



Basic Dimensions Unit Motor Diameter mm 52/55 Motor ty Death Jonath 61.5 Motor ty

Diameter	mm	52/55
Body length	mm	61.5
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

Driver Features

General Characteris

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

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	3.7
Gearbox stages		1
Gearbox diameter	mm	52
Gearbox length	mm	27.3
Gearbox efficiency		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	1144
Nominal speed	rpm	873
Nominal torque	Nm	0.7
Nominal current	Α	5.5
Maximal power	W	81
Maximal efficiency		65%
Stall torque*	Nm	1.8
Stall current*	Α	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.