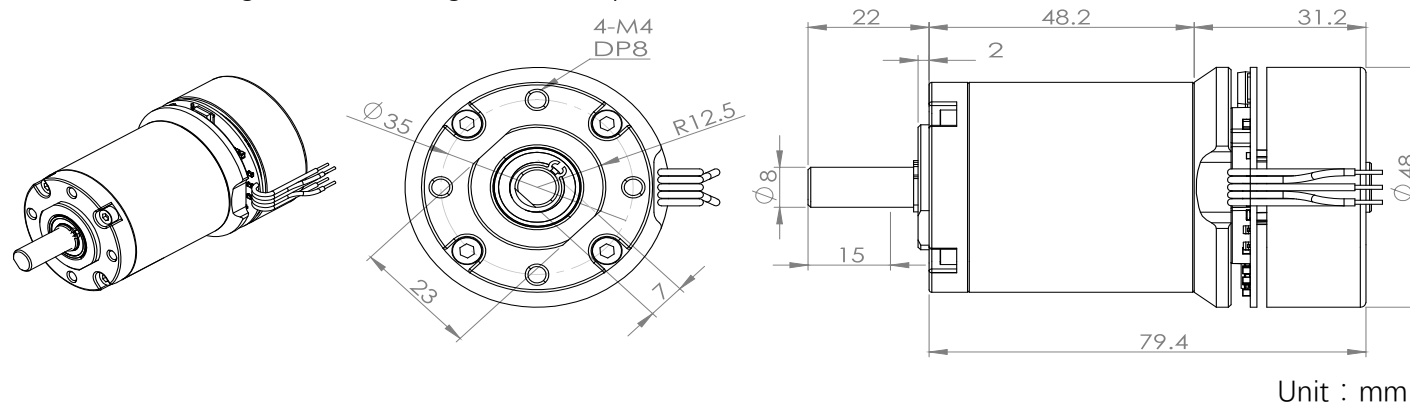


Motor, driver and gearbox are integrated in this product:



General Characteristics

Basic Dimensions

Unit

Diameter	mm	42/48
Body length	mm	79.4
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

Driver Features

Control type : Square-wave/openloop

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

Over Currunt 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	GP48L3A
Gearbox type	Planetary
Gearbox ratio	K 32.5/50.9/71.2
Gearbox stages	3
Gearbox diameter	mm 42
Gearbox length	mm 48.2
Gearbox efficiency	70%
Operating torque	kg*cm 120
Brakeing torque	kg*cm 360

Nominal & Stall

Unit

Gearbox ratio	K	32.5	32.5	50.9	50.9	71.2	71.2
Nominal voltage	V	12	24	12	24	12	24
Noload speed	rpm	68	136	43	87	31	62
Nominal speed	rpm	53	114	34	73	24	52
Nominal torque	Nm	2.6	3.5	4.1	5.5	5.8	7.7
Nominal current	A	2.0	2.8	2.0	2.8	2.0	2.8
Maximal power	W	20	54	20	54	20	54
Maximal efficiency		51%	53%	51%	53%	51%	53%
Stall torque*	Nm	9	12	14	18	19	26
Stall current*	A	6	8	6	8	6	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 and contact us.