



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 Characteristics

General Features

Diameter	Unit	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

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 & Stall

Gearbox ratio	K	10.2	10.2	10.2	13.7	13.7	13.7	19.2	19.2
Nominal voltage	V	12	24	48	12	24	48	12	24
Noload speed	rpm	235	471	941	175	350	701	125	250
Nominal speed	rpm	147	333	765	109	248	569	78	177
Nominal torque	Nm	1.0	1.8	3.6	1.4	2.5	4.8	1.9	3.5
Nominal current	A	2.4	4.1	7.9	2.4	4.1	7.9	2.4	4.1
Maximal power	W	18	63	216	18	63	216	18	63
Maximal efficiency		68%	73%	73%	68%	73%	73%	68%	73%
Stall torque*	Nm	3	4	8	4	5	10	6	8
Stall current*	A	6.5	9	20	6.5	9	20	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.