

TENTATIVE CHARACTERISTICS AND PERFORMANCES

CHARACTERISTICS	SYMBOL	UNITS	BR-2
Max Speed Cutoff	nmax mec.	rpm	6000
Speed max @ Power Supply	nmax	rpm	5320
Speed at knee & at power supply	nk	rpm	3800
Stall Torque	Ms	Nm	0,8
Stall Current	Is	Arms	7,96
Nominal speed	n	rpm	3000
Nominal Torque	Mn	Nm	0,80
Nominal Power	Pn	W	251
Peak Torque	Mj	Nm	1,80
EMF Constant (± 10%)	Ke	Vs/rad	0,058
Torque Constant (± 10%)	Kt	Nm/Arms	0,100
Cogging Torque	Ct	mNm	10
Winding Resistance (± 10%)	R	Ω	0,71
Winding Inductance (± 10%)	L	mH	0,41
Rotor Inertia	J	Kgm ² 10 ⁻³	0,016
Mechanical Time Constant	Tm	ms	1,95
Electrical Time Constant	Te	ms	0,58
Thermal Time Constant	Tth	s	192
Thermal Resistance	RTh	°C/W	1,27
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
Temperature sensor			

Definitions

