

## [Motor thermal monit] $I^2t$ - Menu

### Access

[Complete settings] → [Error/Warning handling] → [Motor thermal monit]

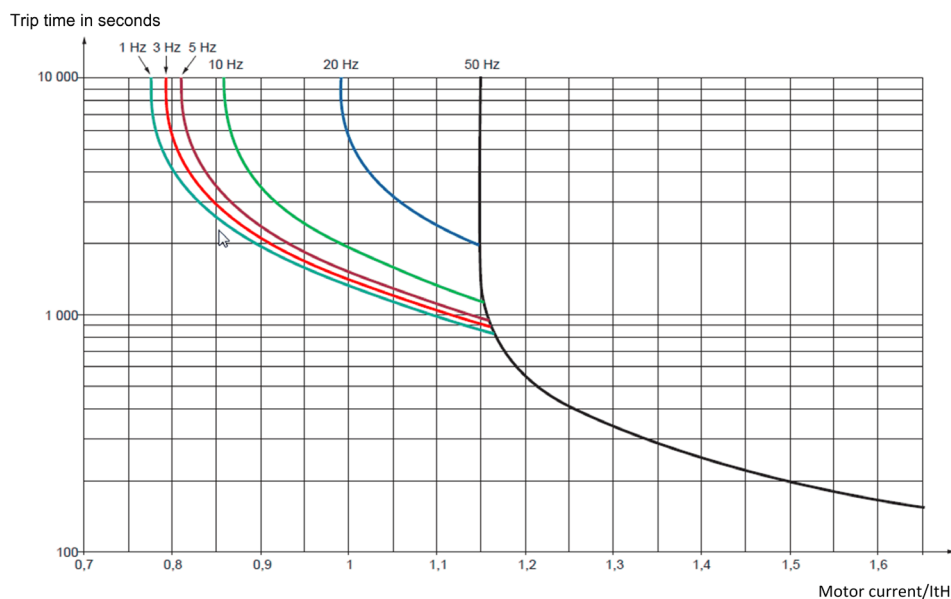
### About this Menu

Motor thermal protection by calculating the  $I^2t$ .

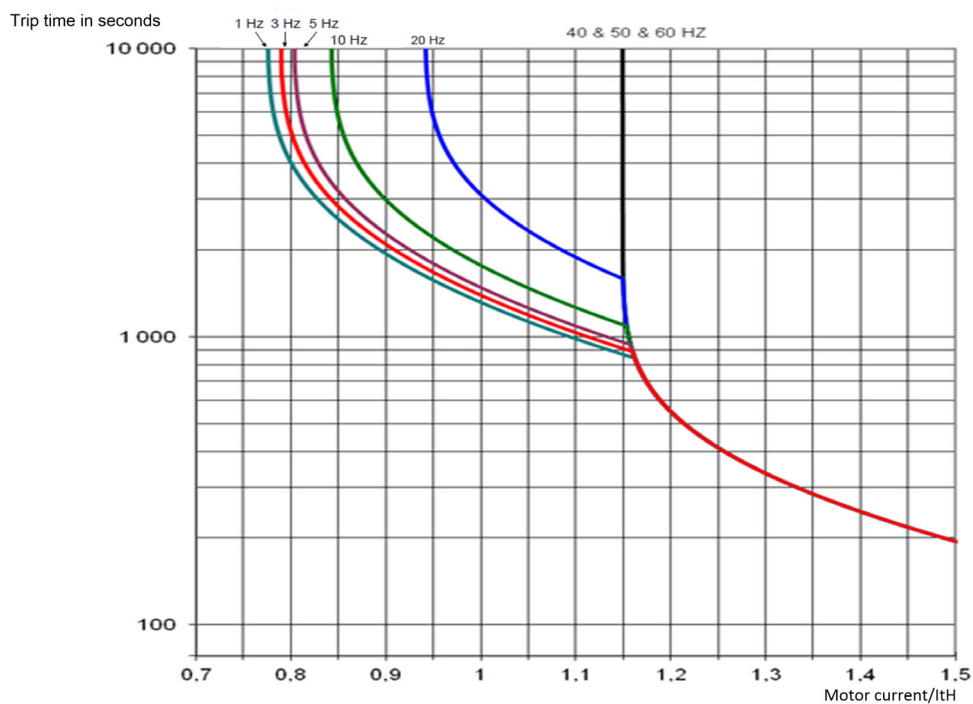
**NOTE:** The motor thermal state is memorized when the drive is switched off. The power-off time is used to calculate the motor thermal state at the next startup.

- Self-cooled motors: The trigger curves depend on the motor frequency.
- Forced-cooled motors: Only the 50 Hz trigger curves needs to be considered, regardless of the motor frequency.

Below a curve for 50Hz motor.



Below a curve for 60Hz motor.



**[Motor Th Current]** , L H

Motor thermal monitoring current to be set to the rated current indicated on the nameplate.

Setting ( )	Description
0.12...1.1_In <sup>(1)</sup>	Setting range <b>Factory setting:</b> According to drive rating
(1) Corresponding to the rated drive current indicated in the installation manual and on the drive nameplate.	

**[Motor Thermal Mode]** L H L

Motor thermal monitoring mode.

[Reset](#)

**NOTE:** An error is detected when the thermal state reaches 118% of the rated state and reactivation occurs when the state falls back below 100%.

Setting	Code / Value	Description
[No]	n a	No thermal monitoring
[Self cooled]	F L L	Self ventilated motor <b>Factory setting</b>
[Force-cool]	F L L	Fan-cooled motor