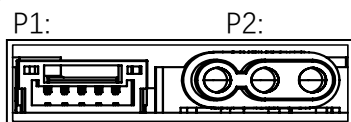


Signal connector: GH1.25-F-5P  
Signal cable : GH5P-M-28AWG-15cm  
Phase connector : MR30PW-F  
Phase cable: MR30-M-18AWG-15cm



Pin definition(left to right):

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

Unit : mm

## General Characteristics

### Basic Dimensions Unit

Diameter	mm	56/62
Body length	mm	68
Output shaft diam.	mm	12
Output shaft length	mm	28

### Motor Features Unit

Motor type	BLDC outrunner
Motor model	MX5310KV100HA
Pole pairs	7
Number of phases	3
*For more motor features please refer datasheet "MX5310KV100HA".	

### Gearbox Features Unit

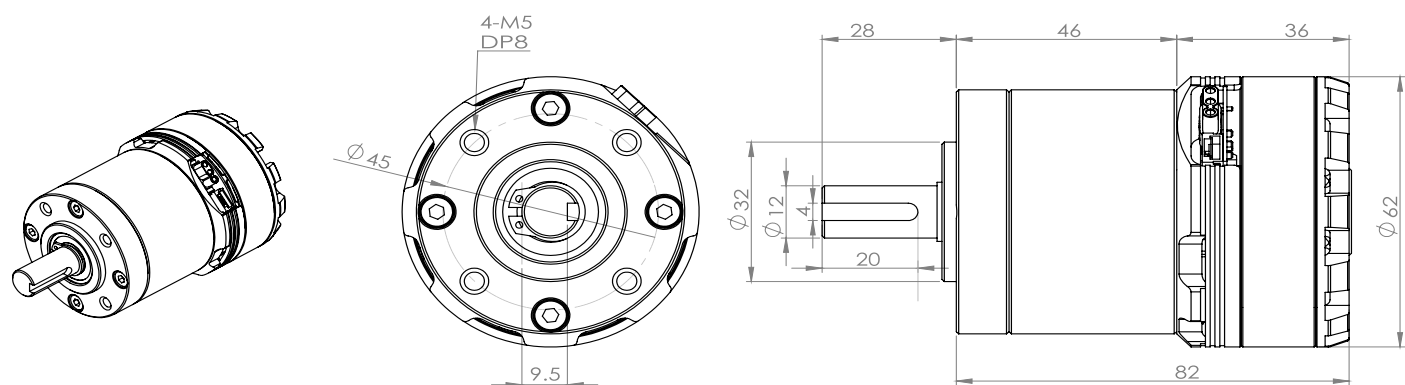
Gearbox model		GP56L1A
Gearbox type		Planetary
Gearbox ratio	K	3.6
Gearbox levels		1
Gearbox diameter	mm	56
Gearbox length	mm	32
Gearbox efficiency		90%
Operating torque	kg*cm	40
Brakeing torque	kg*cm	100

### Nominal & Stall Unit

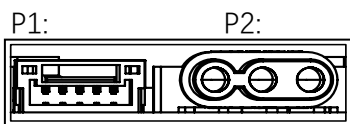
Gearbox ratio	K	3.6
Nominal voltage	V	24
Noload speed	rpm	636
Nominal speed	rpm	475
Nominal torque	Nm	1.5
Nominal current	A	5.3
Maximal power	W	90
Maximal efficiency		73%
Stall torque	Nm	5
Stall current	A	16

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

\*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.



Signal connector: GH1.25-F-5P  
Signal cable : GH5P-M-28AWG-15cm  
Phase connector : MR30PW-F  
Phase cable: MR30-M-18AWG-15cm



Pin definition(left to right):

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

Unit : mm

## General Characteristics

### Basic Dimensions Unit

Diameter	mm	56/62
Body length	mm	82
Output shaft diam.	mm	12
Output shaft length	mm	28

### Motor Features Unit

Motor type	BLDC outrunner		
Motor model	MX5310KV100HA		
Pole pairs			7
Number of phases			3

\*For more motor features please refer datasheet "MX5310KV100HA".

### Gearbox Features Unit

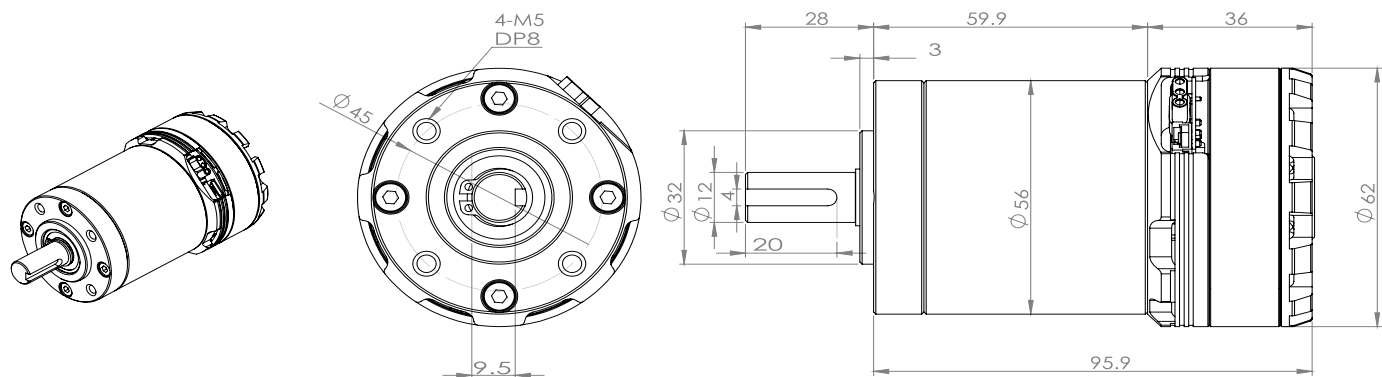
Gearbox model	GP56L2A	
Gearbox type	Planetary	
Gearbox ratio	K	13/19.2
Gearbox levels	2	
Gearbox diameter	mm	56
Gearbox length	mm	46
Gearbox efficiency	80%	
Operating torque	kg*cm	200
Brakeing torque	kg*cm	600

### Nominal & Stall Unit

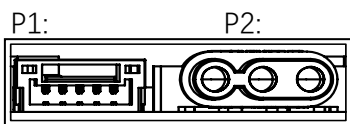
Gearbox ratio	K	13	19.2
Nominal voltage	V	24	24
Noload speed	rpm	176	119
Nominal speed	rpm	132	89
Nominal torque	Nm	5.3	7.8
Nominal current	A	5.3	5.3
Maximal power	W	90	90
Maximal efficiency		73%	73%
Stall torque*	Nm	20	29
Stall current*	A	16	16

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Signal connector: GH1.25-F-5P  
Signal cable : GH5P-M-28AWG-15cm  
Phase connector : MR30PW-F  
Phase cable: MR30-M-18AWG-15cm



Pin definition(left to right):

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

Unit : mm

## General Characteristics

### Basic Dimensions Unit

Diameter	mm	56/62
Body length	mm	95.9
Output shaft diam.	mm	12
Output shaft length	mm	28

### Motor Features Unit

Motor type	BLDC outrunner
Motor model	MX5310KV100HA
Pole pairs	7
Number of phases	3

\*For more motor features please refer datasheet "MX5310KV100HA".

### Gearbox Features Unit

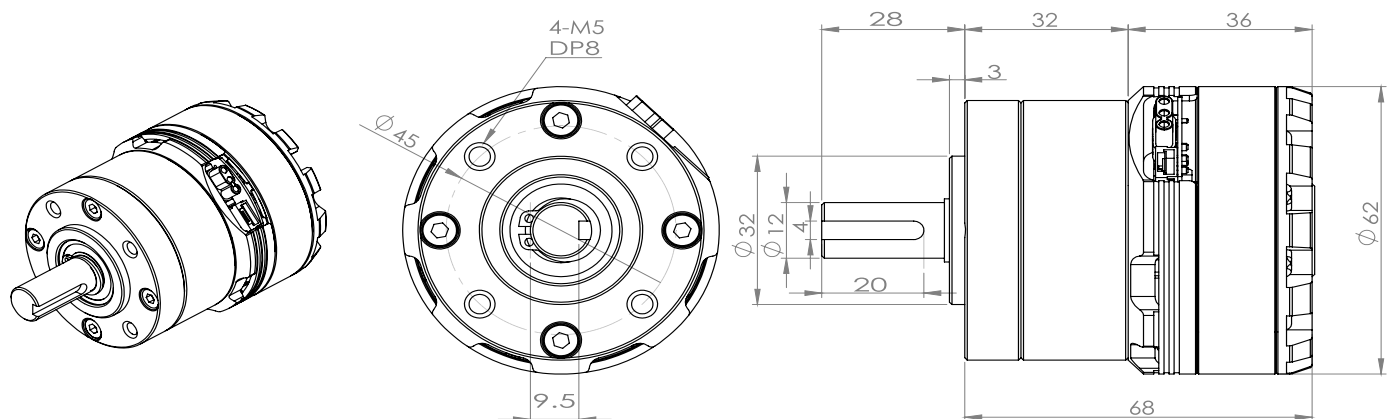
Gearbox model	GP56L3A
Gearbox type	Planetary
Gearbox ratio	K 46.7/69
Gearbox levels	3
Gearbox diameter	mm 56
Gearbox length	mm 59.9
Gearbox efficiency	80-90%
Operating torque	kg*cm 400
Brakeing torque	kg*cm 1200

### Nominal & Stall Unit

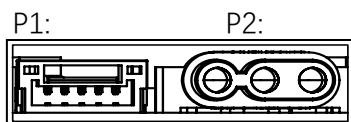
Gearbox ratio	K	46.7	69
Nominal voltage	V	24	24
Noload speed	rpm	49	33
Nominal speed	rpm	37	25
Nominal torque	Nm	18.9	27.9
Nominal current	A	5.3	5.3
Maximal power	W	90	90
Maximal efficiency		73%	73%
Stall torque	Nm	70	104
Stall current	A	16	16

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Signal connector: GH1.25-F-5P  
 Signal cable : GH5P-M-28AWG-15cm  
 Phase connector : MR30PW-F  
 Phase cable: MR30-M-18AWG-15cm



Pin definition(left to right):

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

Unit : mm

## General Characteristics :

### Basic Dimensions Unit

Diameter	mm	56/62
Body length	mm	68
Output shaft diam.	mm	12
Output shaft length	mm	28

### Motor Features Unit

Motor type	BLDC outrunner
Motor model	MX5310KV200HA
Pole pairs	7
Number of phases	3

\*For more motor features please refer datasheet "MX5310KV200HA".

### Gearbox Features Unit

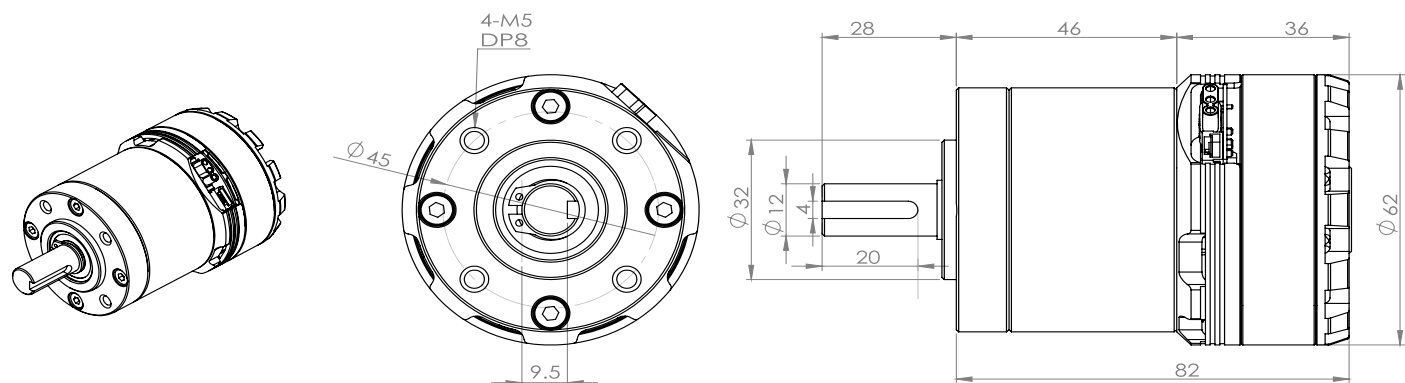
Gearbox model		GP56L1A
Gearbox type		Planetary
Gearbox ratio	K	3.6
Gearbox levels		1
Gearbox diameter	mm	56
Gearbox length	mm	32
Gearbox efficiency		90%
Operating torque	kg*cm	40
Brakeing torque	kg*cm	100

### Nominal & Stall Unit

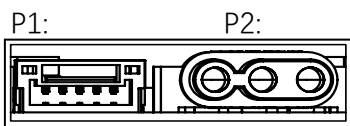
Gearbox ratio	K	3.6
Nominal voltage	V	24
Noload speed	rpm	1227
Nominal speed	rpm	950
Nominal torque	Nm	1.5
Nominal current	A	14.3
Maximal power	W	250
Maximal efficiency		73%
Stall torque*	Nm	6
Stall current*	A	45

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Signal connector: GH1.25-F-5P  
Signal cable : GH5P-M-28AWG-15cm  
Phase connector : MR30PW-F  
Phase cable: MR30-M-18AWG-15cm



Pin definition(left to right):

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

Unit : mm

## General Characteristics

### Basic Dimensions Unit

Diameter	mm	56/62
Body length	mm	82
Output shaft diam.	mm	12
Output shaft length	mm	28

### Motor Features Unit

Motor type	BLDC outrunner		
Motor model	MX5310KV200HA		
Pole pairs			7
Number of phases			3

\*For more motor features please refer datasheet "MX5310KV200HA".

### Gearbox Features Unit

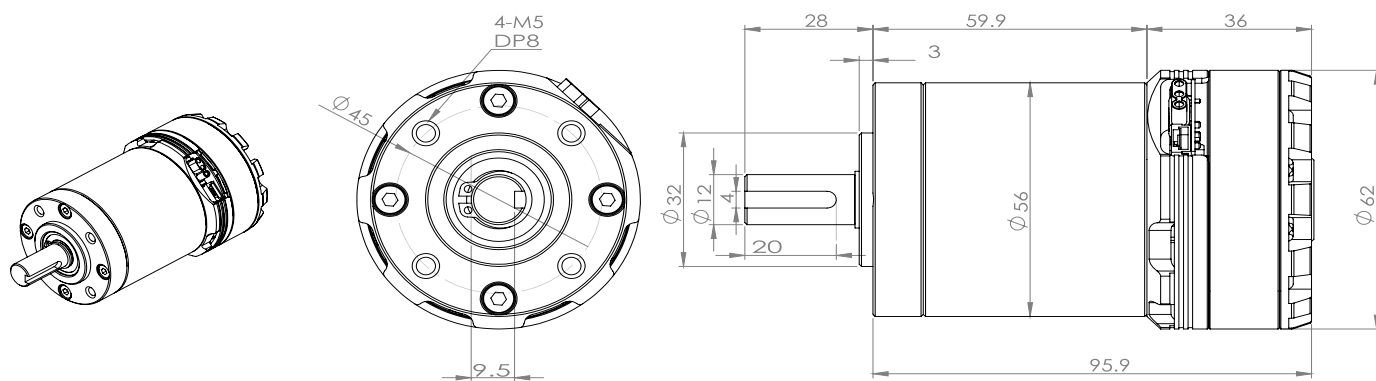
Gearbox model	GP56L2A	
Gearbox type	Planetary	
Gearbox ratio	K	13/19.2
Gearbox levels	2	
Gearbox diameter	mm	56
Gearbox length	mm	46
Gearbox efficiency	80%	
Operating torque	kg*cm	200
Brakeing torque	kg*cm	600

### Nominal & Stall Unit

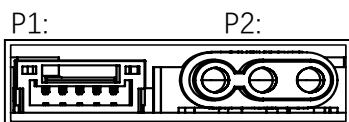
Gearbox ratio	K	13	19.2
Nominal voltage	V	24	24
Noload speed	rpm	340	230
Nominal speed	rpm	263	178
Nominal torque	Nm	5.3	7.8
Nominal current	A	14.3	14.3
Maximal power	W	250	250
Maximal efficiency		73%	73%
Stall torque*	Nm	23	35
Stall current*	A	45	45

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Signal connector: GH1.25-F-5P  
Signal cable : GH5P-M-28AWG-15cm  
Phase connector : MR30PW-F  
Phase cable: MR30-M-18AWG-15cm



Unit : mm

Pin definition(left to right):

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

## General Characteristics :

### Basic Dimensions Unit

Diameter	mm	56/62
Body length	mm	95.9
Output shaft diam.	mm	12
Output shaft length	mm	28

### Motor Features Unit

Motor type	BLDC outrunner
Motor model	MX5310KV200HA
Pole pairs	7
Number of phases	3

\*For more motor features please refer datasheet "MX5310KV200HA".

### Gearbox Features Unit

Gearbox model		GP56L3A
Gearbox type		Planetary
Gearbox ratio	K	46.7/69
Gearbox levels		3
Gearbox diameter	mm	56
Gearbox length	mm	59.9
Gearbox efficiency		70%
Operating torque	kg*cm	400
Brakeing torque	kg*cm	1200

### Nominal & Stall Unit

Gearbox ratio	K	46.7	69
Nominal voltage	V	24	24
Noload speed	rpm	95	64
Nominal speed	rpm	73	50
Nominal torque	Nm	19	27.9
Nominal current	A	14	14.3
Maximal power	W	250	250
Maximal efficiency		60%	60%
Stall torque*	Nm	84	124
Stall current*	A	45	45

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