

Typical M-Frame Circuit Breaker



Contents

Description	Page
Product Overview	V4-T2-116
Standards and Certifications	V4-T2-117
Quick Reference	V4-T2-118
G-Frame (15–100 Amperes)	V4-T2-121
F-Frame (10–225 Amperes)	V4-T2-135
J-Frame (70–250 Amperes)	V4-T2-153
K-Frame (70–400 Amperes)	V4-T2-161
L-Frame (125–600 Amperes)	V4-T2-185
M-Frame (300–800 Amperes)	
Catalog Number Selection	V4-T2-212
Product Selection	V4-T2-213
Accessories	V4-T2-218
Technical Data and Specifications	V4-T2-219
Dimensions and Weights	V4-T2-221
Motor Circuit Protectors (MCP)	V4-T2-256
N-Frame (400–1200 Amperes)	V4-T2-222
R-Frame (800–2500 Amperes)	V4-T2-237
Motor Protection Circuit Breakers (MPCB)	V4-T2-267
Type ELC Current Limiter Attachment (Size 0–4)	V4-T2-269
Current Limiting Circuit Breaker Module	V4-T2-270
Internal Accessories	V4-T2-273
External Accessories	V4-T2-306

M-Frame (300–800 Amperes)

Product Description

- All Eaton M-Frame circuit breakers are HACR rated
- MDL-Frame circuit breakers are available as individual components (frame, trip unit, terminals), or factory assembled complete breakers
- MDLB, HMDLB-Frame circuit breakers with non-interchangeable trip units are suitable for reverse feed use

Standards and Certifications

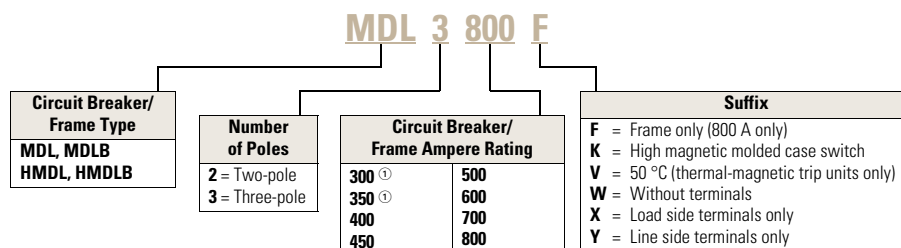
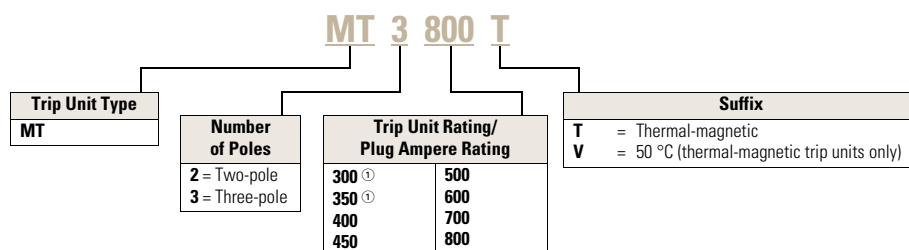
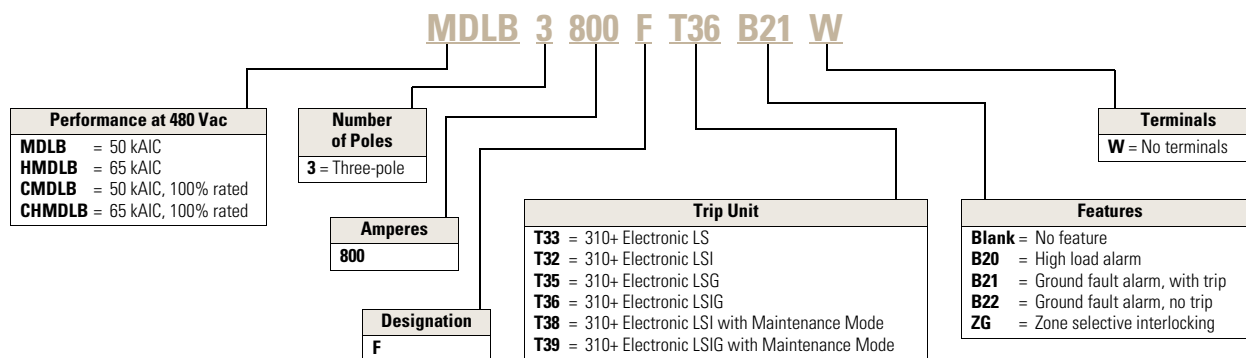
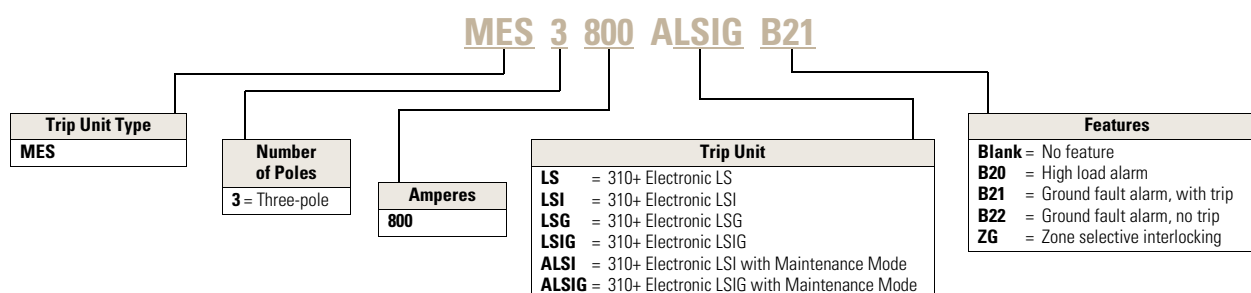
- CE marked



Catalog Number Selection

This information is presented only as an aid to understanding catalog numbers. It is not to be used to build catalog numbers for circuit breakers or trip units.

2

MDL Frame with Thermal-Magnetic Trip Unit Technology**Thermal-Magnetic Breakers and Frame ①****Thermal-Magnetic Trip Unit ①****MDL Frame with 310+ Electronic Trip Unit Technology****310+ Circuit Breaker****310+ Electronic Trip Unit ①****Note**

① Frames are the same for thermal-magnetic or 310+ electronic trip units, e.g., MDL3800F, HMDL3800F, etc.

Product Selection

Types MDL and HMDL Thermal-Magnetic Circuit Breakers with Interchangeable Trip Units—Two-Pole

Maximum Continuous Ampere Rating at 40 °C	Standard Interrupting Capacity 600 Vac Rated 50 kAIC at 480 Vac		High Interrupting Capacity 600 Vac Rated 65 kAIC at 480 Vac		Thermal-Magnetic Trip Unit Only	Standard Terminals Only ^① See Page V4-T2-217 for Optional Terminals Catalog Number
	Factory Assembled Circuit Consisting of Frame, Trip Unit and Terminals Catalog Number	Frame Only Catalog Number	Factory Assembled Circuit Consisting of Frame, Trip Unit and Terminals Catalog Number	Frame Only Catalog Number	For Use with Standard or High or Ultra High Interrupting Frames	
					Magnetic Trip Range is 5–10 Up Through 600 A; 4–8 on 700 and 800 A x Continuous Ampere Rating Catalog Number	
300	MDL2300	MDL2800F	HMDL2300	HMDL2800F	MT2300T	TA700MA1
350	MDL2350		HMDL2350		MT2350T	TA700MA1
400	MDL2400		HMDL2400		MT2400T	TA700MA1
450	MDL2450		HMDL2450		MT2450T	TA700MA1
500	MDL2500		HMDL2500		MT2500T	TA700MA1
600	MDL2600		HMDL2600		MT2600T	TA700MA1
700	MDL2700		HMDL2700		MT2700T	TA700MA1
800	MDL2800		HMDL2800		MT2800T	TA800MA2

Types MDL and HMDL Thermal-Magnetic Circuit Breakers with Interchangeable Trip Units—Three-Pole

Maximum Continuous Ampere Rating at 40 °C	Standard Interrupting Capacity 600 Vac Rated 50 kAIC at 480 Vac		High Interrupting Capacity 600 Vac Rated 65 kAIC at 480 Vac		Thermal-Magnetic Trip Unit Only	Standard Terminals Only ^① See Page V4-T2-217 for Optional Terminals Catalog Number
	Factory Assembled Circuit Consisting of Frame, Trip Unit and Terminals Catalog Number	Frame Only Catalog Number	Factory Assembled Circuit Consisting of Frame, Trip Unit and Terminals Catalog Number	Frame Only Catalog Number	For Use with Standard or High or Ultra High Interrupting Frames	
					Magnetic Trip Range is 5–10 Up Through 600 A; 4–8 on 700 and 800 A x Continuous Ampere Rating Catalog Number	
300	MDL3300	MDL3800F	HMDL3300	HMDL3800F	MT3300T	TA700MA1
350	MDL3350		HMDL3350		MT3400T	TA700MA1
400	MDL3400		HMDL3400		MT3400T	TA700MA1
450	MDL3450		HMDL3450		MT3450T	TA700MA1
500	MDL3500		HMDL3500		MT3500T	TA700MA1
600	MDL3600		HMDL3600		MT3600T	TA700MA1
700	MDL3700		HMDL3700		MT3700T	TA700MA1
800	MDL3800		HMDL3800		MT3800T	TA800MA2

Note

^① Two terminals are required per pole.

HMDLDC3800F


**Type HMDLDC DC Circuit Breakers—
Three-Pole High Interrupting Capacity 35 kAIC at 600 Vdc**

Maximum Continuous Ampere Rating at 40 °C	Circuit Breaker Frame Only ^① Catalog Number	Thermal-Magnetic Trip Unit Catalog Number	Standard Terminals Catalog Number
300	HMDLDC3800F	MT3300T	TA700MA1
350	HMDLDC3800F	MT3350T	TA700MA1
400	HMDLDC3800F	MT3400T	TA700MA1
450	HMDLDC3800F	MT3450T	TA700MA1
500	HMDLDC3800F	MT3500T	TA700MA1
600	HMDLDC3800F	MT3600T	TA700MA1
700	HMDLDC3800F	MT3700T	TA700MA1
800	HMDLDC3800F	MT3800T	TA800MA2

**Type NBDC DC Circuit Breakers—
Three-Pole High Interrupting Capacity 50 kAIC at 600 Vdc**

Maximum Continuous Ampere Rating at 40 °C	Complete Circuit Breaker Factory Assembled without Terminals ^② Catalog Number	Includes Magnetic Trip Unit Calibrated at 135%	Standard Terminals Catalog Number
700	NBDC3700MW	Included	TA1000NB1
800	NBDC3800MW	Included	TA1000NB1
900	NBDC3900MW	Included	TA1000NB1
1000	NBDC31000MW	Included	TA1000NB1
1200	NBDC31200MW	Included	TA1200NB1

RGHDC3300FFWM


**Type RGHDC DC Circuit Breakers—
Three-Pole High Interrupting Capacity 65 kAIC at 600 Vdc**

Maximum Continuous Ampere Rating at 40 °C	Complete Circuit Breaker Factory Assembled ^② Imperial Mounting Hardware Catalog Number	Metric Mounting Hardware Catalog Number	Includes Magnetic Trip Unit Calibrated at 135%	Standard Rear Connectors Catalog Number
1600	RGHDC3160FFWE	RGHDC3160FFWM	Included	B2016RDM
2000	RGHDC3200FFWE	RGHDC3200FFWM	Included	B2016RDM
2500	RGHDC3250FFWE	RGHDC3250FFWM	Included	B2500RDM
3000	RGHDC3300FFWE	RGHDC3300FFWM	Included	B3000RDM

Notes

① Includes frame and trip unit. Order terminals or connectors separately.

② Six rear connectors included as standard complete circuit breaker.