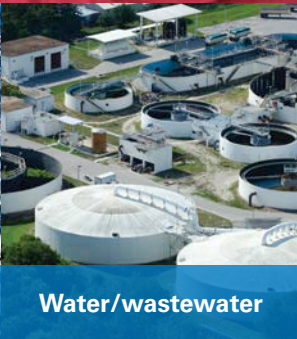


Low-voltage motor control centers (MCC)

Excellence in motor control



Oil and gas



Water/wastewater



Mining



Utilities



Industrial



Powering Business Worldwide

MCCs

Improved maintainability

With front-accessible motor load blocks and wireway



Improved interface

With standardized bucket component layouts



Reduced footprint

6-inch compact starter and feeder buckets available



Increased safety

With arc-resistant and arc-preventative technologies

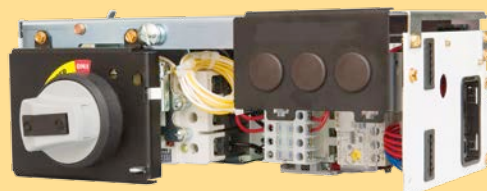


Arc flash safety solutions

Freedom

Lower installation and maintenance costs, compact footprint, and higher quality, reliability and maintainability.

- UL® 845
- Up to 3200 A horizontal bus
- Up to 1200 A vertical bus
- Up to 800 A ground bus
- Bus standard bracing is 65,000 A—optional up to 100,000 A
- Seismic rated
- All parts and wiring are front accessible for ease of installation and maintenance
- Available in 16-inch and 21-inch depths with the industry's smallest front-to-back design that is 21 inches deep
- Stab in/out units up to 400 A for starters, feeders, VFDs and soft starters
- Smallest soft start in the industry with integral run bypass contactor up to 1000 A



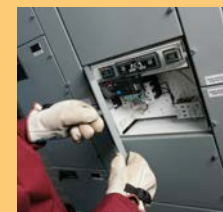
Compact buckets available

FlashGard

Award-winning arc-preventative MCC design emphasizes prevention, insulation and isolation to support safety during maintenance operations.

- Insulated horizontal bus
- Isolated labyrinth vertical bus
- Shutters isolate the vertical bus when unit is removed
- Shutters on the unit isolate the stabs when a bucket is removed
- Padlock accessory locks the unit door closed, allowing only qualified personnel to access the unit
- Proven to reduce the incident arc flash energy during maintenance

Per the IEEE® testing method described in IEEE 1584



RotoTract retracting stabs

- Provides bus isolation, stab indication, and lockout features in the initiation of an arc flash event
- Allows the unit to be disconnected from the vertical bus with the door closed

Freedom & FlashGard arc-resistant

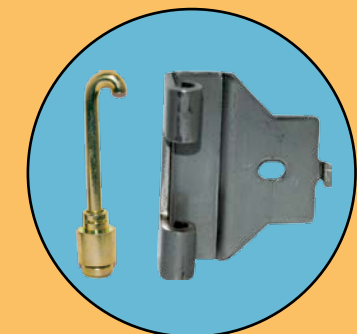
Arc-resistant MCCs

Freedom™ and FlashGard™ MCCs are available in arc-resistant form. The enhancements are specifically designed to contain the arc blast energy should an arc flash event occur within the assembly.

- Tested and verified per IEEE guideline C37.20.7 and CSA® standard 22.2 No. 0.22-11
- Type 2 accessibility rating
- Main lug and main breaker variants available
- FlashGard RotoTract™ available
- No exhaust plenums or roof flaps required
- 12-gauge steel on doors, side sheets and back sheets helps contain dangerous arc blast energy
- Robust door hinges and latches ensure doors remain closed during an arc flash event



12-gauge steel doors, side sheets and back sheets



Enhanced door hinges and latches

We support what we build—

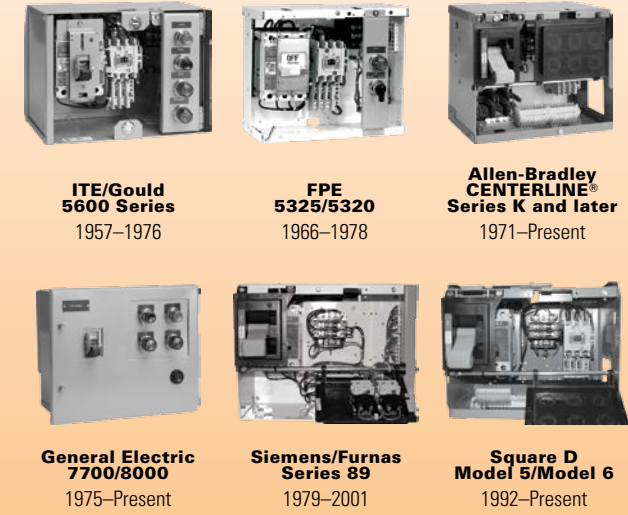
1937 1938 1939 1940 1941 1942
 1945 1946 1947 1948 1949 1950
 1953 1954 1955 1956 1957 1958 1959 1960
 1963 1964 1965 1966 1967 1968 1969 1970
 1973 1974 1975 1976 1977 1978 1979 1980
 1983 1984 1985 1986 1987 1988 1989
 1992 1993 1994 1995 1996 1997 1998
 2001 2002 2003 2004 2005 2006 2007
 2010 2011 2012 2013 2014 2015 2016

75 years of aftermarket

Eaton's motor control center aftermarket solutions offer the ability to modernize your equipment, increase arc flash safety, and integrate new MCCs into vintage assemblies with products that were created to meet or exceed industry standards and provide superior performance.

- UL 845 buckets
- Eaton supports every vintage of MCC ever produced under the brand names of Eaton, Cutler-Hammer® and Westinghouse®
- Eaton provides aftermarket solutions for the following manufacturers' units: Moeller®, Allen-Bradley®, General Electric®, ITE®/Gould®, Siemens®/Furnas®, Square D® and FPE®

Other manufacturers' units



Description	Westinghouse 11-300	Cutler-Hammer 9800 Unitrol	Westinghouse Type W	Cutler-Hammer F10 Unitrol	Westinghouse 5 Star	Cutler-Hammer Freedom Unitrol
Starter type	11-200 Life-Line Type N	3 Star	A200 or 11-200	Citation	A200	Freedom Series
Breaker type	F/FA	FA	FB/MCP/FA	MCP/FS/FB/FH/FA	Non-Series C™ MCP/FB	HMCP/HFD/FS/FH/FDC
Door width	20"	19 3/8"	13 3/8"	14 3/4" with wireway 19 1/2" without wireway	15 5/8"	15 1/2"
Bucket width	15 3/4"	16 1/8"	11 3/4"	14"	13 3/4"	13 7/8"
Vertical space increments	9 1/3", 14" increments	9 1/3", 14" increments	6" increments	6" increments	6" increments	6" increments
Paint	ANSI 61	ANSI 49	ANSI 49	ANSI 49	ANSI 70	ANSI 49
Handle mechanism type	Rotary operator	Rotary operator	Slider type	Slider type	Lever type	Slider type
FlashGard upgrade available	No	No	No	No	Yes	No

Description	Westinghouse Series 2100	Cutler-Hammer Advantage	Freedom 2100	IT. MCC	FlashGard
Starter type	A200	Advantage	Freedom	IT.	Freedom
Breaker type	Series C HMCP/HFD	Series C HMCP/HFD	HMCP/HFD	HMCP/HFD	HMCP/HFD
Door width	15 5/8"	15 5/8"	15 5/8"	15 5/8"	15 5/8"
Bucket width	13 3/4"	13 3/4"	13 3/4"	13 3/4"	13 3/4"
Vertical space increments	6" increments	6" increments	6" increments	6" increments	6" increments
Paint	ANSI 61	ANSI 61	ANSI 61	ANSI 61	ANSI 61
Handle mechanism type	Lever type	Lever type	Lever type	Rotary operator	Rotary operator
FlashGard upgrade available	Yes	Yes	Yes	Yes	Yes

Satellites

Eaton's Regional Manufacturing Centers

Eaton Satellites can specify, develop and manufacture customized products and solutions locally. Our Regional Manufacturing Centers give our customers local access to market knowledge and in-depth technical skills. Eaton's significant refurbishment and repair capabilities help you to get your business up and running in the event of any weather disasters.



For more information, please visit:

Eaton.com/mcc

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

© 2016 Eaton
All Rights Reserved
Printed in USA
Publication No. BR043009EN / Z18527
August 2016

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.

