

# How to adjust a motor current value less important than 0,4A on TeSysT ?

## I- Type of publication

<input type="checkbox"/> Typical application	<input type="checkbox"/> Level 2 use
<input checked="" type="checkbox"/> Best know Method (BKM)	<input type="checkbox"/> Internal use
<input type="checkbox"/> Troubleshooting guide	<input checked="" type="checkbox"/> Customer

## II- Product

- Product range :

- Product family :

## III- Introduction

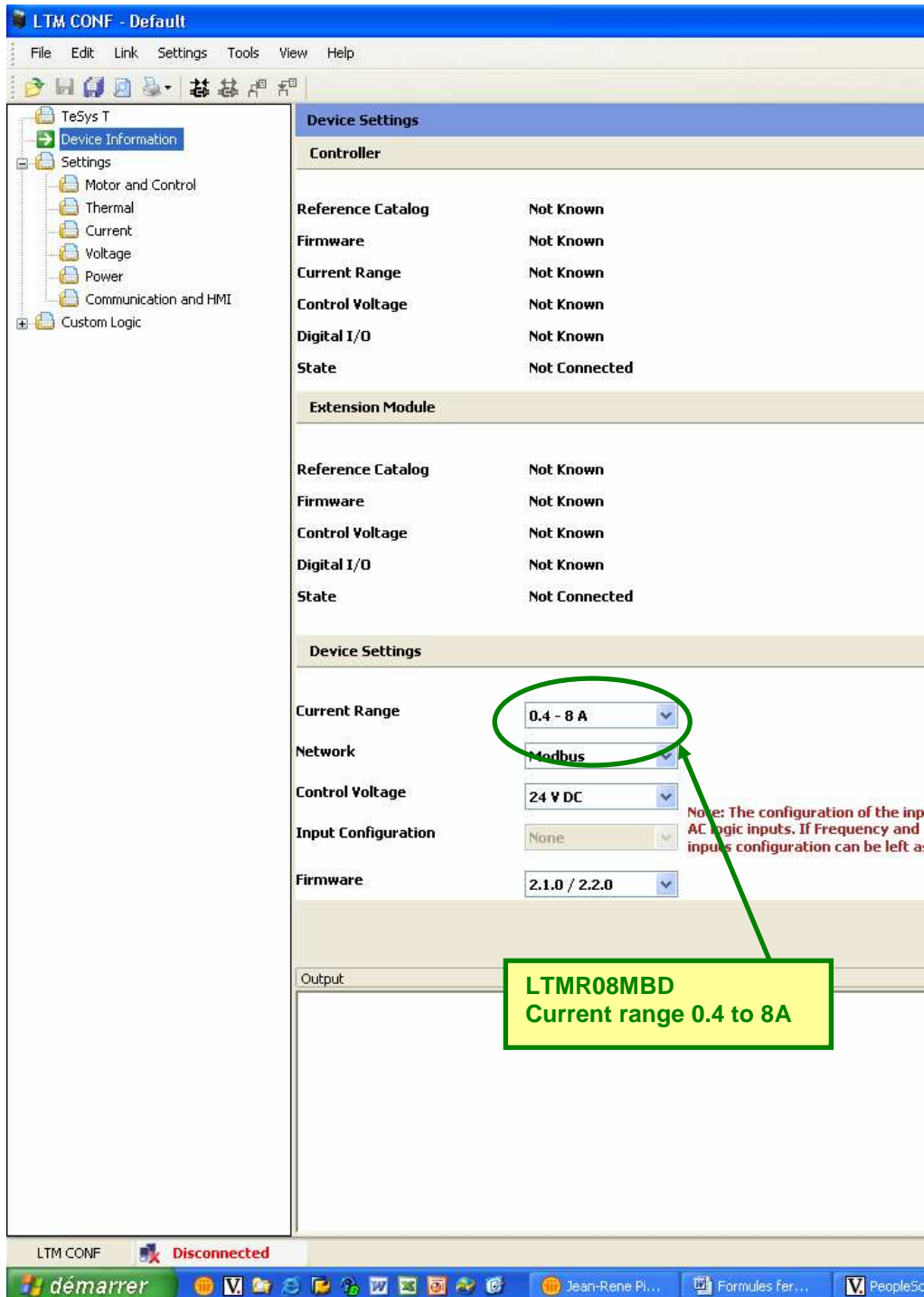
You can use TesysT for motor application which the current is less important than 0,4 amps. This document will describe you which parameters you have to modify to reach this area of current level. You have to use Powersuite with Last Patch of LTMConf 4.12.0.16 (TesysT software embedded into PowerSuite).

You can find this patch into Schneider-Electric.com link to add into PowerSuite (this patch does not work alone without PowerSuite):

[http://www.global-download.schneider-electric.com/852575620060F4D3/all/C125713F005265E2C1257459001F1645/\\$File/ps-patch%204.12.0.16.zip](http://www.global-download.schneider-electric.com/852575620060F4D3/all/C125713F005265E2C1257459001F1645/$File/ps-patch%204.12.0.16.zip)

# IV- Description

## (1) Step1 : "Device information" window



(2) Step2 : "Thermal" window

The screenshot displays the 'Thermal Settings' window in the LTM CONF - Default software. The interface includes a menu bar (File, Edit, Link, Settings, Tools, View, Help) and a left-hand navigation tree with categories like TeSys T, Device Information, Settings, Motor and Control, Thermal, Current, Voltage, Power, Communication and HMI, and Custom Logic. The main area is divided into two sections: 'Thermal Overload' and 'Motor Temperature Protection'. In the 'Thermal Overload' section, the 'Trip Type' is set to 'InverseThermal'. The 'Trip Class' is set to 5. The 'FLC1(OC1)' and 'FLC2(OC2)' settings are both set to 5% and 00,40 Amps. Below these, there are checkboxes for 'Warning' and 'Fault', with 'Warning Level' set to 85% and 'Reset Level' set to 75%. The 'Motor Temperature Protection' section shows 'Sensor Type' set to 'None' and options for 'Fault' and 'Warning' levels for 'PTC/NTC analog' and 'Pt100' sensors, all set to 20,00 Ohms. A green circle highlights the 'FLC1(OC1)' and 'FLC2(OC2)' settings, and a green arrow points from a yellow callout box to the '00,40 Amps' value.

**Minimum current level is 0.4A in standard**

**(3) Step3 : “Motor and control” window**

The screenshot shows the 'LTM CONF - Default' application window. On the left is a tree view with 'Motor and Control' selected. The main area is titled 'Motor Settings' and contains several sections:

- Reset Mode:** A dropdown menu is set to 'Manual'.
- Auto group1:** 'No of Resets' is 'Automatic' and 'Reset Time' is '480' Seconds.
- Auto group2:** 'No of Resets' is '0' and 'Reset Time' is '1200' Seconds.
- Auto group3:** 'No of Resets' is '0' and 'Reset Time' is '60' Seconds.
- Load CT:**
  - 'CT Ratio' is 'None'.
  - 'Number of Passes' is '1' (circled in green).
  - 'Ground CT Ratio' is 'None'.
  - 'Primary Turns' and 'Secondary Turns' are both '1'.
- Diagnostic:**
  - 'ON-OFF Diagnostic' has 'Fault' and 'Warning' checked.
  - 'Wiring Error' has 'Fault' checked.

A yellow callout box with a green border points to the 'Number of Passes' dropdown, containing the text: **No passes realized standard default value**

**(4) Step4 : “Motor and control” window**

The screenshot shows the 'LTM CONF - Default' software interface. On the left is a tree view with 'Motor and Control' selected. The main area is titled 'Motor Settings' and contains several sections:

- Reset Mode:**
  - Reset Mode: Manual
  - Auto group1: No of Resets: Automatic, Reset Time: 480 Seconds
  - Auto group2: No of Resets: 0, Reset Time: 1200 Seconds
  - Auto group3: No of Resets: 0, Reset Time: 60 Seconds
- Load CT:**
  - CT Ratio: None
  - Number of Passes: 3 (highlighted with a green circle)
  - Ground CT Ratio: None
- Diagnostic:**
  - ON-OFF Diagnostic:  Fault

A green callout box with an arrow pointing to the 'Number of Passes' field contains the text: **Realize 3 passes on Internal CT with motor cable and declare them here**

**(5) Step5 : “Motor and control” window**

The screenshot shows the 'LTM CONF - Default' software interface. The left sidebar contains a tree view with 'Motor and Control' expanded to 'Thermal'. The main window is titled 'Thermal Settings' and contains two sections: 'Thermal Overload' and 'Motor Temperature Protection'.

In the 'Thermal Overload' section, the following settings are visible:

- Trip Type:** InverseThermal
- Trip Class:** 5
- FLC1(OC1):** 5 passes, 00,13 Amps
- FLC2(OC2):** 5 passes, 00,13 Amps
- Warning:** Checked, Warning Level: 85 % Trip level
- Fault:** Checked, Reset Level: 75 % Trip level

The 'FLC1(OC1)' and 'FLC2(OC2)' settings are circled in green. A green arrow points from a text box to the '00,13 Amps' value. The text box contains the text: 'Now the minimum current detection 0.13A This is the result of number of passes'.

**(6) Step6 : “Motor and control” window**

The screenshot shows the 'LTM CONF - Default' software interface. On the left is a tree view with 'Thermal' selected. The main window is titled 'Thermal Settings' and contains two sections: 'Thermal Overload' and 'Motor Temperature Protection'.

**Thermal Overload Section:**

- Trip Type:** InverseThermal
- Trip Class:** 5
- FLC1(OC1):** 11 % (00,29 Amps)
- FLC2(OC2):** 5 % (00,13 Amps)
- Warning Level:** 85 % Trip level
- Reset Level:** 75 % Trip level

**Motor Temperature Protection Section:**

- Sensor Type:** None
- Fault Level:** 0
- Warning Level:** 0

A green circle highlights the FLC1(OC1) and FLC2(OC2) settings. A green callout box points to the FLC1(OC1) setting with the text: "You can adjust now your current setting to nominal motor current 0.3 A in this case."