

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

Installation Guide



Applies to : 600CB08

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

Table of Contents

1.1 Overview	3
1.2 Specifications.....	4
1.3 Preparation	6
1.3.1 Alarm Card	7
1.4 Installation.....	8
1.5 Parts & Accessories.....	17
1.5.1 Compression Lugs	21
1.6 Schematic Drawing.....	22
1.7 Assembly Drawing	23

List of Figures

Figure 1 - Front and Rear Views.....	3
Figure 2 - Standard Trip.....	7
Figure 3 - Mid-trip	7
Figure 4 - Bracket Orientation.....	8
Figure 5 - Rack Mounting	8
Figure 6 - Heat Management for Multiple Load Centers in a Single Rack.....	9
Figure 7 - Ground Lug Connection	10
Figure 8 - One Input Lug Per Terminal	11
Figure 9 - Two Input Lugs Per Terminal	11
Figure 10 - Single-Pole Dual-Hole Output Lug	13
Figure 11 - Double-Pole Dual-Hole Circuit.....	13
Figure 12 - GMT Output Lug Connections.....	13
Figure 13 - Installing Circuit Breaker	14
Figure 14 - Installing Circuit Breaker	14
Figure 15 - Installing TFD Fuse Holder for Single-Pole Output	15
Figure 16 - Installing GMT Fuses	15
Figure 17 - Designation Card.....	16
Figure 18 - Alarm Wiring (From Rear of Designation Card).....	16

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

1.1 Overview

Telect's Dual-Feed 600A Load Center provides high-capacity power protection for secondary power distribution, colocations, and data and communications equipment. In addition, the Load Center is ideal for primary distribution in small COs and at remote sites. Each of the dual feeds contains eight interrupter positions for either bulletstyle breakers or TPC/TFD fuse holders. Each of the dual feeds also includes five GMT fuses. See telect.com to order breakers and fuses.

- Circuit breakers or TPC/TPS/TLS fuses up to 100A each (single-pole) or 200A (double-pole circuit breaker) — not to exceed 600A total per side.
- GMT fuses up to 15A each. Telect ships the panel with phoney fuses.

GMT fuse holders are mounted upside down so that the GMT indicator flag flips downward when activated, making identification and detection easier, especially on tall racks. The fuse holders are also mounted separately — not as a fuse block — thereby making fuse-position management unnecessary when dealing with 10A and 15A GMT fuses. Holes for color-coded fuse designation pins are located below each fuse position.

Sides A and B are electrically isolated except for the replaceable alarm card, which contains power, fuse, and bay status LEDs. Below the bezel holding the status LEDs is a pull-out designation card holder.

The panels feature separate power and fuse failure status LEDs and power alarm relay connections for each feed. Major and minor bay alarm LEDs and wirewrap terminals are controlled via an on-board relay triggered by an external switch closure. All on-board relay contacts are dry Form-C.



Figure 1 - Front and Rear Views

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

All input, output, and alarm terminals are on the rear, and all are covered by a single, full-size transparent terminal cover. Two ground terminals on each side allow four possibilities for the ground connection near one of the front or rear corners.

- Inputs are studs for dual-hole lugs. The panel provides two pairs of studs for each BATT and RETURN input terminal, thereby allowing the use of two smaller-gauge input wires in place of one large conductor.
- Ground terminals are dual, threaded holes for ground bolts (provided).
- Output studs for dual-hole lugs and screw posts for GMTs.
- Power/fuse and bay alarm terminals along with external bay alarm trigger terminals are wirewrap pins.

1.2 Specifications

Inputs:	Specifications:
Voltage Range (Nominal Voltage)	$\pm 21.6\text{V}$ to $\pm 30\text{V}$ (Nominal $\pm 24\text{Vdc}$) -40V to -60V (Nominal -48Vdc)
Max Input Load Rating	600A per side at max. operating ambient of 49°C (120°F)
Short Circuit Withstand Rating	5000A
Nominal Power Loss at Full Load	Less than 75W per side @ 28,800W full load per side (600Ax48V)
Percentage of Full Power Dissipation at Nominal Voltage	less than 1%
Max. Input Interrupt Device	750A
Input Terminal Studs (With Nuts, Flat Washers, & Spring Washers) for Dual-Hole Compression Lugs	Two pairs of 3/8 - 16 studs on 1 in. centers per terminal [max. lug width of 1.94 in. (49.2 mm)] per pair. Torque nut (using 9/16 in. or 15 mm wrench) to 150 in.-lb (~17 N•m), max.
Input Wire Size	#1 AWG to 750MCM

Dual-Lug Outputs:	Specifications:
Max. Output Single-Pole, Long-Delay Circuit Breaker (ea.)	100A
Max. Output TPC, TPS, or TLS	100A
Max. Output Load (ea.) - continuous	80A
Minimum Short Circuit Interrupt Rating	5000A
Max. Total Output Load	550A per side
Output Terminal Studs (With KEPS Nuts and Washers) for Dual-Hole Compression Lugs	1/4-20 studs on 5/8 in. centers [max. lug width of 0.625 in. (15.8 mm) for a BATT terminal and 0.70 (17.7 mm) for a RETURN terminal]. Torque bolts (using 7/16 in. or 12 mm wrench) to 50 in.-lb (5.5 N•m), max.
Output Wire Size	#14 AWG minimum

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

GMT Outputs:	Specifications:
Max. GMT Output Fuse (ea.)	15A
Max. GMT Output Load (ea.) - continuous	10.5 A
Max. Total GMT Output Load	52.5A per side
GMT Output Terminals for Compression Lugs	10, removable, #6-32 panhead screws (max. lug width of 0.29 in. [7.4 mm]). Torque to 6.3 in.lb (~0.7 N•m), max.
GMT Output Wire Size*	#22 AWG to #12 AWG, depending on output fuse rating

Grounding:	Specifications:
Earth GND Terminal Bolts (With Washers) for Dual-Hole Compression Lug	Two pair of 1/4 - 20 threaded holes on 5/8 in. centers. Torque bolts (using 7/16 in. or 12 mm wrench) to 50 in.-lb (5.5 N•m), max.
Ground Wire Size	#2 AWG minimum recommended

Alarms:	Specifications:
Alarm Relay Contacts	2A @ 30Vdc 0.6A @ 60Vdc
Max. Alarm Card Power Rating	@24V: 103 mA (2.47W) @48V: 128 mA (6.14W)
Alarm Wire Size	#24 AWG, typical (#26 to #20 AWG)
Alarm Terminals	Wire Wrap

Dimensions:	Specifications:
Nominal, without brackets**:	
Width:	17 in. (440 mm)
Height:	7 in. (180 mm)
Depth:	11.5 in. (290 mm)

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

Weight:	Specifications:
Weight, Without Packaging and Accessories	42 lb (19 kg)
Weight, Shipping	~50 lb (~25 kg)

Environment:	Specifications:
Operating Temperature	-10°C (14°F) to 55°C (131°F)
Humidity	90% and noncondensing
* Per UL Subject 1801, the conductor size must be one size larger than the minimum specified by the NEC ampacity tables.	
** See Page 21 for exact dimensions	

NOTE: Telect's Dual-Feed Load Center (Model 600CB08) is designed and built for UL, CUL, & NEBS (Level 3) compliance. The 600CB08 is UL Listed, File E139903, Certified NEBS Level 3. The Load Center is RoHS compliant

1.3 Preparation

ALERT

ALERT! Install this product in locations accessible only by qualified personnel. Only qualified personnel may install and maintain this product. Verify all connections meet requirements specified in local electric codes or operating company guidelines before supplying power. Protect this equipment with a fuse or breaker sufficient to interrupt power levels specified on the preceding page.

The panel weighs more than 35 lb (~16 kg); two persons may be required for handling

Please read and understand all instructions before starting installation. If you have questions, contact Telect Technical Support at support@telect.com or call 1.509.926.6000.

When you receive the equipment, carefully unpack it and compare it to the packaging list. Please report any defective or missing parts to Telect Quality at quality@telect.com or call 1.509.926.6000.

Telect is not liable for transit damaged. If the product is damaged, please report it to the carrier and contact Telect Quality.

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

1.3.1 Alarm Card

Panel brackets provide flush, 2-in extended, or 4-in. extended EIA or WECO mounting in a 19- or 23-in. rack.

The alarm card is shipped in a default mode to support standard trip (ON – OFF) breakers, shown in Figure 2. Connectors P3 and P4, outlined in white boxes, have pins 1 and 2 connected via the jumper. The alarm card shown in Figure 3 can support midtrip (ON – TRIP – OFF) breakers by readjusting the jumpers to connect pins 2 and 3 on connectors P3 and P4 (outlined in white boxes).

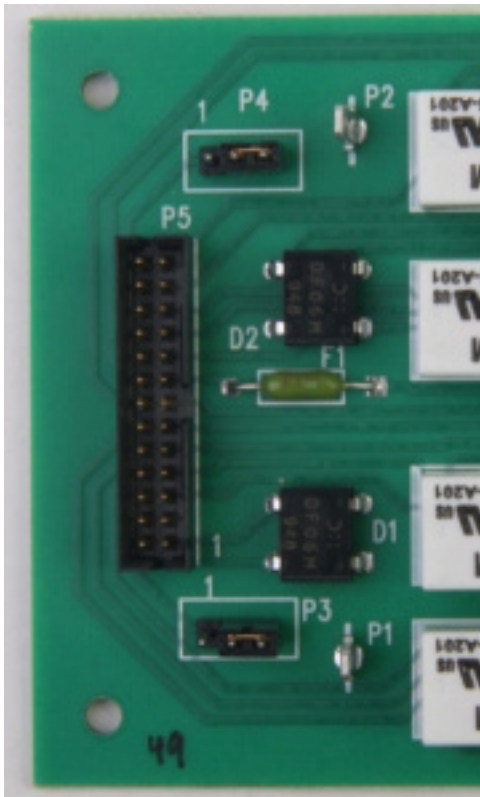


Figure 3 - Mid-trip

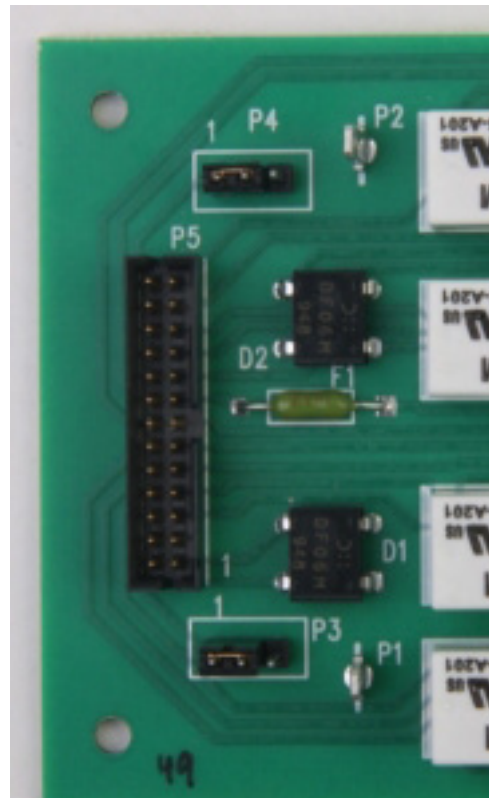


Figure 2 - Standard Trip

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

1.4 Installation

Procedure steps:

1. Use the 12 screws provided to fasten the brackets to the panel as shown in Figure 4.
2. Locate an unused rack position and mount panel using at least four sets of fasteners (screws, flat washers, and star washers provided) per side, as shown in Figure 5. (It's best to mount the panel as high as possible on the rack.)
3. Tighten the screws to 35 in.-lb (4.29 N•m). Telect recommends using a seismic rack for best rigidity. Also, If you intend on installing more than one panel per rack, you need to plan a rack arrangement that dissipates heat efficiently, as suggested in Figure 6, "Heat Management for Multiple Load Centers in a Single Rack" on page 7.
4. Loosen (you need not remove) four screws securing transparent terminal cover to the rear of the panel.
5. Remove the cover.

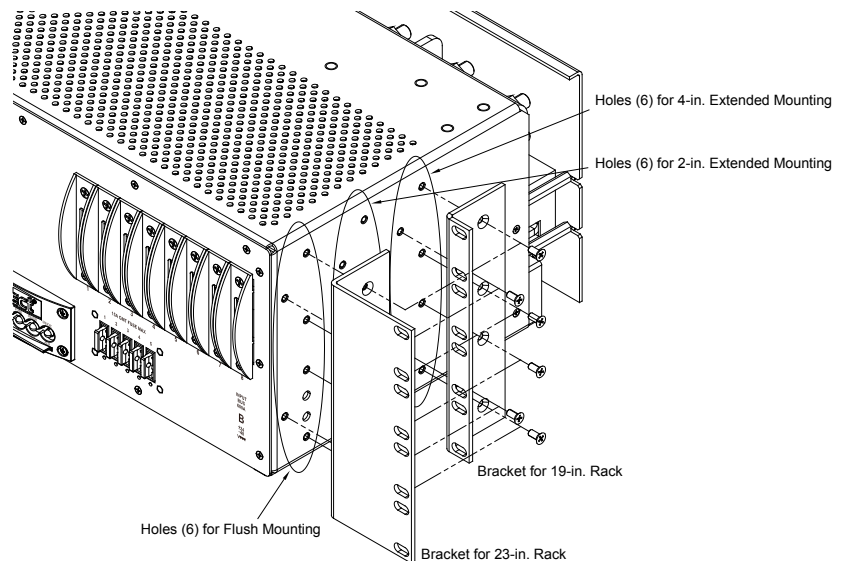


Figure 4 - Bracket Orientation

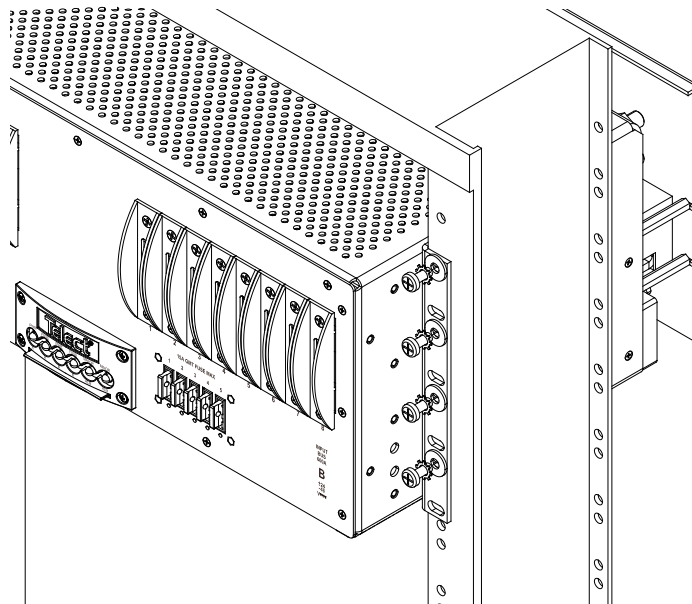


Figure 5 - Rack Mounting



WARNING

WARNING! Failure to properly ground this equipment can create hazardous conditions for installation personnel and for the equipment.

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

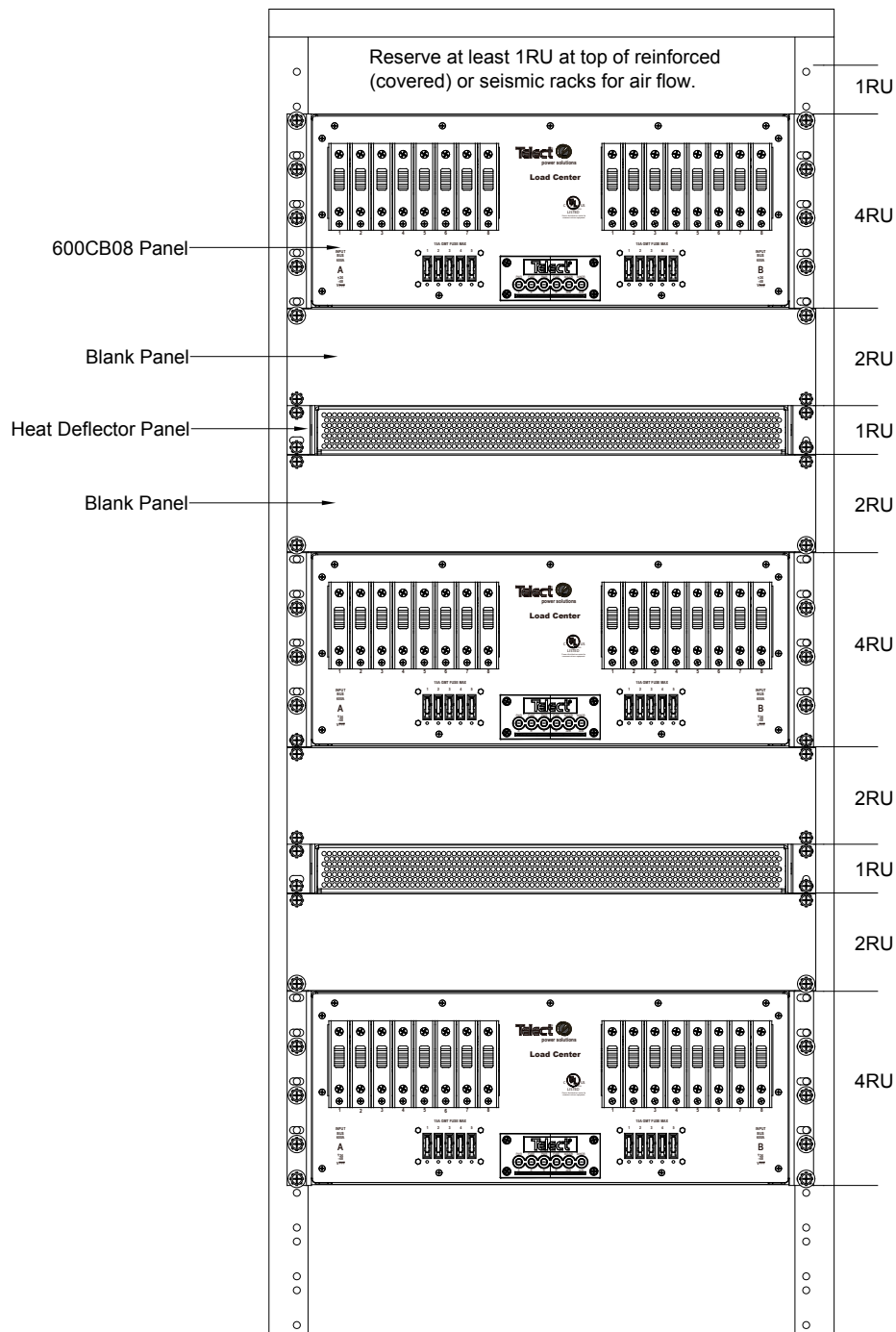


Figure 6 - Heat Management for Multiple Load Centers in a Single Rack

NOTE: See "Parts & Accessories" on Page 17 for heat deflectors and blank panels. Order online at telect.com.

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

! ALERT

ALERT! Only use components and crimping tools approved by agencies or certifying bodies recognized in your country or region such as Underwriter's Laboratories (UL), TUV, etc.

6. Use a listed (approved) crimping tool to attach a listed (approved), dual-hole compression lug onto suitable ground wire. **(The size of the ground depends on input interruption device.)**
7. If required, lightly coat anti-oxidant on lug and grounding surface on the side of the panel.
8. Connect the lug using the 1/4 - 20 bolts, flat washers, and split washers provided, as shown in Figure 7.
9. Tighten the bolt to 50 in.-lb (5.5 N•m), max.

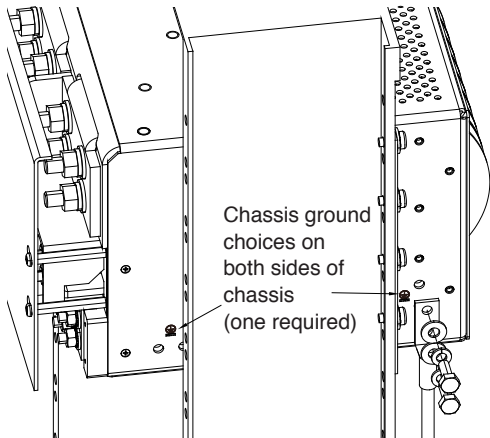


Figure 7 - Ground Lug Connection

! WARNING

WARNING! Before connecting input power cables, make sure input power to panel is turned off.

10. Make sure the input power is off (open breaker, dummy fuse, or open fuse holder at primary power distribution unit or battery) before connecting this panel's input cables to a PDU or battery.
11. For input wiring — wiring used as inputs to this load center — crimp dual-hole compression lugs onto #1 AWG to 750MCM copper wires. The choice of input wiring depends on the following criteria:
 - Input interrupt device rating affects the size of input wiring.
 - Ambient operating temperature affects the type of input wire insulation. Use the following table to choose the correct temperature-rated input wires. For further information consult the National Electrical Code (NEC).

Table 1 - Temperature Rating

Ambient Operating Temperature Range:	Max. Current Rating Per Side:	Min. Cable Insulation Temperature Rating
-5° to 49°C (23° to 120°F)	600A	75°C (167°F)
49° to 55°C (120°F to 131°F)	550A	75°C (167°F)
49° to 55°C (120°F to 131°F)	600A	90°C (194°F)

12. Insulate lug barrels with UL94 V-0-rated heat-shrink tubing.
13. Clean terminals and lugs with a nonabrasive, nonmetallic pad.

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

14. If required, lightly coat anti-oxidant on lugs and input **BATT** and **RETURN** terminals, and then connect the lugs to input terminals on the back of the panel, as shown in Figures 8 and 9.
15. Tighten lugs to 150 in.-lb (~17 N·m), max.

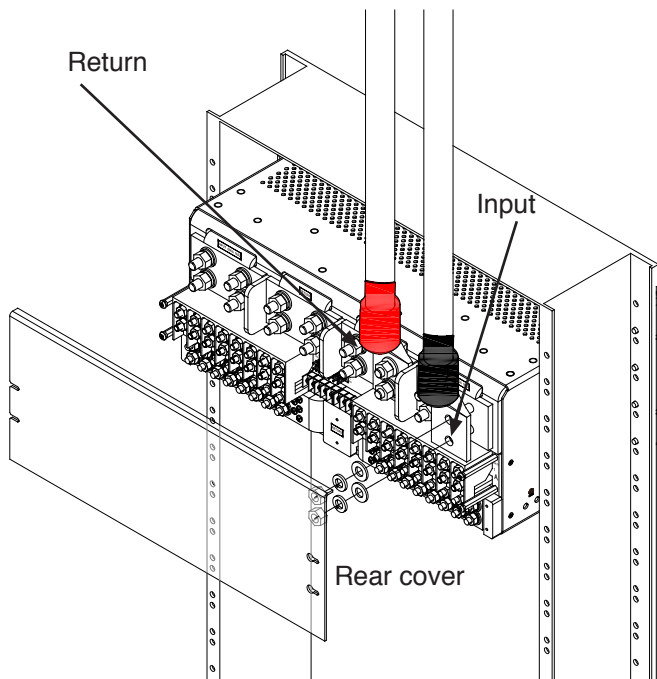


Figure 8 - One Input Lug Per Terminal

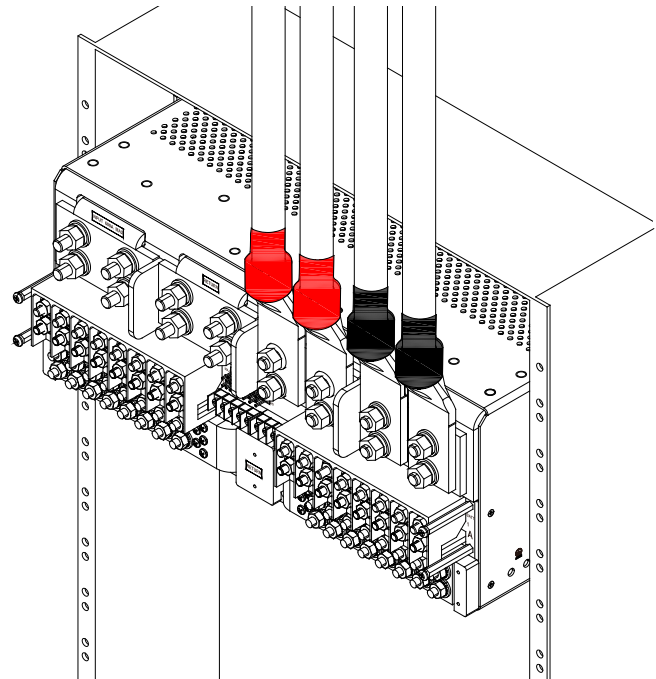
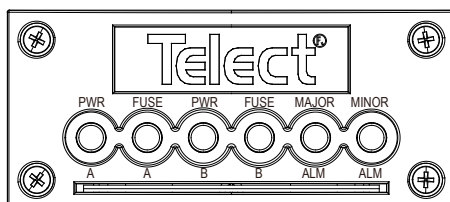


Figure 9 - Two Input Lugs Per Terminal

16. Make sure all interrupter positions are either empty, off, or contain dummy fuses (phoney, inoperative all-plastic slugs).
17. Enable fuse or breaker at primary distribution unit or battery (750A max.) to turn on Feed A to Side A of the panel and then check voltage and polarity at input connectors of the panel. Also, check that
 - **PWR A** LED on front of the panel turns on (green).
 - **PWR B** LED is off.
18. With **PWR A** LED green (normal operation) — but with **PWR B** LED off (failure operation) — test power-fail relay and contacts at **PWR A** alarm terminals on the rear of the panel:
 - Expect continuity (0Ω) between Terminals **C** and **NC**.
 - Expect an open circuit (∞Ω) between Terminals **C** and **NO**.



	NC	C	NO	A	R	PWR A	PWR B	ALM	
MAJ	□	□	□	□	□	□	□	□	NC
MIN	□	□	□	□	□	□	□	□	C
									NO

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

19. Also, test fuse alarm relay contacts at **ALM** (CB/Fuse Alarm) terminals on the rear of the panel.
 - Expect continuity (0Ω) between Terminals **C** and **NC**.
 - Expect an open circuit (00Ω) between Terminals **C** and **NO**.
20. Repeat Steps 17 through 19 to power up Side B. **PWR A** and **PWR B** LEDs must both be green.
21. Make sure none of the interrupter positions contain operable devices.
22. For circuit breaker, TPC, or TPS/TLS output wiring, crimp dual-hole lugs onto one end of #6 to #2 AWG copper output wires for single-pole outputs or #6 to 2/0 AWG for double-pole circuit breaker outputs, as required by NEC. (Work with one output wire at a time.)

ALERT

ALERT! DO NOT use a double-pole strap to combine the outputs of two single breakers or two single fuses.

23. Insulate lug barrels with UL 94V-0-rated heat-shrink tubing.
24. Clean panel terminals and lugs with a nonabrasive, nonmetallic pad.
25. If required, lightly coat anti-oxidant on lugs and output **BATT** and **RETURN** terminals, and then connect lugs to terminals, as shown in Table 9, “Ground & Circuit Breaker Output Lugs (¼ in. Dual Holes on 5/8 in. Centers, Uninsulated)” on page 19. (NEC specifies only one lug and load at each output terminal.)
26. Tighten the nuts to 20 in.-lb ($\sim 2.3 \text{ N}\cdot\text{m}$), max.

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

27. Connect the other end of the output wire to load.

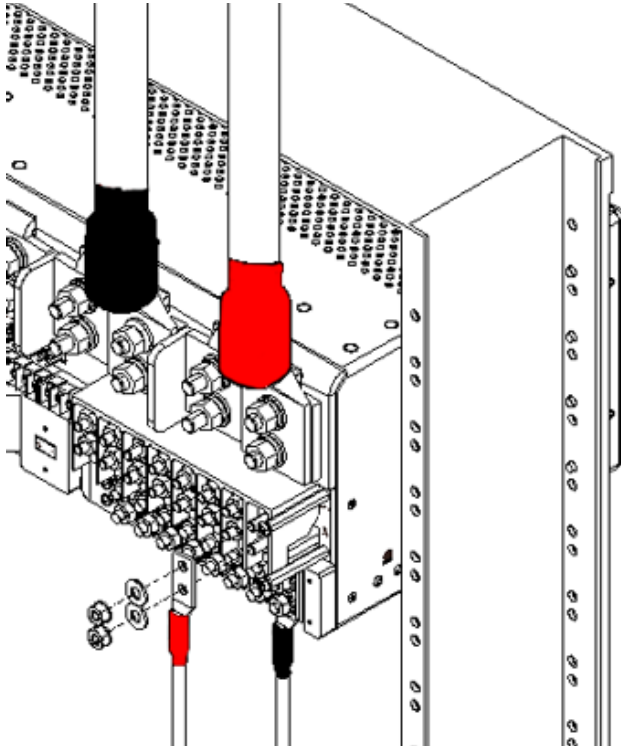


Figure 10 - Single-Pole Dual-Hole Output Lug Connections

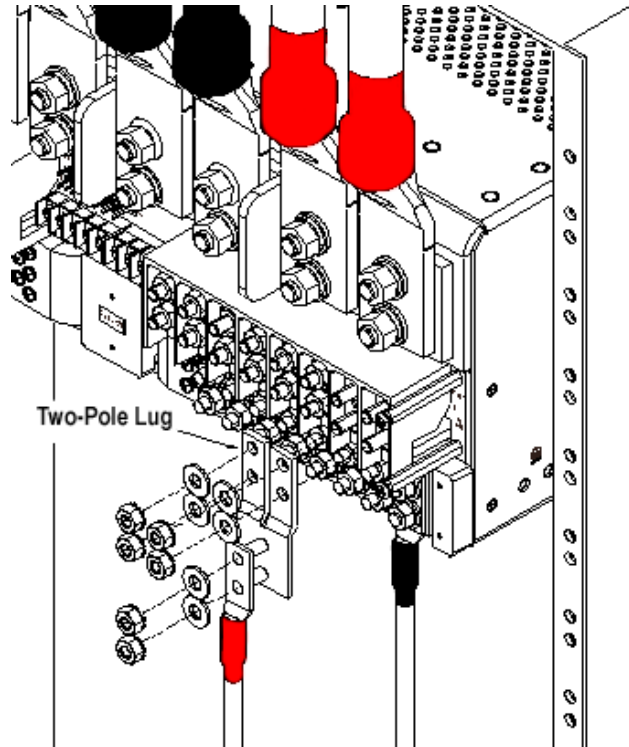


Figure 11 - Double-Pole Dual-Hole Circuit Breaker Output Lug Connections

28. For GMT output wiring, use #22 to #12 AWG copper wire. (Work with one wire at a time.) At the panel end of the wire, crimp a single-hole ring or fork lug, as required by NEC.
29. Clean panel terminals and lug (if applicable) with a nonabrasive, nonmetallic pad.
30. If required, lightly coat an anti-oxidant on lug/wire and output **BATT** and **RETURN** terminals, and then connect to terminals, as shown in Figure 12. (NEC specifies only one load at each output terminal.)
31. Tighten the panhead screws to no more than 6.3 in.-lb. (~0.7 N•m).
32. Connect the other end of output wire to load.

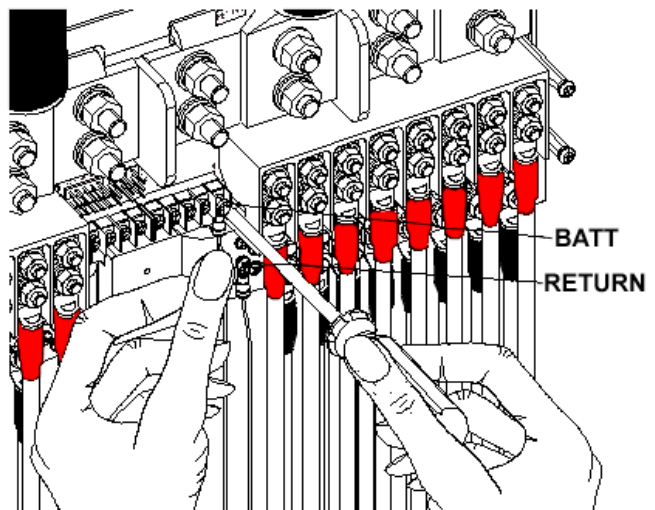


Figure 12 - GMT Output Lug Connections

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

! ALERT

ALERT! GMT fuses have a small inherent electrical resistance resulting in a small inherent power loss. For this reason, the GMT fuse manufacturer recommends that the load for GMT fuses up to and including 7.5A not exceed 80% of the fuse rating and that the load for GMT fuse sizes between 10A and 15A not exceed 70% of the fuse rating. For example, the load for a 15A GMT fuse should not exceed 10.5A ($15A \times .70 = 10.5A$).

33. Make sure circuit breakers or fuse holders are switched off, empty, or contain dummy devices. Also make sure load devices and/or distribution units are disabled. (Normally, circuit breakers are OFF when the switch operator [handle] is down.) Then install circuit breakers or fuse holders and fuses for the dual-hole lug outputs, as shown in Figures 13 and 14.

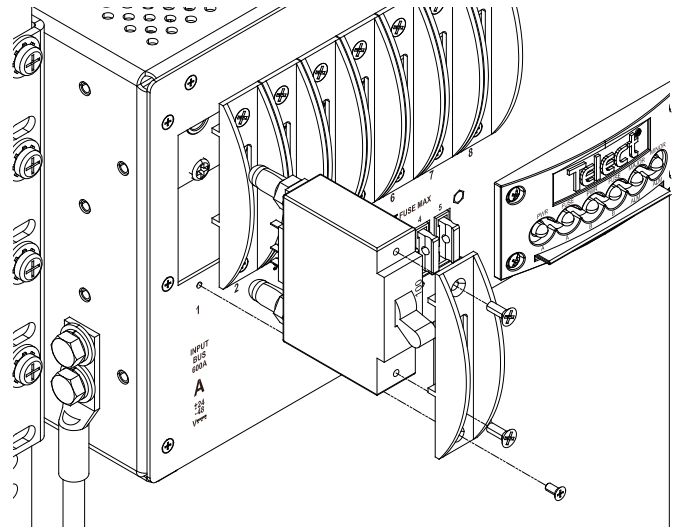


Figure 13 - Installing Circuit Breaker for Single-Pole Output

If all circuit breaker positions are not occupied, it's better to leave empty positions between the breakers. Placing high-current breakers side-by-side may result in concentrated heat collection internally, and additional power loss. Also, if not all circuit breaker positions are occupied, it's wise to allow non-populated positions between breakers.

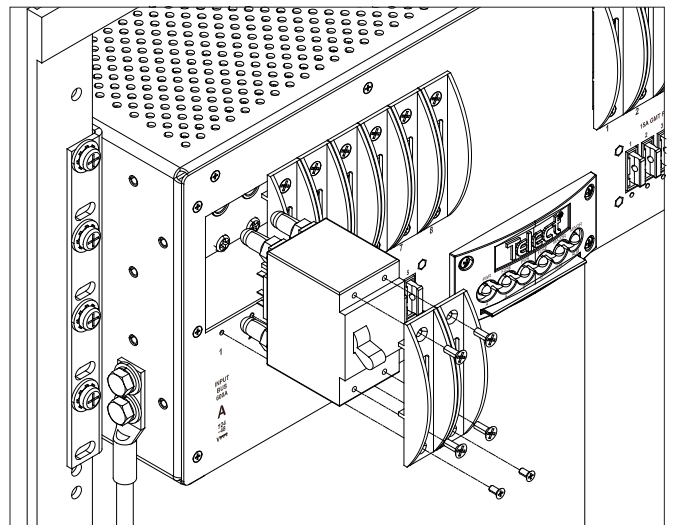


Figure 14 - Installing Circuit Breaker for Double-Pole Outputs

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08



WARNING

WARNING! Installing the TFD holder upside-down can result in damage to the holder.

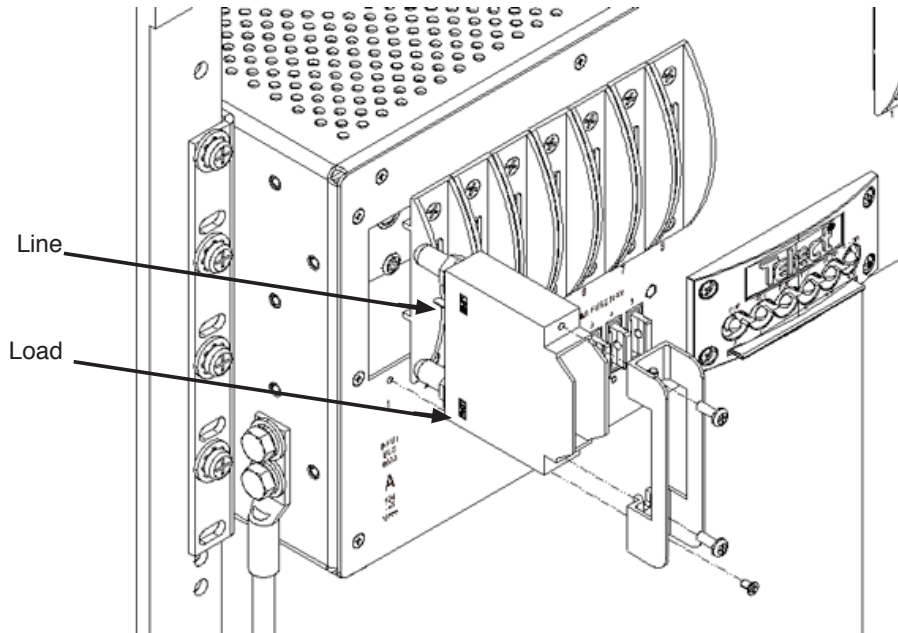


Figure 15 - Installing TFD Fuse Holder for Single-Pole Output

34. Again, make sure load devices are disabled and then install GMT fuses, as shown on the right. Remember, GMT fuses need to be installed so that failure indication flags are at the bottom, as shown in Figure 16. If applicable, also install optional fuse designation pins below the fuses.
35. Do one of the following, either
- switch breakers to ON, or
 - install fuses Then test power and polarity at input of each equipment load or distribution unit fed by a circuit breaker or fuse.
36. If possible temporarily replace one of the operable GMT fuses with a blown fuse to check that the applicable **FUSE** LED lights red. Also, check the **ALM** terminal on the rear of the panel:
- Expect an open circuit ($\infty\Omega$) between Terminals **C** and **NC**.
 - Expect continuity (0Ω) between Terminals **C** and **NO**. Re-install the operable GMT fuse before proceeding.

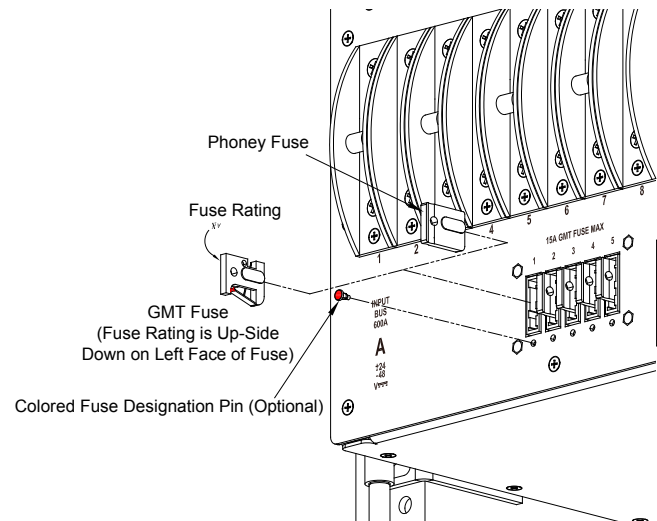


Figure 16 - Installing GMT Fuses

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

37. Record circuit assignments in accordance with operating company procedures and guidelines.

The manufacturer’s designation card, shown below, is a 10 in. (254 mm) by 2¼ in. (57 mm) card that folds in

SIDE A			FUSE TYPE			RACK/BAY #		
POS	AMP		DESCRIPTION	POS	AMP	DESCRIPTION		

SIDE B			FUSE TYPE			RACK/BAY #		
POS	AMP		DESCRIPTION	POS	AMP	DESCRIPTION		

Figure 17 - Designation Card

half to fit a card holder located below the status LEDs.

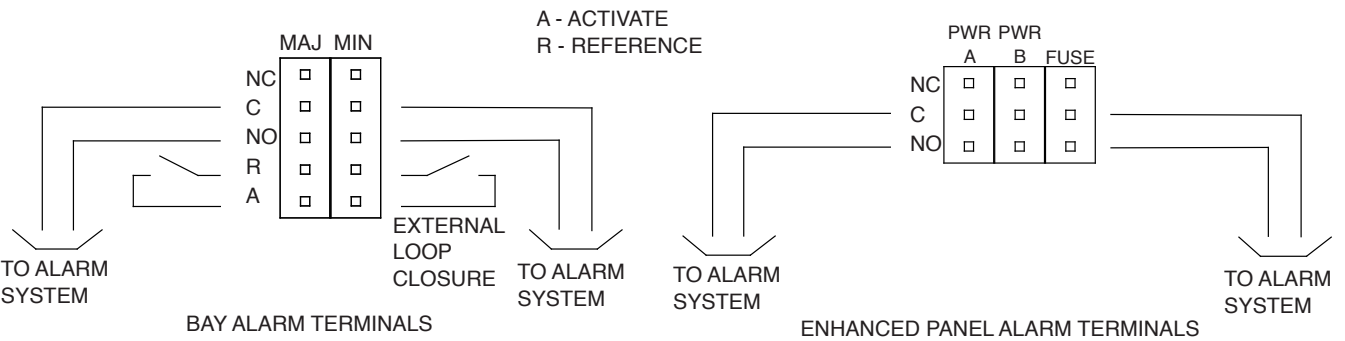


Figure 18 - Alarm Wiring (From Rear of Designation Card)

38. If desired, connect remote external audio/visual panel alarm indicator wires (solid wires, #22 to #18 AWG) to wirewrap PWR and fuse ALM pins on the rear of the panel, as shown on the right in the following illustration.
39. If desired, connect remote audio/visual bay alarm indicator wires to the MAJ (major) and MIN (minor) alarm pins. Also, install switch closure wires to the A (activate) and R (reference) pins, as shown in the illustration above on the left, to control the bay alarm relay.
40. Re-install the terminal cover.
41. Lastly, enable equipment loads one at a time to verify proper operation of loads.

This procedure is complete.

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

1.5 Parts & Accessories

The following lists optional and replacement items for the panel. For wire sizing and labelling, please refer to Wire Sizing &, Label Convention Chart (Telect Part No. 117995) included with your panel.



WARNING

WARNING! Use only UL-listed or UL-recognized component secondary protection devices

Table 2 - Standard Trip Circuit Breakers

Item	Description	Part Number	Item	Description	Part Number
Single Pole	1A	118714	Double Pole	125A	134634
	2A	119103		150A	134635
	3A	124210		175A	135921
	5A	117852	Triple Pole	200A	134636
	10A	116669		225A	134637
	15A	115999		250A	134638
	20A	116670	Mid-Trip	10A	130434
	25A	117402		20A	130054
	30A	116671		30A	128264
	40A	116672		40A	127186
	50A	116673		50A	127185
	60A	118160		60A	127881
	70A	118161		710A	139671
	80A	118162		80A	138670
	90A	118163		90A	138669
	100A	118159		100A	138692

Table 3 - Instantaneous Trip Circuit Breakers

Item	Description	Part Number
Single Pole	20A	140368
	25A	140369
	30A	140370
	40A	140371
	50A	140372
	60A	140373
	70A	140374
	80A	140375
	90A	140376
	100A	140377

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

Table 4 - TPC Fuses

Item	Description	Part Number
TPC Fuse Holder		129347
Single-Pole TPC Fuses	25A	125441
	30A	125442
	40A	125444
	50A	125445
	60A	125446
	75A	125447
	90A	125448
	100A	125441

Table 5 - TPS/TLS Fuses

Item	Description	Part Number
TFD Fuse Holder	TPS/TLS Fuse Holder	129816
TPS Fuses	5A	130481
	10A	130485
	15A	130487
	20A	130489
	25A	130476
	30A	130478
	40A	130482
	50A	130484
	60A	130486
	70A	130488
TLS Fuses	80A	140640
	90A	140641
	100A	140642
	110A	140643
	125A	140644

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

Table 6 - GMT Fuses

Description	Part Number of Fuse	Part Number of Colored Designation Pin
.18A Yellow (YEL)	130781	102435-21
¼A Violet (VIO)	100151	102435-2
½A Red (RED)	004001	102435-5
¾A Brown (BRN)	004008	102435-7
1A Gray (GRY)	100991	102435-8
1 1/3A White (WHT)	004006	102435-9
1½A White/Yellow (WHT/YEL)	004011	102435-10
2A Orange (ORN)	004002	102435-11
2.5A White/Orange (WHT/ORN)	130783	102435-12
3A Blue (BLU)	004012	102435-13
3.5A White/Blue (WHT/BLU)	130782	102435-14
4A White/Brown (WHT/BRN)	004013	102435-15
5A Green (GRN)	004014	102435-16
7½A Black/White (BLK/WHT)	004010	102435-17
10A Red/White (RED/WHT)	004015	102435--18
12A Yellow/Green (YEL/GRN)	102287	102435-19
15A Red/Blue (RED/BLU)	102288	102435-20

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

Table 7 - Miscellaneous Parts & Accessories

Item	Description	Part Number
Alarm Card, Standard	Power A and B LED Interconnections; Power and CB/Fuse Alarms	304154
GMT Fuse Puller (Recommended)	Medium-Duty, Tweezer-Style Tool for Removing GMT Fuses	06113-02
GMT Phoney Fuse	Dummy Plastic Slug	132748
GMT Fuse Safety Cover	Solder Splash Protection	116915
Heat Deflector (1RU EIA & WECO)	Telephone Gray Panel Deflects Heat Toward Rear or Front of Rack For 19-in. Rack For 23-in. Rack	02164-01 02164-02
Blank Panel (2RU) EIA WECO	Telephone Gray, 19-in.-Rack Filler Panel Telephone Gray, 23-in.-Rack Filler Panel Telephone Gray 19-in.-Rack Filler Panel Telephone Gray 23-in.-Rack Filler Panel	02155-02 02156-02 02155-02F 02156-02F
Double-Pole Lug	Double-Pole Circuit Breaker and Fuse Outputs	600CB08-2PK
Fuse Holder Cover	Fuse Cover for TFD and TPC Holders	600CBXX-CFK
Single-Pole TPC Fuse Holder	Fuse Holder for Single-Pole TPC Fuse	129347
Single-Pole TFD Fuse Holder	Fuse Holder for Single-Pole TPS/TLS Fuse	129816
Double-Pole Output Adapter	Adapt two single-pole outputs for double-pole breaker.	600CB08-2PK
Triple-Pole Output Adapter	Adapt three single-pole outputs for triple-pole breaker	600CB08-3PK
Return Multi-Pole Adapter	Adapt two return 5/8" C-C to one 1" C-C return.	600CB08-RPK
Multi-Pole Kit	Enlarged cover with extensions for use with multi-pole adapters	600CB08-MPK

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

1.5.1 Compression Lugs

ALERT

ALERT! Only use components and crimping tools approved by agencies or certifying bodies recognized in your country or region such as Underwriter's Laboratories (UL), TUV, etc.

Table 8 - Input Power Lugs (3/8-in. Dual Holes on 1-in. Centers, Uninsulated)

	400MCM	500MCM	750MCM	777.7MCM
T & B	54216 (T & B Die Code 76)	54218 (T & B Die Code 87)		
Burndy	YA322TC38 (Burndy Die Code 19)	YA342TC38 (Burndy Die Code 20)	YA392NT38 (Burndy Die Code 24)	YA44L-2NT38-FX (Burndy Die Code L115)
Panduit	LCD400-38D-6 (Panduit/T&B Die Code 76) (Burndy Die Code 19)	LCD500-38D-6 (Panduit/T&B Die Code 87) (Burndy Die Code 20)	LCDN750-38D-6 (Panduit/T&B Die Code 106) (Burndy Die Code 24)	

Table 9 - Ground & Circuit Breaker Output Lugs (1/4 in. Dual Holes on 5/8 in. Centers, Uninsulated)

	#6 AWG	#4 AWG	#2 AWG
T & B	54205 (T&B Die Code 24)	54206 (T&B Die Code 29)	54207 (T&B Die Code 33)
Burndy	YA6CL-2L (Burndy Die Code 7)	YA4C-2L (Burndy Die Code 8)	YA2CL-2TC14 (Burndy Die Code 10)
Panduit	LCD6-14A-L (Panduit/T&B Die Code 24) (Burndy Die Code 7)	LCD4-14A-L (Panduit/T&B Die Code 29) (Burndy Die Code 8)	LCD2-14A-Q (Panduit/T&B Die Code 33) (Burndy Die Code 10)

Table 10 - GMT Output Ring Lugs for #6 Screw Terminals (Nylon Insulated Except as Footnoted)

	#26-22 AWG	#22-16 AWG	#16-14 AWG
Panduit	PN22-6R-C Ring*	PK18-6R-C Ring* **	PN14-6R-C Ring*
AMP	326878	36151	320561
Burndy		YAE18N21BOX	YAE14N43BOX

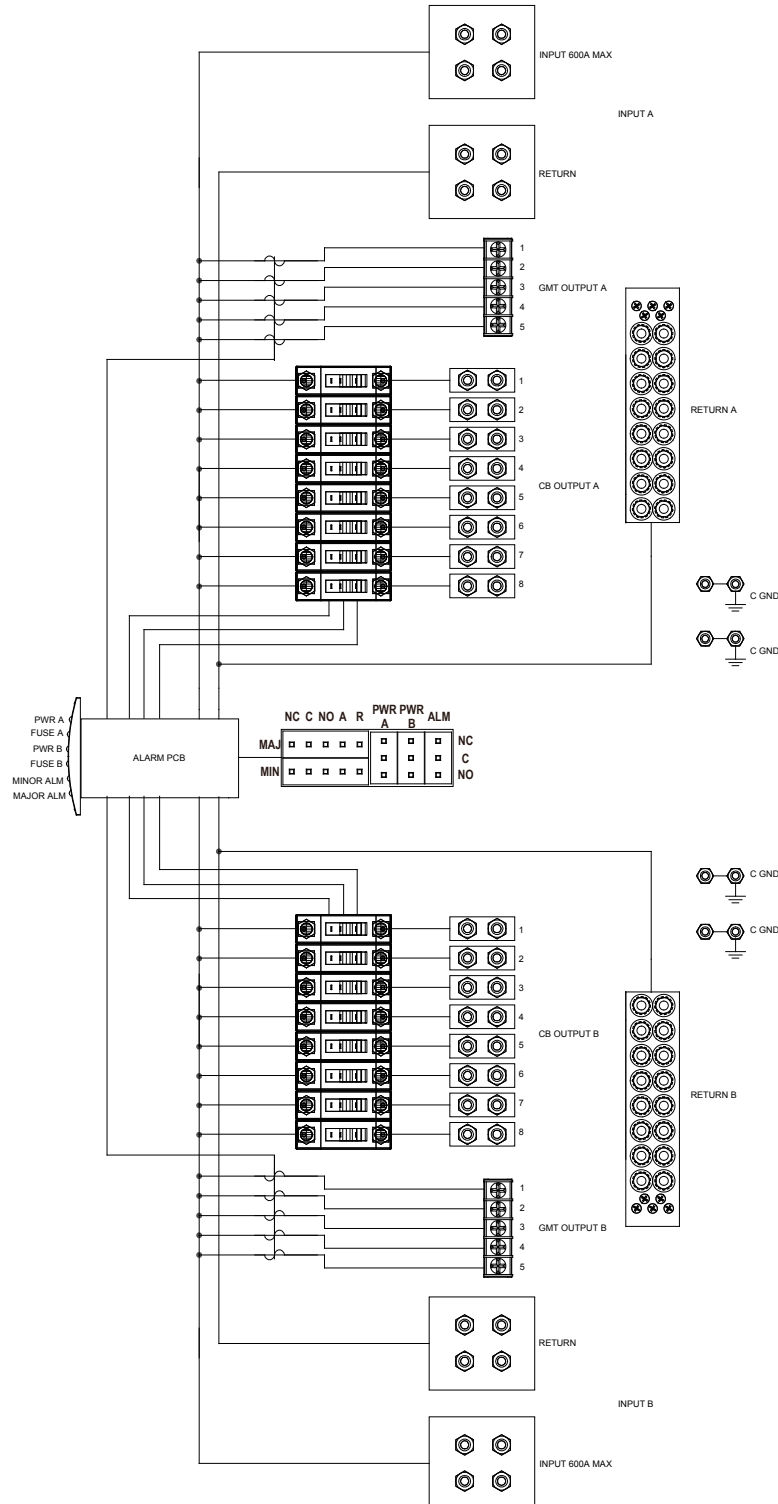
* 100 Count

** KYNAR Insulation

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

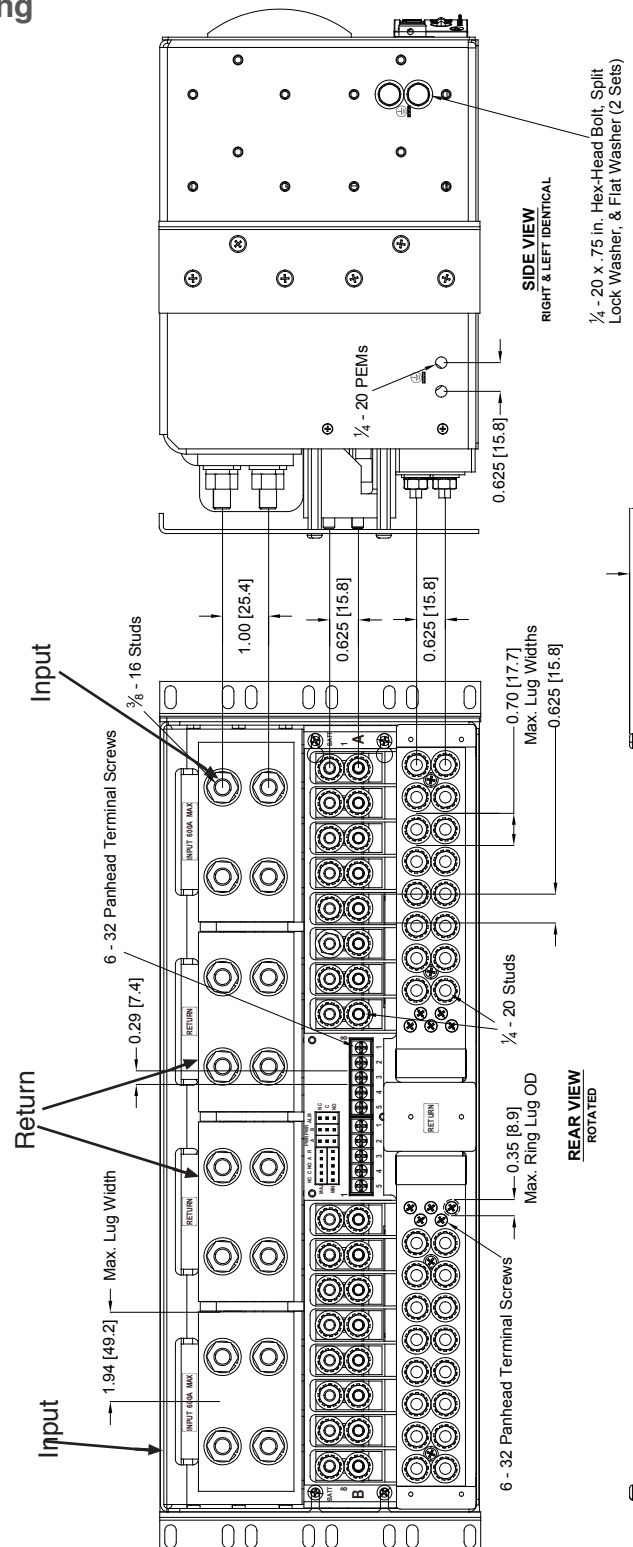
1.6 Schematic Drawing



Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

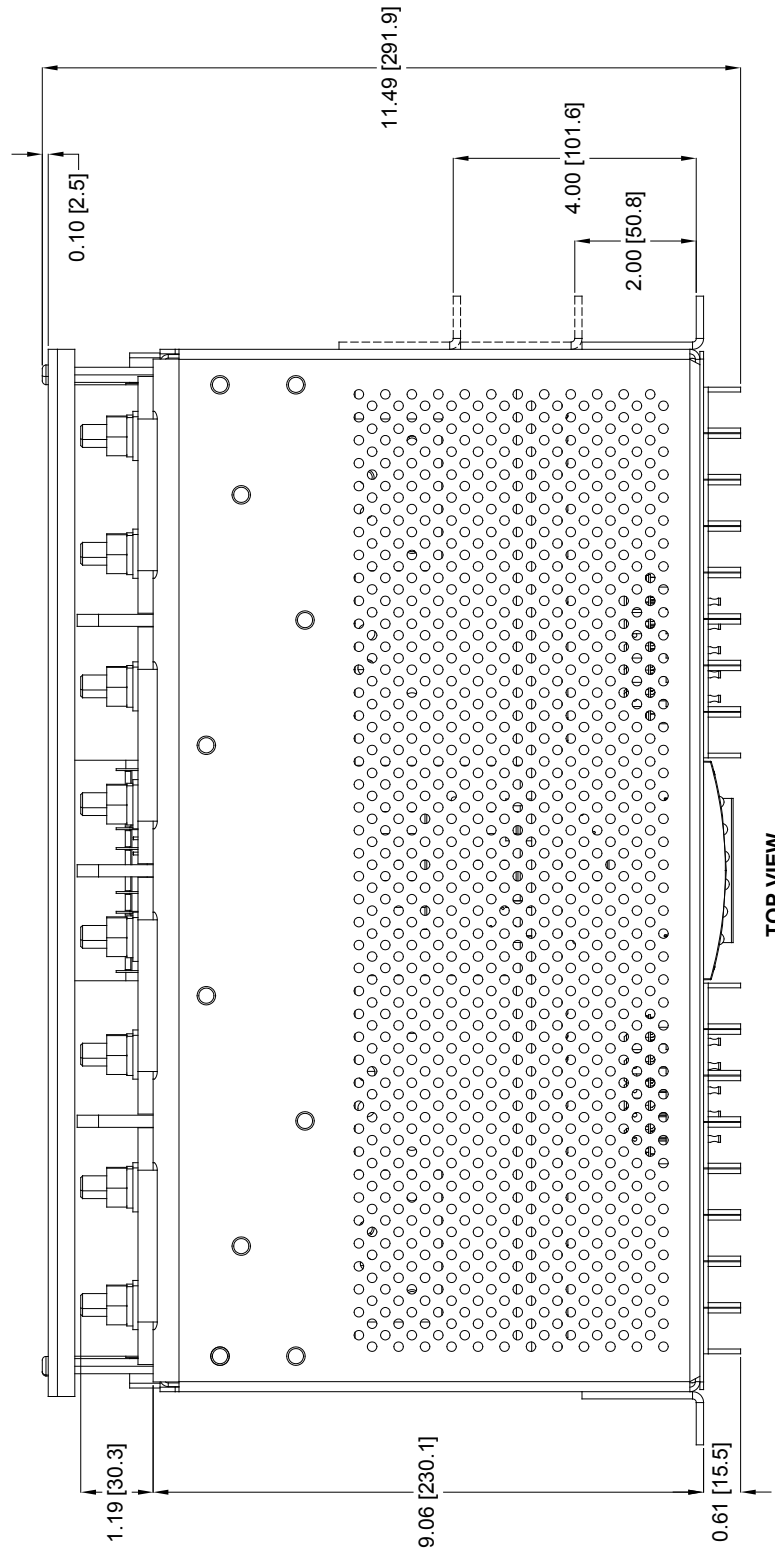
Power :: 600CB08

1.7 Assembly Drawing



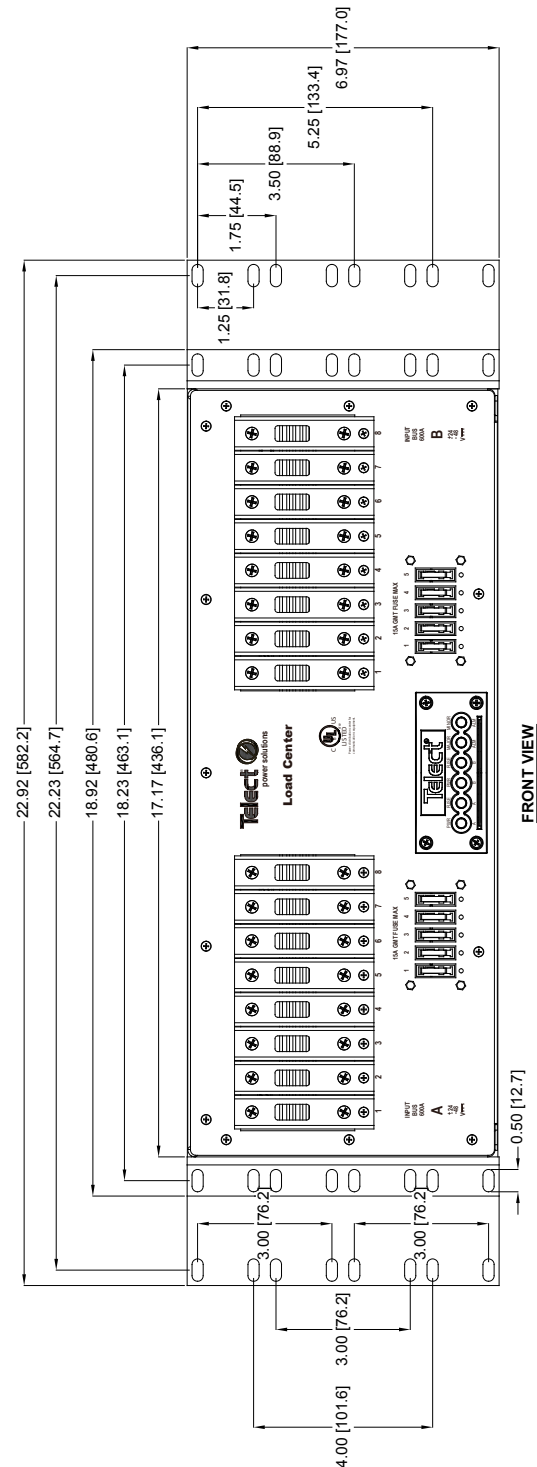
Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08



Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08



Telect assumes no liability from the application or use of these products. Neither does Telect convey any license under its patent rights or the patent rights of others. This document and the products described herein are subject to change without notice.

Dual-Feed 600A 8-Circuit Breaker/TPC/TFD Load Center With 5 GMTs

Power :: 600CB08

This page intentionally left blank.