



### Product Description

As a leader in the electrical distribution equipment business, Eaton has a unique product offering for equipment manufacturers, panel builders and virtually any OEM that has a need for power distribution within their equipment. The OEM interior offering consists of a wide variety of power distribution options utilizing components from Eaton's CH and BR loadcenter product lines. With high-volume, standardized products, OEMs can expect to receive high-quality products covering configurations meeting virtually any power distribution need.

Coupled with Eaton's expertise in circuit breaker design and manufacturing, OEM interiors provide solid power distribution and circuit protection in a compact, easy-to-install package. Interiors are offered from 2 to 42 circuits and from 70 to 225A.

### Quality

Built in ISO 9002 certified manufacturing facilities, customers can be assured of the process quality in place for the manufacture of these products. Utilizing the latest in computer-controlled plating, painting, molding, stamping and welding processes, Eaton's customers have come to expect consistent high-quality from shipment to shipment.

### Two Products Offer Design Flexibility

As a manufacturer of two lines of loadcenters, Eaton is in a unique position to offer the broadest range of interiors in the market. Each line has its own unique characteristics that appeal to various segments of the market. OEM interiors are UL recognized components and are listed in either of the following UL files: E8741 or E52977.

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The CH interiors feature 100% copper bus and use the CH 3/4-inch (19.1 mm) wide circuit breaker, which minimizes panel space. Recognized by contractors for its sturdy design, the CH interior will appeal to those customers seeking an industrial quality bolted bus bar and the space saving of 3/4-inch (19.1 mm) per bus stab. With a typical 12 circuit CH interior, this space savings amounts to an inch and a half savings over its 1-inch (25.4 mm) counterparts. The stab rating of the CH interiors is 140A maximum meaning that the handle rating of breakers mounted across from one another may not exceed 140A.

The BR interiors are manufactured of formed, plated aluminum or copper, and use Eaton's Type BR 1-inch (25.4 mm) wide circuit breaker. This design affords customers the most circuit flexibility as many of these interiors allow the installation of standard single- and two-pole breakers as well as duplex (two poles in a 1-inch (25.4 mm) space) or quadplex (four poles in a 2-inch (50.8 mm) space) breakers.

The stab rating of the BR interiors is 200A maximum, meaning that the handle rating of the breakers that are mounted across from one another may not exceed 200A.

The interiors are designed for either horizontal (single-row breaker mounting), or vertical (double-row breaker mounting). To comply with National Electrical Code (NEC) requirements, if mounted horizontally, when the breaker is ON, the handle should be in the UP position. When mounted vertically, the handle toggles from left to right, so this is not a concern.

## Standards and Certifications

### Class CTL

National Electrical Code Paragraph 384-15 requires branch circuit panelboards to be provided with physical means to prevent the installation of more overcurrent devices than that number of which the enclosure was designed, rated and approved. Class CTL Duplex, Quadplex and twin breakers (identified by a catalog number prefix BD, BQ, BQC and CHT) are equipped with a UL listed rejection tab over the line terminal. All OEM interiors have appropriately notched stabs to accept these rejection tab Class CTL breakers.

Duplex, Quadplex and twin breakers manufactured without the rejection tab (identified by a catalog number prefix BR, BRD and CHNT) are available for replacement purposes in older interiors.

### Federal Specifications

All loadcenter enclosures meet Federal Specifications W-P-115b, Type 1, Class 2 requirements.

All 120/240V breakers, both 1-inch (25.4 mm), 1/2-inch (12.7 mm) and 3/4-inch (19.1 mm) per pole meet the requirement of Federal Specifications W-C 375B/Gen Type 1.

### Canadian Standards Association Listing

All single-pole and two-pole, 120/240V breakers, both 1-inch (25.4 mm), 1/2-inch (12.7 mm) and 3/4-inch (19.1 mm) per pole, 225A maximum, are listed as Certified by the Canadian Standards Association, Guide No. 69-11.19, Class 1432, File 18328.

### Underwriters Laboratories Listing

All grounding bars manufactured comply with Underwriters Laboratories standards and are listed under Guide No. DHJR, File E31424, Volume W, Section 17.

All circuit breakers 10A and larger comply with the Underwriters Laboratories "Standard for Branch Circuit and Service Circuit-Breakers" UL 489; Guide No. 60 10.2 File E31424, and "Requirements for Wire Connectors and Soldering Lugs," UL 486B, Guide No. 461 10-C File E7830.

All Eaton breakers where marked, are suitable for use with 60/75°C rated wire, unless otherwise specified.

All devices comply with the 22 kAIC–10 kAIC UL series connected components File DKSY2 of the Recognized Components Index.

### Lighting and Appliance Panelboards

Lighting and appliance branch circuit panelboards are defined in NEC (Article 384) as "One having more than 10 percent of its overcurrent devices rated 30A or less for which neutral connections are provided." Article 384 also limits the number of overcurrent devices (branch circuit poles) to a maximum of 42 in any one cabinet. When the 42 poles are exceeded, two or more separate panels are required.

For more details and engineering drawings, see BR.31.02.S.E.



## Product Selection

### Type CH Loadcenter Interior Assemblies—Copper Bus

Ampere Rating	Maximum Number 1-Inch (24.5 mm) Spaces	Single Poles	UL File Reference	Main Terminal Size (Per Phase)	Standard Package Quantity	Catalog Number
<b>Single-Phase Single Row Breaker Mounting—120/240 Vac, Three-Wire</b>						
70	2	2	E8741	(1) #8–#2 AWG Cu/Al	1	CH9MB270
125	2	2	E8741	(1) 2/0–#6 AWG Cu/Al	20	CH2L125INT
<b>Single-Phase Double Row Breaker Mounting—120/240 Vac, Three-Wire</b>						
125	4	4	E8741	(1) 2/0–#14 AWG Cu/Al	20	CH4L125INT
125	8	8	E8741	(1) 2/0–#6 AWG Cu/Al	20	CH8L125INT
125	12	12	E8741	(1) 2/0–#6 AWG Cu/Al	20	CH12L125INT
125	16	16	E8741	(1) 2/0–#6 AWG Cu/Al	20	CH16L125INT
200	12	12	E8741	(1) 300 kcmil–#4 AWG Cu/Al	20	CH12L200INT
200	16	16	E8741	(1) 300 kcmil–#4 AWG Cu/Al	10	CH16L200INT
225	24	24	E8741	(1) 300 kcmil–#4 AWG Cu/Al	10	CH24L225INT
225	32	32	E8741	(1) 300 kcmil–#4 AWG Cu/Al	10	CH32L225INT
225	42	42	E8741	(1) 300 kcmil–#4 AWG Cu/Al	10	CH42L225INT
<b>Three-Phase Double Row Breaker Mounting—208Y/120 Vac, Four-Wire—240 Vac, Three-Wire—120/240 Vac, Four-Wire Delta</b>						
125	12	12	E8741	(1) 2/0–#6 AWG Cu/Al	10	CH12L3125INT
125	18	18	E8741	(1) 2/0–#6 AWG Cu/Al	10	CH18L3125INT
125	24	24	E8741	(1) 2/0–#6 AWG Cu/Al	10	CH24L3125INT
225	24	24	E8741	(1) 300 kcmil–#4 AWG Cu/Al	10	CH24L3225INT
225	30	30	E8741	(1) 300 kcmil–#4 AWG Cu/Al	10	CH30L3225INT
225	42	42	E8741	(1) 300 kcmil–#4 AWG Cu/Al	10	CH42L3225INT

## Neutral Assemblies

1

Ampere Rating	UL File Rating	Main Incoming Terminal Wire Size Range 60°C or 75°C	Number of Terminals		Standard Package Quantity	Figure	Dimensions—Inches (mm)		Catalog Number
			#14–4 AWG Cu/Al	#6–1/0 AWG Cu #6–2/0 AWG Al			Overall Length A	Mounting B	
125	E52977	#6–1/0 AWG Cu #6–2/0 AWG Al	10	—	20	1	5.938 (150.83)	5.400 (137.16)	10NEU125B
125	E52977	#6–1/0 AWG Cu #6–2/0 AWG Al	17	—	20	1	8.388 (213.06)	7.850 (199.40)	17NEU125B
125	E52977	#6–1/0 AWG Cu #6–2/0 AWG Al	20	—	20	1	9.438 (239.73)	8.900 (226.06)	20NEU125B
225	E52977	#1–300 kcmil Cu/Al	24	1	20	2	10.913 (277.19)	10.300 (261.62)	24NEU225B
225	E52977	#1–300 kcmil Cu/Al	35	1	20	2	15.813 (401.65)	15.200 (386.08)	35NEU225B
125	—	—	4	2	1	3	2.266 (57.56)	0.594 (15.09)	BINA

Figure 1

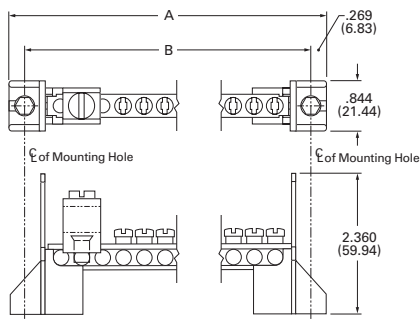


Figure 3

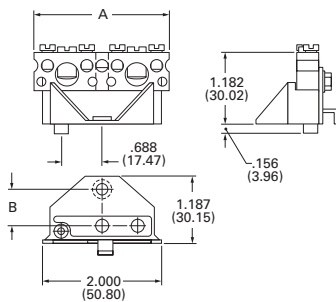


Figure 2

