



Signal connector (P1): GH1.25-F-5P
 Signal cable : GH5P-M-28AWG-15cm
 Phase connector (P2) : AMASS MR30PW-F
 Phase cable: MR30-M-20AWG-15cm

P1: P2: 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

General Features Unit

Diameter		42
Body length	mm	86.4
Output shaft diam.	mm	8
Output shaft length	mm	22

Motor Features

Motor type	BLDC outrunner
Motor model	MX3310KV200HA
Pole pairs	7
Number of phases	3

*For more motor features please refer datasheet "MX3310KV200HA".

Gearbox Features Unit

Gearbox model	GP42L2A
Gearbox type	Planetary
Gearbox ratio	K 32.5/50.9/71.2
Gearbox stages	3
Gearbox diameter	mm 42
Gearbox length	mm 37.9
Gearbox efficiency	70%
Operating torque	kg*cm 120
Braking torque	kg*cm 360

Nominal & Stall Unit

Gearbox ratio	K	32.5	32.5	50.9	50.9	71.2	71.2
Nominal voltage	V	12	24	12	24	12	24
Noload speed	rpm	73.8	148	47.2	94.3	33.7	67.4
Nominal speed	rpm	46	105	29	67	21	48
Nominal torque	Nm	3.3	5.9	5.1	9.2	7.1	12.8
Nominal current	A	2.42	4.07	2.42	4.07	2.42	4.07
Maximal power	W	18	63	18	63	18	63
Maximal efficiency		56%	60%	56%	60%	56%	60%
Stall torque*	Nm	10	13	15	20	21	28
Stall current*	A	6.5	9	6.5	9	6.5	9

*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 and contact us.