

TENTATIVE CHARACTERISTICS AND PERFORMANCES

CHARACTERISTICS	SYMBOL	UNITS	BR-3
Max Speed Cutoff	nmax mec.	rpm	6000
Speed max @ Power Supply	nmax	rpm	3860
Speed at knee & at power supply	nk	rpm	3530
Stall Torque	Ms	Nm	2
Stall Current	Is	Arms	14,43
Nominal speed	n	rpm	3000
Nominal Torque	Mn	Nm	1,35
Peak Torque	Mj	Nm	8
EMF Constant (± 10%)	Ke	Vs/rad	0,080
Torque Constant (± 10%)	Kt	Nm/Arms	0,139
Cogging Torque	Ct	mNm	30
Winding Resistance (± 10%)	R	Ω	0,21
Winding Inductance (± 10%)	L	mH	0,20
Rotor Inertia	J	Kgm ² 10 ⁻³	0,105
Mechanical Time Constant	Tm	ms	1,99
Electrical Time Constant	Te	ms	0,95
Thermal Time Constant	Tth	s	0
Thermal Resistance	RTh	°C/W	1,31
Max winding working temperature		°C	130
Nº pair of poles			10
Heat sink plate		mm*mm	300x300x10
Insulation class			CLASS-F
Power Supply		Vrms	34
Bus DC		Vdc	48

Definitions

