Title:-		Document No :-
Technical data		**NT752TEC** 1/1

ABB Motors	Issued by:- Tom Eklöf Unit:- ABB Motors Oy, Finland	Date :- 1998-09-10 Replaces:- 1998-05-11	ABB

Asynchr. generator type	M2LG 400LKD 4/6 B3
Weight	3400 kg
Moment of inertia	16,2 kgm^2
Surface finish	Standard surface treatment of generators manufactured at the Vasa works (see file 9)
Bearings	
Drive end	6228/C3, ball bearing
Non drive end	6319/C3, ball bearing
Lubrication	grease
Lubricating nipple	M 10x1 acc. to DIN 71412
Type of grease	SHELL ALVANIA G3
Regreasing interval	4000 h, 60g
Bearing condition checking device	SPM-nipples
Stator windings	Two layer winding (4-pole), one layer winding (6-pole)
Rotor windings	Squirrel cage windings (Cu)
Thermal protection system	3+3 pcs Pt-100, measuring resistors in the winding (hot spot) 3+3 pcs PTC thermistors in the winding (hot spot)
Condensation preventing system	Drainholes
Vibration level	Grade R according to ISO 2373, r.m.s.-value max. 1,8 mm/s, full key
Connection	Delta / Delta
Cable glands	6xPG48 (main), 2xPG16 (accessories)
Degree of protection	IP 54
Cooling	IC4A1W7
Insulation class	F
Temperature rise class, IEC	B
Environment	-20°C...+40°C
Cooling media temperature max.	+40°C
Cooling media flow min.	30 l/min
Quality control system	ISO 9001

RATED DATA		**4-pole**	**6-pole**
Power	kW	750	200
Voltage	V	690 D	690 D
Current	A	695	205
Speed	r.p.m.	1510	1005
Frequency	Hz	50	50
Power factor	cosφ	0,91	0,82

PERFORMANCE DATA

ASYNCHR. GENERATOR TYPE		M2LG 400LKD 4/6
NUMBER OF POLES		4 / 6
ST.WINDING CONNECTION		D / D
RATED POWER, S1		750 / 200 kW
RATED VOLTAGE		690 / 690 V
RATED FREQUENCY		50 Hz
SYNCHRONOUS SPEED		1500 / 1000 r.p.m.
NOMINAL SPEED		1509.7 / 1005.4 r.p.m.
SLIP		-0.65 / -0.54 %
POWER FACTOR Tolerance acc. to IEC 34-1.	5/4 4/4 3/4 2/4 1/4	0.91 / 0.84 0.90 / 0.82 0.88 / 0.76 0.83 / 0.64 0.63 / 0.41
EFFICIENCY IEC 34-2, summation of losses, tolerance acc. to IEC 34-1. External cooling losses excluded.	5/4 4/4 3/4 2/4 1/4	97.1 / 94.6 % 97.4 / 94.8 % 97.2 / 95.0 % 96.8 / 94.4 % 95.0 / 91.6 %
FULL LOAD CURRENT		695 / 205 A
NO-LOAD CURRENT		171 / 85 A
LOCKED ROTOR CURRENT	I_s I_k	5300 / 1700 A 4100 / 1400 A
REACTIVE POWER AT NO LOAD		205 / 101 kVAr
NOMINAL TORQUE	T_n	4880 / 2002 Nm
STARTING TORQUE (as a motor)	T_s/T_n	1.0 / 1.4
BREAKDOWN TORQUE	T_{max}/T_n	3.2 / 3.7
TEMPERATURE RISE - rated power, stator winding		B-class / B-class
INSULATION CLASS		F / F
COOLING FLUID FLOW AND MAX. INLET TEMP.		30 l/min, 40 °C
WEIGHT		3400 kg
MOMENT OF INERTIA		16.2 kgm^2
SOUND PRESSURE LEVEL Tolerance +3 dB(A).		80 / 72 dB(A)