CUBEFuse™ Compact Circuit Protector Base (CCPB)

RoHS

Product description:

The revolutionary Bussmann® series Compact Circuit Protector Base (CCPB) with Bussmann series CUBEFuse™ is designed as a fused branch circuit disconnect switch for the Bussmann series Quik-Spec™ Coordination Panelboard. The CCPB with CUBEFuse simplifies selective coordination and lockout/tagout provisions allow for isolation of individual branch circuit loads for safe work practices.

Features and benefits:

- Uses finger-safe, current-limiting Bussmann series UL® Class CF CUBEFuse with Class J performance available, time-delay or fast-acting versions from 1 to 100 amps*
- Patented ampacity rejection feature helps prevent overfusing
- High 200kA short-circuit current ratings
- Disconnect rated to provide means for load isolation
- All versions are full voltage rated at 600 Vac
- 125Vdc rated for 80 A and below
- UL 98 Listed and suitable for branch circuit disconnect
- 1-, 2- and 3-pole versions are horsepower rated
- Listed to UL and cULus
- Open fuse indication light per pole
- Additional open fuse indication can be provided by using the time-delay indicating CUBEFuse version (6-100 A only)
- Built-in switch/fuse interlock prohibits fuse removal while energized
- Permanent lockout/tagout provisions
- Lock-ON provision available when used in the Bussmann series Quik-Spec™ Coordination Panelboard (QSCP)

* See data sheet No. 9000 for time-delay CUBEFuse and data sheet No. 2147 for fast-acting CUBEFuse specifications.

Specifications:

Switch ampacity and rejection breaks

- 15, 20, 30, 40, 50, 60, 70, 90 and 100 A

Poles

- 1-, 2- and 3-pole versions

Volts

- 600Vac (or less)
- 125Vdc (15, 20, 30, 40, 70 and 90 A switches with ≤ 80 A fuse)

Agency information

- UL 98 Listed, File E302370, Guide WHTY
- cULus to CSA Standard 22.2 No. 4, File E302370, Guide WHTY7
- CE
- RoHS compliant

Terminals

Lineside bolt-on bus connector and torque

- Bolt-mounted design into Quik-Spec Coordination Panelboard bus
- #10-32-UNC Hex flange Phillips screw; 25 Lb-In (2.8 N•m)

Loadside box lug terminal and torque

- 15-60A:
  - 18 to 10AWG (1 to 6mm²) single or dual rated (same size wire), solid or stranded – 75°C or higher - Cu only; 20 Lb-In (3.4 N•m)
  - 8 to 6AWG (10 to 16mm²) single or dual rated (same size wire), solid or stranded – 75°C or higher - Cu only; 35 Lb-In (5.8 N•m)
  - 4AWG (25mm²) single – 75°C or higher - Cu only; 35 Lb-In (5.8 N•m)
- 100A:
  - 18 to 10AWG (1 to 6mm²) single, solid or stranded – 75°C or higher - Cu only; 25 Lb-In (2.82 N•m)
  - 8 to 1AWG (10 to 45mm²) single stranded – 75°C or higher - Cu only; 40 Lb-In (4.52 N•m)
  - 6AWG (16mm²) dual stranded (same size wire) – 75°C or higher Cu only; 45 Lb-In (5.08 N•m)

Loadside fork terminal

- Max. 30A suitable for use with #8-32UNC screw

Lockout/tagout

- 4mm shank lock

Local open fuse indication

- Light illumination requires closed circuit and minimum 90V operating voltage

Shipping weight

- 2.03 lbs per carton

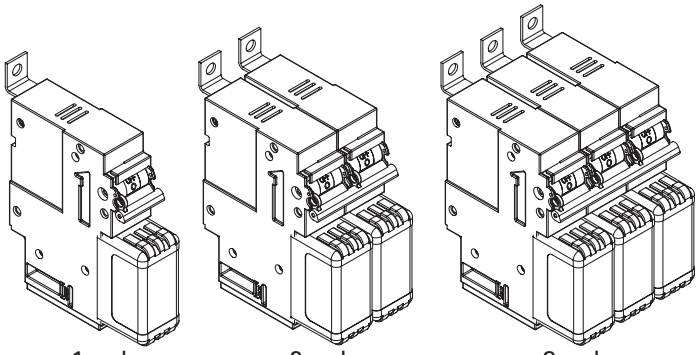
Carton quantity

- 6 poles

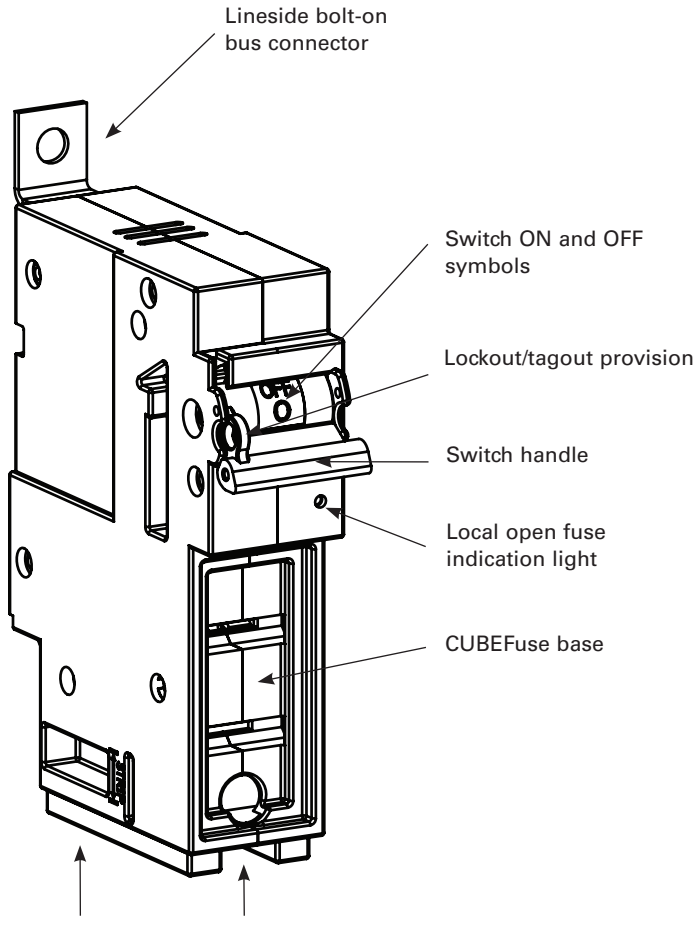
Environmental data

Storage and operating temperature -20°C to 75°C**

** For fuse performance under or above 25°C, consult fuse performance derating charts.



1-pole CCPB-1-_CF | 2-pole CCPB-2-_CF | 3-pole CCPB-3-_CF



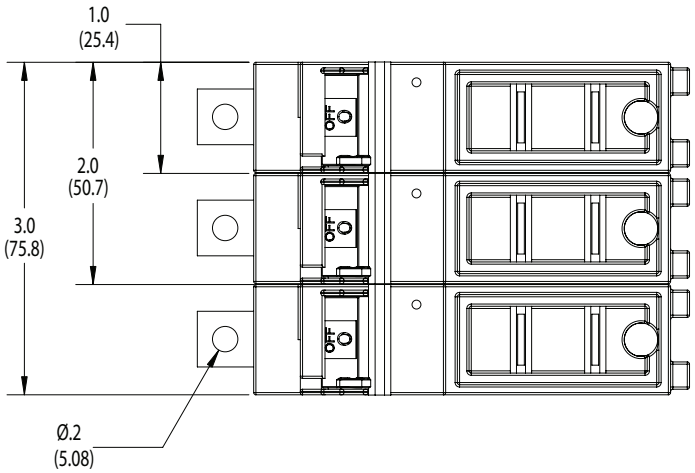
Catalog numbers:

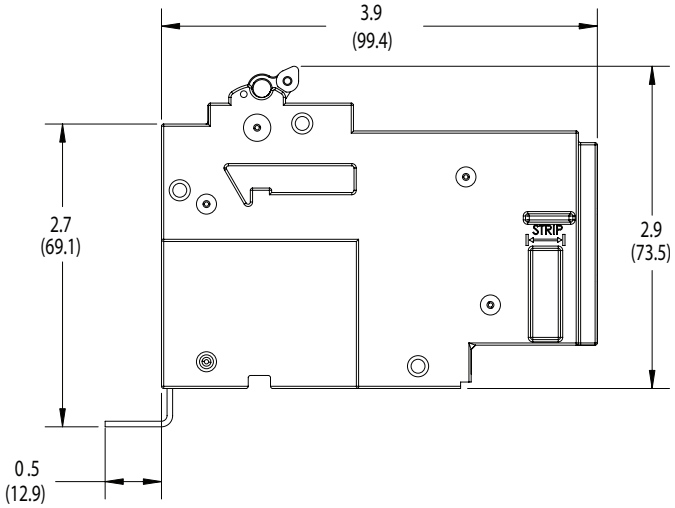
CCPB part numbers	Poles	Voltage rating	Accepts CUBEFuse amp range	Typical installed fuse amp range			Max. fuse amps†	SCCR	Hp ratings (Vac)††
				Time-delay non-indicating	Time-delay indicating*	Fast-acting non-indicating**			
CCPB-1-15CF	1	600 Vac, 125 Vdc	1 to 15	TCF1RN, TCF3RN, TCF6RN, TCF10RN, TCF15RN	TCF6, TCF10, TCF15	FCF1RN, FCF3RN, FCF6RN, FCF10RN, FCF15RN	15 A	200kA AC 100kA DC	0.5Hp@120V
CCPB-2-15CF	2								1.5Hp@240V
CCPB-3-15CF	3	600 Vac							3Hp@240V 5Hp@480V 7.5Hp@600V
CCPB-1-20CF	1	600 Vac, 125 Vdc	1 to 20	TCF17-1/2RN, TCF20RN	TCF17-1/2, TCF20	FCF20RN	20 A	200kA AC 100kA DC	0.75Hp@120V
CCPB-2-20CF	2								2Hp@240V
CCPB-3-20CF	3	600 Vac							3Hp@240V 7.5Hp@480V 10Hp@600V
CCPB-1-30CF	1	600 Vac, 125 Vdc	1 to 30	TCF25RN, TCF30RN	TCF25, TCF30	FCF25RN, FCF30RN	30 A	200kA AC 100kA DC	1.5Hp@120V
CCPB-2-30CF	2								3Hp@240V
CCPB-3-30CF	3	600 Vac							5Hp@240V 15Hp@480V 10Hp@600V
CCPB-1-40CF	1	600 Vac, 125 Vdc	1 to 40	TCF35RN, TCF40RN	TCF35, TCF40	FCF35RN, FCF40RN	40 A	200kA AC 100kA DC	2.0Hp@120V
CCPB-2-40CF	2								3Hp@240V
CCPB-3-40CF	3	600 Vac							7.5Hp@240V 20Hp@480V 10Hp@600V
CCPB-1-50CF	1	600 Vac	1 to 50	TCF45RN, TCF50RN	TCF45, TCF50	FCF45RN, FCF50RN	50 A	200kA AC 100kA DC	3.0Hp@120V
CCPB-2-50CF	2								5Hp@240V
CCPB-3-50CF	3	600 Vac							7.5Hp@240V 20Hp@480V 10Hp@600V
CCPB-1-60CF	1	600 Vac	1 to 60	TCF60RN	TCF60	FCF60RN	60 A	200kA AC 100kA DC	3.0Hp@120V
CCPB-2-60CF	2								7.5Hp@240V
CCPB-3-60CF	3	600 Vac							7.5Hp@240V 20Hp@480V 10Hp@600V
CCPB-1-70CF	1	600 Vac, 125 Vdc	1 to 70	TCF70RN	TCF70	FCF70RN	70 A	200kA AC 100kA DC	3.0Hp@120V
CCPB-2-70CF	2								7.5Hp@240V
CCPB-3-70CF	3	600 Vac							15Hp@240V 30Hp@480V 40Hp@600V
CCPB-1-90CF	1	600 Vac, 125 Vdc†††	1 to 90	TCF90RN	TCF90	FCF80RN, FCF90RN	90 A	200kA AC 100kA DC	5.0Hp@120V
CCPB-2-90CF	2								10Hp@240V
CCPB-3-90CF	3	600 Vac							20Hp@240V 50Hp@480V 40Hp@600V
CCPB-1-100CF	1	600 Vac	1 to 100	TCF100RN	TCF100	FCF100RN	100 A	200kA AC	5.0Hp@120V
CCPB-2-100CF	2								10Hp@240V
CCPB-3-100CF	3								20Hp@240V 50Hp@480V 40Hp@600V

* 1 A and 3 A indicating Bussmann series CUBEFuse not available. Correct fit with CCPB disconnect requires indicating Bussmann series CUBEFuse with date code R38 or later.
** Do not use UPS/Critical Application fast-acting FCF with motors.
† Any fuse with an amp rating less than or equal to the max fuse rating may be used. E.g., TCF15 may be used with CCPB-1-20CF.
†† Indiacting or non-indicating time-delay Bussmann series CUBEFuse only.
††† 125Vdc only applies up to 80 A.

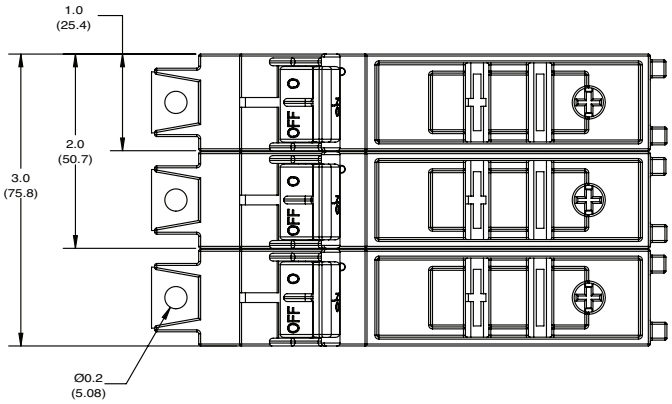
Dimensions — in (mm):

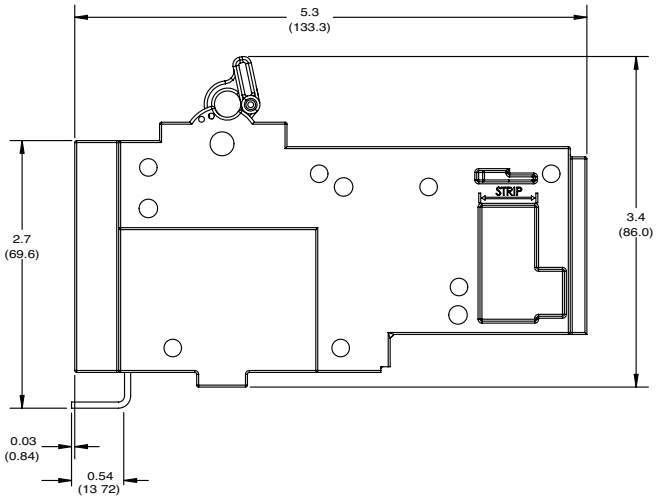
15-60 A





70-100A





For details on the CCPB and its use in the Quik-Spec Coordination Panelboard, see data sheet 1160.

Motor sizing table:

Bussmann series Low-Peak™ TCF_ and TCF_RN time-delay Class CF fuses

Voltage	Motor size (Hp)	Motor FLA (amps)	Optimal protection (amps)	Code max (amps)	Heavy start (amps)
115Vac, 1-phase	0.167	4.4	10	10	10
	0.25	5.8	10	15	15
	0.333	7.2	15	15	15
	0.5	9.8	15	20	20
	0.75	13.8	25	25	30
	1	16	25	30	35
	1.5	20	30	35	45
	2	24	40	45	50
	3	34	50	60	N/A
	5**	56	90	100	N/A
230Vac,1-phase	0.167	2.2	6	6	6
	0.25	2.9	6	6	6
	0.333	3.6	6	10	10
	0.5	4.9	10	10	10
	0.75	6.9	15	15	15
	1	8	15	15	17.5
	1.5	10	15	20	20
	2	12	20	25	25
	3	17	25	30	35
	5	28	45	50	60
	7.5	40	60	N/A	N/A
	10**	50	80	90	N/A
200Vac, 3-phase	0.5	2.5	6	6	6
	0.75	3.7	6	10	10
	1	4.8	10	10	10
	1.5	6.9	15	15	15
	2	7.8	15	15	17.5
	3	11	17.5	20	20
	5	17.5	30	35	35
	7.5	25.3	40	45	50
	20**	62.1	100	N/A	N/A
208Vac, 3-phase	0.5	2.4	6	6	6
	0.75	3.5	6	10	10
	1	4.6	10	10	10
	1.5	6.6	10	15	15
	2	7.5	15	15	15
	3	10.6	17.5	20	20
	5	16.7	25	30	35
	7.5	24.2	40	45	50
	20**	59.4	90	N/A	N/A
230Vac, 3-phase	0.5	2.2	6	6	6
	0.75	3.2	6	6	6
	1	4.2	10	10	10
	1.5	6	10	15	15
	2	6.8	15	15	15
	3	9.6	15	20	20
	5	15.2	25	30	30
	7.5	22	35	40	45
	20**	54	90	100	N/A
460Vac, 3-phase	0.5	1.1	3	3	3
	0.75	1.6	3	3	3
	1	2.1	6	6	6
	1.5	3	6	6	6
	2	3.4	6	6	6
	3	4.8	10	10	10
	5	7.6	15	15	15
	7.5	11	17.5	20	20
	10	14	25	25	30
	15	21	35	40	45
	20	27	40	50	60
	50**	65	100	N/A	N/A
575Vac, 3-phase	0.5	0.9	3	3	3
	0.75	1.3	3	3	3
	1	1.7	3	3	3
	1.5	2.4	6	6	6
	2	2.7	6	6	6
	3	3.9	6	10	10
	5	6.1	10	15	15
	7.5	9	15	20	20
	10	11	17.5	20	20
	40**	41	70	80	80

Note: Use code max column for low to moderate reverse/jog/plug applications.

* Heavy start permitted only if code max does not allow motor start-up. Based on motor FLA from NEC® tables 430.248 and 430.250.

The only controlled copy of this data sheet is the electronic read-only version located on the Eaton network drive. All other copies of this document are by definition uncontrolled. This bulletin is intended to clearly present comprehensive product data and provide technical information that will help the end user with design applications. Eaton reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Eaton also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.

Eaton
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

Bussmann Division
114 Old State Road
Ellisville, MO 63021
United States
Eaton.com/bussmannseries

Printed in USA
Publication No. 1161 – BU-SB15190
April 2016

For Eaton's Bussmann series product information, call **1-855-287-7626** or visit: **Eaton.com/bussmannseries**

Follow us on social media to get the latest product and support information.

Powering Business Worldwide