Hybrid Stepper Motor CS-M23445 with Encoder

Features:

- 2-phase hybrid stepper motor
- 1000-lines/Rev. encoder
- Standard NEMA 34 dimensions
- High torque design

Product Specification:

The CS-M23445 two-phase stepper motor with encoder feedback is designed to work with the Leadshine Hybrid Servo Drive CS-D808 or CS-D1008 to build a hybrid servo closed loop system (no loss of steps anymore).

General Specification:

	CS-M23445		Einheit
Step Angle	1.8		Degree °
Holding Torque	4.5		Nm
Phase Current	6.0		A
Phase Resistance ±10%	0.43		Ω
Phase Inductance ±20%	2.95		mH
Inertia	1400		gcm²
Weight	2.7		kg
Encoder Resolution	1000		Steps/rev.

Encoder Specification:

Parameter	Min	Typical	Max	Unit
Operating Temperature	-40	-	100	℃
Supply Voltage	4.5	5	5.5	V DC
Output Current per Channel	-1	-	5	mA
Low Level Output Voltage	-	-	0.4	V DC
High Level Output Voltage	2.4	-	-	V DC
Count Frequency	-	-	100	KHz

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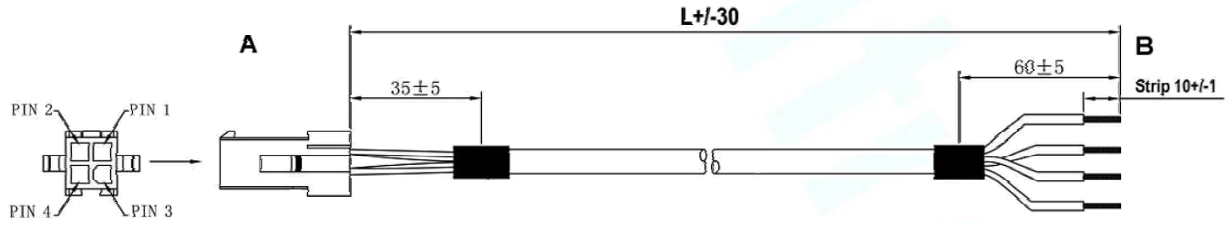
Encoder Extension Cable:

Pin	Name	Color	Description
1	EA+	Black	Encoder Channel A+
2	VCC	Red	+5V Power Input
3	GND	White	Ground (for power input)
4	NC	-	Not Connected
5	NC	-	Not Connected
6	NC	-	Not Connected
7	NC	-	Not Connected
8	NC	-	Not Connected
9	NC	-	Not Connected
10	NC	-	Not Connected
11	EB+	Yellow	Encoder Channel B+
12	EB-	Green	Encoder Channel B-
13	EA-	Blue	Encoder Channel A-
14	NC	-	Not Connected
15	NC	-	Not Connected

Motor Extension Cable:



Pin	Name	Color	Description
1	B-	Blue	Phase B-
2	A-	Red	Phase A-
3	A+	Black	Phase A+
4	B+	Yellow/Green	Phase B+

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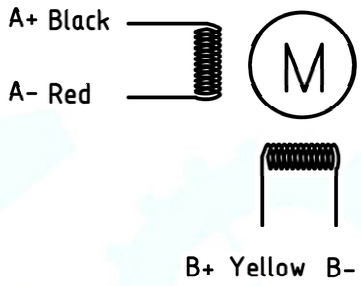
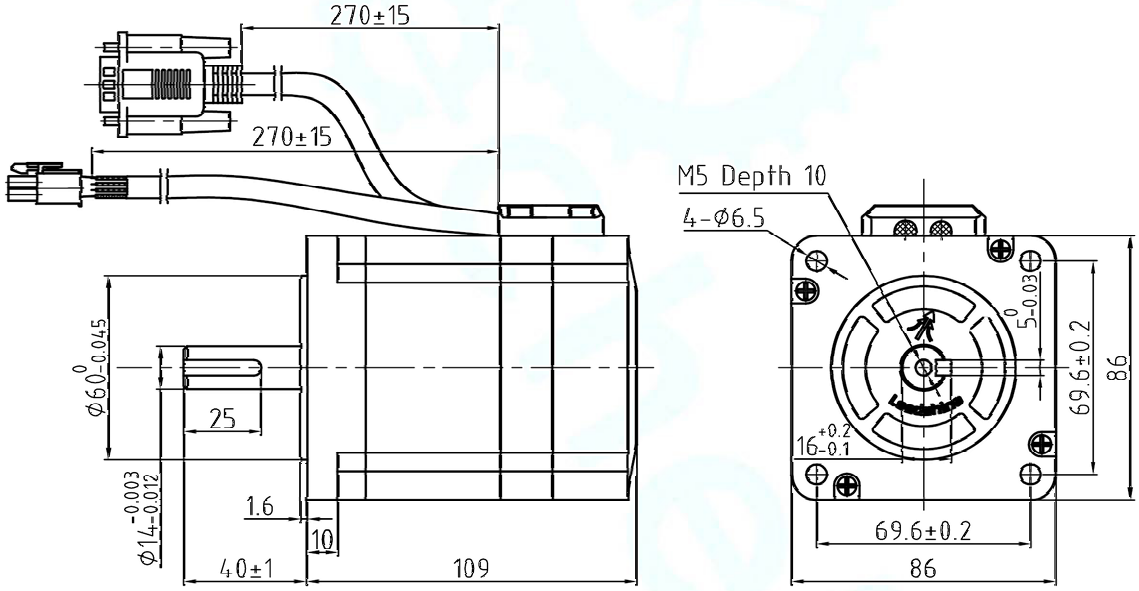
Motor Wiring Diagram:



Mechanical Dimensions:



Torque Curve: