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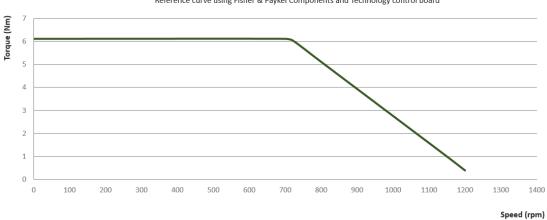
Direct Drive Motor Specification

Motor Model Number **MF06A**

PARAMETER	VALUE	COMMENT
GENERAL		
Motor type	3-phase brushless permanent-magnet Outer rotor	15 stator poles, 20 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	2.0 kg	
MOTOR FUNDAMENTALS		
Ke - BEMF constant	0.95 Vrms/rad.s-1	Line to neutral, RMS Voltage
Kt – Torque constant	2.85 Nm/A	
Km - Motor constant	0.63 Nm/\sqrt{Watt}	
Inductance	38.3 mH	Line to neutral inductance (includes self and mutual inductance)
NDICATIVE PERFORMANCE * / ** AT NOMINAL 220V _{RMS}		
Speed – maximum	1,200 rpm	*
Torque at 700 rpm	6.1 Nm	*
Torque at 1,100 rpm	1.6 Nm	*
Power output – at 700 rpm	450 W	* at 6.1 Nm torque
Power output - at 1,100 rpm	180 W	* at 1.6 Nm torque
Efficiency at 700 rpm	75%	* at 6.1 Nm torque
Efficiency at 1,100 rpm	86%	* at 1.6 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 220V 50Hz

Reference curve using Fisher & Paykel Components and Technology control board

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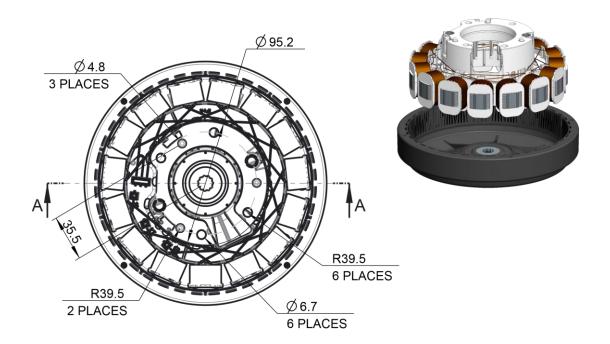
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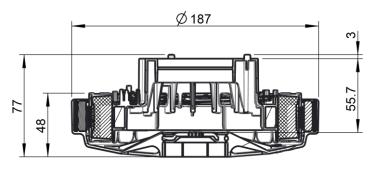


Geared Motor Specification

Motor Model Number **MF06A**

OVERALL DIMENSIONS ***





SECTION A-A

*** All dimensions in mm