

Quality, Environment and Safety

Manufacturers declaration

Factory testing of VLT® Frequency Converters

The below test sequence is used for the factory testing of all VLT® Frequency Converters Decentral FCD (FCD 303-335)

The test assures that the drives are in compliance with our specifications, which can be documented.

Combination of Function and Burn-in test

Test	Test no.		Remarks
LED test	1	Visual inspection	At power on all 5 LED's should be on for approx. 1 sec.
Insulation test	2	Insulation test at input/output terminals	2.16 kV DC for 1 second
Alive and control card test	3, 4, 5	Measure 10V and run control card test	10V is measured with Main and external DC supply. OK within 2 sec.
Unit test	6	Start/stop	Forward direction: n > 1400 RPM Stop: n < 10 RPM
	7	Mechanical Brake	Testing function
	8	Dynamic Brake	Measuring brake current and function
	9	Phase short circuit	U and V are shorted at running motor. FCD must enter TRIP mode.
	10	Ground fault	Phase W is shorted to ground. FCD must enter TRIP mode.
	11	Over voltage	Ramp start: FCD must not enter trip mode. Ramp stop: FCD may enter TRIP mode.
	12	Switching on output	Motor connection disconnected(200-400mS) After reconnection the FCD may enter TRIP mode.
Burn-in test	13	Current limit "Over voltage"	Forward/Reverse The FCD must not enter TRIP mode.
Factory setting	14	Factory setting	After test the FCD is set up for factory setting.

NB! The burn-in test is repeated until test time has run out.

Issued by



Lars Erik Donau
Quality System Manager