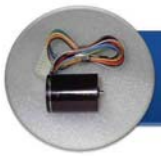


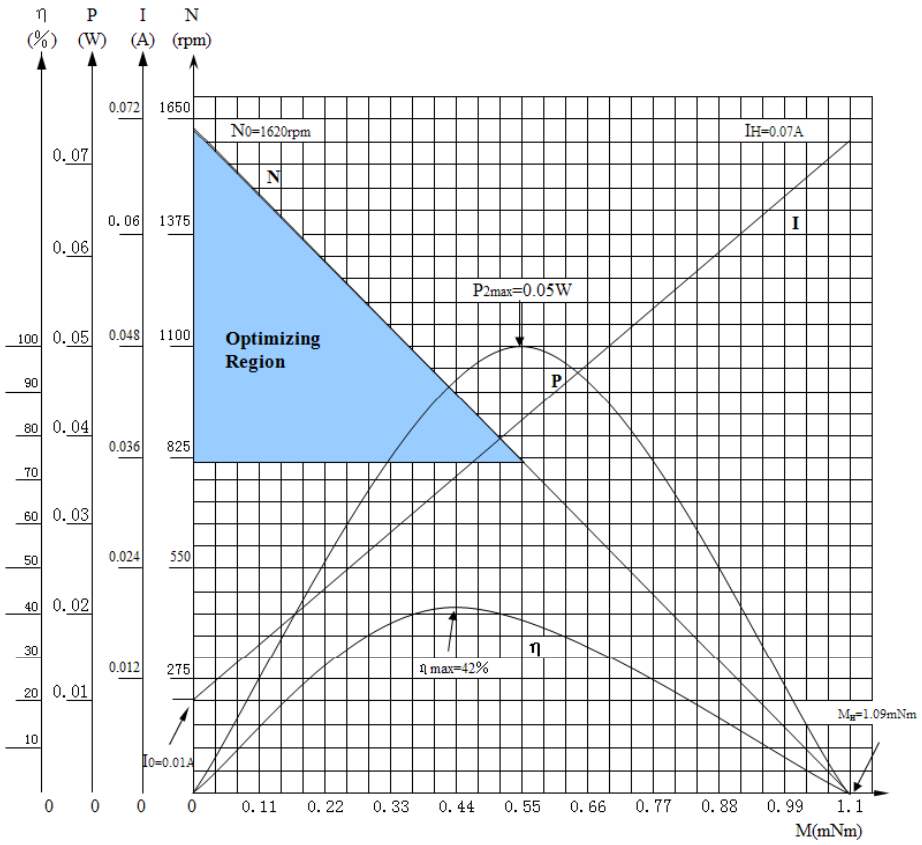
BL1422

Series No: BL1422- - - P 2 & 8

No.	Testing Item		Tested Values					Unit
1	Nominal voltage	U_N	6	3	3			V
2	Terminal resistance, phase to phase	R	216	216	37.3			Ω
3	Output power	P_{2max}	0.003	0.001	0.05			W
4	Efficiency	η_{max}	2	2	42			%
5	No-load speed	n_o	960	668	1620			rpm
6	No-load current	I_o	0.02	0.01	0.01			A
7	Stall torque	M_H	0.13	0.05	1.09			mNm
8	Friction torque	MF	0.33	0.12	0.15			mNm
9	Speed constant	k_n	571.43	795.24	616.67			rpm/V
10	Back-EMF constant	k_E	1.75	1.26	1.62			mV/rpm
11	Torque constant	k_M	16.71	12.01	15.49			mNm/A
12	Current constant	k_I	0.06	0.08	0.06			A/mNm
13	Slope of n-M curve	Δn/ΔM	7385.95	14304.63	1485.41			rpm/mNm
14	Mechanical time constant	τ_m	52.59	101.86	10.58			ms
15	Rotor inertia	J	0.68	0.68	0.68			gcm^2
16	Angular acceleration	α_{max}	1.91	0.69	16.04			$10^3 rad/s^2$
17	Sensor		Sensorless					
18	Driver		DR1802					
19	Weight		22					g
20	Operating temperature range		-30～+85					
21	Commutation		Electronically commutation					
22	Bearing		Sleeve bearing					
23	Housing material		Aluminum, black anodized					
24	Magnet material		Sintered Nd-Fe-B					
25	Direction of rotation		Electronically reversible					

Note:
- The I_0 is pure current of motor in this data sheet that means it not included the driver's current.
- This type is reducing motor used for lowest speed controlling.

Operating Curve



Note:(1)The I_0 is pure current of motor in this curve drawing that means it not included the driver`s current.

(2)We have suggested there has a optimizing region for this motor`s operating as hatched in drawing.

Drawing