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High Speed Motor Specification

Motor Model Number MK2.4B2221

PARAMETER	NOMINAL VALUE	COMMENT
GENERAL		
Туре	3-phase brushless permanent-magnet Internal rotor	12 stator poles, 8 rotor poles Sinusoidal Back-EMF wave shape Ferrite magnet
Rotor position sensor (RPS – optional)	N/A	Vector sensorless control
Ambient temperature	Operating temp > -10°C to +40°C	
	Storage temp > -40°C to +65°C	
Total motor mass	3.0 kg	
MOTOR FUNDAMENTALS @22°C		
Ke - BEMF constant	0.195 V/rad.s-1	Line to neutral, RMS Voltage
Kt – Torque constant	0.585 Nm/A	
Km - Motor constant	0.184 Nm/\sqrt{Watt}	
Inductance	22.66 mH	Line to neutral inductance (includes self and mutua inductance)
NDICATIVE PERFORMANCE */ ** AT NOMINAL 230V _{RMS}		
Speed – maximum	17,000 rpm	*
Max. Torque at 580 rpm	2.40 Nm	*
Max. Torque at 16800 rpm	0.28 Nm	*
Efficiency at 580 rpm	62.6%	* at 1.1 Nm torque
Efficiency at 16800 rpm	77.0%	* at 0.28 Nm torque

** Different performance levels might be achieved through motor customization to other applications.

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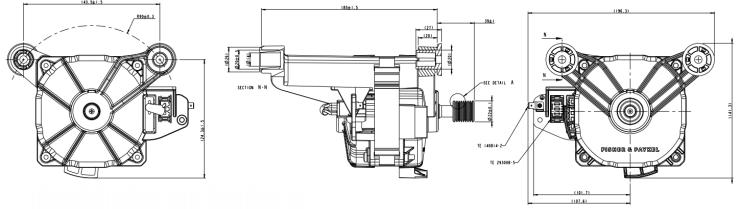


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OVERALL DIMENSIONS ***





*all dimensions in mm