Sentry -48VDC Fuses and Circuit Breakers

This document will:

- identify the types of fuses and circuit breakers used by Sentry-48VDC Remote Power Managers and -48VDC Basic CDUs

- identify the fuses and/or circuit breakers included with each model of Sentry -48VDC Remote Power Manager and -48VDC Basic CDUs

- identify, where applicable, how to specify the value of included fuses, optional/spare fuses and optional circuit breakers

- identify, by part number, the actual fuse and circuit breakers available through Server Technology

Sentry -48VDC Remote Power Managers

Certain models of Sentry -48VDC Remote Power Managers accept Bussmann TPC and/or GMT fuses, and certain models contain fixed-value Potter & Brumfield pull-to-open/push-to-reset circuit breakers. See the fuse and circuit breaker part number list later in this document for available fuse values, circuit-breakers, and part numbers. Following are details by Sentry -48VDC RPM model numbers:

4805/35-XLS-12 ∕ 4805/35-XMS-12:

- each model will accept four (4) TPC fuses (3A min. to 75A max.) and eight (8) GMT fuses ($^1/_{18}$A min. to 10A max.)

- four (4) TPC fuses are included at no charge; customer-selected values *must* be specified on the order as a separate line item(s) at $0.00

- additional/spare TPC fuses are sold separately and must be specified as separate line items with an associated cost.

- each model is equipped with a Spare Fuse locker that can hold up to two (2) TPC fuses

- eight (8) x 10A GMT fuses are installed during QA testing and included. Alternate values GMT fuses are sold separately as separate line items.

- 8 x GMT fuse covers (part #FUSE-GMT-X) are included and can be used as a GMT fuse removal tool

4805-XLS-16 ∕ 4805-XMS-16:

- each model will accept 16 GMT fuses ($^1/_{18}$A min. to 10A max.)

- 16 x 10A GMT fuses are installed during QA testing and included. Alternate values are sold separately as separate line items.

- each model is equipped with a Spare Fuse locker that can hold up to four (4) GMT fuses

- 16 x GMT fuse covers (part #FUSE-GMT-X) are included and can be used as a GMT fuse removal tool

4870-XLS-4 ∕ 4870-XMS-4:

- each model will accept four (4) TPC fuses (3A min. to 75A max.)

- <u>four (4) TPC fuses are included at no charge</u>; customer-selected values *must* be specified on the order as a separate line item(s) at $0.00

- additional/spare fuses are sold separately and must be specified as separate line items with an associated cost

- each model is equipped with a Spare Fuse locker that can hold up to two (2) TPC fuses

4820-XLS-8 ∕ 4820-XMS-8:

- each model is equipped with eight (8) 25A Potter & Brumfield W23 Series circuit-breakers

- optional value circuit-breakers <25A can be purchased for $25 each (includes factory installation). See circuit-breaker part number list for available values. Maximum value allowed is 25A.

- optional value circuit-breakers which are purchased must be specified on the order as a separate line item and each line *must* include the desired location(s): A1 | A2 | A3 | A4 and/or B1 | B2 | B3 | B4

4835-XLS-4 ∕ 4835-XMS-4:

- each model is equipped with four (4) 40A Potter & Brumfield W23 Series circuit-breakers

- optional value circuit-breakers <40A can be purchased for $25 each (includes factory installation). See circuit-breaker part number list for available values. Maximum value allowed is 40A.

- optional value circuit-breakers which are purchased must be specified on the order as a separate line item(s) and each line *must* include the desired location(s): A1 | A2 and/or B1 | B2

Basic -48VDC Cabinet Distribution Units

All Basic -48VDC CDUs accept either a combination of Bussmann TPA fuses and GMT fuses, or just GMT fuses. <u>Fuses are not included with any Basic -48VDC product</u>. All fuses are sold separately and must be listed on orders as separate line items. See fuse part number list later in this document for available fuse values and part numbers. The following identifies the types and quantities of fuses accepted by each model of Sentry -48VDC Basic CDU:

PDU400-0-2 ∕ PDU400-0-3 ∕ PDU400-F-2:

- each model will accept eight (8) TPA fuses (5A min. to 50A max.) and 16 GMT fuses ($1/_{18}$A min. to 15A max.)

- 16 x GMT fuse covers (part #FUSE-GMT-X) are included and can be used as a GMT fuse removal tool

PDU420-0-1:

- will accept 20 GMT fuses ($1/_{18}$A min. to 15A max.)

- 20 x GMT fuse covers (part #FUSE-GMT-X) are included and can be used as a GMT fuse removal tool

TPA Fuses

Bussmann TPA fuses for use with PDU400 units are manufactured for the following nine (9) amperage limits: 3A, 5A, 10A, 15A, 20A, 25A, 30A, 40A, and 50A

Server Technology generally keeps stock of only six (6) TPA fuse values. The Server Technology part numbers for the six are:

FUSE-TPA-10	FUSE-TPA-15	FUSE-TPA-20	FUSE-TPA-25	FUSE-TPA-30
FUSE-TPA-40				

TPC Fuses

Bussmann TPC fuses for use with 4870 and 4805/35 units are manufactured for the following 16 amperage limits: 3A, 4A, 5A, 6A, 7A, 8A, 10A, 12A, 15A, 20A, 25A, 30A, 40A, 50A, 60A and 75A

Server Technology generally keeps stock of only nine (9) TPC fuse values. The Server Technology part numbers for the nine are:

FUSE-TPC-10	FUSE-TPC-15	FUSE-TPC-20	FUSE-TPC-25	FUSE-TPC-30
FUSE-TPC-40				
FUSE-TPC-50	FUSE-TPC-60	FUSE-TPC-75		

GMT Fuses

Bussmann GMT fuses for use with PDU400, PDU420, 4805 and 4805/35 units are manufactured for the following 18 amperage limits: $^1/_{18}$A, $^1/_4$A, $^3/_8$A, $^1/_2$A, $^{65}/_{100}$A, $^3/_4$A, 1A, $1^1/_3$A, $1^1/_2$A, 2A, 3A, $3^1/_2$A, 4A, 5A, $7^1/_2$A, 10A, 12A, and 15A

Sentry Remote Power Manager units that accept GMT fuses (4805 and 4805/35) <u>cannot</u> be used with values >10A.

Server Technology generally keeps stock of only nine (9) GMT fuse values. The Server Technology part numbers for the nine are:

FUSE-GMT-3/4	FUSE-GMT-1.0A	FUSE-GMT-1.5A	FUSE-GMT-2A	FUSE-GMT-3A
FUSE-GMT-5A				
FUSE-GMT-7.5A	FUSE-GMT-10A	FUSE-GMT-15A		

P&B W23 Series Circuit-Breakers

Potter & Brumfield W23 Series circuit-breakers for use in 4820 and 4835 units are manufactured for the following 12 amperage limits: 1A, 2A, 3A, 5A, 7.5A, 10A, 15A, 20A, 25A, 30A, 35A and 40A

Sentry Remote Power Manager 4820 units <u>cannot</u> be used with values >25A.

Server Technology generally keeps stock of only ten (10) P&B W23 Series circuit-breaker values. The Server Technology part numbers for the ten are:

CB-PB01AMP-W23	CB-PB02AMP-W23	CB-PB5AMP-W23	CB-PB10AMP-W23
CB-PB15AMP-W23			

(07/28/2006)