

Cara konfigurasi Activation Current Overload ATS48

Purpose Untuk memahami cara setting Current overload pada ATS 48

What units are effected

1. Altistart 48
2. Integrated Keypad

Details This application is divided into several parts

Section	Title
1	Parts List
2	Topology Overview
3	Step by step Setup
4	Remark

Section 1; Parts list

Parts List table Items used in the test

Items	Part numbers	Description
Altistart	<ul style="list-style-type: none"> • ATS48Cxxx 	Soft Start

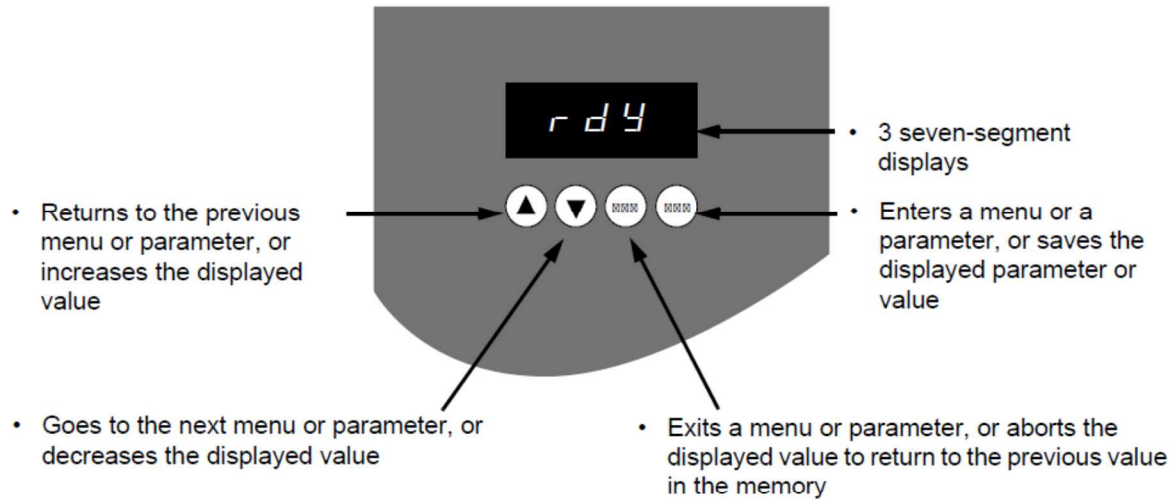
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Section 2; Topology Overview



Section 1; Parts liststep by step setup

Functions of the keys and the display



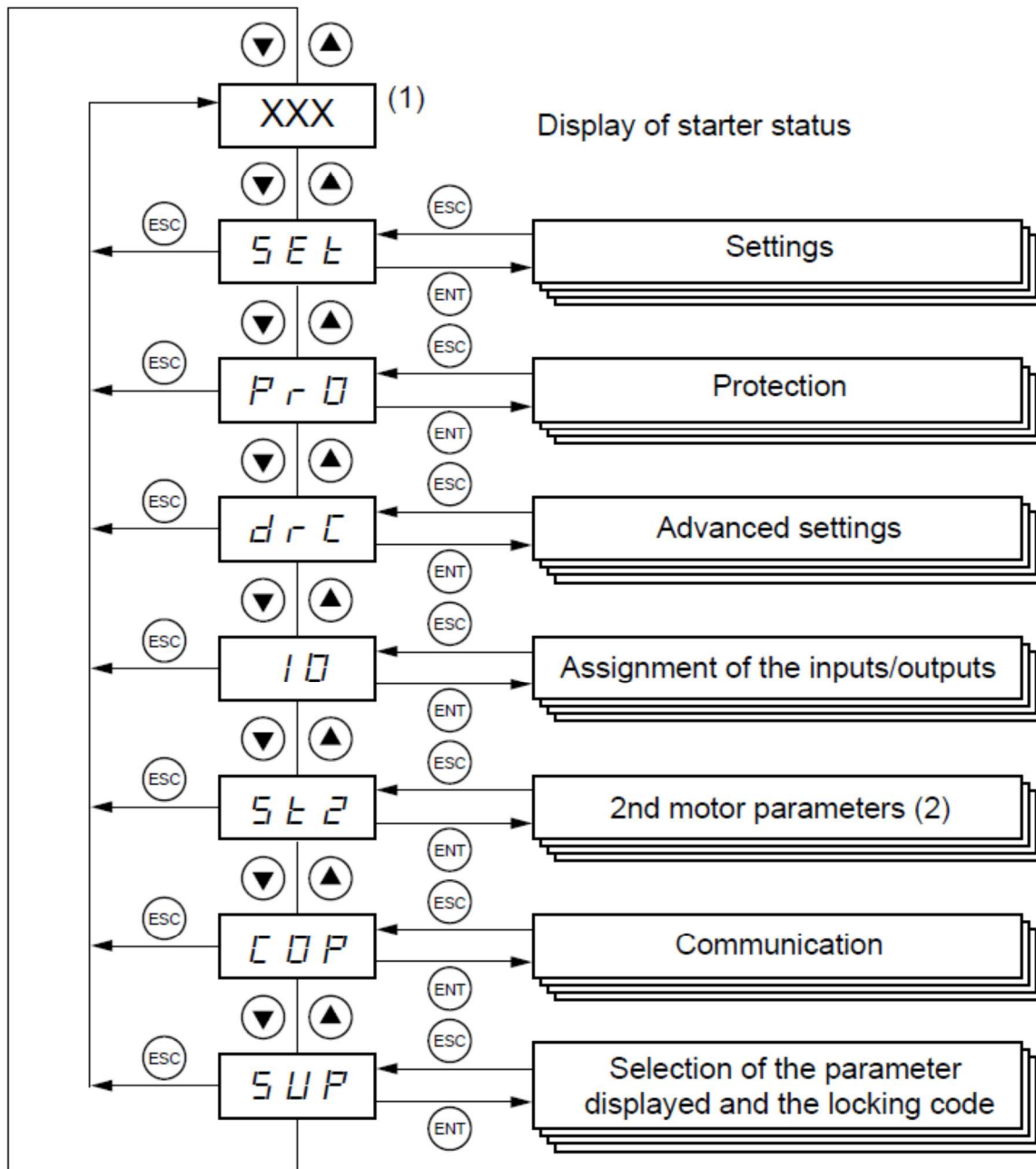
Pressing  or  does not store the choices.

Store, save the displayed choice: 

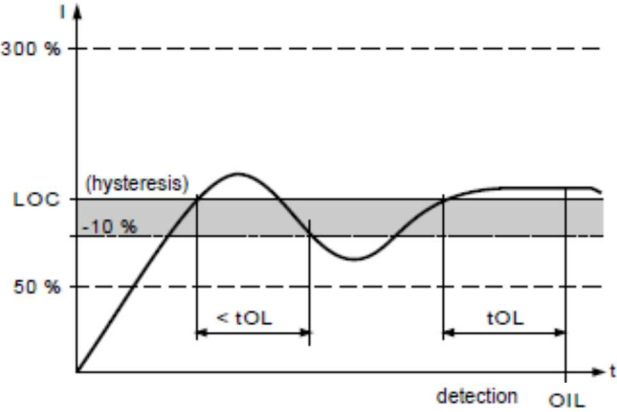
The display flashes when a value is stored.

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Accessing menus



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Code	Description	Setting range	Factory setting
b iL	Activation of current overload		OFF
	Function active only in steady state If the motor current exceeds an adjustable threshold LOC for a period of time longer than an adjustable value tOL: - ALA: an alarm is activated (internal bit and configurable logic output) - dEF: the starter is locked and the OLC fault is displayed - OFF: no protection		
			
L bC	Current overload threshold	50% to 300% of In	80%
	This parameter is not available if OIL = OFF. LOC can be set at between 50% and 300% of the nominal motor current.		
t bL	Current overload time	0.1 to 60 s	10 s
	This parameter is not available if OIL = OFF. Time delay tOL is activated as soon as the motor current rises above threshold LOC. It is reset to zero if the current falls below this threshold LOC again by at least 10% (hysteresis).		

OIL = Reaksi softstart saat terjadi current overload

ALA= alarm

dEF= starter LOCK dan menampilkan fault OLC.

OFF= Tidak ada Proteksi

LOC = Nilai Overload dalam persen dari Arus nominal motor

tOL = Timer overload time

Untuk cara kerja overload sesuai dengan grafik diatas.

1. saat arus melebihi LOC (persentase dari arus nominal motor).
2. Timer (tOL) akan mulai menghitung,
3. Jika timer terlewati maka Alarm akan aktif atau fault OLC (sesuai setting)
4. **Timer reset ke nol jika arus motor yang dideteksi turun dibawah nilai LOC -10%. mis LOC di 100A, maka timer akan reset jika arus kurang dari 90A (100A-10%).**

Dari ilustrasi diatas, jika parameter motor kita masukkan, maka ATS akan mulai mendeteksi overload saat arus motor melebihi 480A (timer 10s mulai counting), jika sebelum 10 detik arus motor turun dari 432 A (480-10% hysteresis), maka fault OLC tidak muncul sedangkan jika setelah 10 detik masih diatas 432A maka akan muncul fault OLC.

Section 4; Remark

Note : **Pastikan wiring Inverter altivar ATV6xx telah terkoneksi dengan benar.**
