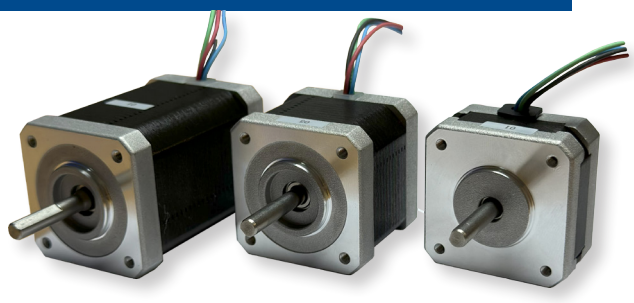
Mclennan

PRECISION MOTION CONTROL

17MSM - NEMA 17 stepper motor, higher torque, 2 phase, 1.8°

- Holding torque, up to 830 mNm
- Standard models available from stock
- Cost optimised OEM range
- Mechanical or electrical customisation is available upon request
- Part of wide range in NEMA sizes 08, 11, 14, 17, 23 and 34



17MSM - Specification

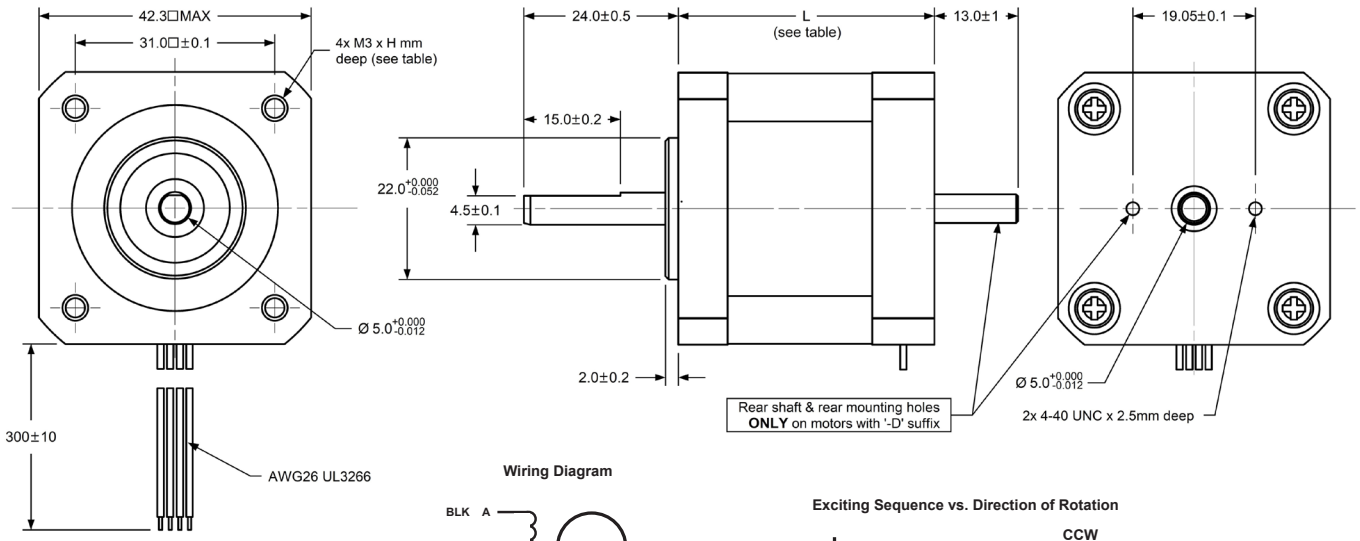
Mclennan Part Number	Motor Length mm	Rated Current Amps	Holding Torque Nm Typ	Resistance Ω ±10%@20°C	Inductance mH	Detent Torque mNm	Rotor Inertia g cm²	Motor Weight kg
17MSM026007-S	25.3	0.7	0.21	6.2	8.4	5	20	0.15
17MSM026010-S	25.3	1.0	0.21	3.2	4.2	5	20	0.15
17MSM026010-D	25.3	1.0	0.21	3.2	4.2	5	20	0.15
17MSM040020-S	39.8	2.0	0.48	1.04	2.2	15	57	0.28
17MSM040020-D	39.8	2.0	0.48	1.04	2.2	15	57	0.28
17MSM063020-S	62.8	2.0	0.83	1.49	3.6	30	123	0.60
17MSM063020-D	62.8	2.0	0.83	1.49	3.6	30	123	0.60

Parameter	Value
Phase	2
Step Angle	1.8°
Shaft	Single or double
Frame Size	NEMA17 (42 mm)

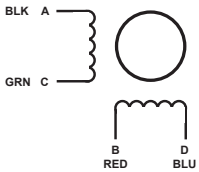
Parameter	Value
Coil Type	Bi-Polar
Terminal Number	4
Connection	Leads
Insulation Class	B (130°C)

Parameter	Value
Certification	RoHS
IP Rating	IP40

17MSM - Dimensions (mm)



Wiring Diagram



Exciting Sequence vs. Direction of Rotation

CW

STEP	A	B	C	D
1	+	+	-	-
2	-	+	+	-
3	-	-	+	+
4	+	-	-	+

CCW

Clockwise view from mounting side

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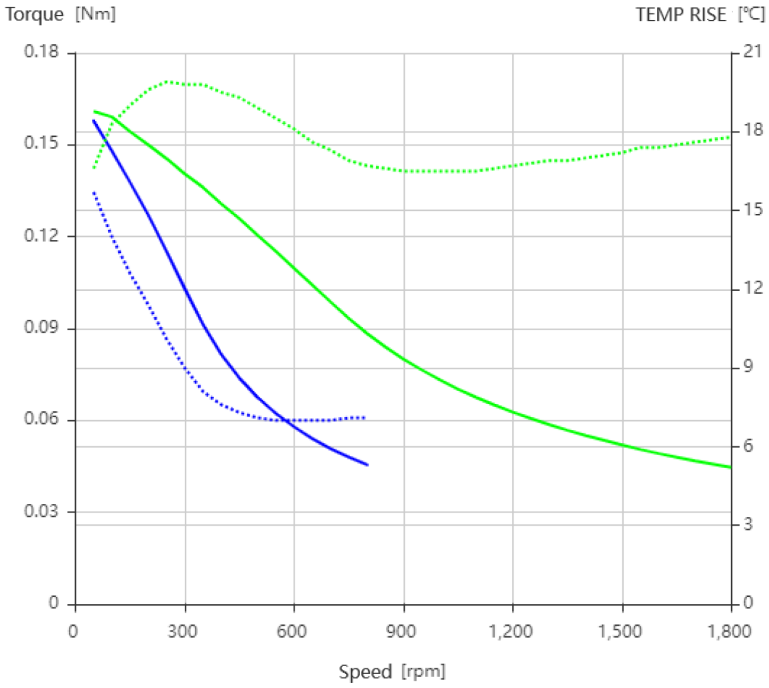
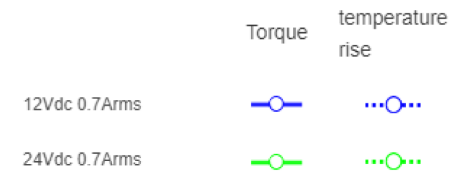
17MSM - Torque Curves Typical performance (Pull-Out torque)

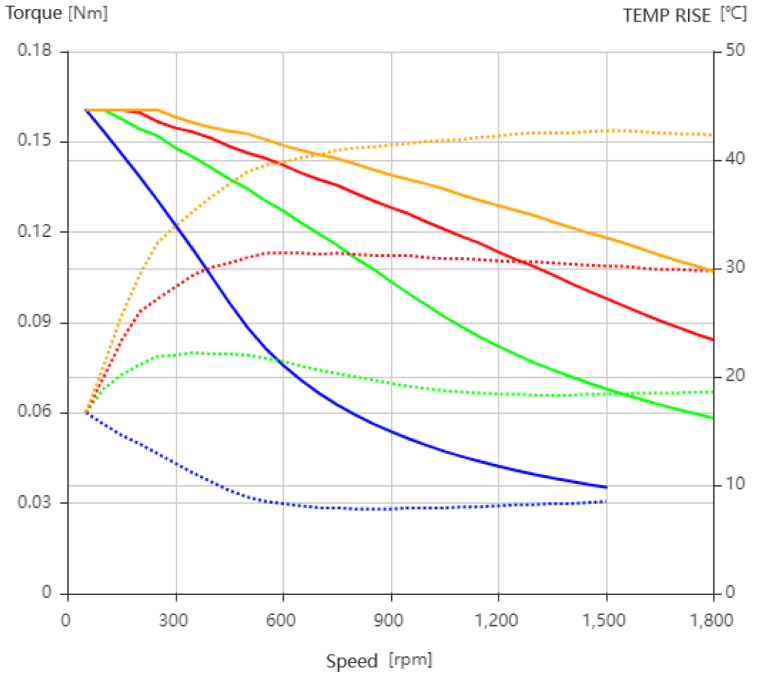
17MSM026007-S & D

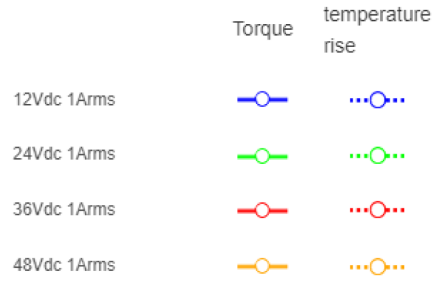




- The test environment temperature is 25°C. It is recommended that the motor be used within a temperature rise of 60°C.

17MSM026010-S & D

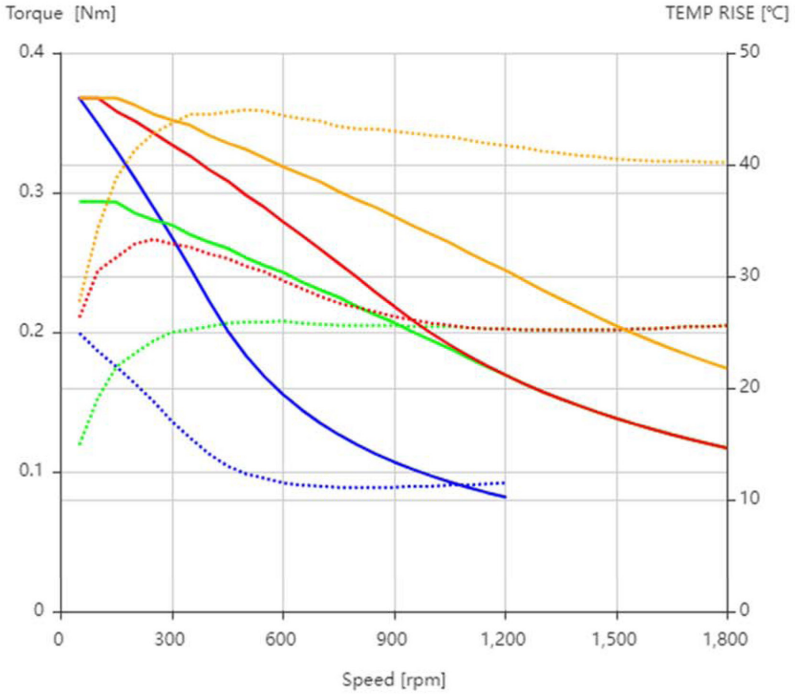


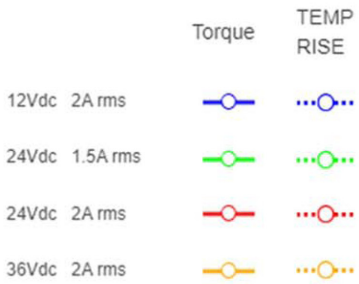


- The test environment temperature is 25°C. It is recommended that the motor be used within a temperature rise of 60°C.

17MSM - Torque Curves Typical performance (Pull-Out torque)

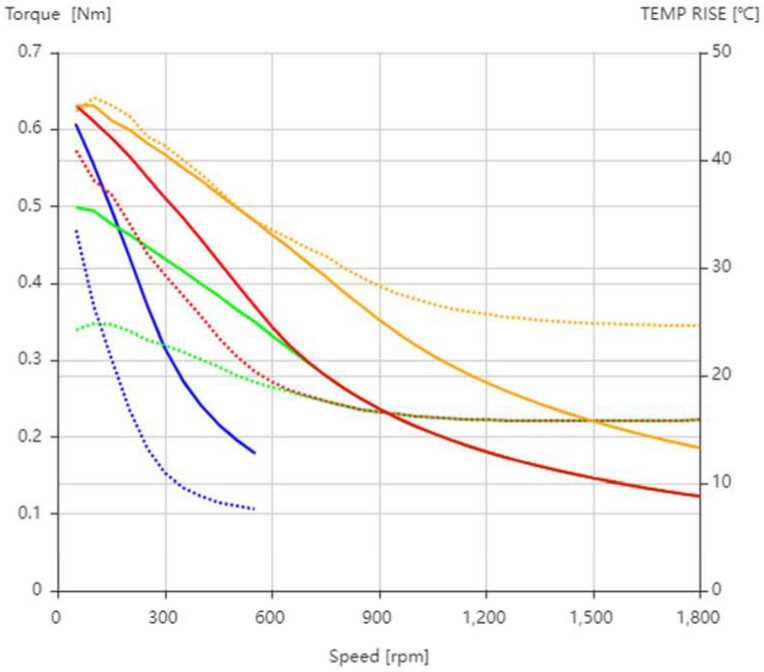
17MSM040020-S & D

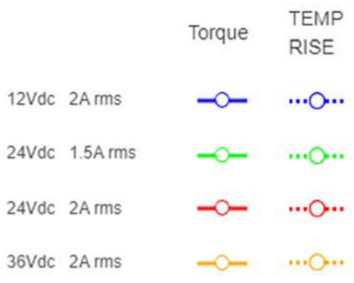




- Ambient temperature: 25℃., Max temperature rise: 60℃.

17MSM063020-S & D





- Ambient temperature: 25℃., Max temperature rise: 60℃.