What are the main parameters on TeSysT?

I- Type of publication

- Typical application
- Best know Method (BKM)
- Troubleshooting guide
- Level 2 use
- Internal use
- Customer

II- Product

- Product range: TesysT
- Product family: LTMR

III- Introduction

This document describes you which are the main parameters to control before downloading a configuration on TesysT. You can find a complete description for all functions in the user manual. These Prints Screen match with PowerSuite V2.5.0.0 and Patch V2.1 available on Schneider electric website.
IV- Description

Product Settings

Select current range, Network and Control voltage. If AC control voltage, set the Input configuration according to Control voltage.
## Motor and Control Settings 1/3

For each operating mode:
- **2w Control**: maintained
- **3 w Control**: impulse
If Custom operating mode, set the Custom ID of your Custom logic

Allow automatic transitions for:
- reverser (Forward ↔ Reverser)
- 2 speed (Low ↔ High)
After count down of Transit Time

To limit the number of starts during a short period by imposing a timeout between 2 consecutive starts (0: no restriction).

Optional parameter. Limit the max FLC setting to the Contactor rating
If unused, keep the value by default (810A)

**Note**: important parameters in red

For 2 step operating mode: Transit time starts counting down upon the earlier of the 2 parameters
Motor and Control Settings 2/3

Local terminal trip inputs via hard wired input devices or Local HMI commands via HMI port
Bump: O1 and O2 are opened or remain open when changing control mode
Bumpless: O1 and O2 keep their original position when changing control mode

Select Reset mode according to your need to Manual, Automatic or Remote
When Reset Mode set on Automatic set the parameters for each group. See group definition in the User manual

Note: important parameters in red
Motor and Control Settings 3/3

Note: important parameters in red

- If internal CT use, select None
- If external CT use, select the CT ratio in the list or select other ratio and type your CT values Example: 250:1 → primary turns=250; secondary turns=1
- Select the number of passes you have done in the CT windows of LTMR to improve the measure accuracy
- If internal ground fault detection, select None
- If external ground fault detection, select the CT ratio in the list or select other ratio and type your CT values Example: 2500:1 → primary turns=2500; secondary turns=1

Wiring Error detects:
- CT reversal wiring
- Phase configuration fault
- Motor temperature sensor wiring fault

ON-OFF Diagnostic detects Control/command problems: (Start Command Check, Run Check Back, Stop Command Check, Stop Check Back)
### Thermal Settings 1/2

- **Inverse thermal**: I²t principle. Use this selection by default.
- **Definite time**: only for special use. With this setting, the long start protection must be enabled.

**Parameters linked to Define time Trip type**
- **DefDtime**: delay of the protection function. Bypassed during start stage.
- **DefOtime**: overcurrent time.

**If selected, divide the cooling period by 4 in Inverse thermal only**

**FLC setting:**
- FLC1: Motor Full Load Current
- FLC2: Motor High Speed Full Load Current

These parameters are linked to product range, Load CT ratio, number of passes and contactor rating. Scroll up or down the % of FLC to obtain the close value in Amps.

**Reset level = after thermal trip, possible to restart motor only if thermal capacity under this level**

**Adapt parameters according to your application**

**Note:** important parameters in red
Thermal Settings 2/2

- Fault & warning validation
- Select type of sensor

Motor Temperature Protection

Enable
- Fault
- Warning

PTC/NTC and Pt100

- PTC
- Binary
- Pt100
- NTC
- Analog

Fault Level
Warning Level

Fault level: signals a fault after time delay if level crossed over

Warning level: signals a warning without time delay if level crossed over

Note: principle identical for other current, voltage, power and power factor protection

Protection setting principle

Protection name

Fault time: Delay for the Fault signalling

Fault: 5 seconds

Fault Level 200 (% FLC)

Warning Level 200 (% FLC)
Communication setting

- Allow configuration from Network
- Byte order for double word: Big endian for XBTN410

Network Comm Loss management

Note: Same principle for HMI setting
HMI Display setting

- **Contrast of display**
- **HMI Language selection**

Display Selection by parameter type

**Note:** It is more efficient to select a short list of relevant parameters rather than selecting too much parameters.