CUBEFuse™ Compact Circuit Protector Base (CCPB)

RoHS 2011/65/EU

Features and benefits:

- Uses finger-safe, current-limiting 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 600Vac
- 125Vdc rated for 80A 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
- 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 9000 for time-delay CUBEFuse and data sheet 2147 for fast-acting CUBEFuse specifications.

Product description:

The revolutionary Bussmann™ series Compact Circuit Protector Base (CCPB) with 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.

Specifications:

Switch ampacity and rejection breaks

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

Poles

- 1-, 2- and 3-pole versions

Volts

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

Agency information

- UL 98 Listed, File E302370, Guide WHTY
- cULus to CSA Standard 22.2 No. 4, File E302370, Guide WHTY7
- CE compliant
- 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 10 AWG (1 to 6mm^2) 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 6 AWG (10 to 16mm^2) single or dual rated (same size wire), solid or stranded – 75°C or higher - Cu only; 35 Lb-In (5.8 N•m)
  - 4 AWG (25mm^2) single – 75°C or higher - Cu only; 35 Lb-In (5.8 N•m)
- 100A:
  - 18 to 10 AWG (1 to 6mm^2) single, solid or stranded – 75°C or higher - Cu only; 25 Lb-In (2.82 N•m)
  - 8 to 1 AWG (10 to 45mm^2) single stranded – 75°C or higher - Cu only; 40 Lb-In (4.52 N•m)
  - 6 AWG (16mm^2) 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

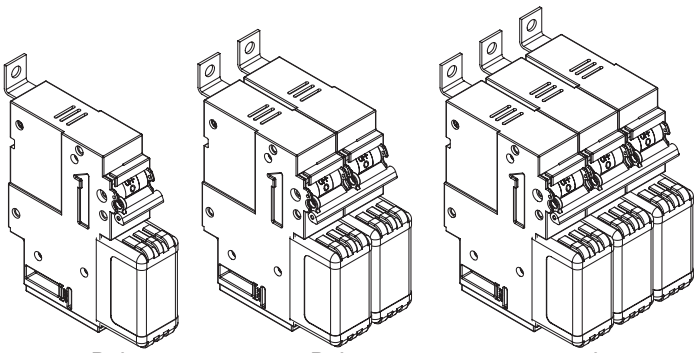
Carton quantity

- 6 poles

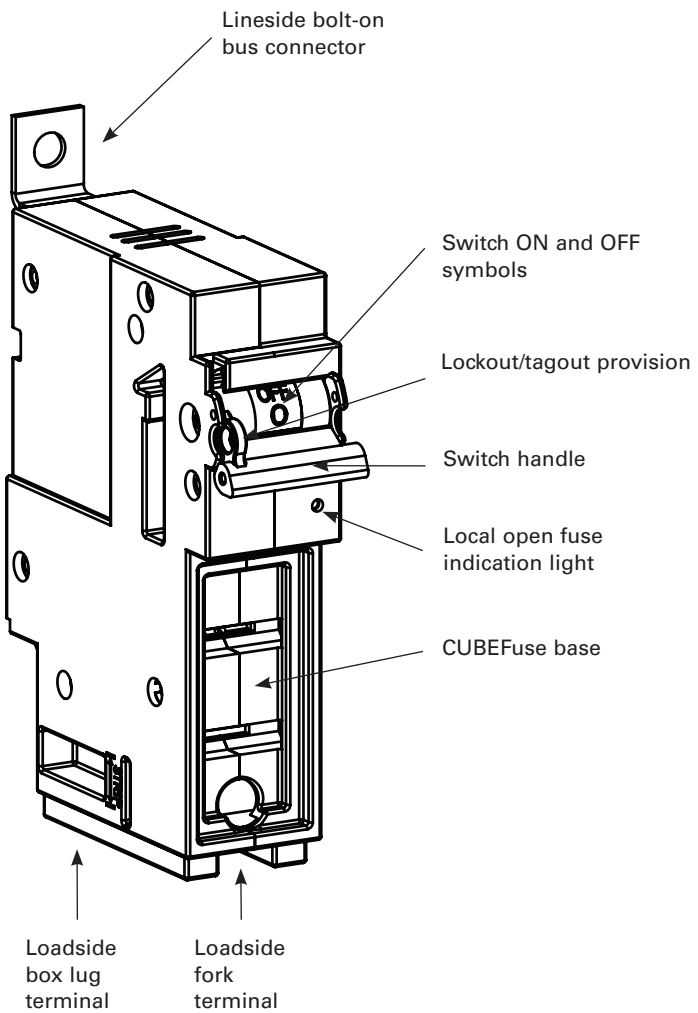
Environmental data

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



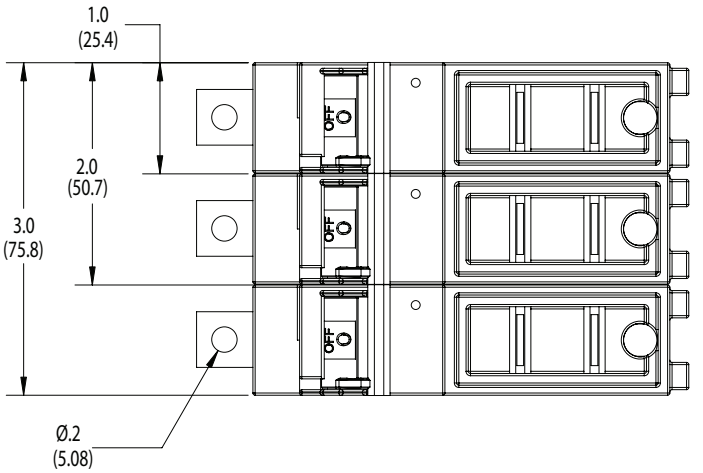
Catalog numbers:

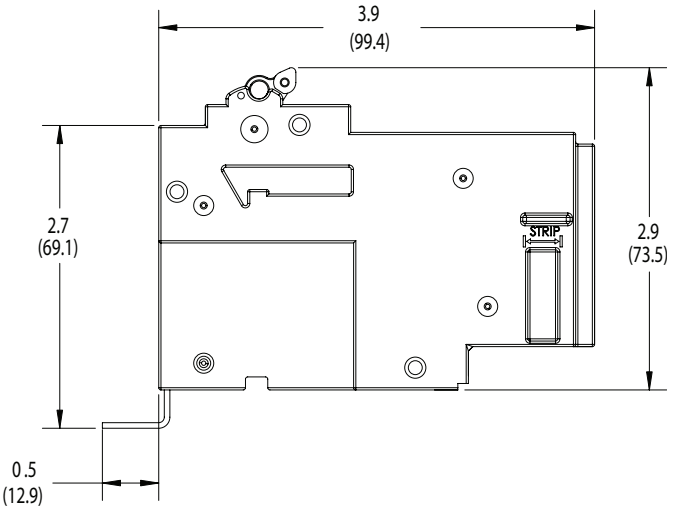
CCPB part numbers	Poles	Voltage rating	Accepts CUBEFuse amp range	Typical installed fuse amp range			Max. fuse amps†	SCCR	Hp ratings (Vac)††
				Time-delay non-indicating	Time-delay indicating*	Fast-acting non-indicating**			
CCPB-1-15CF	1	600Vac, 125Vdc	1 to 15	TCF1RN, TCF3RN, TCF6RN, TCF10RN, TCF15RN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

* 1A and 3A indicating CUBEFuse not available. Correct fit with CCPB disconnect requires indicating 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 CUBEFuse only.
††† 125Vdc only applies up to 80A.

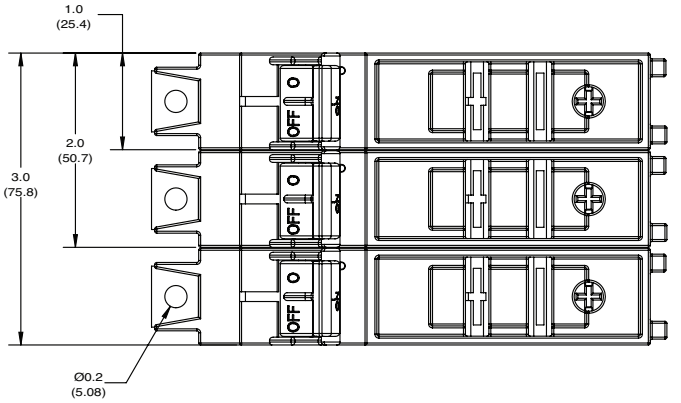
Dimensions — in (mm):

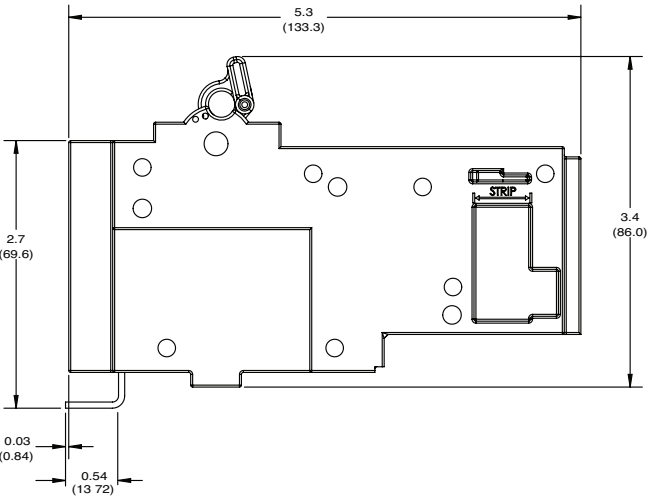
15-60A





70-100A





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

Motor sizing table:

Low-Peak™ TCF_ and TCT_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

Voltage	Motor size (Hp)	Motor FLA (amps)	Optimal protection (amps)	Code max (amps)	Heavy start (amps)
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.

CUBEFuse Compact Circuit Protector Base (CCPB) for Quik–Spec™ Coordination Panelboards

Eaton
1000 Eaton Boulevard
Cleveland, OH 44122
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 2017

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