Features, Benefits and Functions

Pow-R-Way III Offers a Full Line of Low Voltage Busway to Meet the Needs of the Global Marketplace

Eaton has combined the requirements of NEMA, UL, CSA and IEC into one design to present a world-class product in Pow-R-Way III. With standard features that include a two-piece aluminum housing, finger-safe plug-in outlets, an integral ground path and high 6-cycle shortcircuit withstand ratings, Pow-R-Way III provides a busway system that can be used over a broad spectrum of industrial, commercial and institutional applications worldwide.

Product Offering

Plug-In Busway

225–5000 Å copper and 225–4000 Å aluminum straight sections of plug-in busway are available in 2 ft (0.6 m) incremental lengths from a 2 ft (0.6 m) minimum to 10 ft (3 m) maximum. Plug-in busway is also available as sprinkler proof

Feeder Busway

225–5000 Å copper and 225–4000 Å aluminum straight sections of indoor and outdoor feeder busway available in any length in 1/8-inch (3.2 mm) increments from a 16-inch (406 mm) minimum to a 10-foot (3 m) maximum. A wide range of fittings are available in indoor sprinkler-proof, or outdoor feeder busway

• Plug-In Units

A full family of busway plug-in units is available. Standard plug-in units include fusible or circuit breaker protection. Advanced plug-in units include Visor Series surge suppression, communicating IQ Energy Sentinel and OPTIM circuit breakers, and Advantage combination contactors and starters. A full line of receptacle plug-in units are available

Product Features and Benefits

- The all-aluminum twopiece housing provides durability and product integrity
- The lightweight and compact design results in easy installation
- The housing combined with a true sandwich design in both plug-in and feeder busway contributes to improve coordination and high short-circuit ratings
- An epoxy insulation process ensures optimum conductor and system protection
- Silver-plated joint and contact surfaces provide high-quality connections
- Highly automated manufacturing processes result in a superior product
- The Pow-R-Bridge joint package and torque indicating bolt gives a rugged, yet flexible and easy-to-install connection
- Corner joint elbows contribute to successful layouts and minimize space limitations

- High 6-cycle shortcircuit ratings optimize coordination between busway and power equipment
- This world-class product design and manufacturing meets the requirements of NEMA, CSA, Seismic and ISO® and IEEE®
- Plug-in busway design and an enhanced bus plug-in unit facilitates installation and improves safety
- Flexible ground and neutral options provide solutions for any application problem
- A full family of plug-in units is available for every power need
- Advanced bus plugs provide protection, communication and coordination capabilities

Busway Capabilities

- The busway manufacturing plant in Greenwood, SC, is able to meet your emergency or quick ship requirements with quick ship lead-times from 3 days to 2 weeks
- Customer approval drawings can be available in 2 weeks or less to meet your project requirements
- Eaton's final field fit program ensures accurate layout and allows for minor last-minute modifications during installation
- Advanced system tools including Bid Manager™ programs provide quick and accurate product information

Standards and Certifications

- Pow-R-Way III meets the requirements of NEMA, UL 857, CSA C22.2 No. 27-94, IEEE, ANSI, IEC 439-1 and 2, IEC 529 and is manufactured in an ISO 9001 certified facility
- Pow-R-Way III meets the International Building Code standards and is certified in the Uniform Building Code® and the California Building Code to exceed Zone 4 requirements
- ANSI, NEMA, IEEE, CSA, UL 857
- 10 kAIC rms symmetrical
- Fused duplex—40 A maximum
- Single—70 A maximum
- Quad—125 A maximum





Product Support

Busway product and application support is available from a professional team of Eaton employees that includes field sales engineers, application engineers, engineering service systems and the greenwood busway product engineering services.

Additional Programs

Final Field Fit—This program was established to effectively manage the dimensional uncertainties that are often inherent in bus duct layouts. This program provides the assurance of an exact fit the first time. It allows for bus duct runs to be released for manufacture when certain dimensions are not yet determined. It also eliminates the costly delays that can occur when sections have to be remade in order to accommodate last-minute job site changes in routing. For program details, please see publication SA01702001E.

Field Measurements—

For larger and more complex projects, Eaton will provide factory assistance with taking busway layout measurements. We will take full accountability of all measurements and will ensure an exact fit. Contact your local Eaton sales office for pricing and availability.

Additional Information

- Product Brochure: BR01701001E
- Technical Data: TD01701003E
- Consulting Application Guide: CA08104001E
- Electrical Solutions Catalog: CA08105001E
- ABCs of Planning/ Installation: IM01701002E
- Services and Solutions: BR01701002E

Pow-R-Way III

- Technical Data: TD01701003E
- ABCs of Busway: IM01701002E
- Brochure: BR01701001E

Service and Solutions

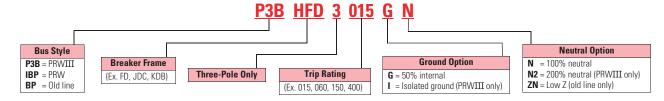
- Installation and Maintenance: IB01701001E
- Selling Policy: 25-000
- Discount Symbol: CE3-LV Busway
 CE4-LV Busway Devices



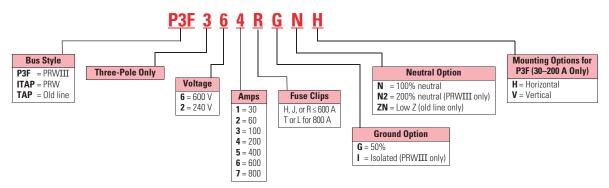
Bridge Joint Assembly

Catalog Number Selection

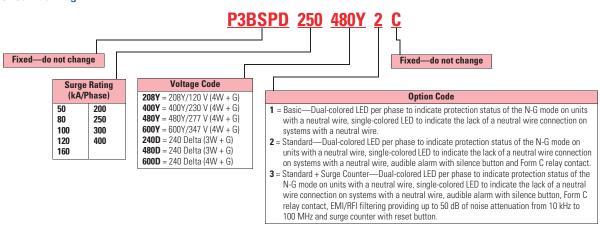
Breaker Unit



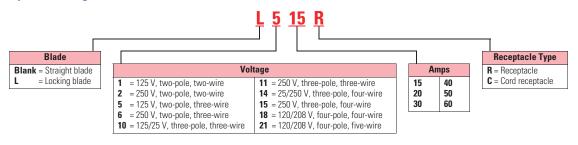
Fusible Unit



SPD Series Bus Plug



NEMA Receptacle Configuration



Notes

"H" clips are standard for PRW and old line unless specified by adding "R" in catalog number.

Please call Greenwood low voltage busway department for help in assigning a catalog number for a specific application.

Do not leave spaces between characters. Example: P3BFD3100N; ITAP361N.

All plug-in units come fully assembled.

50% Internal

50% Isolated

Product Selection

Circuit Breaker Plug-In Units

Horizontal Install (Front View)

Circuit Breaker Plug-In Units



Horizontal Install



	Breaker Frame	Ampere Rating	Plug-In Enclosure Catalog Number ①	100% Neutral Stab Catalog Number	Ground Stab Catalog Number	Ground Stab Catalog Number	200% Neutral Stab Catalog Number
4	ED, EDH, EHD, EDC,	10-225	P3BFD	P3FDN100	P3FG100	P3FDI100	P3FD2N100
	FDB, FD, HFD, FDC			P3FDN225	_	P3FDI225	P3FD2N225
	JDB, JD, HJD, JDC	70–250	P3BJD	P3JDN150	_	P3JDI150	P3JD2N150
				P3JDN250	P3JDG250	P3JD1250	P3JD2N250
í	KDB, KD, DK, HKD, KDC	100-400	P3BKD	P3KDN400	P3KDG400	P3KDI400	P3KD2N400
	LDB, LD, HLD, LDC	300-600	P3BLD	P3MDN800	P3MDG800	P3MD1800	_
	MDL, HMDL	400-800	P3BMD	P3MDN800	P3MDG800	P3MDI800	_
	ND, HND, NDC	400-800	P3BND	P3NDN800	P3NDG800	P3NDI800	_
	FB TRI-PAC	15–100	P3BFBP	P3FBPN100	P3FBPG100	P3BFBPI100	_
	LA TRI-PAC	75–400	P3BLAP	P3LAPN400	P3LAPG400	P3LAPI400	_
	NB TRI-PAC	500-800	P3BNBP	P3NBPN800	P3NBPG800	P3BNBPI800	_

- Refer to Page V2-T6-22 for breaker data; for reference only
- The enclosure, circuit breaker, neutral and ground are ordered and shipped assembled
- Housing ground connection supplied as standard at no additional charge

Circuit Breaker Plug

Advanced Circuit Breaker Plug-Ins



Digitrip	Ampere	Plug-In Enclosure	100% Neutral	50% Internal Ground	50% Isolated Ground
OPTIM	Rating	Catalog Number	Catalog Number	Catalog Number	Catalog Number
L-Frame	70-600	P3B0RPL	P3BORPLN600	P3BORPLG600	

- The P3BFD, P3BJD and P3BKD plug-in units can be modified to accept breaker mounted IQ Energy Sentinels
- The IQ Energy Sentinel and the OPTIM breaker plug-in units permit multiple meters, remote monitoring, and interconnection with programmable logic controllers and buildingmanagement systems. Applications may range from revenue metering for tenant billing to a full-power management system. Consult with an Eaton application engineer or the busway product line for assistance

Notes

© Enclosure not sold separately. Refer to Page V2-T6-14 for assembled bus plug catalog number. See Page V2-T6-14 for plug assembled style number configuration.

Circuit Breaker Plug-In Units

Circuit Breakers

100% rated breakers are not available for use in bus plugs. Contact product line for guidance.

Ampere Rating	Interrupting 240 Vac	Rating (kA Symmo 480 Vac	etrical) 600 Vac	Breaker Type	
15–60	18	14	_	EHD	
70–100	18	14	_	EHD	
15–60	18	14	14	FDB	
70–100	18	14	14	FDB	
110–150	18	14	14	FDB	
15–60	65	35	18	FD	
70–100	65	35	18	FD	
110–150	65	35	18	FD	
175–225	65	35	18	FD	
15–60	100	65	25	HFD	
70–100	100	65	25	HFD	
110–150	100	65	25	HFD	
175–225	100	65	25	HFD	
15–60	200	100	35	FDC	
70–100	200	100	35	FDC	
110–225	200	100	35	FDC	
15–100	200	150	_	FCL	
100–225	65		_	ED	
100–225	100		_	EDH	
100–225	200	_	_	EDC	
70–225	65	35	18	JD, JDB	
250	65	35	18	JD, JDB	
70–225	100	65	25	HJD	
250	100	65	25	HJD	
70–225	200	100	35	JDC	
250	200	100	35	JDC	
125–250	200	200	100	LCL	
250-400	65			DK	
100-400	65	35	25	KD, KDB	
100-400	100	65	35	HKD	
100-400	200	100	65	KDC	
200–400	200	200		LCL	
300–600	65	35	25	LD, LDB	
300–600	100	65	35	HLD	
300-600	200	100	50	LDC	
400-800	65	50	25	MDL	
400-800 400-800	100	65	35	HMDL	
400-800 400-800	65	50	25	ND	
400-800 400-800	100	65	35	HND	
400-800	200	100	50	NDC	
600–1200	65	50	25	ND	
600–1200	100	65	35	HND	
600–1200	200	100	50	NDC	

Branch Devices Earth Leakage Ground Fault Circuit Breakers

(Adjustable pickup from 30 mA to 30 A)

Ampere Rating	kAIC (Symmetrical) 480 Vac	Breaker Type
35–60	25	ELFD
70–100	25	ELFD
110–150	25	ELFD
35–60	65	ELHFD
70–100	65	ELHFD
110–150	65	ELHFD
35–60	100	ELFDC
70–100	100	ELFDC
110–150	100	ELFDC
100-250	35	ELJD
100-250	65	ELHJD
100-250	100	ELJDC
200–400	35	ELKD
200–400	65	ELHKD
200–400	100	ELKDC

Integrally Fused, Current-Limiting Circuit Breaker

Ampere	Interrupting Rat	Breaker		
Rating	240 Vac	480 Vac	600 Vac	Туре
15–100	200	200	200	FB-P
125–225	200	200	200	LA-P
250-400	200	200	200	LA-P
400-600	200	200	200	NB-P
700-800	200	200	200	NB-P

Fusible Switch Horsepower Ratings

Ampere Rating	240 V NEC Std.	Max.	480 V NEC Std.	Max.	600 V NEC Std.	Max.
30	3	7.5	5	15	7.5	20
60	7.5	15	15	30	15	50
100	15	30	25	60	30	75
200	25	60	50	125	60	150
400	50	125	100	250	125	350
600	75	200	150	400	200	500
800	100	250	200	500	250	500