

# BLDC Motor Type BL42S



## Technical Data

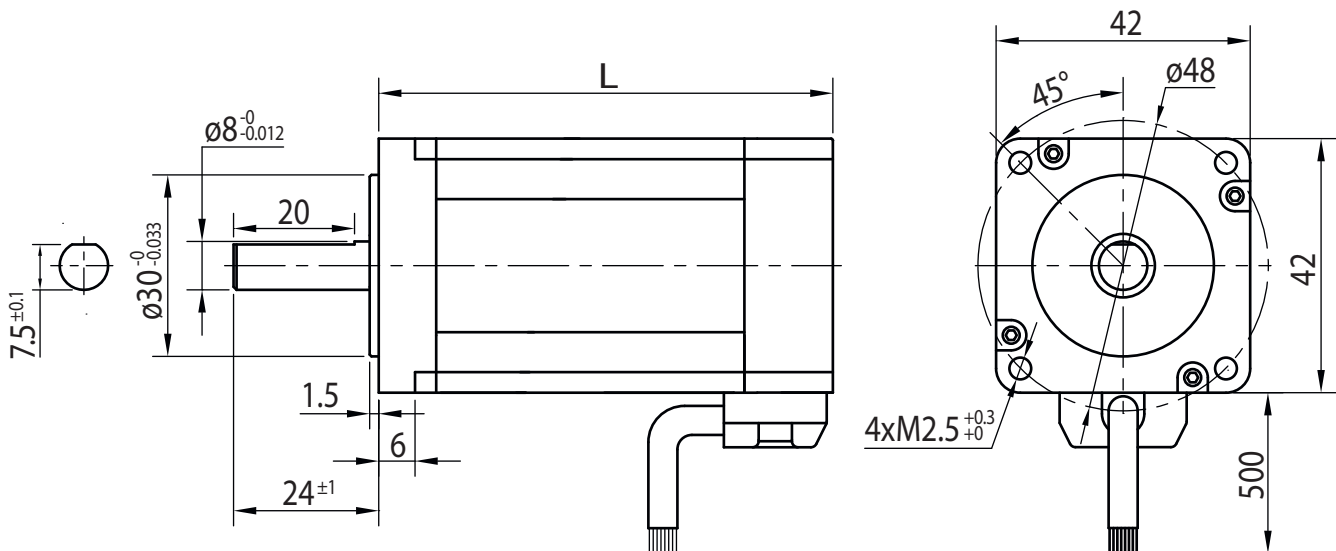
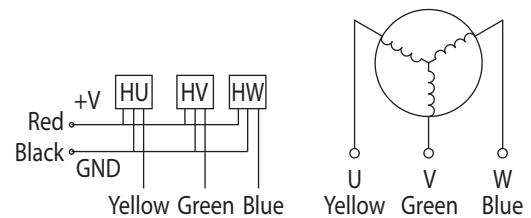
Model	BL42.47S	BL42.67S	BL42.87S
Rated Voltage (V)	48	48	48
Rated Speed (min <sup>-1</sup> )	3000	3000	3000
Rated Torque (Ncm)	10	20	30
Rated Power (W)	31	63	94
Rated Current (A)	0.87	1.74	2.61
Peak Current (A)	2.6	5.2	7.8
Peak Torque (Ncm)	30	60	90
Rotor Inertia (gcm <sup>2</sup> )	39	45	52
Torque Constant (Ncm/A)	11.5	11.5	11.5
Back EMF (V/min <sup>-1</sup> )	12	12	12
Resistance (Ω)	1.9	1.4	0.8
Inductance (mH)	1.5	1.1	0.6
Length (mm)	47	67	87
Net Weight (kg)	0.4	0.9	1.0
No. of Poles	8		
No. of Phases	3		
Insulation Class	B		

Rel. Humidity: 20 to 85% | Ambient Temp.: -20 to +50 °C

## Connections

UL1007 AWG26	
Red	Vcc
Yellow	Ha
Green	Hb
Blue	Hc
Black	GND

UL3266 AWG22	
Yellow	U
Green	V
Blue	W



## Options

Encoder	Special Shaft
Rear Shaft	Special Voltage
Connector	Insulation Class F/H