

Display messages

■ Status messages

UNIT READY

Control card and power section are powered up and OK.



When the VLT frequency converter's output frequency is reduced more quickly than the motor speed (due to inertia) can be changed, the motor will act as a generator. It will send energy back to the VLT and as a result the intermediate circuit voltage will increase.

ENAB STOP

Unit ready and Q stop signal active.

START

Enabled and start signal applied, no or too low reference signal.

RUN OK

Unit is running on reference.

JOGGING

RAMPING



If the warning OVERVOLTAGE is displayed when the speed is reduced, you can increase the ramp-down time. If that is not possible, it may be necessary to activate the dynamic brake function with brake resistor. If the warning occurs in other situations, the problem is due to the mains supply.

■ Alarm messages

The following alarm messages are displayed after the power section of the VLT frequency converter has been disconnected.

Messages	Caused by	Consequence	Reset possible
INVERTER FAULT	Unknown error (not one of those errors mentioned below)		Yes
OVER VOLT	a: Supply voltage too high b: Ramp-down time too short	a: Lower supply voltage b: Increase ramp-down time or activate brake function to avoid overvoltage	Yes
UNDER VOLTAGE	Supply voltage too low or loss of mains phase		Yes
OVER CURRENT	Motor current too high or wrong motor parameter setting	Check motor parameters Use a larger VLT	Yes
GROUND FAULT	Short circuit between VLT power section and ground	Check installation and cable length	No, power off required, then reset
SHORT CIRCUIT	Short circuit between two motor phases	Check installation	No, power off required, then reset
OVER TEMP	VLT temperature too high	Check installation	No, power off required, then reset
OVER LOAD	Load too heavy		Yes, after VLT thermal protection is lower than 100%
MOTOR TRIP	Motor protection		Yes, after VLT motor protection is zero

■ Warning messages

Messages	Caused by	Consequence	Reset possible
CURRENT LIMIT	Over load	VLT decreases speed	- -
VOLTAGE HIGH	Regenerative motor operation or supply voltage too high	The power section of the VLT stops within 5 sec.	- -
VOLTAGE LOW	Missing phase or low supply	The power section of the VLT stops within 5 sec.	- -
INVERT TIME	Inverter overload	At 98.2% load VLT displays the following warning: "INVERTER TIME". At 100% load: "ALARM OVERLOAD"	- -
MOTOR TIME	Motor overload VLT operates between 100% and 160% of nominal motor power	VLT operates at least 60 sec. *) depending on the value of the load before the power section of the VLT stops	- -
LO FRQ WARN	Output frequency lower than the value in parameter 210	Depending on application Warning only	
HI FRQ WARN	Output frequency higher than the value in parameter 211	Depending on application Warning only	- -
HI CUR WARN	Motor current higher than the value in parameter 213	Depending on application Warning only	- -

*) The time is reduced at a higher switch frequency.

■ Reset messages

Messages	Caused by	Consequence	Reset
AUTO START	VLT tripped	The VLT attempts to restart	- -
TRIP	Fault condition of the VLT or the motor	The power section of the VLT stops	Yes
TRIP LOCKED	Fault condition (over temp., short circuit, ground fault) of the VLT	The power section of the VLT stops	No, power off required, then reset