

Safe. Intelligent. Flexible.



Product offering

- UL® 1558
- 2000–10,000A bus
- 800–6000A breakers
- 100, 150 and 200 kA bus designs
- 600 Vac design
- Indoor enclosures
- Outdoor aisle and aisleless enclosures

Standards

- Assembly designed to UL 1558, CSA®, ANSI C37.20.1 and C37.51
- Breaker designed to UL 1066, ANSI C37.13, C37.15 and C37.17
- Seismic Certified to UBC®, IBC and California Building Code to exceed Zone 4
- ABS certified

Customer value

- **Improved uptime**
Higher interrupting ratings and withstand ratings, better coordination capability
- **Improved maintainability**
Dedicated secondary terminals with separate access door and front-accessible control wireway
- **Increased reliability**
Modular design allows for reduced parts for both structures and breakers
- **Increased safety**
Complete enhanced performance suite of options
- **Reduced installation cost**
Front-accessible controls and wiring enables rapid installation and commissioning

Industry applications

- **Healthcare**
- **Commercial Construction**
- **Machine Building**
- **Infrastructure**
- **Data Centers**
- **Mining, Minerals and Metals**
- **Education**
- **Oil and Gas**
- **Electric Utilities**
- **Pulp and Paper**
- **Industrial and Manufacturing**
- **Food and Beverage**
- **Transportation**
- **Government**
- **Water/Wastewater**



Powering Business Worldwide

Optional features

Automatic transfer and intelligent control

Increase uptime and simplify switchgear design by specifying one of Eaton's pre-engineered automatic transfer and intelligent control packages for Magnum DS low voltage switchgear. The packages are designed with features to meet typical customer applications while still maintaining the flexibility to meet specific requirements. The packages are available on front and rear access in standard and arc-resistant designs.

Enhanced safety

Zone selective interlocking:

The Digitrip RMS zone selective interlocking (ZSI) capability provides positive system coordination without time delays. ZSI allows the breaker closest to the fault to trip without any preset time delay.

Arcflash Reduction Maintenance System™:

Eaton's Arcflash Reduction Maintenance System employs a separate, dedicated analog trip circuit that eliminates microprocessor latencies, resulting in clearing times that are faster than standard instantaneous tripping.

Integrated high resistant grounding:

high-resistance grounding can add the safety of a grounded system while minimizing the risk of service interruptions due to grounds.

Aftermarket solutions

Eaton has an extensive low voltage switchgear aftermarket offering of replacement and retrofit parts as well as breakers. This extensive offering allows for life extension of older switchgear that has obsolete breakers yet life available in the assemblies. Please contact your local Eaton sales engineer for details.

Technical data

Magnum DS Switchgear Class UL 1066 Low Voltage Power Circuit Breakers ANSI

rms Symmetrical Current Ratings kA 50/60 Hz¹

Frame amperes	Breaker type	Frame type	Interrupting @ 254Vac	Interrupting @ 508Vac	Interrupting @ 635Vac	Short time withstanding rating @ 254/508Vac	Short time withstanding rating @ 635Vac
800	MDN-408	Narrow	42	42	42	42	42
	MDN-608	Narrow	65	65	65	65	65
	MDN-C08	Narrow	100	100	65	20	20
	MDS-408	Standard	42	42	42	42	42
	MDS-608	Standard	65	65	65	65	65
	MDS-808	Standard	85	85	85	85	85
	MDS-C08	Standard	100	100	100	85	85
	MDS-L08 ²	Standard	200	200	200	(2)	(2)
	MDS-X08 ³	Standard	200	200	65	30	30
1200	MDN-412	Narrow	42	42	42	42	42
	MDN-612	Narrow	65	65	65	65	65
	MDN-C12	Narrow	100	100	65	25	25
	MDS-X12	Standard	200	200	65	30	30
	MDS-612	Standard	65	65	65	65	65
	MDS-812	Standard	85	85	85	85	85
	MDS-C12	Standard	100	100	100	85	85
	MDN-416	Narrow	42	42	42	42	42
	MDN-516	Narrow	50	50	50	50	50
1600	MDN-616	Narrow	65	65	65	65	65
	MDN-C16	Narrow	100	100	65	30	30
	MDS-616	Standard	65	65	65	65	65
	MDS-816	Standard	85	85	85	85	85
	MDS-C16	Standard	100	100	100	85	85
	MDS-L16 ²	Standard	200	200	200	(2)	(2)
	MDS-X16 ³	Standard	200	200	65	30	30
	MDN-620	Narrow	65	65	65	65	65
	MDN-C20	Narrow	100	100	65	35	35
2000	MDS-620	Standard	65	65	65	65	65
	MDS-820	Standard	85	85	85	85	85
	MDS-C20	Standard	100	100	100	85	85
	MDS-L20 ²	Standard	200	200	200	(2)	(2)
	MDS-X20 ³	Standard	200	200	65	30	30
	MDS-625	Standard	65	65	65	65	65
	MDS-825	Standard	85	85	85	85	85
	MDS-C25	Standard	100	100	100	100	85
	MDS-632	Standard	65	65	65	65	65
3200	MDS-832	Standard	85	85	85	85	85
	MDS-C32	Standard	100	100	100	85	85
	MDS-X32 ³	Double	200	200		50	50
	MDS-840	Double	85	85	85	85	85
4000	MDS-C40	Double	100	100	100	100	100
	MDS-H40	Double	130	130	130	130	130
	MDS-X40 ³	Double	200	200		50	50
	MDN-640	Double Narrow	65	65	65	65	65
	MDN-840	Double Narrow	85	85	65	85	65
	MDN-C40	Double Narrow	100	100	65	100	65
	MDD-X40	Double	150	150	100	100	100
	MDS-850	Double	85	85	85	85	85
	MDD-X50	Double	150	150	100	100	100
5000	MDS-C50	Double	100	100	100	100	100
	MDS-H50	Double	130	130	130	130	130
	MDS-X50 ^{3,4}	Double	200	200		50	50
	MDS-C60 ⁴	Double	100	100	100	100	100
6000	MDS-H60 ⁴	Double	130	130	130	130	130
	MDD-X60 ⁴	Double	150	150	100	100	100

1. Interrupting ratings shown based on breaker equipped with integral Digitrip rms Trip Unit. Interruption ratings for non-automatic breakers are equal to the published.
2. Magnum MDSL Current Limiting Power Circuit Breaker With Integral Current Limiters. Current Limiter selected determines short time and fixed instantaneous trip rating.
3. Magnum MDSX Current Limiting Power Circuit Breaker With Fast Opening Contacts.
4. Breaker applied in a tested fan cooled enclosure.

Eaton

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

© 2017 Eaton
All Rights Reserved
Printed in USA
Publication No. PA01901001E / GG
November 2017

Eaton is a registered trademark.

All other trademarks are property of their respective owners.

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



Powering Business Worldwide