUSES			
AMPERE RATING	EMERSON NETWORK POWER P/N	BUSSMANN P/N	LITTELFUSE P/N
3	248230900	TPS-3	TLS003
5	248231000	TPS-5	TLS005
6	248231200	TPS-6	TLS006
10	248231500	TPS-10	TLS010
15	248231800	TPS-15	TLS015
20	248232100	TPS-20	TLS020
25	248232400	TPS-25	TLS025
30	248232700	TPS-30	TLS030
40	248233300	TPS-40	TLS040
50	248233900	TPS-50	TLS050
60	248234200	TPS-60	TLS060
70	248234500	TPS-70	TLS070
80	118413	--	TLS080
90	118414	--	TLS090
100	118415	--	TLS100
18/100A GMT Alarm Fuse	248610301	GMT-A	--
Safety Fuse Cover	102774	GMT-Y	--
Bullet Nose-Type Fuseholder	117201	--	--

TPA-Type Fuses

Restrictions

This table is to be used to order fuses for Lists [11](#) and [21](#).

Note: Load should not exceed 80% of device rating.

TPA-TYPE FUSES	
AMPERE RATING	PART NUMBER
3	248230901
5	248231001
10	248231600
15	248231900
20	248232200
25	248232500
30	248232800
40	248233400
50	248234000
TPA-Type Fuseholder Module	248817350

TPL-Type Fuses

Restrictions

This table is to be used to order fuses for Lists [13](#) and [23](#).

Note: Load should not exceed 80% of device rating.

TPL-TYPE FUSES	
AMPERE RATING	PART NUMBER
70	248251500
80	248252000
100	248252600
150	248253300
18/100A GMT Alarm Fuse	248610301
Safety Fuse Cover	102774

LEL1-Type Circuit Breakers

Restrictions

This table is to be used to order fuses for Lists [11](#) and [21](#).

Note: Load should not exceed 80% of device rating.

LEL1-TYPE CIRCUIT BREAKERS		
AMPERE RATING	PART NUMBER	PART NUMBER
	<u>Electrical/ Mechanical Trip¹</u> (Black Handle)	<u>Electrical Trip²</u> (White Handle)
3	256690701	256690801
5	256691101	256691201
10	256691501	256691601
15	256691901	256692001
20	256692301	256692401
25	256692701	256692801
30	256693101	256693201
40	256693901	256694001
50	256694301	256694401
60	256694701	256694801
70 (see Caution below)	256695101	256695201
75 (see Caution below)	256695501	256695601
100 (see Caution below)	256695901	256696001

Circuit Breaker Alarm Operation:

- ¹ Provides an alarm during an electrical or manual trip condition.
- ² Provides an alarm during an electrical trip condition only.

Caution: Circuit breaker with a 70 ampere or greater rating **SHALL HAVE** an empty mounting position between it and any other overcurrent protective device.

AM1-Type Circuit Breakers and Kits

Restrictions

This table is to be used to order fuses for Lists [14](#) and [24](#).

Note: Load should not exceed 80% of device rating.

AM1-TYPE CIRCUIT BREAKERS AND KITS			
AMPERE RATING	PART NUMBER <u>Electrical/ Mechanical Trip</u> ¹	PART NUMBER <u>Electrical Trip</u> ²	BREAKER KIT PART NUMBER
1	256690300	256690400	502302
3	256690700	256690800	502302
5	256691100	256691200	502302
10	256691500	256691600	502302
15	256691900	256692000	502302
20	256692300	256692400	502302
25	256692700	256692800	502302
30	256693100	256693200	502302
35	256693500	256693600	502302
40	256693900	256694000	502302
50	256694300	256694400	502302
60	256694700	256694800	502302
70 (see Caution below)	256695100	256695200	502302
75 (see Caution below)	256695500	256695600	502302
100 (see Caution below)	256695900	256696000	502302
125 (see Caution below)	100765 (requires two mounting positions)	100762 (requires two mounting positions)	501894
150 (see Caution below)	100763 (requires two mounting positions)	100764 (requires two mounting positions)	501894

Circuit Breaker Alarm Operation:

- ¹ Provides an alarm during an electrical or manual trip condition.
- ² Provides an alarm during an electrical trip condition only.

Caution: Circuit breaker with a 70 ampere or greater rating **SHALL HAVE** an empty mounting position between it and any other overcurrent protective device.

Bullet Nose-Type Circuit Breakers

Restrictions

This table is to be used to order fuses for Lists [15](#) and [25](#).

Note: Load should not exceed 80% of device rating.

BULLET NOSE-TYPE CIRCUIT BREAKERS		
AMPERE RATING	PART NUMBER	
	<u>Electrical/ Mechanical Trip</u> ¹	<u>Electrical Trip</u> ²
1	101596	102272
3	101597	102273
5	101598	102274
10	101599	102275
15	101600	102276
20	101601	102277
25	101602	102278
30	101603	102279
35	101604	102280
40	101605	102281
50	101606	102282
60	101607	102283
70 (see Caution below)	101608	102284
75 (see Caution below)	101609	102285
100 (see Caution below)	101610	102286

Circuit Breaker Alarm Operation:

- ¹ Provides an alarm during an electrical or manual trip condition.
- ² Provides an alarm during an electrical trip condition only.

Caution: Circuit breaker with a 70 ampere or greater rating SHALL HAVE an empty mounting position between it and any other overcurrent protective device.

Lugs

For lug selection, refer to the following [tables](#).

For additional lug information, refer to Drawings 031110100 through 031110300.

Distribution (Load) Lugs

All lugs for customer connections must be ordered separately.

Distribution (load) lug requirements are determined by the distribution bus modules ordered. Refer to the following for lug specifications.

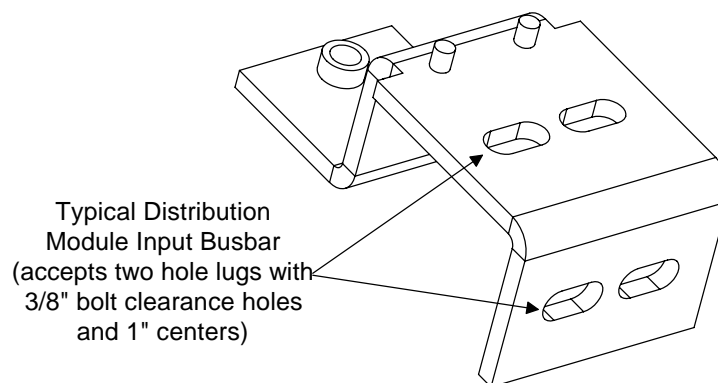
Distribution (load) conductors and lugs are connected to the various fuseholders and/or circuit breakers provided on the [distribution bus modules](#) installed in the bay. [Internal](#) and [external](#) ground busbars are also available for load return connections.

Input Lugs

All lugs for customer connections must be ordered separately.

Input lug requirements are determined by site requirements. Refer to the following for lug specifications.

Input conductors and lugs are connected to the input busbar of each distribution bus module installed in the system, or each set of paralleled distribution bus modules. An optional Input Termination Assembly is available which is factory mounted to the top or bottom of the bay. If furnished, each distribution bus module is factory wired to the optional Input Termination Assembly. Customer then connects input leads to the Input Termination Assembly. Internal and external ground busbars are also available for input return connections.



CRIMP LUGS (Single Hole, 1/4" Bolt Clearance Hole)	
LEAD SIZE (Ga.)	PART NUMBER
8	245350400
6	245350600
4	245350700
2	245350800
1	245350900
1/0	245351000
2/0	245351100
3/0	245351200
4/0	245351300

CRIMP LUGS (Two-Hole, 1/4" Bolt Clearance Hole, 0.625" Centers)	
LEAD SIZE (Ga.)	PART NUMBER
14-10	245342300
8	245390200
6	245346700
4	245346800
2	245346900
1	245347000

[Home](#)

CRIMP LUGS (Two-Hole Lug, 3/8" Bolt Clearance Hole, 1" Centers)	
LEAD SIZE (Ga.)	PART NUMBER
8	245349800
6	245349900
4	245350000
2	245348200
1/0	245347100
2/0	245347200
3/0	245347300
4/0	245347400
250 KCMIL	245347500
300 KCMIL	245347600
350 KCMIL	245347700
400 KCMIL	245347800
500 KCMIL	245347900
600 KCMIL	245348000
750 KCMIL	245348100

CRIMP LUGS (Single Hole, 5/16" Bolt Clearance Hole)	
LEAD SIZE (Ga.)	PART NUMBER
6	245351380
4	245351390
2	245351400
1	120224

Special Application Crimp Lug / Strap Combination

Straps Two LEL1-Type Circuit Breaker Mounting Block Wiring Positions Together, and Provides a Crimp-Type Lug which Allows Distribution Wiring Up to 4/0 gauge. Designed to be Used with 70 Ampere or Larger LEL1-Type Circuit Breakers which Require an Empty Mounting Position. For Lug Selection, Refer to the Following [Table](#).

Note: The table lists additional lug sizes which can be used with [TVSS Devices](#).

Restrictions

For use with LEL1-type circuit breaker mounting blocks supplied with Lists [11](#) and [21](#) only (also see note above).

SPECIAL APPLICATION CRIMP LUG / STRAP (Two Hole Lug, 1/4" Bolt Clearance Hole, 0.625" Centers)	
LEAD SIZE (Ga.)	PART NUMBER
1/0	245393500
2/0	245393600
3/0	245393700
4/0	245393800
250 kcmil	514872
350 kcmil	514873

[Home](#)

LIST OF PARTS

(This Stocklist may not list every component contained in each List.)

LIST NUMBER	QTY.	PART NUMBER	DESCRIPTION
<u>1</u>	5	102823	Tray, Cable Mounting
	1	501837	Wireharness, 8 Bus
	2	505158	Rear Covers, Kydex
	4	354758800	Cover, Side
	1	412813700	Box Framework
<u>2</u>	5	102823	Tray, Cable Mounting
	1	501836	Wireharness, 8 Bus
	2	505158	Rear Covers, Kydex
	4	354758800	Cover, Side
	1	412813700	Box Framework
<u>3</u>	4	102823	Tray, Cable Mounting
	1	501838	Wireharness, 6 Bus
	2	505158	Rear Covers, Kydex
	6	335511000	Grooming Bar, Mid Position
	4	354758800	Cover, Side
	1	412813700	Box Framework
<u>4</u>	4	102823	Tray, Cable Mounting
	1	501839	Wireharness, 6 Bus
	2	505158	Rear Covers, Kydex
	6	335511000	Grooming Bar, Mid Position
	4	354758800	Cover, Side
	1	412813700	Box Framework
<u>5</u>	5	102823	Tray, Cable Mounting
	1	501837	Wireharness, 8 Bus
	2	505158	Rear Covers, Kydex
	4	354758800	Cover, Side
	1	412813800	Box Framework (Seismic)
<u>6</u>	5	102823	Tray, Cable Mounting
	1	501836	Wireharness, 8 Bus
	2	505158	Rear Covers, Kydex
	4	354758800	Cover, Side
	1	412813800	Box Framework (Seismic)
<u>7</u>	4	102823	Tray, Cable Mounting
	1	501838	Wireharness, 6 Bus
	2	505158	Rear Covers, Kydex
	6	335511000	Grooming Bar, Mid Position
	4	354758800	Cover, Side
	1	412813800	Box Framework (Seismic)
<u>8</u>	4	102823	Tray, Cable Mounting
	1	501839	Wireharness, 6 Bus
	2	505158	Rear Covers, Kydex
	6	335511000	Grooming Bar, Mid Position
	4	354758800	Cover, Side
	1	412813800	Box Framework (Seismic)

[Home](#)

LIST NUMBER	QTY.	PART NUMBER	DESCRIPTION
10	1 1	505125 377379300	12 Position TLS/TPS Fuse Module Cover
11	1 1	505126 377379200	16 Position Vortex Module Cover
13	1 1 1 1	514406 509854 505167 505168	TPL and TLS/TPS Fuse Module Adapter Assembly for Precharge Unit Cover Mtg Panel Cover
14	1 1	501584 505132	Cover 16 Position Breaker Assembly, AM1
15	1 1	501584 502887	Cover 16 Position Bullet Nose Module
17	2 1 2	509200 414808400 436111200	Jumper, Shorting Blank Cover Panel Ground Assembly, Left Side
18	1 1	509200 377146200	Jumper, Shorting Blank Cover Panel, Mtr Sml
19	1 1	509200 414808400	Jumper, Shorting Blank Cover Panel, Mod
20	1 1	505128 377379400	20 Position TLS/TPS Fuse Module Cover
20G	1 1	509376 509378 377379400	Shorting Link 20 Position TLS/TPS Fuse Module e/w Internal Ground Bar Cover
21	1 1	505129 377379000	28 Position Vortex Module Cover
23	1 1 1 1	509854 509364 505165 505166	Adapter Assembly for Precharge TPL and TLS/TPS Fuse Module Cover Mtg Panel Cover
24	1 1	501585 505131	Cover 28 Position Breaker Assembly, AM1
25	1 1	501585 502616	Cover 28 Position Bullet Nose Module
27	2 1 2	509200 414808500 436111000	Jumper, Shorting Blank Cover Panel Ground Assembly, Right Side
28	1 1	509200 377146100	Jumper, Shorting Blank Cover Panel, Mtr Lg

[Home](#)

LIST NUMBER	QTY.	PART NUMBER	DESCRIPTION
29	1 1	509200 414808500	Jumper, Shorting Blank Cover Panel, Mod
30	1	342720700	Busbar, Interconnect
31	1	342763200	Busbar, Interconnect
32	1	357618900	Busbar, Lug Adapter
33	1	357619200	Busbar, Lug Adapter (Dual)
34	1	357619300	Busbar, Lug Adapter (Dual)
35	1 1	342548500 342548600	Busbar, Interconnect Busbar, 2 nd Interconnect
36	1 1	342591700 342591800	Busbar, Interconnect Busbar, 2 nd Interconnect
37	1	514198	8 Bay Parallel Bus
38	1	514199	6 Bay Parallel Bus
39	1 8 8 8	521207 214204100 214825000 227646800	Paralleling Bar 3/8 Flat Washer 3/8 Belleville Lock Washer 3/8-16 x 1-1/4 Bolt
41	1 1 1	504068 504981 505160	Assy, Term, 8 Bay Link Cable, 8 Bay
42	1 1 1	504068 504981 505160	Assy, Term, 8 Bay Link Cable, 8 Bay
43	1 1 1	504253 504982 505159	Assy, Term, 6 Bay Link Cable, 6 Bay
44	1 1 1	504254 504982 505159	Assy, Term, 6 Bay Link Cable, 6 Bay
50	1 1 1 1	503763 355420900 388112400 510142	Jumpers, Precharge Bracket, Mounting Cord, Precharge Precharge Option
51	1	335570900	Cable Grooming Bar
52	1	501881	Digital Meter
53	1	504987	Wiring Management Kit
56	1	501101	In-Line Fuse Kit

[Home](#)

LIST NUMBER	QTY.	PART NUMBER	DESCRIPTION
57	1	509606	Lockable Door Assembly
	1	509826	Door Mounting Kit
59	1	507751	1'-0" Box Frame Extension
60	1	507752	2'-0" Box Frame Extension
61	1	505511	4'-6" Box Frame Extension
70	4	102823	Tray, Cable Mounting
	1	501838	Wireharness, 6 Bus
	1	501881	Digital Meter
	4	514199	Busbar, Interconnect
	2	503432	20 Position TLS/TPS Fuse Module, w/shunt
	4	503673	20 Position TLS/TPS Fuse Module, w/o shunt
	2	505158	Rear Covers, Kydex
	6	335511000	Grooming Bar, Mid Position
	4	354758800	Cover, Side
	4	377379400	Cover
	1	412813800	Box Framework (Seismic)
	2	414807800	Cover
	1	436110300	6 Bus Ground Assy
71	4	102823	Tray, Cable Mounting
	1	501838	Wireharness, 6 Bus
	1	501881	Digital Meter
	4	514199	Busbar, Interconnect
	2	503432	20 Position TLS/TPS Fuse Module, w/shunt
	2	503673	20 Position TLS/TPS Fuse Module, w/o shunt
	2	505158	Rear Covers, Kydex
	2	509200	Jumper, Shorting
	6	335511000	Grooming Bar, Mid Position
	4	354758800	Cover, Side
	4	377379400	Cover
	1	412813800	Box Framework (Seismic)
	2	414807800	Cover
	2	414808500	Blank Cover
1	436110300	6 Bus Ground Assy	
72	4	102823	Tray, Cable Mounting
	1	501838	Wireharness, 6 Bus
	1	501881	Digital Meter
	4	514199	Busbar, Interconnect
	2	503432	20 Position TLS/TPS Fuse Module, w/shunt
	4	503673	20 Position TLS/TPS Fuse Module, w/o shunt
	2	505158	Rear Covers, Kydex
	6	335511000	Grooming Bar, Mid Position
	4	354758800	Cover, Side
	4	377379400	Cover
	1	412813800	Box Framework (Seismic)
	1	507752	2'0" Box Frame Extension
	2	414807800	Cover

[Home](#)

LIST NUMBER	QTY.	PART NUMBER	DESCRIPTION
73	4	102823	Tray, Cable Mounting
	1	501838	Wireharness, 6 Bus
	1	501881	Digital Meter
	4	514199	Busbar, Interconnect
	2	503432	20 Position TLS/TPS Fuse Module, w/shunt
	2	503673	20 Position TLS/TPS Fuse Module, w/o shunt
	2	505158	Rear Covers, Kydex
	2	509200	Jumper, Shorting
	6	335511000	Grooming Bar, Mid Position
	4	354758800	Cover, Side
	4	377379400	Cover
	1	412813800	Box Framework (Seismic)
	1	507752	2'0" Box Frame Extension
	2	414807800	Cover
	2	414808500	Blank Cover
1	436110300	6 Bus Ground Assy	
74	4	102823	Tray, Cable Mounting
	1	501838	Wireharness, 6 Bus
	1	501881	Digital Meter
	4	514199	Busbar, Interconnect
	2	503432	20 Position TLS/TPS Fuse Module, w/shunt
	4	503673	20 Position TLS/TPS Fuse Module, w/o shunt
	2	505158	Rear Covers, Kydex
	6	335511000	Grooming Bar, Mid Position
	4	354758800	Cover, Side
	4	377379400	Cover
	1	412813800	Box Framework (Seismic)
	1	505511	4'6" Box Frame Extension
	2	414807800	Cover
	1	436110300	6 Bus Ground Assy
	75	4	102823
1		501838	Wireharness, 6 Bus
1		501881	Digital Meter
4		514199	Busbar, Interconnect
2		503432	20 Position TLS/TPS Fuse Module, w/shunt
2		503673	20 Position TLS/TPS Fuse Module, w/o shunt
2		505158	Rear Covers, Kydex
2		509200	Jumper, Shorting
6		335511000	Grooming Bar, Mid Position
4		354758800	Cover, Side
4		37737940041	Cover
1		2813800	Box Framework (Seismic)
1		505511	4'6" Box Frame Extension
2		414807800	Cover
2		414808500	Blank Cover Panel
1	436110300	6 Bus Ground Assy	

[Home](#)

LIST NUMBER	QTY.	PART NUMBER	DESCRIPTION
76	4	102823	Tray, Cable Mounting
	1	501838	Wireharness, 6 Bus
	1	501881	Digital Meter
	2	503432	20 Position TLS/TPS Fuse Module, w/shunt
	2	505158	Rear Covers, Kydex
	4	509200	Jumper, Shorting
	6	335511000	Grooming Bar, Mid Position
	4	354758800	Cover, Side
	4	377379400	Cover
	1	412813800	Box Framework (Seismic)
	4	414808500	Blank Cover Panel
	2	414807800	Cover
77	1	503432	20 Position TLS/TPS Fuse Module, w/shunt
	1	377379400	Cover, TLS/TPS Mod Lg
	1	414807800	Cover, TLS/TPS Mtr Mod
78	1	503673	20 Position TLS/TPS Fuse Module, w/o shunt
	1	377379400	Cover, TLS/TPS Mod Lg
	1	414807800	Cover, TLS/TPS Mtr Mod
79	4	102823	Tray, Cable Mounting
	1	501839	Wireharness, 6 Bus
	1	501881	Digital Meter
	2	503432	20 Position TLS/TPS Fuse Module, w/shunt
	2	505158	Rear Covers, Kydex
	4	509200	Jumper, Shorting
	6	335511000	Grooming Bar, Mid Position
	4	354758800	Cover, Side
	2	377146100	Cover
	4	377379400	Cover
	1	412813800	Box Framework (Seismic)
	2	414807800	Cover
2	414808500	Blank Cover Panel	

[Home](#)

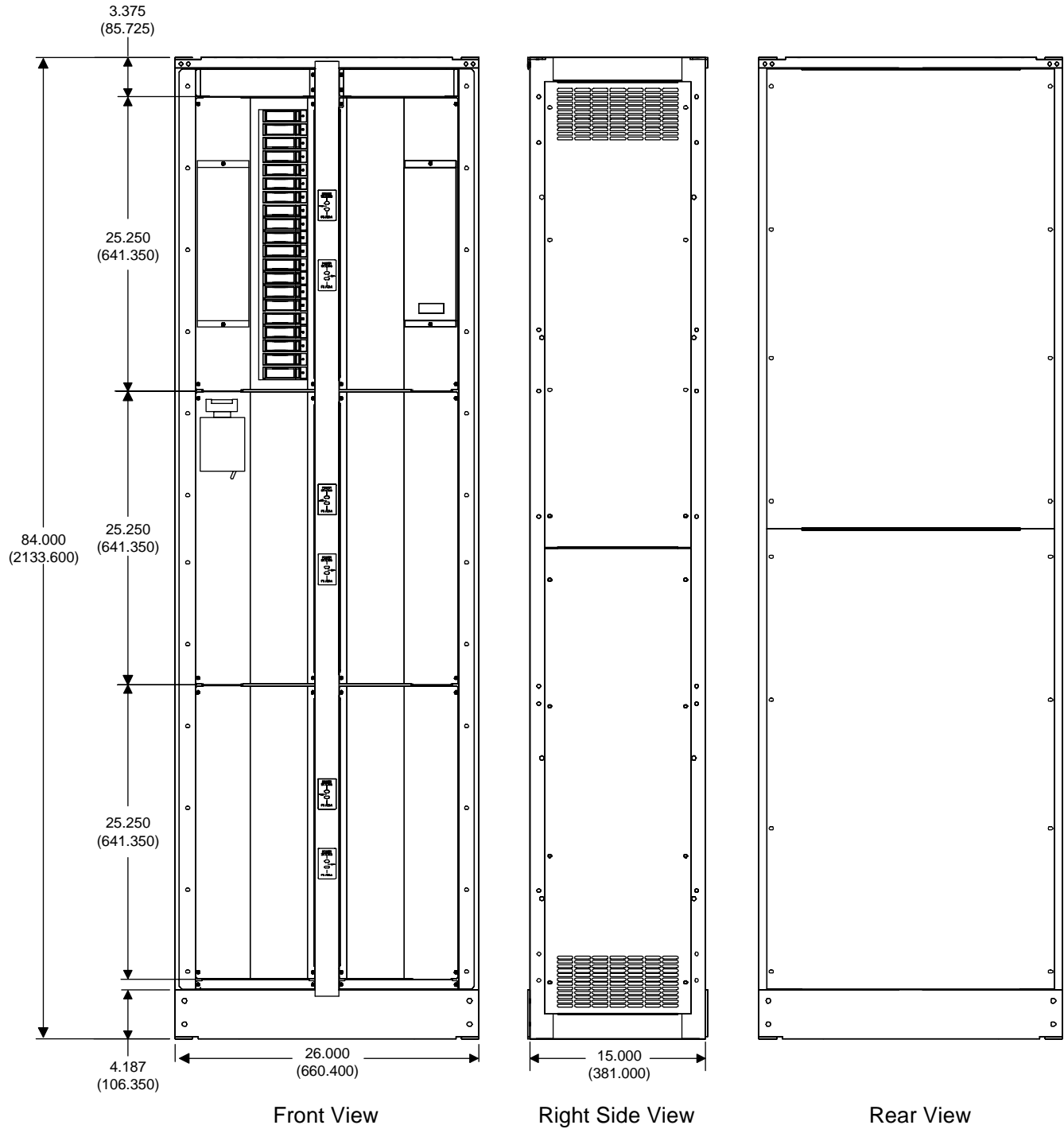
COMPLIANCE INFORMATION

NEBS Compliance

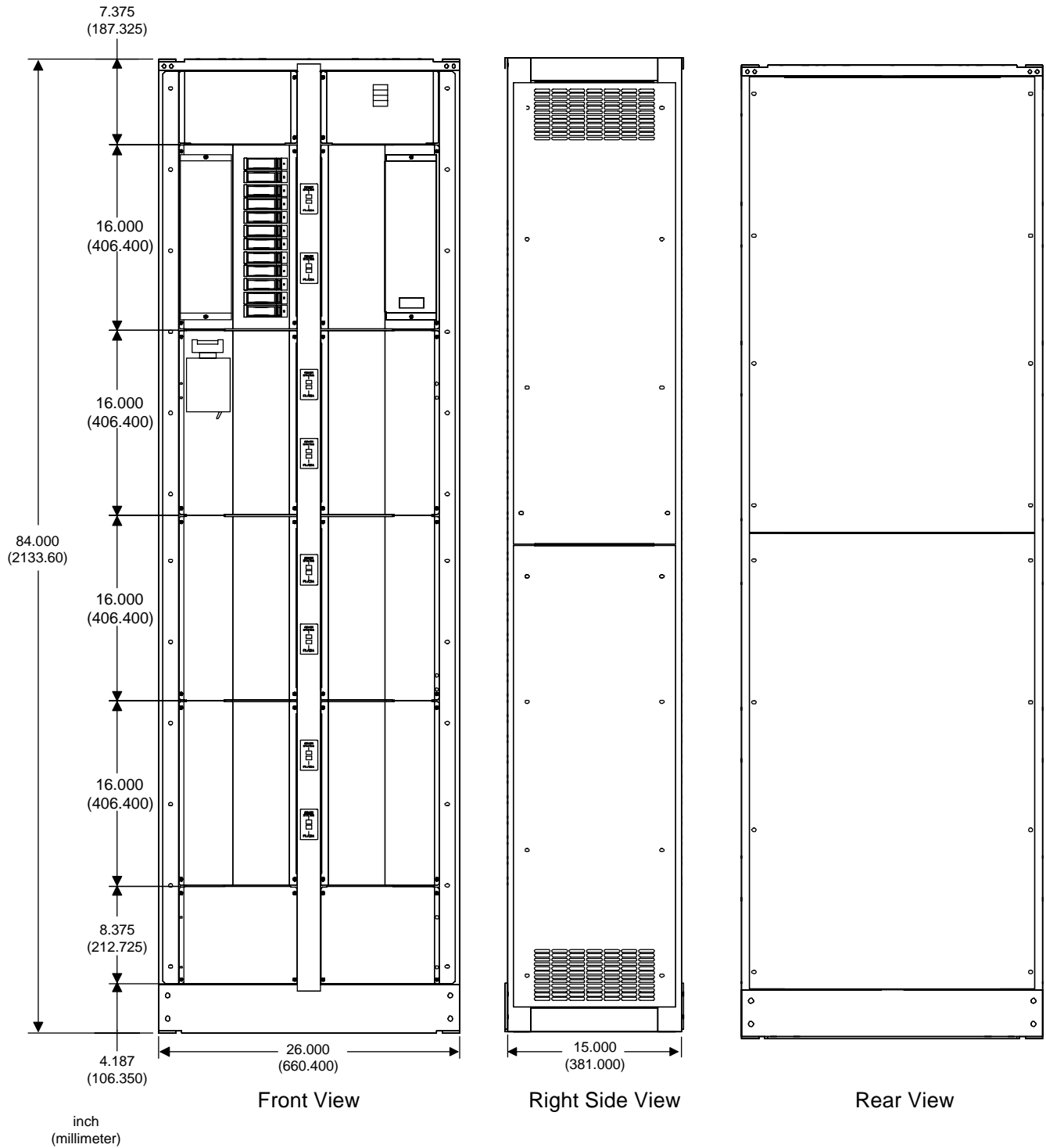
LIST	NEBS COMPLIANCE			LIST	NEBS COMPLIANCE		
	LEVEL 1	LEVEL 2	LEVEL 3		LEVEL 1	LEVEL 2	LEVEL 3
1	X			34	X	X	X
2	X			35	X	X	X
3	X			36	X	X	X
4	X			37	X	X	X
5	X	X	X	38	X	X	X
6	X	X	X	39	X	X	X
7	X	X	X	41	X	X	X
8	X	X	X	42	X	X	X
10	X	X	X	43	X	X	X
11	X	X	X	44	X	X	X
13				50	X	X	X
14	X	X	X	51	X	X	X
15	X	X	X	52	X	X	X
17	X	X	X	53	X	X	X
18	X	X	X	56	X	X	X
19	X	X	X	57			
20	X	X	X	59	X	X	X
20G				60	X	X	X
21	X	X	X	61	X	X	X
23				70	X	X	X
24	X	X	X	71	X	X	X
25	X	X	X	72	X	X	X
27	X	X	X	73	X	X	X
28	X	X	X	74	X	X	X
29	X	X	X	75	X	X	X
30	X	X	X	76	X	X	X
31	X	X	X	77	X	X	X
32	X	X	X	78	X	X	X
33	X	X	X	79	X	X	X

PHYSICAL SIZE INFORMATION

Dimensions

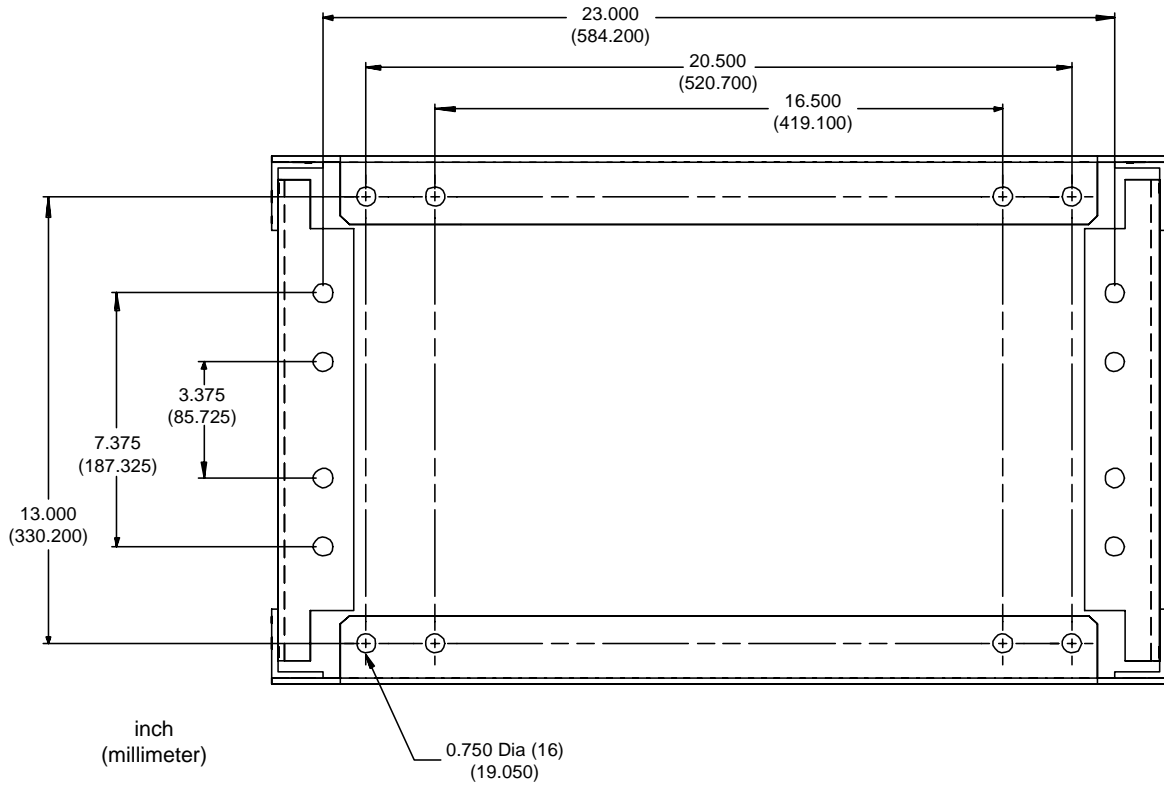


Dimensions
Six Bus Bay

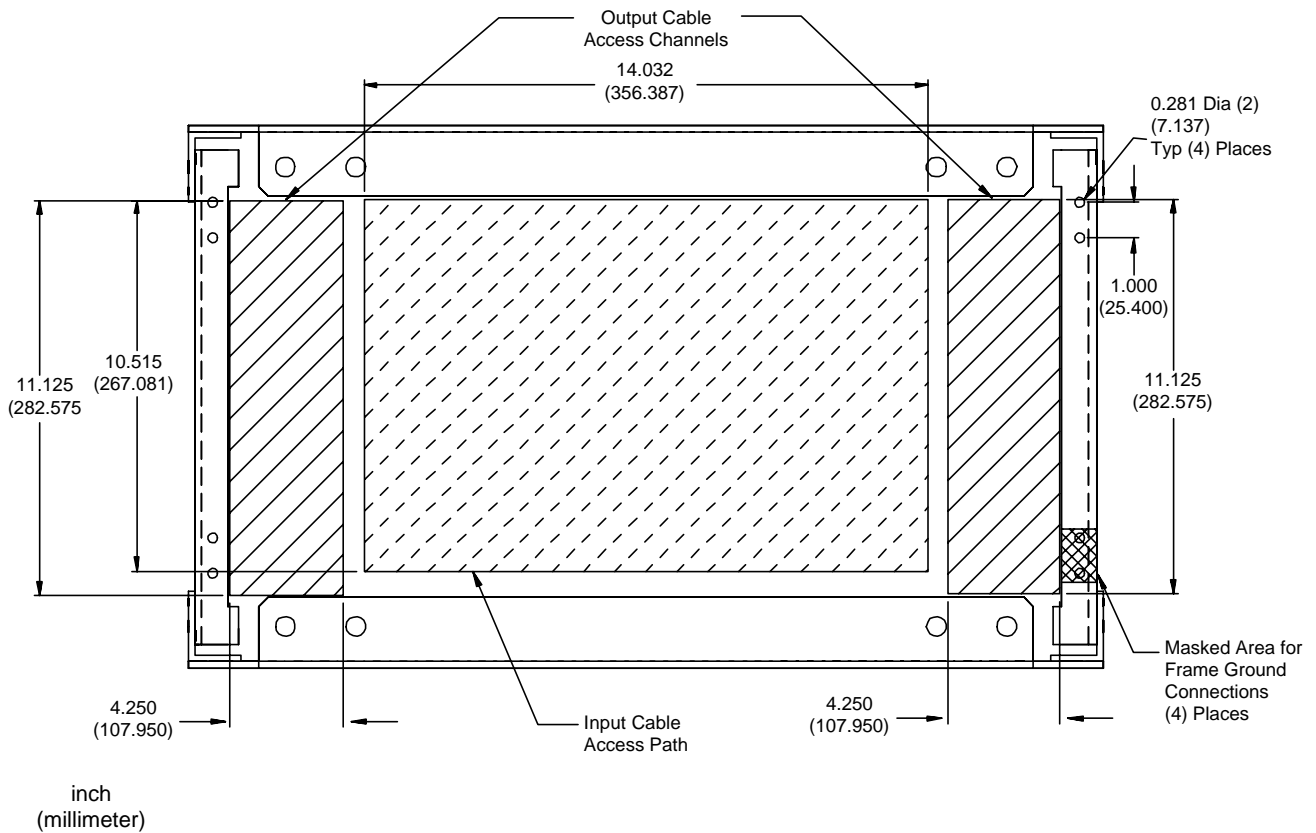


Dimensions
 Eight Bus Bay

[Home](#)



Floor Drilling Pattern (Bottom View)



Input/Output Cable Wiring Channels

RELATED DOCUMENTATION

- Schematic Diagram:** SD582120600 (Power System)
SD501881 (Digital Meter Panel)
SD510142 (Precharge Assembly)
SD486339700 (Power/Alarm LED Circuit Card)
SD486339800 (Fuse Alarm Circuit Card)
- Wiring Diagram:** T582120600 (Power System)
T510142 (Precharge Assembly)
- Instructions:** Section 5674 (Power System)
Section 5823 (Precharge Assembly, Spec. No. 510142)
Section 5770 (Kit, List 56, Spec. No. 501101)
Section 5849 (Kit, List 57, Spec. No. 509826)
Section 5939 (TVSS Kit, Part No. 520401)
- Load and Battery Lug Detail Drawings:** 031110100 through 031110300

[Home](#)

APPENDIX (A RECORD OF CHANGES MADE TO THIS DOCUMENT)

Issue	Change Number (ECO)	Description of Change	Date	Approved
AA	LLP015715	New JUN 27 2000 BP M	4/28/00	John Jasko
AB	LLP015705	List 59 Added, P/N for List 60 and 61 Changed OCT 19 2000 BP M	6/28/00	Steve McWilliams
AC	LLP016428	Lists 41-44 description expanded. Related Documentation section added. NOV 17 2000 BP M	10/23/00	Steve McWilliams
AD	LLP016512	List 17-19, 27-29, 71, 73, 75, 76, 79 shorting jumper added. List 50, 510142 was 437877700. NEBS table updated. Bullet Nose-Type Breaker Installation Orientation View Added. LEL1 Breakers now 3-100A. MAY 22 2001 BP M	05/02/01	Scott Lewis
AE	LLP018223	List 20G added. Reference LLP018188. MAY 22 2001 BP M	05/03/01	Steve McWilliams
AF	LLP018446	Paralleling in List 30 and 31 descriptions under "Ordering Notes" updated. JUL 09 2001 BP M	06/29/01	Scott Lewis
AG	LLP025115	List 57 added (lockable door option) SEP 06 2001 BP M	07/02/01	John Jasko
AH	LLP030345	List 20G ordering notes updated.	09/14/01	John Jasko
AJ	LLP031412	Parallel Bars P/Ns 503223 and 504738 now 514199 and 514198, respectively.	02/06/02	John Jasko
AK	LLP031257	Spare fuseholder bracket changed. Bullet Nose-Type fuseholder and TLS/TPS fuse option added to List 15 and 25. TLS fuses added.	05/13/02	John Jasko
AL	LLP031111	List 13 and 23 added. List 12, 22, 32, 33, and 34 removed.	05/15/02	John Jasko
AM	LLP034509	Revised List of Parts for Lists 17 and 27.	02/19/03	J. Kirkpatrick
AN	LLP200081	Transient Voltage Surge Suppressor Option Added.	02/03/04	John Jasko
AP	LLP202579	Now Emerson Network Power.	11/01/04	John Jasko
AQ	LLP203441	Added List 39.	01/17/06	John Jasko
AR	LLP207786	Added Bonding Strap Kit P/N 534834 to External 'Ground Bar Assemblies' in ACCESSORY INFORMATION section.	02/07/07	John Jasko

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