



Signal connector (P1):	GH1.25-F-5P
Signal cable:	GH5P-M-28AWG-15cm
Phase connector (P2):	AMASS MR30PW-F
Phase cable:	MR30-M-22AWG-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 Characteris

General Features Unit

Diameter	42
Body length	mm 76.1
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 10.2/13.7/19.2
Gearbox levels	2
Gearbox diameter	mm 42
Gearbox length	mm 37.9
Gearbox efficiency	85%
Operating torque	kg*cm 60
Braking torque	kg*cm 180

Nominal & StallUnit

Gearbox ratio	K	10.2	10.2	13.7	13.7	19.2	19.2
Nominal voltage	V	12	24	12	24	12	24
Noload speed	rpm	235	471	175	350	125	250
Nominal speed	rpm	147	333	109	248	78	177
Nominal torque	Nm	1.0	1.8	1.4	2.5	1.9	3.5
Nominal current	A	2.4	4.1	2.4	4.1	2.4	4.1
Maximal power	W	18	63	18	63	18	63
Maximal efficiency		68%	73%	68%	73%	68%	73%
Stall torque*	Nm	3	4	4	5	6	8
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.