

MF180AS

Frameless Brushless Torque Motor

General information

- ▶ Computer-optimized design maximizes torque density and performance.
- ▶ High overload capability.
- ▶ Low torque ripple.
- ▶ Low inertia.
- ▶ High control accuracy with direct drive.



Specification

	Unit	MF180AS100	MF180AS200	MF180AS300
Winding Voltage	V	48	48	48
Rated Torque (continuous)	Nm	6	10	20
Rated Current	A	5.3	8.8	17.6
Rated Speed (max)	RPM	300	300	300
Peak Torque	Nm	18	30	60
No Load Speed	RPM	400	400	400
Cogging Torque (Max.)	Nm	0.2	0.3	0.45
Torque Constant ($\pm 10\%$)	Nm / A	1.13	1.13	1.13
Voltage Constant ($\pm 10\%$)	V / KRPM	84	84	84
Terminal Resistance ($\pm 12\%$)	ohm	3.15	0.64	0.32
Terminal Inductance ($\pm 30\%$)	mH	5.0	1.2	0.6
Motor Inertia	Kg-m ²	25	40	72
Motor Weight	Kg	2.5	5	10
Poles		26	26	26
Stator length (L1)	mm	15	28	56
Rotor sleeve length (L2)	mm	48	71	96

Mechanical

