



# Nema 23

## 1.8° Hybrid Stepper Motor



### Design

Main Feature Maximum efficiency/optimal power consumption Low noise and vibrations design Low heat generation High torque at low speed High Accuracy

### Features

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### Application

3D Printer, CNC Machine, HealthCare, Diamond Machines etc

### Options

Main Feature Maximum efficiency/optimal power consumption Low noise and vibrations design Low heat generation High torque at low speed High Accuracy

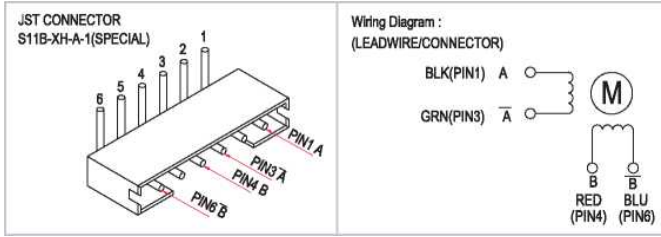
### Standard Data

Parameter	Value	Unit
Motor Type	Hybrid Stepper Motor	
Electrical Enclosure	40	IP
Mounting	0 5.0 X 4 holes Through	
Connection	Fly out Flexible leads 22AWG, 200mm length, ends stripped 10mm/Connector (on request)	
No. of steps/rotation	200	
Step Angle Accuracy	±5%(full step,no load)	
Insulation Class	A	
Temperature Rise	80°C Max(rated current,2 phase on)	°C
Ambient Temperature	-20°C~+50°C	°C
Shaft Radial Play	0.02 Max(450 g-load)	mm
Shaft Axial Play	0.08 Max(450 g-load)	mm

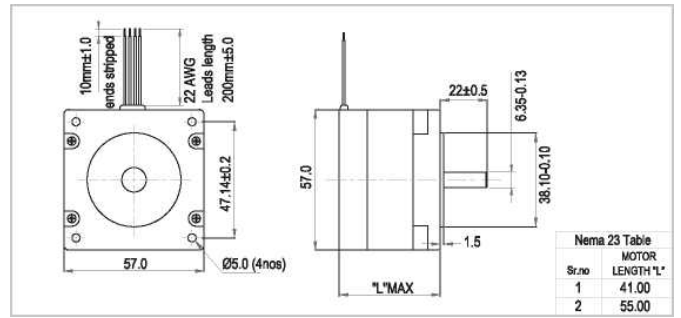
### Technical Data

Parameter	Value	Unit
Step Angle	1.8°	°
Operating Voltage	24-48	V
Winding Type	Bipolar	
Current/ Phase	2	A
Resistance/ Phase	1.2	Ω
Inductance/ Phase	2.5	mH
Detent Torque	2.5	Ncm
Holding Torque	55	Ncm
Rotor Inertia	150	gcm <sup>2</sup>
Weight	470	g
Length	41	mm
No of Leads	4	

### Connection Diagram



### Dimensional Drawing



### Speed & Torque Graph

