

# Quality, Environment and Safety

## Manufactures Declaration

### Factory testing of VLT® Frequency Converters

The below test sequence is used for the factory testing of all types of

VLT® MicroDrive FC-051 (FC-051PK18S2 - FC-051P2K2S2)

VLT® MicroDrive FC-051 (FC-051PK25T2 - FC-051P3K7T2)

VLT® MicroDrive FC-051 (FC-051PK37T4 - FC-051P22KT4)

The tests ensure that the drives are in compliance with our specifications which can be documented.

#### UNIT TEST

#### Combination of Function and Burn-in test

Test	Test no.	Description	Remarks
Insulation test	200	Insulation test at input/output terminals	2.16 kV DC for 1 second
	600	Start/stop	Forward direction: n > 1400 RPM Stop: n < 10 RPM
Initial test / Burn-in test	601	Brake	Measuring brake current and function
	602	Phase short circuit	U and V are shorted at running motor. VLT must enter TRIP mode.
	603	Ground fault	Phase W is shorted to ground. VLT must enter TRIP mode.
	604	Over voltage	Ramp start: VLT must not enter trip mode. Ramp stop: VLT may enter TRIP mode.
Final step	605	Switching on output	Motor connection disconnected. After reconnection the VLT may enter TRIP mode.
	700	Forward/Reverse Factory setting	The VLT must not enter TRIP mode. After test the VLT® is set up for factory setting.

NB! The test no. 700 is run repetitively during the burn-in test time.

Issued by



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