

June 2006

A. D. 70C1030

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

This envelope contains the following time-current curves:

Curve Description	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
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 $\times I_n$.