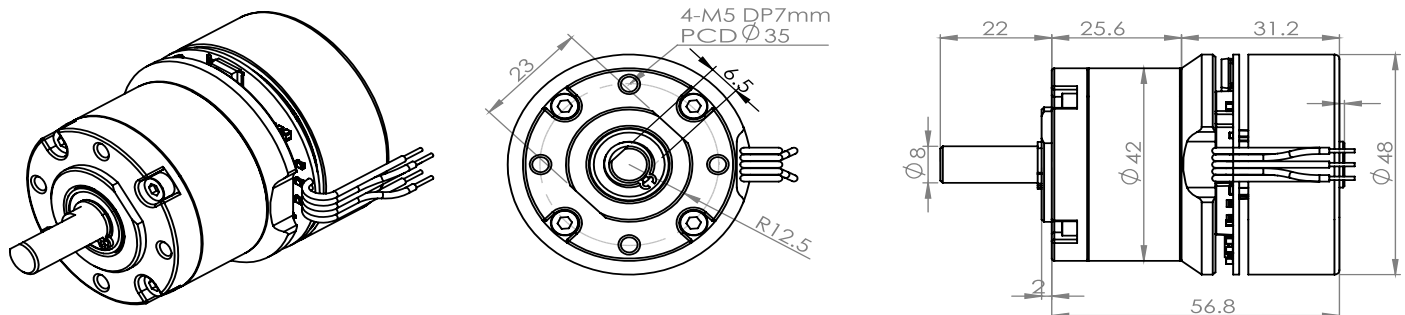


Motor, driver and gearbox are integrated in this product:



Unit : mm

## General Characteristics

### Basic Dimensions

Unit

Diameter	mm	42/48
Body length	mm	56.8
Output shaft diam.	mm	8
Output shaft length	mm	22

### Motor Features

Unit

Motor type	BLDC outrunner
Motor model	MXL4825KV200HA
Pole pairs	5
Number of phases	3

### Controller Features

Control type : Square-wave/openloop

Rated voltage: 24V(8V-25.2V)

Over Current Protection (OCP): 4.5 A

Signal voltage level: 5V

Pin definition(left to right):

1.Blue-PWM 2.Black-GND 3.Yellow-F/R 4.Green-FG 5.Red-VCC

PWM frequency: 10K -20K Hz

Frequency Generator(FG) : 5 PPR

### Gearbox Features

Unit

Gearbox model		GP48L1A
Gearbox type		Planetary
Gearbox ratio	K	3.7
Gearbox stages		1
Gearbox diameter	mm	42
Gearbox length	mm	25.6
Gearbox efficiency		80-90%
Operating torque	kg*cm	20
Brakeing torque	kg*cm	60

### Nominal & Stall

Unit

Gearbox ratio	K	3.7
Nominal voltage	V	24
Noload speed	rpm	1194
Nominal speed	rpm	1001
Nominal torque	Nm	0.4
Nominal current	A	3.0
Maximal power	W	54
Maximal efficiency		65%
Stall torque*	Nm	1.3
Stall current*	A	8

\*Attention: Stall operation is only for reference due to Over Current Protection.

\*In case specific shaft, connector, or any other features need to be customized, please visit [www.damoto.tech](http://www.damoto.tech) and contact us.