

23MSM - NEMA 23 stepper motor, higher torque, 2 phase, 1.8°

- Holding torque, up to 3.2 Nm
- 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



23MSM - Specification

Mclennan Part Number	Motor Length mm	Front Shaft Diameter mm	Rated Current Amps	Holding Torque Nm Typ	Resistance Ω $\pm 10\%$ @20°C	Inductance mH	Detent Torque mNm	Rotor Inertia g cm ²	Motor Weight kg
23MSM039010-S	39	6.35	1.0	0.82	6.30	13.5	24	105	0.4
23MSM039010-D	39	6.35	1.0	0.82	6.30	13.5	24	105	0.4
23MSM039022-S	39	6.35	2.2	0.82	1.39	3.1	24	105	0.4
23MSM039022-D	39	6.35	2.2	0.82	1.39	3.1	24	105	0.4
23MSM039035-S	39	6.35	3.5	0.82	0.56	1.3	24	105	0.4
23MSM039035-D	39	6.35	3.5	0.82	0.56	1.3	24	105	0.4
23MSM055022-S	55	6.35	2.2	1.50	1.60	6.9	45	215	0.6
23MSM055022-D	55	6.35	2.2	1.50	1.60	6.9	45	215	0.6
23MSM055055-S	55	6.35	5.5	1.50	0.28	1.03	45	215	0.6
23MSM055055-D	55	6.35	5.5	1.50	0.28	1.03	45	215	0.6
23MSM112050-S	112	8	5.0	3.20	0.51	2.2	120	750	1.5
23MSM112050-D	112	8	5.0	3.20	0.51	2.2	120	750	1.5

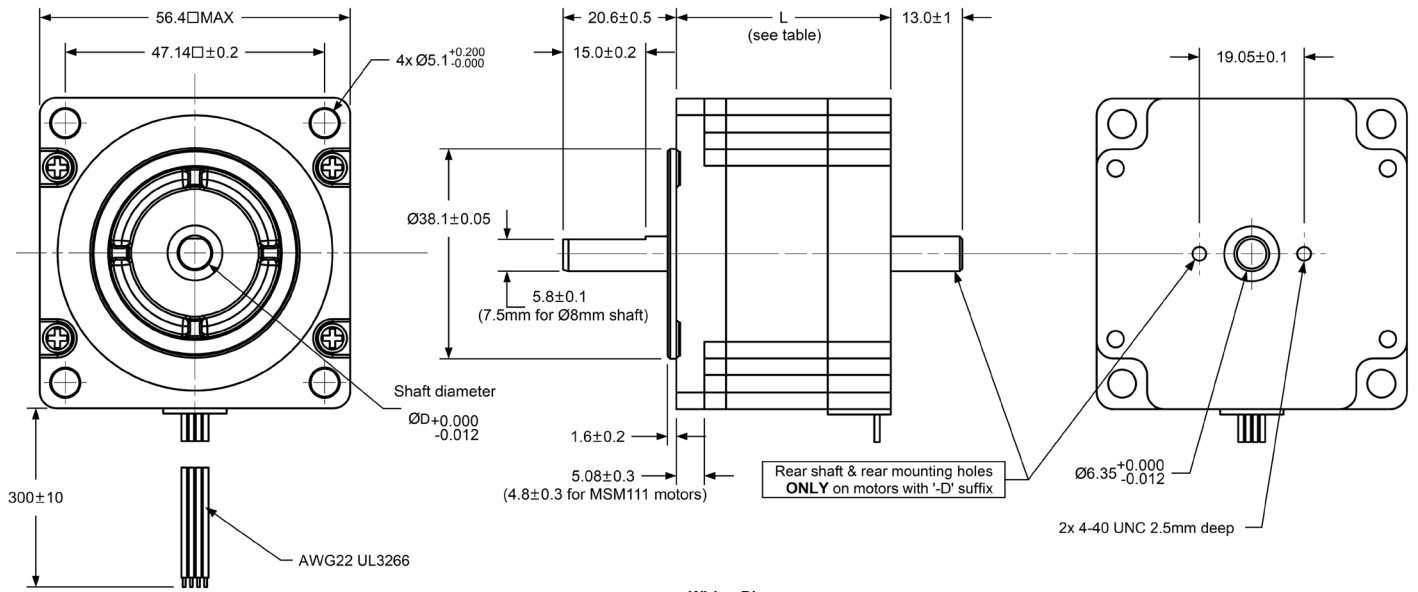
Parameter	Value
Phase	2
Step Angle	1.8°
Shaft	Single or double
Frame Size	NEMA23 (56 mm)

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

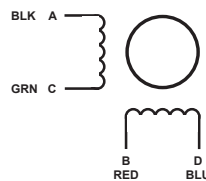
Parameter	Value
Certification	RoHS
IP Rating	IP40

Great care is taken during the preparation of data, but Mclennan cannot guarantee accuracy so it should be used for reference only

23MSM - Dimensions (mm)



Wiring Diagram



Exciting Sequence vs. Direction of Rotation

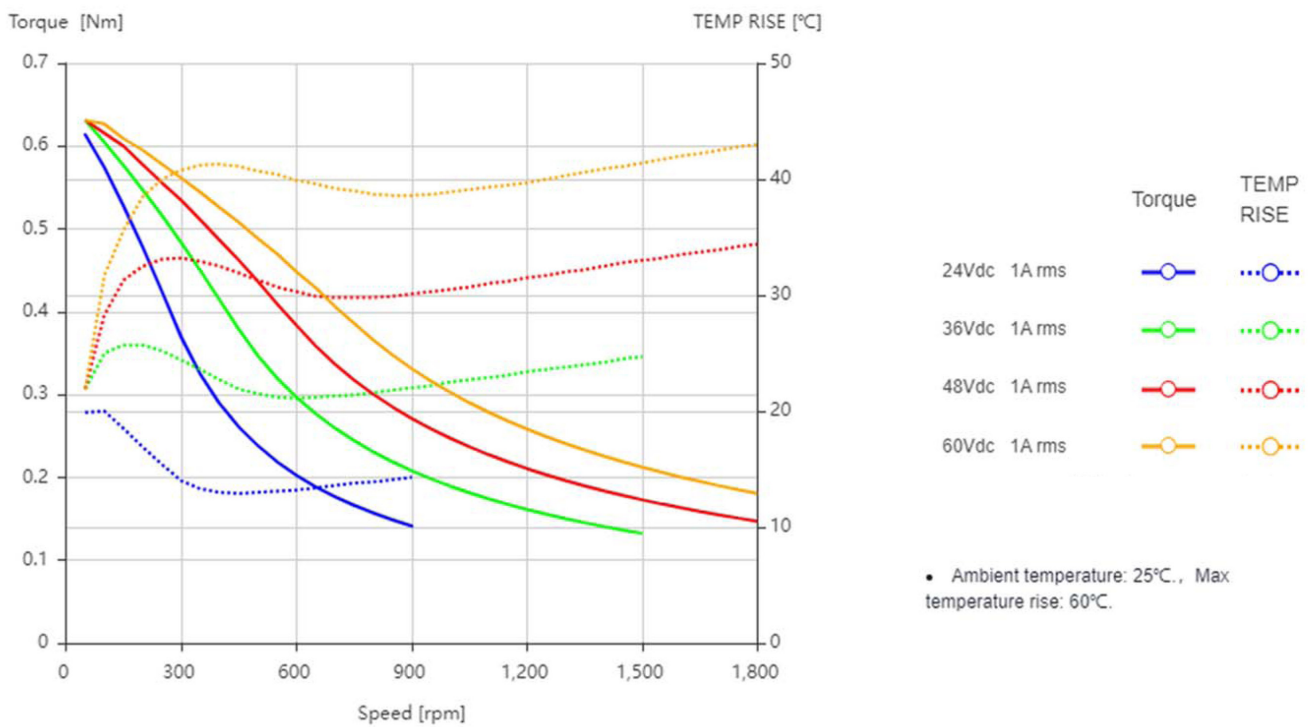
STEP	A	B	C	D	Direction
1	+	+	-	-	CW
2	-	+	+	-	
3	-	-	+	+	
4	+	-	-	+	

CCW

Clockwise view from mounting side

23MSM - Torque Curves Typical performance (Pull-Out torque)

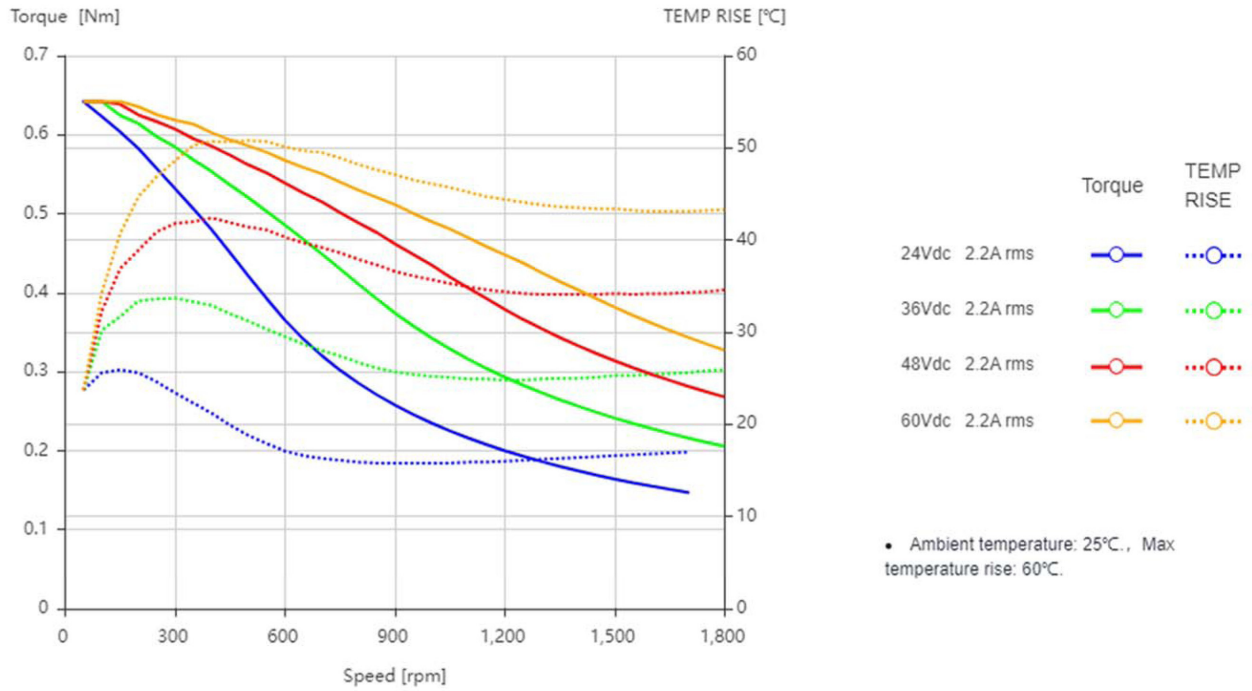
23MSM039010-S & D



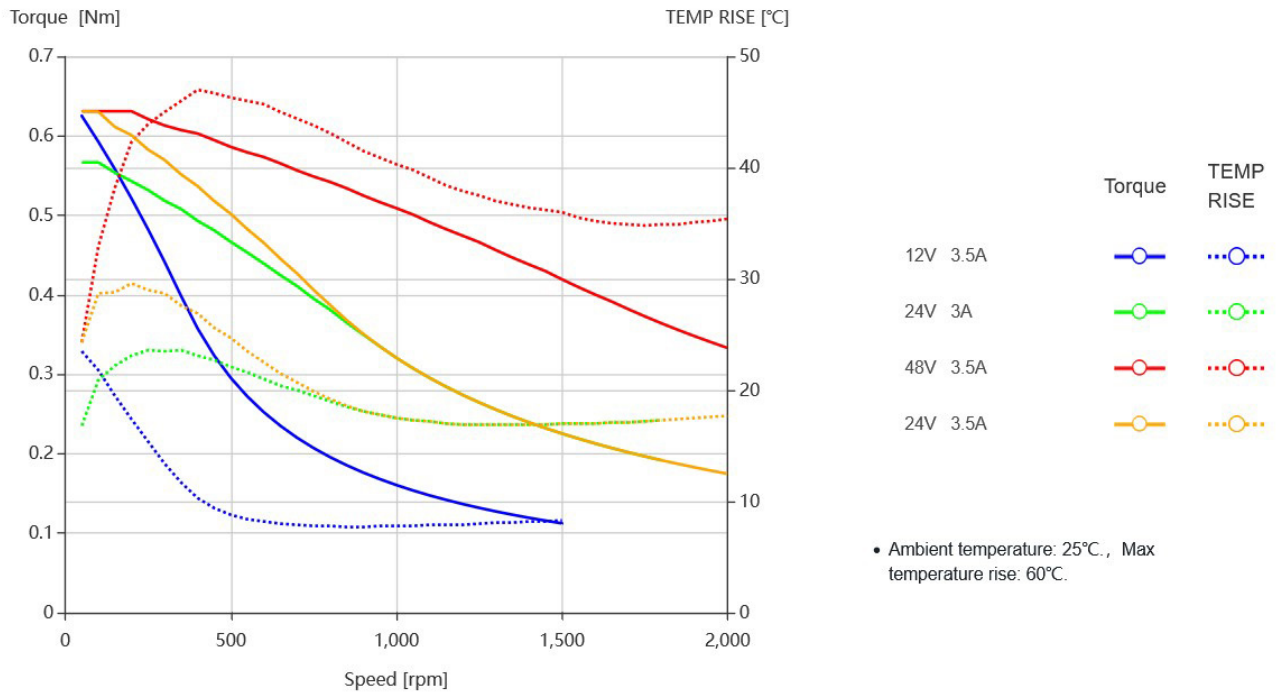


23MSM - Torque Curves Typical performance (Pull-Out torque)

23MSM039022-S & D



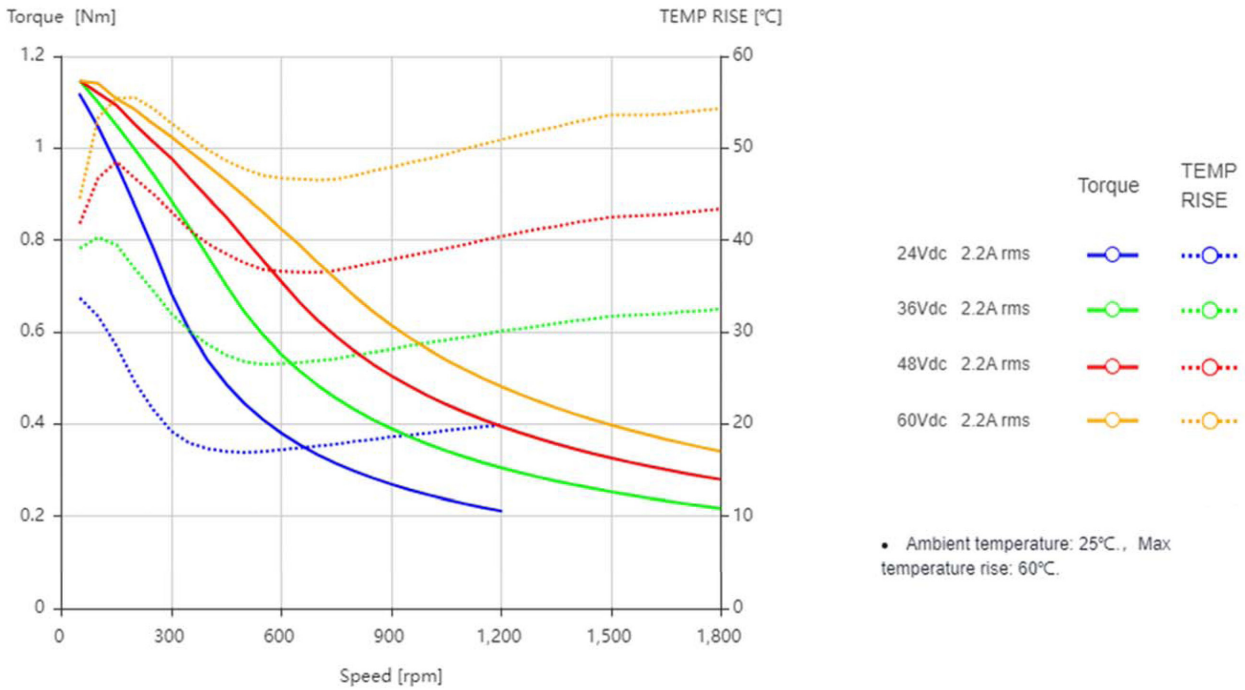
23MSM039035-S & D



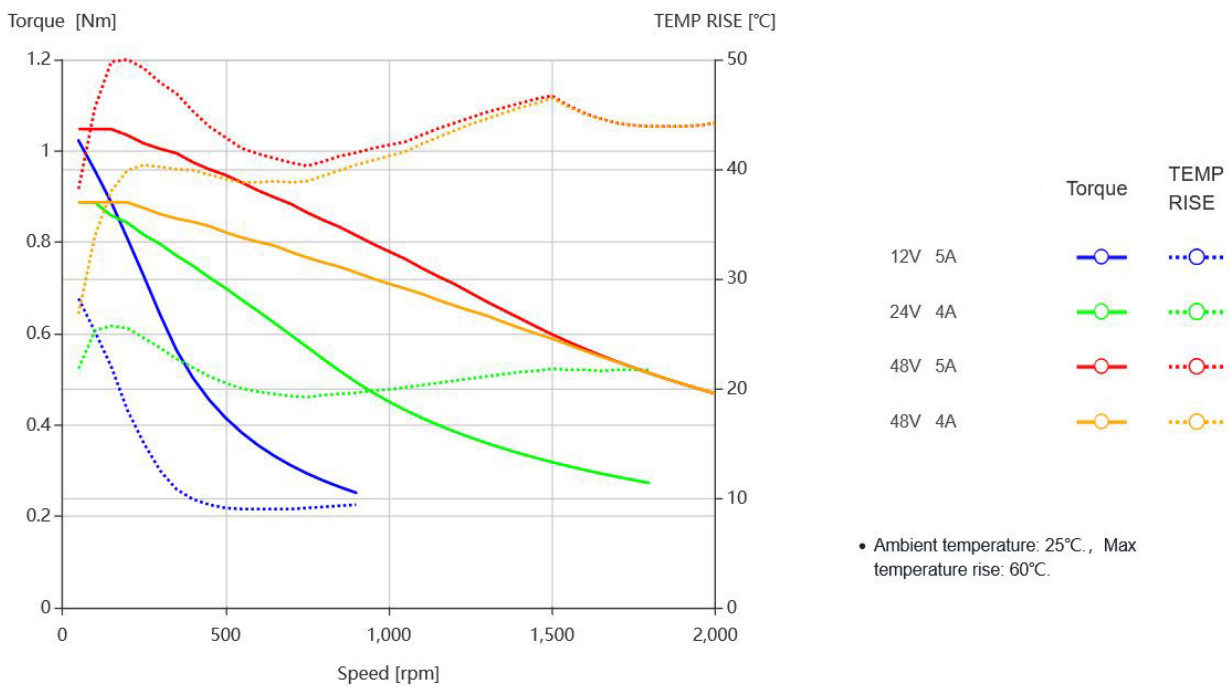


23MSM - Torque Curves Typical performance (Pull-Out torque)

23MSM055022-S & D



23MSM055055-S & D





23MSM - Torque Curves Typical performance (Pull-Out torque)

23MSM112050-S & D

