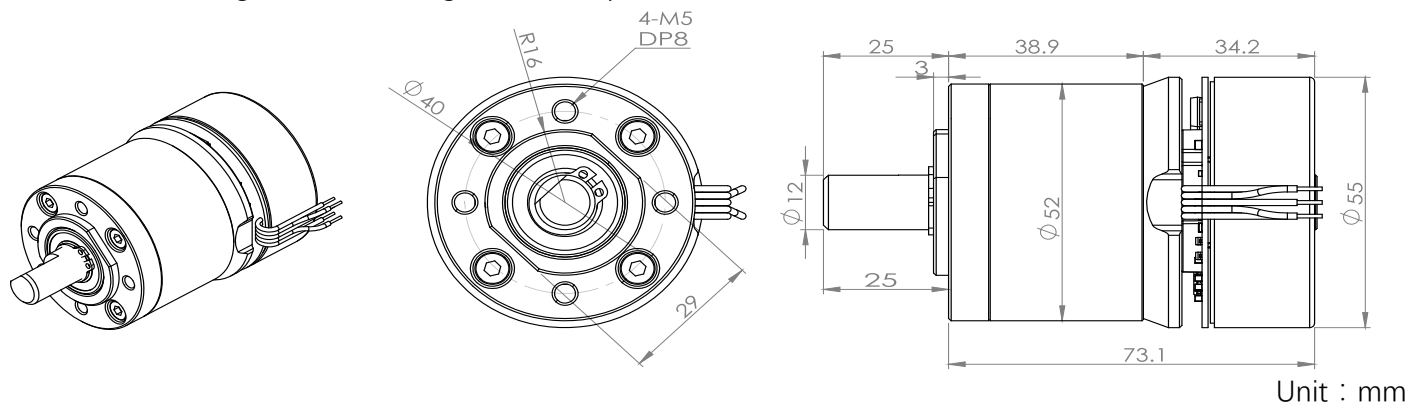


Motor, driver and gearbox are integrated in this product:



Unit : mm

General Characteristics

Basic Dimensions

Unit

Diameter	mm	52/55
Body length	mm	73.1
Output shaft diam.	mm	12
Output shaft length	mm	25

Motor Features

Unit

Motor type	BLDC outrunner
Motor model	MXL5520KV190HA
Pole pairs	5
Number of phases	3

Controller Features

Control type :	Square-wave/openloop
Rated voltage:	24V(8V-25V)
Over Currunt Protection (OCP)	9 A
Signal voltage level:	5V

Pin definition(left to right):

1.PWM 2.GND 3.F/R 4.-FG 5.VCC

PWM frequency:	10K -20K Hz
Frequency Generator(FG) :	5 PPR

Gearbox Features

Unit

Gearbox model	GP52L2A
Gearbox type	Planetary
Gearbox ratio	K 13.7/19.2/26.9
Gearbox stages	2
Gearbox diameter	mm 52
Gearbox length	mm 38.9
Gearbox efficiency	80%
Operating torque	kg*cm 80
Brakeing torque	kg*cm 240

Nominal & Stall

Unit

Gearbox ratio	K	13.7	19.2	26.9
Nominal voltage	V	24	24	24
Noload speed	rpm	309	220	157
Nominal speed	rpm	236	168	120
Nominal torque	Nm	2.8	3.9	5.4
Nominal current	A	5.4	5.5	5.6
Maximal power	W	81	81	81
Maximal efficiency		62%	62%	62%
Stall torque*	Nm	6.6	9.2	12.9
Stall current*	A	12	12	12

*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.