TMM Afhandeling

IDbike FOC 200 controller

# Revisiebeheer

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| --- | --- | --- | --- |
| **Versie** | **Medewerker** | **Datum** | **Opmerkingen** |
| **1** | **Jeffrey Vos** | **14 Nov 2019** | **Initial** |
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Inhoud

[Inleiding 2](#_Toc23943611)

[Parameter tabel 2](#_Toc23943612)

[Stroom beveiliging 3](#_Toc23943613)

[3 lagen van stroombeveiliging 3](#_Toc23943614)

[Functie van de 3 stroom beveiligingen 3](#_Toc23943615)

[Flowchart refA 3](#_Toc23943616)

[Temperatuur beveiliging 4](#_Toc23943617)

[Controller temperatuur beveiliging 4](#_Toc23943618)

[Motor temperatuur beveiliging 4](#_Toc23943619)

[Motor interne temperatuur sensor 4](#_Toc23943620)

[Motor temperatuur bepalen door middel van stator weerstand (RsOnline) 4](#_Toc23943621)

[Testplan stroombeveiliging 5](#_Toc23943622)

[Testplan temperatuurbeveiliging 6](#_Toc23943623)

# Inleiding

Functies tmm afhandeling:

1. Nul-waarde calibratie
2. Sensor waarde binnen bereik
3. Drempelwaarde
4. Variërende waarde
5. TMM spanning omrekenen naar Newton trapkracht

1. Zero value recalibration during startup. By recalibrating the sensor zero value at startup self-riding issues can be prevented. To increase confidence the calibrated zero value is correct the calibration should be ignored when the sensor signal is unstable.

2. Sensor value range check. The sensor value should fall within a certain range. When the sensor value is out of range this could indicate a short to supply, short to ground, or not connected.

3. Sensor value threshold. When the sensor value is lower than the threshold value it is ignored. This check is to prevent unintended control of the motor by for instance resting your foot on the pedal.

4. Sensor value fluctuation check. When the sensor value is constant for too long something is wrong and the motor control should be stopped.

# Parameter tabel

|  |  |  |
| --- | --- | --- |
| # | Parameter | Beschrijving |
| 1 | TMMFiltered |  |
| 2 | TMMFilteredShort |  |
| 3 | tmmSample |  |
| 4 | FluctuationPeriod |  |
| 5 | Fluctuating\_TMM |  |
| 6 |  |  |
| 7 |  |  |
| 8 |  |  |
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