



SLU30CH064 SERIES

SLU30CH064-24-M24-1024

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	30 mm
Weight	286 g
Number of pole	2
Number of Phases	3
Certification	RoHS

MOTOR VALUES (AT NOMINAL SPEED)

Nominal Voltage	24 VDC
No Load Current	520 mA
Nominal Speed	9190 RPM
Nominal Torque (Max Cont. Torque)	75.7 mNm
Nominal Current (Max Cont. Current)	3.84 A
Rated Speed	8600 RPM
Rated Torque	60 mNm
Rated Current	2.43 A
Stall Torque	994.5 mNm
Stall Current	43.6 A
Max. Efficiency	86.3%

MOTOR CHARACTERISTICS

Terminal Resistance	0.551 ohm
Terminal Inductance	0.104 mH
Speed/Torque Gradient	10.1 RPM/mNm
Speed Constant	418.6 RPM/V
Mechanical Time Constant	2.05 ms
Rotor Inertia	19.4 g-cm ²

MOTOR MECHANICAL DATA

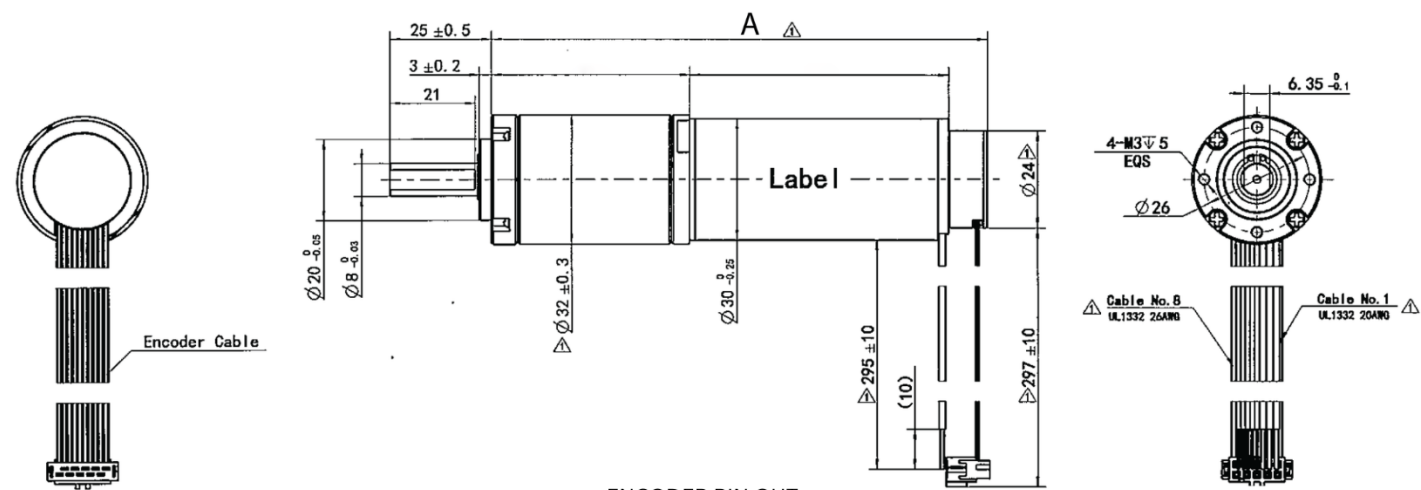
Axial play	0 mm - 0.14 mm
Radial play	Preloaded
Max. Radial Load	25 N
Distance From Flange For Radial Load	5 mm
Max Force For Press Fit	98 N
Max Speed (Mechanical)	15000 RPM

MOTOR THERMAL DATA

Ambient Temperature	-40.00 °C to 100.00 °C
Insulation Class	F
Thermal time constant motor	1094 s
Thermal time constant winding	7 s

DIMENSIONS

Model	SLU30CH064-24-M24-1024
DIM. A (length) mm	



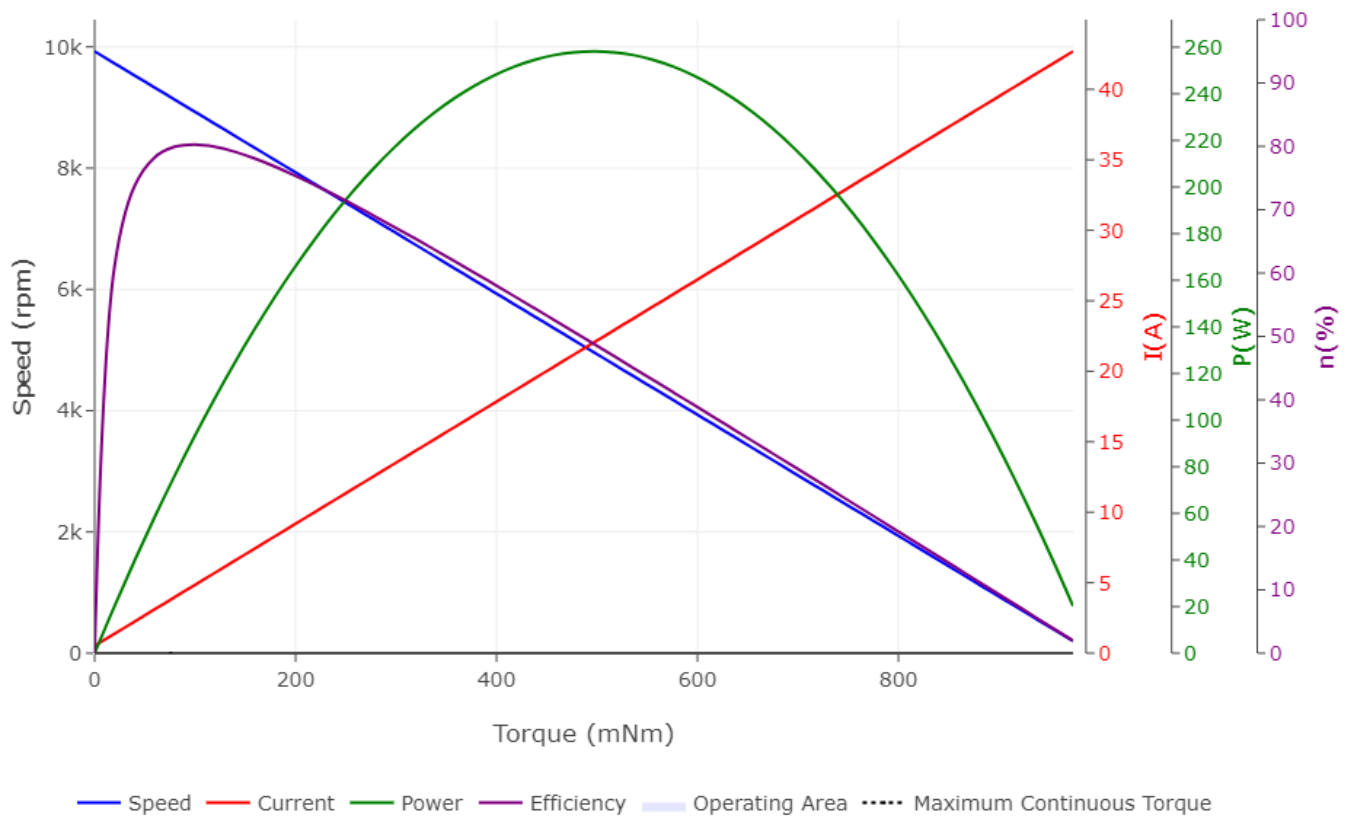
ENCODER PIN OUT

PIN #	SIGNAL	COLOR
1	WINDING 1	RED
2	WINDING 2	BLACK
3	WINDING 3	WHITE
4	3-24 VDC	GREEN
5	GND	BLUE
6	HALL IC 1	YELLOW
7	HALL IC 2	BROWN
8	HALL IC 3	GREY

PIN #	SIGNAL
1	N.C
2	VCC 4.5-5.5 V
3	GND
4	N.C
5	CHANNEL A
6	CHANNEL A
7	CHANNEL B
8	CHANNEL B
9	CHANNEL I
10	CHANNEL I

Alignment of cable relative to front mounting holes: ≤ ± 45°

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*