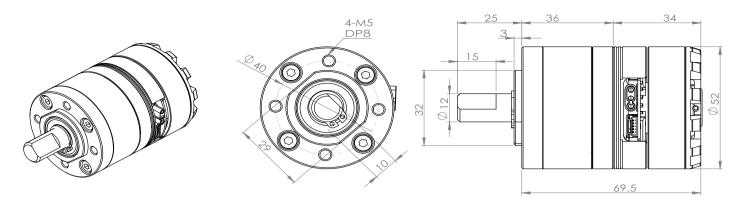
Unit: mm



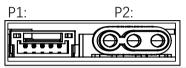


Signal connector: GH1.25-F-5P

Signal cable : GH5P-M-28AWG-15cm

Phase connector: MR30PW-F

Phase cable: MR30-M-20AWG-15cm



Pin definition(left to right):

P1: 1.HW 2.HV 3.HU 4.VCC 5.GND P2: 1.W 2.V 3.U

### **General Characteris**

<b>Basic Dimensions</b>	Unit	Motor Features	Unit
Dasic Diffiensions	Unit	wotor reatures	U

Diameter	mm	52	ı
Body length	mm	69.5	
Output shaft diam.	mm	12	ı
Output shaft length	mm	25	Ī

Motor type	BLDC outrunner
Motor model	MX4210KV150HA
Pole pairs	7
Number of phases	3

\*For more motor features please refer datasheet "MX4210KV150HA".

## **Gearbox Features** Unit

Gearbox model		GP52L2A
Gearbox type		Planetary
Gearbox ratio	K	3.7
Gearbox levels		1
Gearbox diameter	mm	52
Gearbox length	mm	36
Gearbox efficiency		90%
Operating torque	kg*cm	80
Brakeing torque	kg*cm	240

## Nominal & Stall Unit

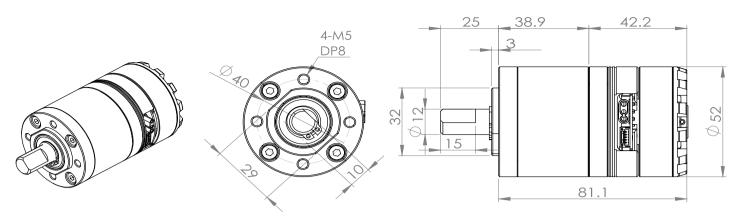
Gearbox ratio	K	3.7	3.7
Nominal voltage	V	24	48
Noload speed	rpm	973	1946
Nominal speed	rpm	689	1568
Nominal torque	Nm	1.0	1.5
Nominal current	Α	4.6	6.5
Maximal power	W	81	270
Maximal efficiency		77%	77%
Stall torque	Nm	2.5	4.8
Stall current	Α	11.5	25

<sup>\*</sup>Attention: Stall operation is not recommended, please do necessary protection to avoid irreparable damage!

<sup>\*</sup>In case specific shaft, connector, or any other features need to be customized, please visit www.damoto.tech and contact us.

Unit: mm





Signal connector: GH1.25-F-5P

Signal cable : GH5P-M-28AWG-15cm

Phase connector: MR30PW-F

Phase cable: MR30-M-20AWG-15cm

P1: P2:

Pin definition(left to right):

P1: 1.HW 2.HV 3.HU 4.VCC 5.GND P2: 1.W 2.V 3.U

### **General Characteris**

## **Basic Dimensions** Unit

Diameter	mm	52
Body length	mm	81.1
Output shaft diam.	mm	12
Output shaft length	mm	25

## Motor Features Unit

Motor type	BLDC outrunner
Motor model	MX4210KV150HA
Pole pairs	7
Number of phases	3

\*For more motor features please refer datasheet "MX4210KV150HA".

## **Gearbox Features** Unit

Gearbox model		GP52L2A
Gearbox type		Planetary
Gearbox ratio	K	13.7/19.2
Gearbox levels		2
Gearbox diameter	mm	52
Gearbox length	mm	38.9
Gearbox efficiency		90%
Operating torque	kg*cm	80
Brakeing torque	kg*cm	240

# Nominal & Stall Unit

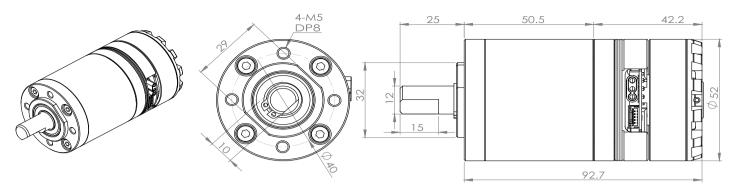
Gearbox ratio	K	13.7	19.2	13.7	19.2	
Nominal voltage	V	24	24	48	48	
Noload speed	rpm	263	188	526	375	
Nominal speed	rpm	186	133	423	302	
Nominal torque	Nm	3.8	5.4	5.5	7.7	
Nominal current	Α	4.6	4.6	6.5	6.5	
Maximal power	W	81	81	270	270	
Maximal efficiency		77%	77%	77%	77%	
Stall torque	Nm	9.2	12.9	17.8	25.0	
Stall current	Α	11.5	11.5	25	25	

<sup>\*</sup>Attention: Stall operation is not recommended, please do necessary protection to avoid irreparable damage!

<sup>\*</sup>In case specific shaft, connector, or any other features need to be customized, please visit www.damoto.tech and contact us.

Unit: mm





Signal connector: GH1.25-F-5P

Signal cable: GH5P-M-28AWG-15cm

Phase connector: MR30PW-F

Phase cable: MR30-M-20AWG-15cm



Pin definition(left to right):

P1: 1.HW 2.HV 3.HU 4.VCC 5.GND P2: 1.W 2.V 3.U

### **General Characteris**

<b>Basic Dimensions</b> Unit	Motor Features	Unit
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Diameter	mm	52
Body length	mm	92.7
Output shaft diam.	mm	12
Output shaft length	mm	25

Motor typeBLDC outrunnerMotor modelMX4210KV150HAPole pairs7Number of phases3

\*For more motor features please refer datasheet "MX4210KV150HA".

### **Gearbox Features** Unit

Gearbox model		GP52L2A
Gearbox type		Planetary
Gearbox ratio	K	50.9/71.2
Gearbox levels		3
Gearbox diameter	mm	52
Gearbox length	mm	50.5
Gearbox efficiency		90%
Operating torque	kg*cm	80
Brakeing torque	kg*cm	240

### Nominal & Stall Unit

Gearbox ratio	K	50.9	71.2	
Nominal voltage	V	24	24	
Noload speed	rpm	71	51	
Nominal speed	rpm	50	36	
Nominal torque	Nm	14.3	19.9	
Nominal current	Α	4.6	4.6	
Maximal power	W	81	81	
Maximal efficiency		77%	77%	
Stall torque*	Nm	34.1	47.7	
Stall current*	Α	11.5	11.5	

<sup>\*</sup>Attention: Stall operation is not recommended, please do necessary protection to avoid irreparable damage!

<sup>\*</sup>In case specific shaft, connector, or any other features need to be customized, please visit www.damoto.tech and contact us.