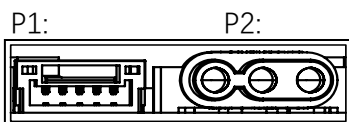


Signal connector: GH1.25-F-5P  
Signal cable : GH5P-M-28AWG-15cm  
Phase connector : MR30PW-F  
Phase cable: MR30-M-20AWG-15cm



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	52
Body length	mm	69.5
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	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	A	4.6	6.5
Maximal power	W	81	270
Maximal efficiency		77%	77%
Stall torque	Nm	2.5	4.8
Stall current	A	11.5	25

\*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.