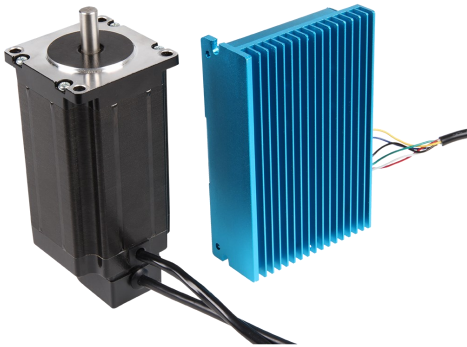
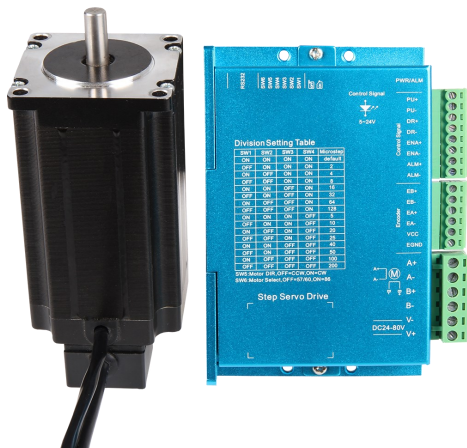


# NEMA23-04CL

Bipolar Stepper Motor with closed-loop motor driver



This NEMA-23 motor combines the advantages of the stepper motor and servo motor technology. It has got a closed loop with a sensor, which enhances the accuracy of positioning and minimizes step losses.



## KEY FEATURES

Shaft dimensions	Ø 8 x 18 mm (single shaft)
Specification	57SHD4931-20BQ
Connection	4 connecting cables with open ends (motor), 6 connecting cables with open ends (control loop)
Steps per Revolution	200
Dimensions	56 x 56 x 120 mm
Items delivered	NEMA23-04CL Stepper Motor

## PERFORMANCE CHARACTERISTICS

Holding torque	3 Nm
Step angle	1.8 °
Rated voltage	3.15 V
Rated current	4.2 A
Amount of Phases	2
Phase resistance	0.75 Ω
Phase inductivity	2.8 mH
Isolation resistance	Min. 100MΩ by 500 V DC
Isolation class	B (130°)
Rotational inertia	650 g·cm <sup>2</sup>
Detent torque	0.1 Nm
Operating temperature	-10 °C - 50 °C

## FURTHER DETAILS

Article No.	NEMA23-04CL
EAN	4250236818818
Customs Tariff No.	8501109990



# TORQUE DIAGRAM

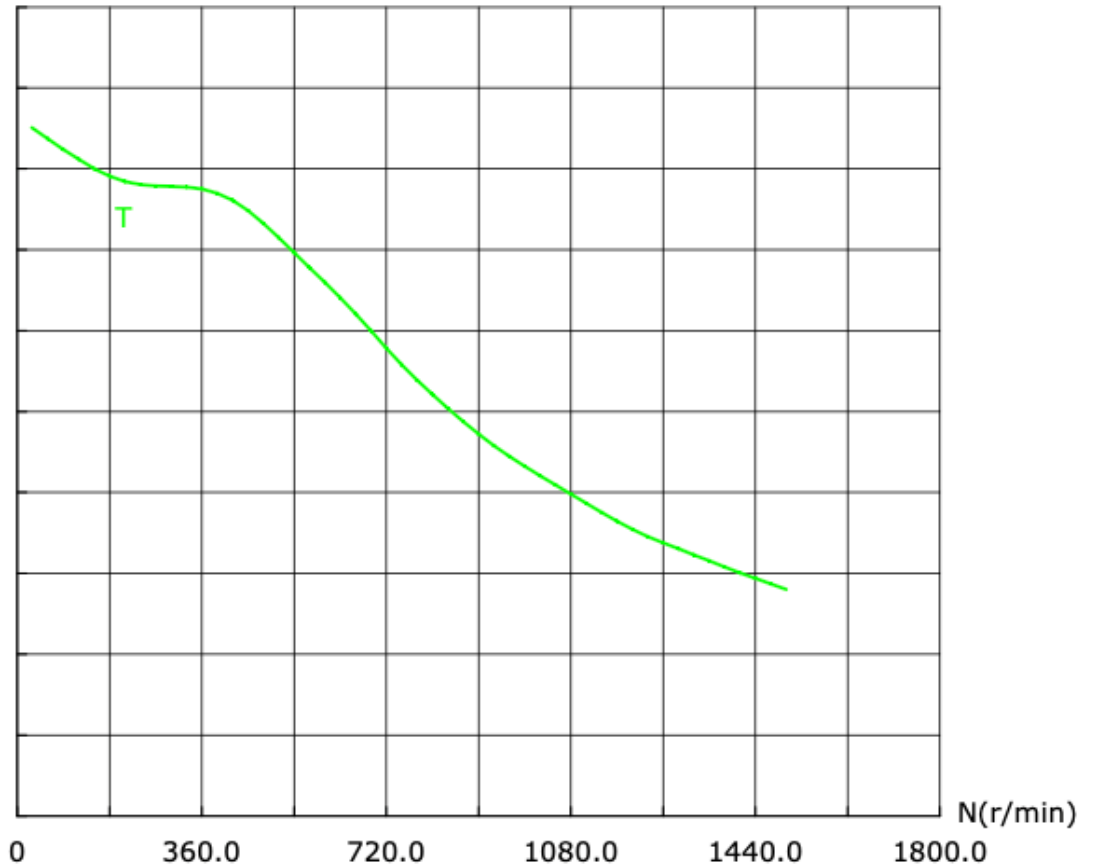
## 2H-845 DRIVER SETTINGS

Voltage 48.32 V

max. current 4.5 A

T(N.m)

2.40  
2.16  
1.92  
1.68  
1.44  
1.20  
0.96  
0.72  
0.48  
0.24



### MAX. EFFICIENCY

Efficiency 75.5 %

Torque 1.672 Nm

Current 2.748 A

Speed 540 min<sup>-1</sup>

Output power 94.07 W

### MAX. TORQUE

Torque 2.042 Nm

Current 0.547 A

Speed 28.9 min<sup>-1</sup>

Output power 6.18 W

### MAX. POWER

Torque 0.955 Nm

Current 2.975 A

Speed 1080.1 min<sup>-1</sup>

Output power 107.74 W

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