

Outer rotor brushless DC motor type KOR 170-028



Characteristics:

Parameter	Symbol	Units	Value
Nominal torque	M_n	N·m	9
Peak torque	M_{max}	N·m	27
Motor constant	K_M	N/√W	1.4
Voltage	V_{DC}	V	600
Nominal current	I_n	A	8.3
Torque constant	K_T	N·m/A _{rms}	1.08
Back EMF constant	K_E	V _{rms} /krpm	67
No-load speed		rpm	7000
Number of poles	N_p		10
Phase connection			Y
Line-to-line resistance	R_L	Ω	0.4
Line-to-line inductance	L_L	mH	5.3
Electric time constant	T_E	ms	13.2
Insulation class			H
Thermal resistance	T_R	°C/W	1.7
External diameter	OD	mm	170
Stator/rotor length	L	mm	28
Motor length	TL	mm	55
Inertia	J	Kg·cm ²	105
Weight	Wt	Kg	4.2

