EATON | Cutler-Hammer

June 2006 * **A. D. 70C1030**

Characteristic Curves for Magnum DS and Magnum SB Circuit Breakers using Digitrip 1150 and Magnum Circuit Breakers using 1150*i* Tripunits

This envelope contains the following time-current curves:	**Curve No.**
Long Delay I^2t, **Short Delay Flat** and **I^2t** response Time-Phase Current Characteristic Curve based on I_r for Magnum, Magnum DS and Magnum SB Circuit Breakers	70C1034
Long Delay I^4t, **Short Delay Flat** response Time-Phase Current Characteristic Curve based on I_r for Magnum, Magnum DS and Magnum SB Circuit Breakers	70C1035
IEEE Moderately Inverse, Short Delay Flat Time-Phase Current Characteristic Curve based on I_r for Magnum DS and Magnum SB Circuit Breakers	70C1038
IEEE Very Inverse, Short Delay Flat Time-Phase Current Characteristic Curve based on I_r for Magnum DS and Magnum SB Circuit Breakers	70C1039
IEEE Extremely Inverse, Short Delay Flat Time-Phase Current Characteristic Curve based on I_r for Magnum DS and Magnum SB Circuit Breakers	70C1040
IEC-A Normal Inverse, Short Delay Flat Time-Phase Current Characteristic Curve based on I_r for Magnum Circuit Breakers	70C1031
IEC-B Very Inverse, Short Delay Flat Time-Phase Current Characteristic Curve based on I_r for Magnum Circuit Breakers	70C1032
IEC-C Extremely Inverse, Short Delay Flat Time-Phase Current Characteristic Curve based on I_r for Magnum Circuit Breakers	70C1033
Instantaneous Time-Phase Current Characteristic Curve based on I_n for Magnum, Magnum DS and Magnum SB Circuit Breakers	70C1043
Instantaneous Time-Phase Current Characteristic Curve based on I_n for Magnum, Magnum MDSX and Magnum SBSE Circuit Breakers	70C1586
Maintenance Mode Trip Time-Phase Current Characteristic Curve based on I_n for Magnum DS and Magnum SB Circuit Breakers	70C1498
Ground (Earth) Fault Flat and **I^2t – Trip or Alarm Only (LSIA style)** Time-Ground Current Characteristic Curve based on I_n for Magnum, Magnum DS and Magnum SB Circuit Breakers	70C1041

Definitions

I_n is the maximum value of continuous current for which the trip unit can be set.

I_n is the basis (or reference) for both the Instantaneous and the Ground (Earth) protection current settings. The Ampere value of **I_n** is printed on the Rating Plug.

I_r is the basis for both the Long Delay Time and Short Delay Pick Up protection current settings. The Ampere value of **I_r** is the Long Delay Pickup Setting **x I_n**.

** Various documents within this package may contain updated revisions. Those individual drawings will have a newer date code.*

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