



# MAVILOR MOTORS S.A.

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**Regarding:**

CHARACTERISTICS	SYMBOL	UNITS	BT-55/A2
MAX SPEED	n	R.P.M.	12000
STALL TORQUE	Ms	Nm	0,7
STALL CURRENT	Is	A	8,73
PEAK TORQUE	Mj	Nm	2,8
TORQUE-WEIGHT RATIO	Tw	Nm/Kg	0,48
EMF CONSTANT	Ke	Vs/rad	0,08
TORQUE CONSTANT	Kt	Nm/A	0,08
RELUCTANCE TORQUE	Tr	Nm	<0,02
WINDING RESISTANCE	R	$\Omega$	0,57
WINDING INDUCTANCE	L	mH	0,74
ROTOR INERTIA	J	$\text{Kgm}^2 \cdot 10^{-3}$	0,015
MECHANICAL TIME CONSTANT	Tm	ms	1,32
ELECTRICAL TIME CONSTANT	Te	ms	1,31
THERMAL TIME CONSTANT	Tth	min	9
THERMAL RESISTANCE	Rth	C/W	4,4
MASS	M	Kg	1,37
RADIAL LOAD	Fr	N	250
AXIAL LOAD	Fa	N	100
INSULATION			CLASS-F
PROTECTION			IP-65

All characteristics at 25°C ambient temperature.