

## Manufacturers Declaration

### Factory testing of VLT® Drivemotor

The below test sequence is used for the factory testing of all VLT® Drivemotor FCM 300 (FCM 305-375)

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
	1	Insulation test at input/output terminals	2.15 kV DC for 1 second
Parameter download	2	Alive test	Check 24V at U <sub>AC</sub> Nom
	3-6	Download EEPROM data	Check of communication
Unit test, initial test	7	Start/stop	Check : Forward direction n>1400 rpm Stop n<10 rpm
	8	Phase short circuit	Phase U shorted to ground before start. Must react in trip lock.
	9	Over voltage	Ramp up and down in inertia. During ramp up no trip must occur. Ramp down must give trip lock.
Burn-in test	10	Current limit/over voltage.	During continuous forward and reverse ramping no trip must occur. FCM temperature monitored.
Final assembly test	11	Insulation test	1000V DC for 1 second.
	12	Visual and audible inspection	Check at low speed for noise and vibrations.
	13	Current limit test	Test of current at 1500 Rpm unloaded.
	14	Download of custom specific data.	Changes are tested.

Test 1-10 are on ISA level. Test 11-14 are on FCM level.

Issued by



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