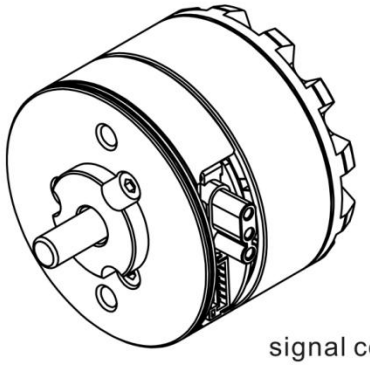
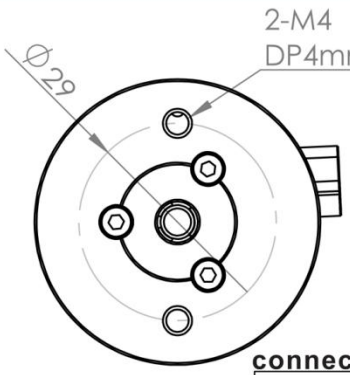
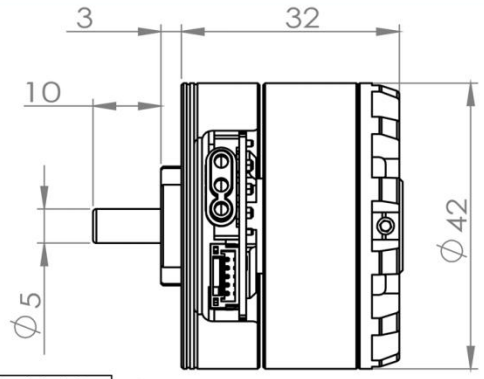
MX3310KV125HA







signal connector : GH1.25-F-5P
recommended signal cable :
GH5P-M-28AWG-15CM

connector:



phase connector : MR30PW-F
recommended power cable :
MR30-M-22AWG-15CM

General Characteristics:

Motor Configuration

Mechanical structure		outrunner	Ingress protection		IP 44
Number of pole pairs		7	Speed constant	KV	125
Number of phases		3	Torque constant	mN/A	45
Winding connection		star	Single phase resist.	Ohm	1.75
Total weight	gram	130	DQ inductance	uH	450
Rotor inertia	$uNm*s^2$	2.7	Friction	uN*m*s	0.5

Thermal Data

Thermal resistance housing-ambient	4.8K/W
Thermal resistance winding-housing	7.1K/W
Ambient temperature	-40~100 °C
Max. winding temperature	120 °C

Sensoric

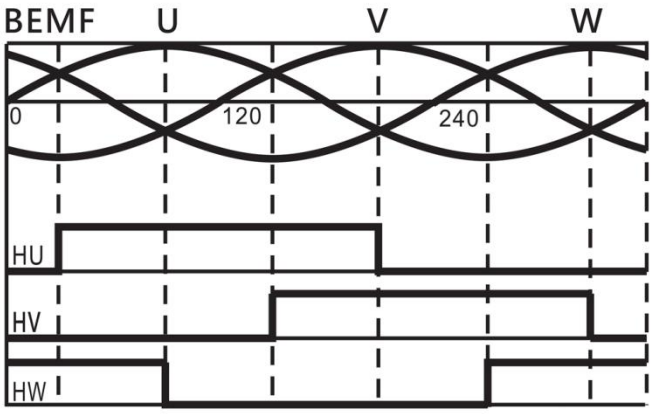
Sensor type	bipolar self-locking hall
Number of halls	3
Supply voltage	5V
Electrical angle	120 degrees

Nominal & Stall

Nominal voltage	V	12	24	48
No load speed	rpm	1500	3000	6000
Noload current	mA	90	150	300
Nominal speed	rpm	1100	2100	4200
Nominal torque	mNm	54	117	200
Nominal current	A	0.8	1.6	3
Max. power	W	8	30	110
Max. efficiency		80%	82%	85%
Stall torque	mNm	300	320	500
Stall current	A	3.5	4.5	8.4

Hall sequence regards to back EMF

Tested in CCW direction



Pull-up resistance	yes

ATTENTION: Stall operation is not recommended. Please do necessary protection to avoid irreparable damage.