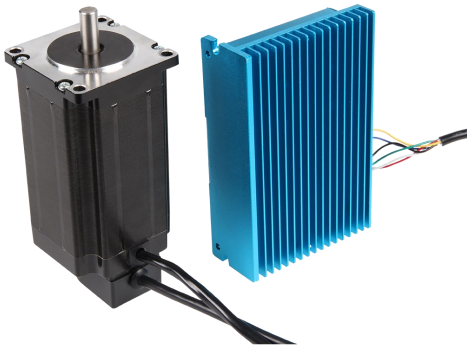
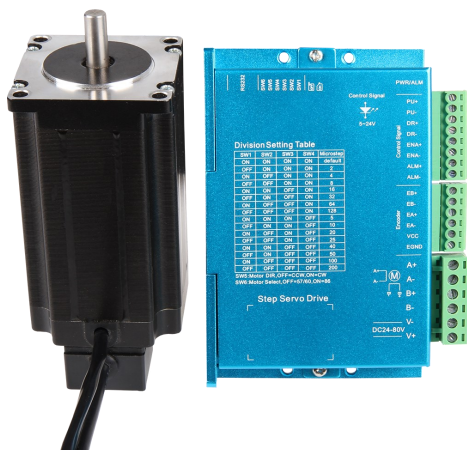


NEMA23-04CL

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 wire cable (motor), 6 wire cable (encoder)
Steps per revolution	200
Special Features	Closed-loop system, with regulator with control code
Dimensions	56 x 56 x 120 mm
Items delivered	NEMA23-04CL Motor, closed-loop motor driver

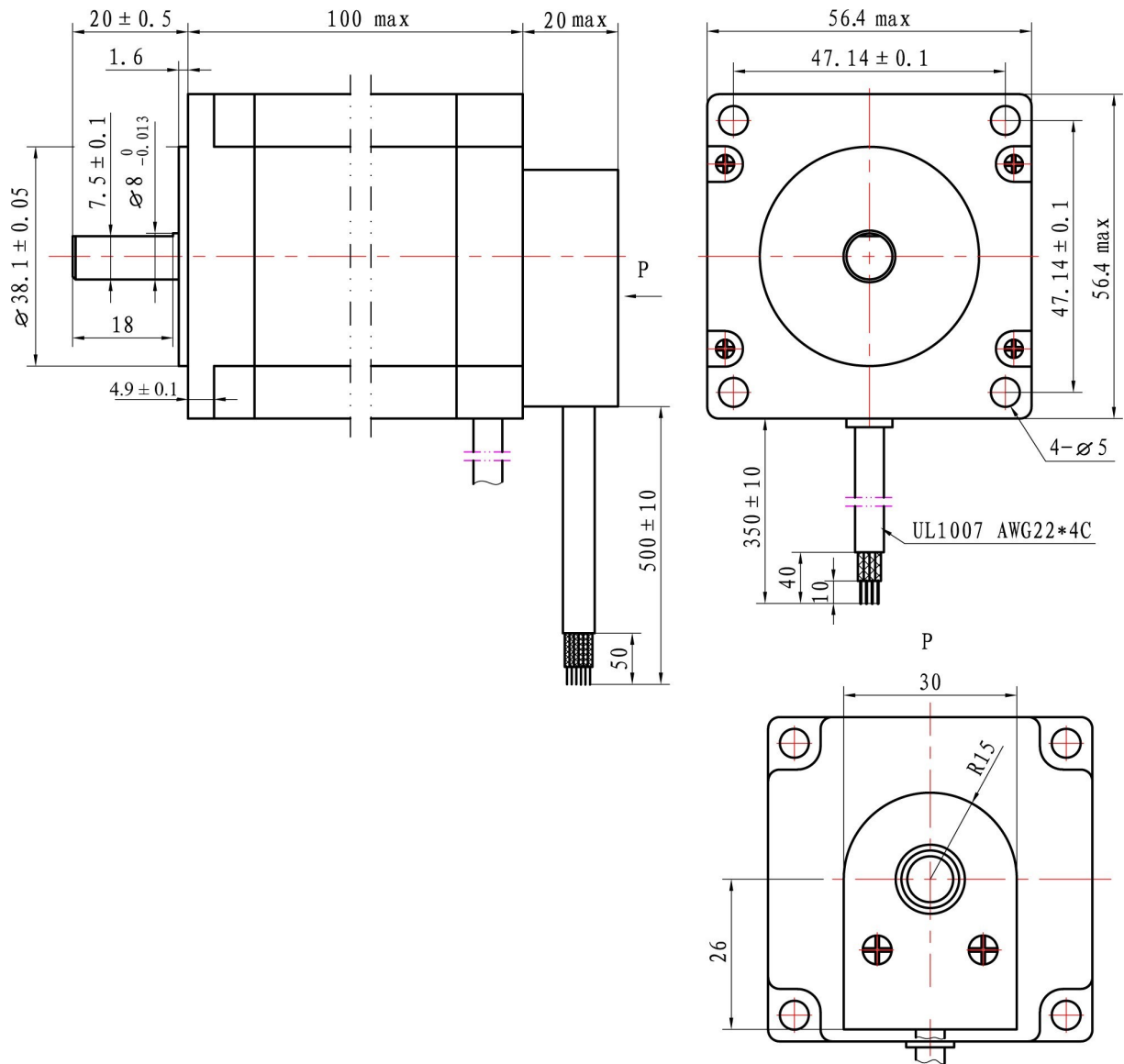
PERFORMANCE CHARACTERISTICS

Holding Torque	3 Nm
Rated Voltage	3.15 V
Rated Current	4.2 A
Step Angle	1.8 °
Amount of Phases	2
Phase Resistance	0.75 Ω
Phase inductivity	2.8 mH
Isolation resistance	Min. 100MΩ at 500 V DC
Isolation class	B (130°)
Rotational inertia	650 g·cm ²
Detent torque	0.1 Nm
Operating Temperature	-10 °C —50 °C

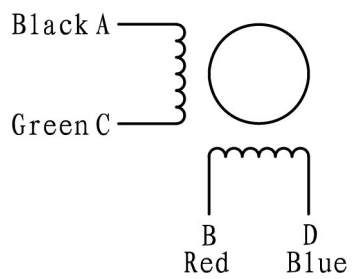
FURTHER DETAILS

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

DRAWING



WIRING



Encoder	Cable
A+	Green
A-	Blue
B+	White
B-	Yellow
5V	Red
GND	Black

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

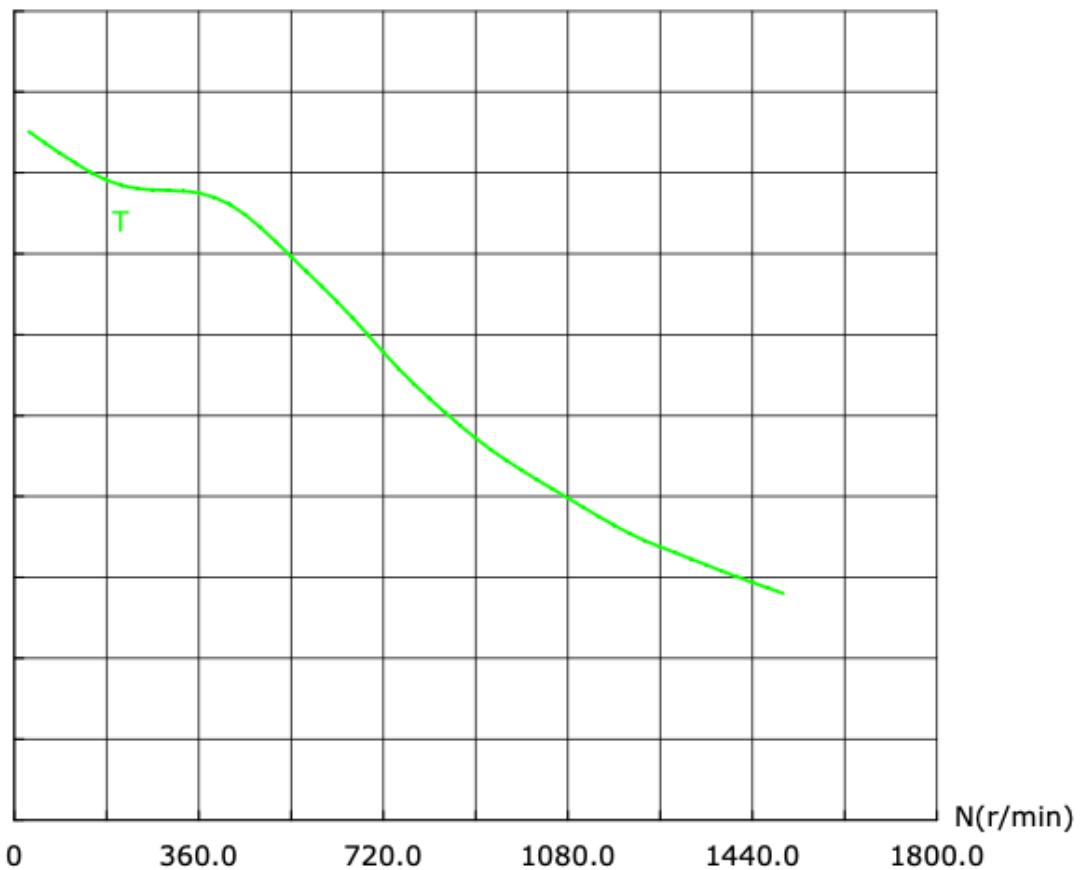
1.20

0.96

0.72

0.48

0.24



MAX. EFFICIENCY

Efficiency 75,5 %

Torque 1,672 Nm

Current 2,748 A

Speed 540 min⁻¹

Output power 94,07 W

MAX. TORQUE

Torque 2,042 Nm

Current 0,547 A

Speed 28,9 min⁻¹

Output power 6,18 W

MAX. POWER

Torque 0,955 Nm

Current 2,975 A

Speed 1080,1 min⁻¹

Output power 107,74 W

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