Effective February 2020 Supersedes December 2015

Series C MDL-frame

Contents

Description		Page		
	Catalog number selection			
	Digitrip RMS 310+ electronic trip units			
	MDL, HMDL, CMDL, CHMDL, MDLB, HMLDB; 800A; 3- and 4-pole; LS and LSG MDL, HMDL, CMDL, CHMDL, MDLB, HMLDB; 800A; 3- and 4-pole; LSI, LSIG,			
	ALSI, ALSIG	TD012052EN7 TD012053EN8		
	Maintenance mode setting; ALSI and ALSIG	TD012054EN9		
	Digitrip RMS 310 electronic trip units MDL, HMDL, CMDL, CHMD; 800A; 3- and 4-pole; LS and LSG MDL, HMDL, CMDL, and CHMD; 800A 3- and 4-pole; LSI, LSIG, ALSI, ALSIG Ground fault protection.	SC-6913-98		
	MT thermal/magnetic trip unit			
	MDL, HMDL, MDLB, and HMDLB, 300-600A			
	Note:			

Time/current characteristic curves for series C M-frame circuit breakers—voltages shown in curve headings are maximum at which the breaker may be applied. Interrupting capacity of individual breaker is tabulated on each curve.

Note:

The following curves are UL489 listed for use in North America. The following circuit breakers are derived from Eaton, Westinghouse, or Cutler-Hammer history.

Time current curves are engineering reference documents for application and coordination purposes only. For field testing molded case circuit breakers, refer to NEMA AB 4 guidelines.



Time Current Curves **TD012036EN** Effective February 2020

Note: Unless noted below, all curves remain unchanged from their prior revision.

Revision	Curve number	Page	Date
Changed trip labels on page 5			
Jpdated curves on pages 6 and 7.			2/2020
			_

Series C M-frame

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.

Table 1. Thermal-magnetic trip unit



Table 2. Circuit breaker/frame



Note

① Thermal-magnetic only.

Table 3. MDL breaker assembly



Table 4. MDL electronic trip unit



Table 5. MDL frame only



Note

- 1 Maintenance mode and ZSI are only available with LSI and LSIG trip units.
- 2 B21 and B22 features available only with LSG, LSIG and ALSIG trip units.
- ③ B2x suffixes cannot be combined with other B2x suffixes.



Figure 1. Digitrip 310+ faceplates



Figure 2. Digitrip 310+ trip units (800A), long delay response and short delay with I²T response curve and override (LS, LSG) - TD012051EN, February 2020



Figure 3. Digitrip 310+ trip units (800A), long delay response and short delay with flat response curve and override (LSI, LSIG, ALSI, ALSIG) - TD012052EN, February 2020



Figure 4. Ground fault delay response curve (LSG, LSIG, ALSIG) - curve number TD012053EN





Figure 5. Maintenance mode setting (ALSI, ALSIG) - curver number - TD012054EN, October 2014

Types MDL, HMDL, CMDL, and CHMDL equipped with type MES digitrip RMS 310 trip units, types MES3800LS and MES3800LSG



Figure 6. MDL, HMDL, CMDL, and CHMDL, types MES3800LS and MES3800LSG - curve number SC-7204-99, June 2020

Types MDL, HMDL, CMDL, and CHMDL equipped with type MES digitrip RMS 310 trip units, types MES3800LSI and MES3800LSIG



Figure 7. MDL, HMDL, CMDL, and CHMDL, types MES3800LSI and MES3800LSIG - curve number - SC-6913-98, June 2020

Types MDL, HMDL, CMDL, and CHMDL equipped with type MES digitrip RMS 310 trip units, ground fault protection



Figure 8. MDL, HMDL, CMDL, and CHMD ground fault protection - curve number SC-6914-98, June 2007

Types MDL, HMDL, MDLB, and HMDLB equipped with type MT thermal-magnetic trip unit, 300 to 600 amperes



Figure 9. MDL, HMDL, MDLB, and HMDLB, 300-600A - curve number SC-6911-98, June 2007

Types MDL, HMDL, MDLB, and HMDLB equipped with type MT thermal-magnetic trip unit, 700 and 800 amperes



Figure 10. MDL, HMDL, MDLB, and HMDLB, 700-800A - curve number SC-6912-98, June 2007

Series C M-frame

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

© 2020 Eaton All Rights Reserved Printed in USA Publication No. TD012036EN / TBG001486 February 2020

Eaton is a registered trademark.

All other trademarks are property of their respective owners.

FAT-N Powering Business Worldwide