

350A Dual-Feed High-Current Panel

Power :: 6/6 Circuit Breaker/TFD Panel; 5/5 GMT Fuses; 3 RU



Overview

Bring power management closer to network elements with this dual-feed high-current circuit breaker and fuse panel. A compact design distributes power to network elements that draw between 50A to 125A, such as network routers and data servers, in a minimum amount of rack space (3 RU).

This panel provides the flexibility for both primary and secondary distribution when a full 600A battery distribution frame or load center is not required. Users can configure the panel with bullet-style circuit breakers or TFD holders (TPS/ TLS fuses), with up to 125A per position capacity (TPS fuses are maximum 70A; TLS are maximum 125A).

Integrated GMT fuses provide additional flexibility, enabling a single compact panel to distribute power to both high-current and low-current equipment.

Each of the 350A feeds are totally isolated, providing power to six high-current and five low-current positions. A replaceable alarm card contains power and alarm LEDs for sides A and B.

Key Benefits

- High-current capabilities — two 350A inputs
- High-power distribution – six 125A single-pole positions per input
- Field configurable – bullet-style connectivity:
- Airpax LEL or Carling CA1 circuit breakers
- CSI TFD fuse holders
- Fuse panel convenience – five 15A GMT fuses per input
- Universal voltage applications – ± 24 VDC and -48 VDC operation supported
- Robust connections – input cable up to 750 MCM, output cable up to #2 AWG
- Individual breaker faceplate design – each breaker individually accessible and provides physical protection of the toggle from inadvertent tripping
- Industry compliance – UL, cUL and NEBS level 3
- Rear cover included — covers all input and output power connections

Note: Panel ships without circuit breakers or fuses. Circuit breakers, or TFD holders and fuses must be ordered separately. See page 2 for ordering information. TFD fuse holder is CSI TFD-011 with internal schematic “C”, and supports TPS and TLS fuses. The panel also supports GMT fuses.



Fig. 1: 350CB06 Front View

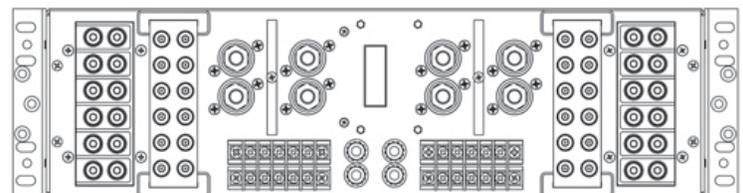


Fig. 2: 350CB06 Rear View Drawing

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Applications

- Network routers
- Data servers
- Other standard equipment supported by BDFBs
- Central offices, data centers, remotes and co-locates

Specifications

Electrical	
Voltage	Nominal: $\pm 24\text{V}/-48\text{ VDC}$ Operating: -20 to -30 VDC; -40 to -60 VDC; +20 to +30 VDC
Input rating	350A per bus, sides A & B isolated
Max. input interrupt device	437A per feed
Max. output protection device	100A circuit breaker 125A TLS fuse 70A TPS fuse 15A GMT fuse
Max. cont. output load rating	125A per position
Power dissipation (full load)	35W per bus at 16.8kW per side (350A x 48V)
Mechanical	
Dimensions	17.25"W x 5"H x 8"D (438 mm x 127 mm x 203 mm)
Weight, without breakers	20 lbs. (44 kg) 23 lbs. (51 kg) shipping weight
Material	Cold-rolled steel
Finish	White, powder coat
Mounting	19"/23", EIA/WECO
Environmental	
Temperature	-5° to 55° C
Humidity	0 to 90%, non-condensing
Connections	
Input terminals	2-hole compression lug 0.375" stud size on 1" hole spacing, size up to 750 MCM
Output terminals, high-current	2-hole compression lug #10 stud size on 0.625" hole spacing, size up to 2 AWG
Output terminals, GMT	6-32 panhead screws (max. lug width of 0.32"/8.1 mm) torque to 6.3 in.-lb. (0.7 N·m)
Chassis ground	2-hole compression lug 0.25" stud size on 0.625" hole spacing, size up to 1 AWG

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Alarms	
Alarm Indicators	Power, breaker/fuse alarms
Alarm Type	Form C
Alarm Connector	Wire wrap pins
Relay Contact Ratings	1A at 60 VDC; 2A at 30 VDC
Compliance	
Agency Compliance	UL, cUL NEBS 3

Ordering Information

Description	Part Number
Dual-feed 350A panel, 6/6 circuit breakers or TFD fuses + GMTs, with alarms	350CB06

Circuit Breakers

Amperage	Part Number	Amperage	Part Number
1A	090-0052-0001	40A	090-0052-0040
2A	090-0052-0002	50A	090-0052-0050
3A	090-0052-0003	60A	090-0052-0060
5A	090-0052-0005	70A	090-0052-0070
10A	090-0052-0010	80A	090-0052-0080
20A	090-0052-0020	90A	090-0052-0090
25A	090-0052-0025	100A	090-0052-0100
30A	090-0052-0030		

TPS Fuses

Amperage	Part Number	Amperage	Part Number
25A	130476	80A	140640
30A	130478	90A	140641
40A	130482	100A	140642
50A	130484	110A	140643
60A	130486	125A	140644
70A	130488	TFD Holder & Faceplate for TPS/TLS fuses	090-0001-0033

TLS Fuses

GMT Fuses

Amperage	Part Number	Amperage	Part Number
18/100A	130781	3A	004012
1/4A	100151	3-1/2A	130782
1/2A	004001	4A	004013
3/4A	004008	5A	004014
1A	100991	7-1/2A	004010
1-1/3A	004006	10A	004015
1-1/2A	004011	12A	102287
2-1/2A	130783	15A	102288

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