

Factory testing of VLT[®] Frequency Converters

The below test sequence is used for the factory testing of all VLT[®] Frequency Converters series 2800 (VLT[®] 2803-2882)

The test assures 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 Initial test / Burn-in test Final Step	0	Insulation test at input/output terminals	2.16 kV DC for 1 seconds
	6	Start/stop	Forward direction: n > 1400 RPM Stop: n < 10 RPM
	7	Brake	Measuring brake current and function
	8	Phase short circuit	U and V are shorted at running motor. VLT must enter TRIP mode.
	9	Ground fault	Phase W is shorted to ground. VLT must enter TRIP mode.
	10	Over voltage	Ramp start: VLT must not enter trip mode. Ramp stop: VLT may enter TRIP mode.
	11	Switching on output	Motor connection disconnected. After reconnection the VLT may enter TRIP mode.
	12	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. 12 is run repetitively during the burn-in test time.



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