



Motor Data				SBR4011224Z-02	SBR4011248Z-02
1	Nominal voltage	V	V	24	48
2	No load speed	rpm	Wnl	10000	10000
3	No load current	mA	InI	350	150
4	Nominal speed	rpm	Wc	8250	9300
5	Nominal torque	mNm	Tc	140	170
6	Nominal current	A	Ic	6.74	3.72
7	Output power	W	Pc	150	166.2
8	Stall torque	mNm	Tmax	2076.2	2465.2
9	Stall current	A	Imax	100	53.93
10	Max. efficiency	%	ηmax	93.3	93.1
11	Terminal resistance	Ω	Rt	0.24	0.89
12	Terminal inductance	L	mH	0.3	0.5
13	Torque constant	mNm / A	Kt	20.76	45.71
14	Speed constant	rpm / V	Kn	460	208.9
15	Speed torque gradient	rpm / mNm	Δn / ΔT	5.04	3.9

Specifications	
1	ambient temperature Ta -20~+65 °C
2	max. winding temperature Tcoilmax +85 °C
3	max. speed Nmax 12210 rpm
4	axial play Δt 0.05-0.15 mm
5	number of pole pairs 2p 1
6	number of commutator segments 3
7	weight of motor Wt 620 g
8	Max. axial load (dynamic) 8N
9	Max. force for press fits (static) 211N
10	Max. radial load, 4 mm from flange 80N

