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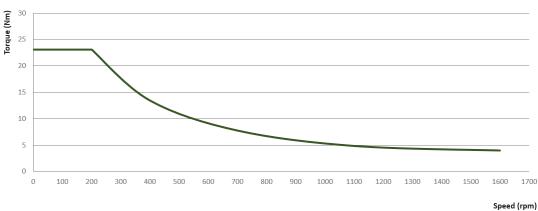
Direct Drive Motor Specification

Motor Model Number MB19H

PARAMETER	VALUE	COMMENT
GENERAL		
Motor type	3-phase brushless permanent-magnet Outer rotor	27 stator poles, 36 rotor poles Sinusoidal Back-EMF wave shape Aluminium wire and 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 +60°C	at 85% RH
Total motor mass	4.4 kg	
MOTOR FUNDAMENTALS		
Ke - BEMF constant	2.34 Vrms/rad.s-1	Line to neutral, RMS Voltage
Kt – Torque constant	7.03 Nm/A	
Km - Motor constant	1.51 Nm/\sqrt{Watt}	
Inductance	67.9 mH	Line to neutral inductance (includes self and mutual inductance)
INDICATIVE PERFORMANCE * / ** AT NOMINAL 230V _{RMS}		
Speed – maximum	1,600 rpm	*
Torque at 200 rpm	23 Nm	*
Torque at 1,400 rpm	4 Nm	*
Power output – at 200 rpm	490 W	* at 23 Nm torque
Power output – at 1,400 rpm	550 W	* at 4 Nm torque
Efficiency at 200 rpm	62%	* at 23 Nm torque
Efficiency at 1,400 rpm	80%	* at 4 Nm torque

* Reference values using Fisher & Paykel motor control at 22 °C. Values may vary using different control board and different tests conditions

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



Pull Down curve at 230V 50Hz

Reference curve using Fisher & Paykel Components and Technology control board

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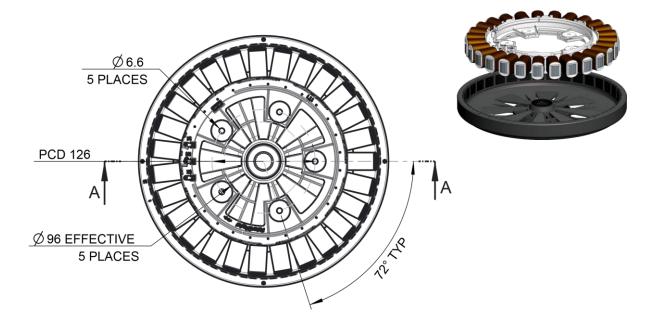
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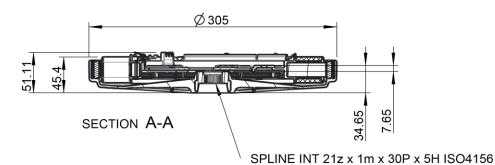


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OVERALL DIMENSIONS ***





*** All dimensions in mm

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