

600-4,800 amp, -48 VDC Battery Distribution Fuse/Circuit Breaker Bay

Key Features

- **360° Access**—front access provides for back-to-back or wall installation, as well as side and rear access for conventional applications
- **High Capacity**—offers either an eight bus to 4,800 amps, or six bus to 3,600 amps continuous rating, with maximum loading up to 168 fuse or circuit breaker positions
- **Modular Design**—initial and field installed interchangeable fuse and circuit breaker distribution modules
- **Fuse Protection**—utilizing TPS, TPA and TPJ fuses protect circuits ranging from 0-150 amps
- **Circuit Breaker Protection**—AM1 plug-in breakers available in current ratings of 1-150 amps
- **Multiple Circuit Breaker Types**— ranging from bolt in to plug-in are available
- **NEBS Level 3 Compliance**—compliant to all relevant GR and UL specifications

Description

The Vortex® 1293V3 Battery Distribution Fuse/Circuit Breaker Bay (BDF/CBB) features high capacity, front access, modularity, and simplified installation. These features provide effective secondary load distribution and protection for multiple -48 VDC feeds up to 600 amps. The base offering is a vertical arrangement of modular distribution providing 360° access for ease of installation, maintenance and expansion.

The Vortex 1293V3 BDF/CBB system consists of a standard or Zone 4 box framework, with either six or eight buses, top or bottom feed/distribution. The system offers a wide variety of options including box frame extensions, internal ground bars and paralleling option to tie multiple loads together and internal input cabling options. The universal ground bars can be mounted to overhead framing or a cable rack. The physical dimensions are 7' (2.13m) high x 26" (66.04cm) wide x 15" (38.10cm) deep.

Application

The Vortex 1293V3 is ideally suited for central office, co-location, and other applications requiring effective secondary load distribution and protection of power plants up to 600 amp capacity per load.

Additional Information

For additional specification, engineering and installation information request drawing SAG582120600.



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Options

Option	Description
Digital Metering	digital metering provides both current and voltage for each bus
Single or Parallel Buses	paralleled buses provide maximum configuration flexibility
Paralleled Bus Metering	separate bus current and voltage readings
Adjustable Dressing Bars	sliding dressing bars for reduced output cable installation time
Precharge	precharge module for TPS and TPJ fuseholders
Box Framework Extensions	8'0" (1.37m) , 9'0" (2.74m) and 11'6" (3.50m) extensions
In Line Fuse Kit	provides internal power to alarm and meter circuits
Cable Management Kit	grooming kit for load cable dressing

Distribution Modules

The distribution modules are factory configurable with one or more of the available fuseholders or circuit breakers. Distribution modules can be populated with a combination of any of the following.

6 Bus Maximum Distribution Module Population		
Qty.	Type	Description
16	TPS	0-70 amp fuseholders
28	TPA	0-50 amp fuseholders
10	TPJ	60-150 amp fuseholders
28	AM1	0-150 amp circuit breakers

8 Bus Maximum Distribution Module Population		
Qty.	Type	Description
12	TPS	0-70 amp fuseholders
16	TPA	0-50 amp fuseholders
6	TPJ	60-150 amp fuseholders
16	AM1	0-150 amp circuit breakers

Monitoring

A fuse or breaker alarm (LED) is provided for each bus, and a bay alarm (LED) is visible from a wide angle. Three form C contacts are provided for remote alarm monitoring. ABS or local powering capabilities for monitoring are included.



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