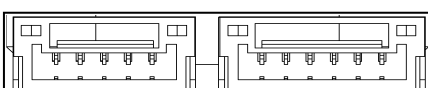


Unit: mm

P1 (5 PIN):

P2(6 PIN):



Pin definition(left to right):

**P1:** 1.HW 2.HV 3.HU 4.VCC 5.GND **P2:** 1.W 2.W 3.V 4.V 5.U 6.U

Signal Connector (P1):	GH1.25-F-5P
Signal Cable :	GH5P-M-28AWG-15cm
Phase connector (P2):	GH1.25-F-6P
Cable :	GH6P-M-28AWG-15cm

### General Characteristics

#### Basic Dimensions Unit

Diameter	mm	36
Body length	mm	55
Output shaft diameter	mm	8
Output shaft length	mm	21.45

#### Motor Features Unit

Motor type	BLDC outrunner
Motor model	MX2810KV200HA
Pole pairs	7
Number of phases	3
*For more motor features please refer datasheet "MX2210KV360HA".	

#### Gearbox Features Unit

Gearbox model		GP36L1A
Gearbox type		Planetary
Gearbox ratio	K	3.7
Gearbox levels		1
Gearbox diameter	mm	36
Gearbox length	mm	25
Gearbox efficiency		90%
Operating torque	kg*cm	10
Braking torque	kg*cm	30

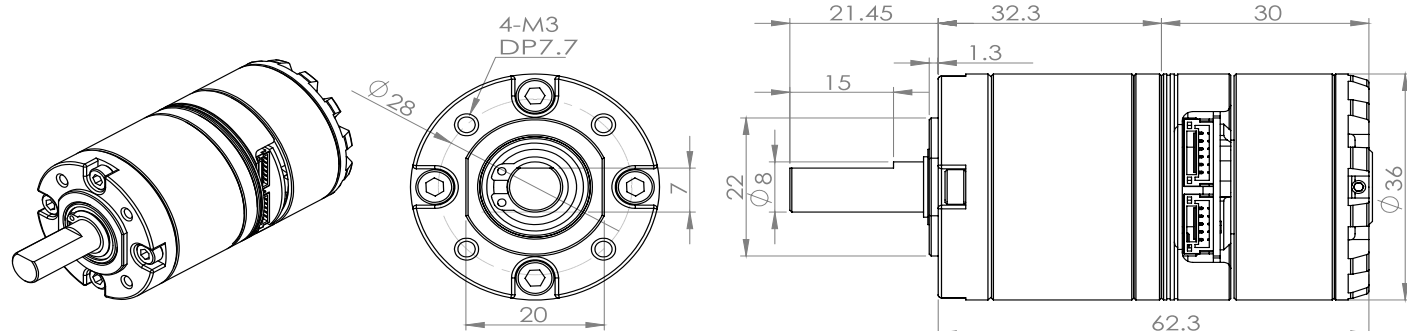
#### Nominal & Stall Unit

Gearbox ratio	K	3.7	3.7
Nominal voltage	V	12	24
Noload speed	rpm	649	1297
Nominal speed	rpm	486	919
Nominal torque	Nm	0.2	0.3
Nominal current	A	1.1	2.1
Maximal power	W	11	34
Maximal efficiency		75%	77%
Stall torque	Nm	0.6	0.9
Stall current	A	3.5	5.5

\* Ratio 26.9 is prototype. Please contact us before ordering.

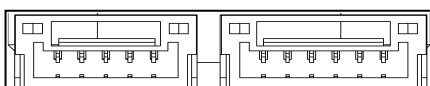
\*Attention: Stall operation is not recommended, please do necessary protection to avoid irreparable damage!

 \*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.



P1 (5 PIN):

P2(6 PIN):



Pin definition(left to right):

**P1:** 1.HW 2.HV 3.HU 4.VCC 5.GND **P2:** 1.W 2.W 3.V 4.V 5.U 6.U

Signal Connector (P1): GH1.25-F-5P

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

Phase connector (P2): GH1.25-F-6P

Cable : GH6P-M-28AWG-15cm

### General Characteristics

Basic Dimensions	Unit	
Diameter	mm	36
Body length	mm	62.3
Output shaft diameter	mm	8
Output shaft length	mm	21.45

Motor Features	Unit	
Motor type		BLDC outrunner
Motor model		MX2810KV200HA
Pole pairs		7
Number of phases		3
*For more motor features please refer datasheet "MX2210KV360HA".		

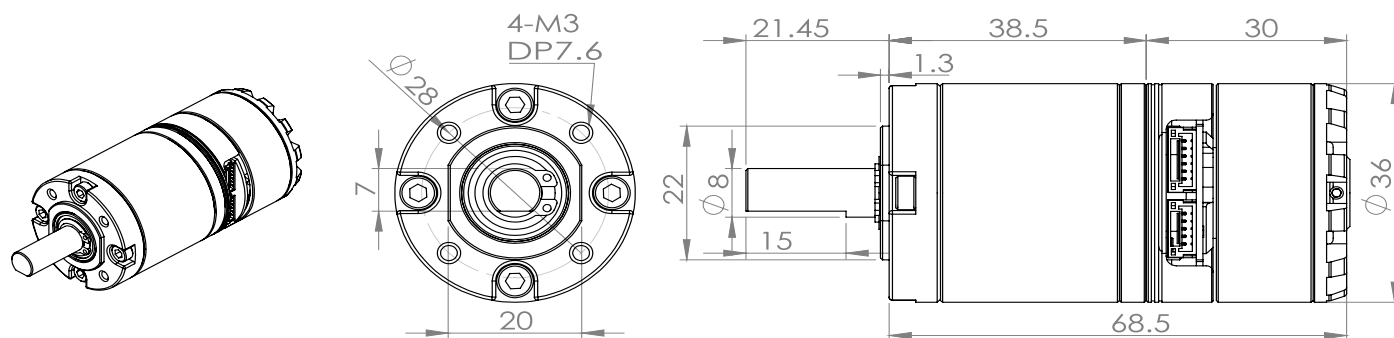
Gearbox Features	Unit	
Gearbox model		GP36L2A
Gearbox type		Planetary
Gearbox ratio	K	13.7/19.2/26.9*
Gearbox levels		2
Gearbox diameter	mm	36
Gearbox length	mm	32.3
Gearbox efficiency		80%
Operating torque	kg*cm	20
Braking torque	kg*cm	60

Nominal & Stall	Unit						
Gearbox ratio	K	14	19.2	26.9	13.7	19.2	26.9
Nominal voltage	V	12	12	12	24	24	24
Noload speed	rpm	175	125	89	350	250	178
Nominal speed	rpm	131	94	67	248	177	126
Nominal torque	Nm	0.6	0.9	1.3	1.3	1.8	2.5
Nominal current	A	1.1	1.1	1.1	2.1	2.1	2.1
Maximal power	W	11	11	11	34	34	34
Maximal efficiency		66%	66%	66%	69%	69%	69%
Stall torque	Nm	2.2	3.1	4.3	3.2	4.4	6.2
Stall current	A	3.5	3.5	3.5	5.5	5.5	5.5

\* Ratio 26.9 is prototype. Please contact us before ordering.

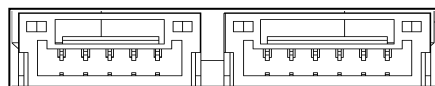
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P1 (5 PIN):

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Pin definition(left to right):

**P1:** 1.HW 2.HV 3.HU 4.VCC 5.GND **P2:** 1.W 2.W 3.V 4.V 5.U 6.U

Signal Connector (P1): GH1.25-F-5P

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

Phase connector (P2): GH1.25-F-6P

Cable : GH6P-M-28AWG-15cm

### General Characteristics :

Basic Dimensions	Unit	
Diameter	mm	36
Body length	mm	68.5
Output shaft diameter	mm	8
Output shaft length	mm	21.45

Motor Features	Unit	
Motor type		BLDC outrunner
Motor model		MX2810KV200HA
Pole pairs		7
Number of phases		3
*For more motor features please refer datasheet "MX2810KV200HA".		

Gearbox Features	Unit	
Gearbox model		GP36L3A
Gearbox type		Planetary
Gearbox ratio	K	50.9/71.2
Gearbox levels		3
Gearbox diameter	mm	36
Gearbox length	mm	38.5
Gearbox efficiency		70%
Operating torque	kg*cm	50
Braking torque	kg*cm	150

Nominal & Stall	Unit				
Gearbox ratio	K	50.9	71.2	50.9	71.2
Nominal voltage	V	12	12	24	24
Noload speed	rpm	47.2	33.7	94.3	67.4
Nominal speed	rpm	35	25	67	48
Nominal torque	Nm	2.4	3.3	4.7	6.6
Nominal current	A	1.1	1.1	2.1	2.1
Maximal power	W	11	11	34	34
Maximal efficiency		58%	58%	60%	60%
Stall torque*	Nm	8.1	11.4	11.7	16.4
Stall current*	A	3.5	3.5	5.5	5.5

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