



SLU16CH036 SERIES

SLU16CH036-24-G406-M16-1024

SLOTLESS BLDC MOTOR

FEATURES AND BENEFITS

- **Extremely quick response and high acceleration**
- **Quiet Operation**
- **High power density**

MOTOR SPECIFICATIONS

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Frame Size	16 mm
Motor Type	Motor + Encoder + Gearhead
Weight	87 g
Number of pole	2
Number of Phases	3
Certification	RoHS

MOTOR VALUES (AT NOMINAL SPEED)

Nominal Voltage	24 VDC
No Load Speed	37.4 RPM
No Load Current	130 mA
Nominal Speed	31 RPM
Nominal Torque (Max Cont. Torque)	650 mNm
Nominal Current (Max Cont. Current)	0.76 A
Rated Speed	35.3 RPM
Rated Torque	650 mNm

Rated Current	0.337 A
Stall Torque	17870 mNm
Stall Current	3.81 A
Max. Efficiency	60%

MOTOR CHARACTERISTICS

Terminal Resistance	6.3 ohm
Terminal Inductance	0.41 mH
Speed/Torque Gradient	254 RPM/mNm
Speed Constant	620 RPM/V
Mechanical Time Constant	1.49 ms
Rotor Inertia	0.56 g-cm ²

MOTOR MECHANICAL DATA

Axial play	0 mm - 0.1 mm
Radial play	0.1
Max. Radial Load	50 N
Distance From Flange For Radial Load	5 mm
Max Force For Press Fit	40 N
Max Speed (Mechanical)	74 RPM

MOTOR THERMAL DATA

Ambient Temperature	-40.00 °C to 85.00 °C
Insulation Class	F
Max winding temperature	155.00 °C
Max winding temperature	155.00 °C
Thermal resistance (Housing-Ambient)	20.50 °C/W
Thermal resistance (Winding-Housing)	3.30 °C/W
Thermal time constant motor	525 s
Thermal time constant winding	0.72 s

GEARHEAD SPECIFICATIONS

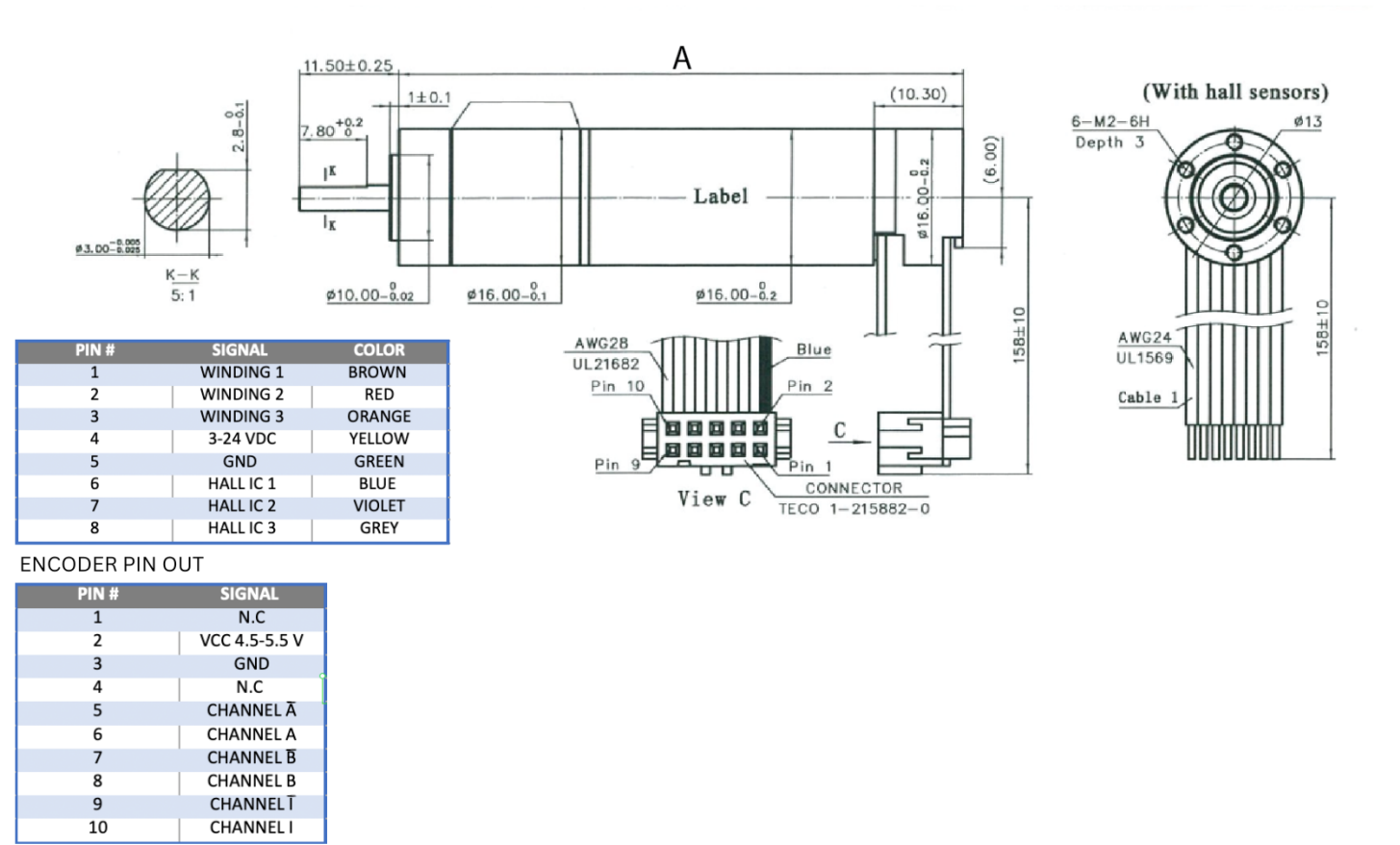
Type Of Gearhead	Planetary Gearhead
Gearhead Reduction Ratio	406
Nominal Reduction Ratio	405.94
Number Of Stages	4
Average Backlash (No Load)	1

ENCODER SPECIFICATIONS

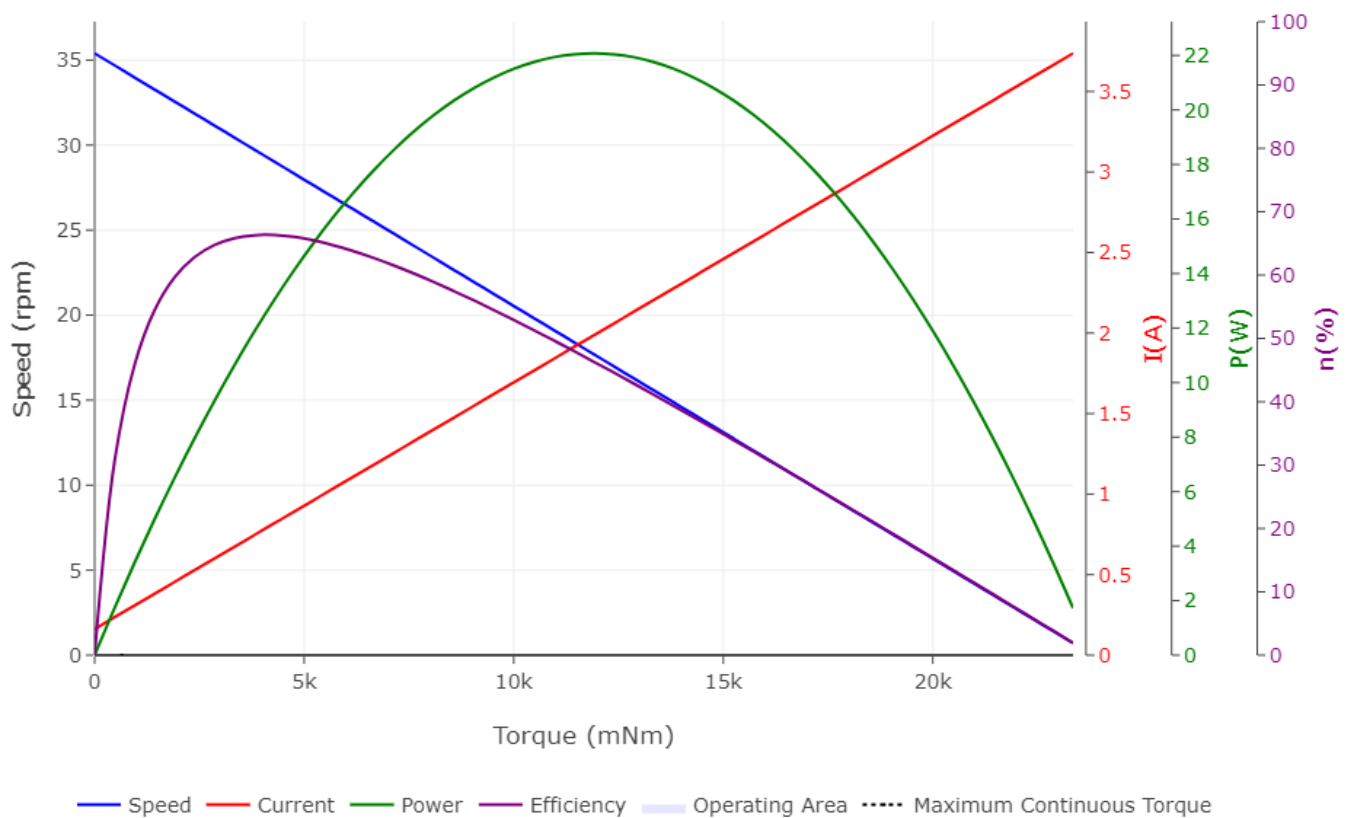
Counts Per Turn	1024
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DIMENSIONS

Model	SLU16CH036-24-G406-M16-1024
DIM. A (length) mm	75.7 mm



PERFORMANCE CURVE



Motion Control, **Solved.**

Motor Engineering and Manufacturing



*Optimized For
Your
Applications*



*Quick Prototype
Turnaround*



*Small Batch to
OEM Volume
Production*



*US Based
Support &
Manufacturing*