

Brushless DC-Gearmotors

100 mNm

For combination with Drive Electronics: Speed Controller

Series 2622 B					
	2622 S		006 B	012 B	
1 Nominal voltage	Un		6	12	Volt
2 Terminal resistance, phase-phase	R		7,0	28,2	Ω
3 Output power	P ₂ max.		1,92	1,91	W
4 Efficiency	η max.		78	78	%
5 No-load speed	n _o		6 200	6 200	rpm
6 No-load current	lo		0,012	0,006	Α
7 Stall torque	Мн		7,73	7,68	mNm
8 Friction torque, static	Co		0,025	0,025	mNm
9 Friction torque, dynamic	C_{V}		1,35 ⋅10 ⁻⁵	1,35 ·10 ⁻⁵	mNm/rpm
10 Speed constant	k n		1 055	528	rpm/V
11 Back-EMF constant	ke		0,948	1,895	mV/rpm
12 Torque constant	kм		9,05	18,1	mNm/A
13 Current constant	k ı		0,111	0,055	A/mNm
14 Slope of n-M curve	Δn/ΔM		816	822	rpm/mNm
15 Terminal inductance, phase-phase	L		480	1 940	μH
16 Mechanical time constant	τm		69	70	ms
17 Rotor inertia	J		8,1	8,1	gcm ²
18 Angular acceleration	lpha max.		9,5	9,5	·10 ³ rad/s ²
19 Thermal resistance	Rth 1 / Rth 2				K/W
20 Thermal time constant	au w1 / $ au$ w2	20 / 230			S

Integrated Gearhead			
Housing material		plastic	
Geartrain material		metal	
Backlash, at no-load	≤	4	0
Bearings on output shaft		ball bearing	
Shaft load max.:			
radial (5 mm from mounting face)	≤	15	N
– axial	≤	5	N
Shaft press fit force, max.	≤	10	N
Shaft play:			
radial (5 mm from mounting face)	≤	0,03	mm
– axial	≤	0,25	mm
Operating temperature range		- 25 + 80	°C

Specifications						
			output torque			
reduction ratio	output	weight	continuous	intermittent	direction	efficiency
(rounded)	speed	with	operation		of rotation	
	up to	motor			(reversible)	
	nmax		Mmax	Mmax		
	rpm	g	mNm	mNm		%
8:1	635	25	9	30	=	81
22:1	223	26	23	75	<i>≠</i>	73
33:1	151	26	30	100	=	60
112:1	44	27	93	180	<i>≠</i>	59
207 : 1	24	27	100	180	=	53
361 : 1	14	27	100	180	=	53
814 : 1	6	28	100	180	=	43
1 257 : 1	4	29	100	180	=	43

Note: output speed at 5000 rpm input speed. Based on motor 2610 ... B.



