



NFPA20, 2007 edition ELECTRIC MOTOR CONTROLLER CIRCUIT BREAKERS

SPEC. 9/9903

Release 1.1

Specification:

All Metron and Metron Eledyne NFPA electric motor controllers comply with the latest edition of NFPA number 20 - 2007 edition.

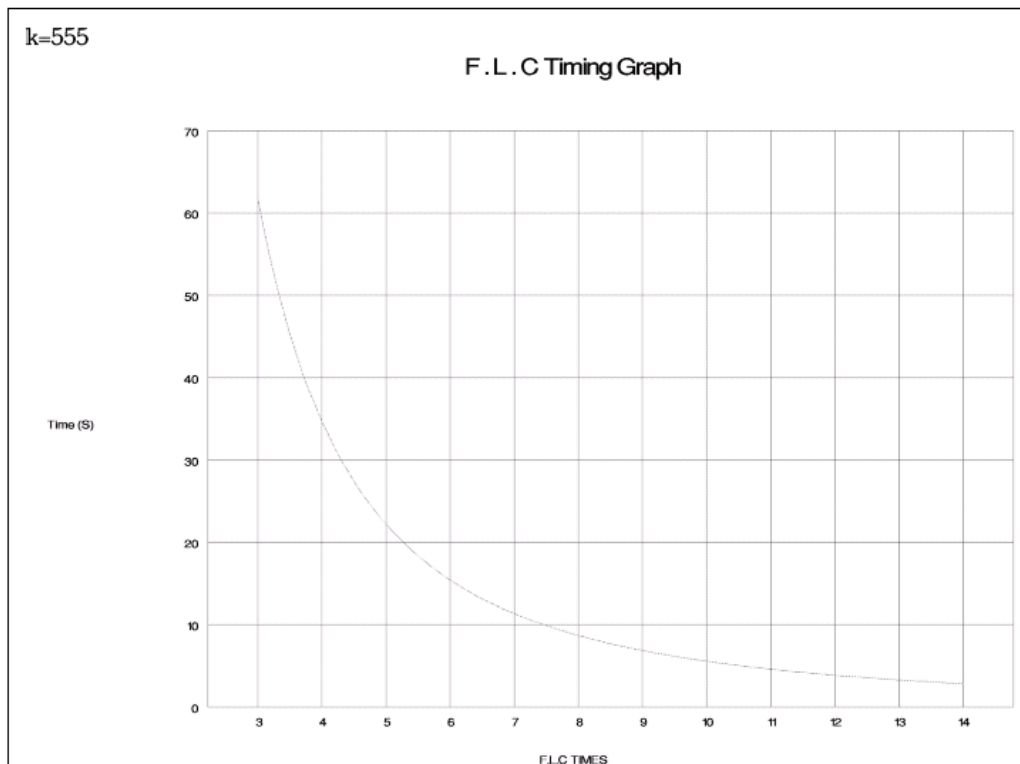
Section 10.4.3.3.1 requires the circuit breaker to have:

- 1 A continuous current rating of more than 115% of the full load current of the motor.
- 2 Over current sensing elements of the non thermal type
- 3 Instantaneous short circuit over current protection
- 4 An adequate interrupt rating
- 5 Capability for normal and emergency starting of the electric motor
- 6 An instantaneous trip setting of not more than 20 times the full load

Section 10.4.4.1 requires the circuit breaker to have:

- 1 Be able to hold 300% full load current indefinitely
- 2 Trip time for 600% should be between 8 and 20 seconds.

This can be generalised by the following curve:



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