

SERVO MOTORS

COMPACT RANGE OF BRUSHLESS SERVO MOTORS



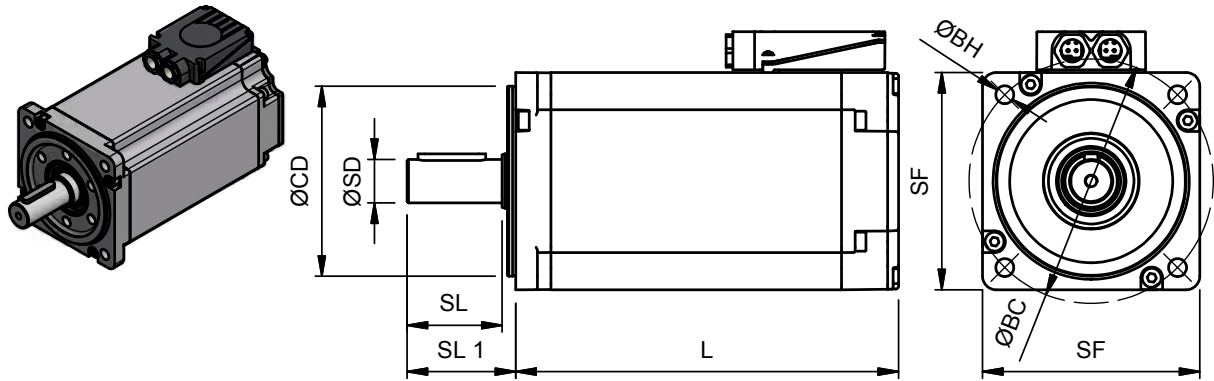
BROCHURE 2018



- Compact Brushless Servo Motors with dedicated mechanical fittings, reduced dimensions and special electrical design for high performance.
- Range: 0.18 Nm – 46 Nm (50W – 7.5kW).
- Square flange 40 mm, 60 mm, 80 mm, 100 mm, 116 mm, 180 mm.
- Smaller sizes equipped with special connection box with reduced overall dimensions; bigger sizes equipped with standard connectors (90° turnable connectors).
- Focus on robotics applications.

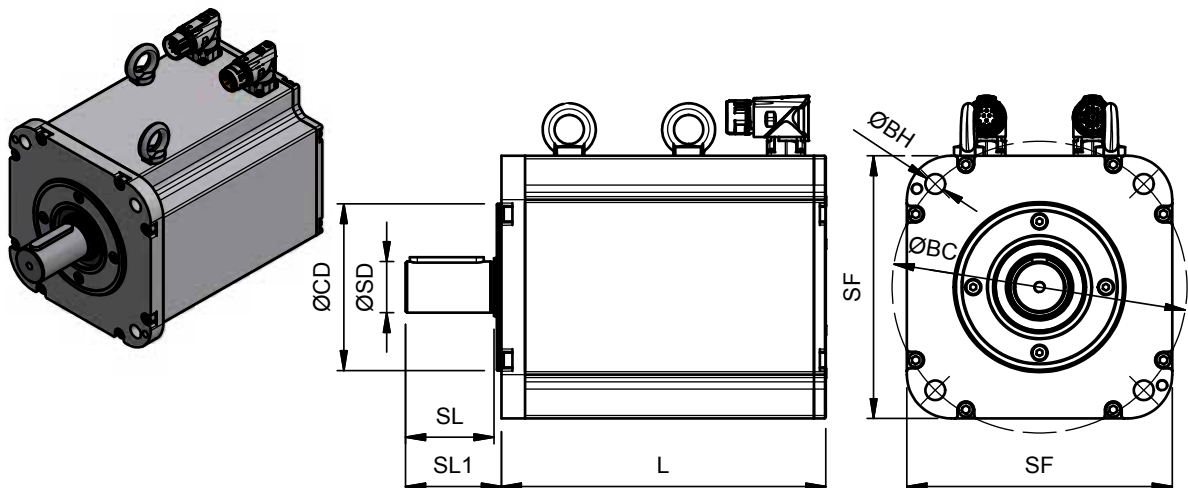


RANGE 0.18 Nm TO 2.0 Nm



Size	Square flange SF mm	Rated power W	Torque Nm	Rated speed rpm	Centring diameter Ø - CD mm	Bolt circle diameter Ø - BC mm	Bolt hole diameter Ø - BH mm	Shaft diameter Ø - SD mm	Shaft length SL mm	Shaft length SL1 mm
B20Q	40	50 to 100	0.18 to 0.32	3000	30 h7	46	4.5	8 h6	20	25
B30J	60	200 to 700	0.7 to 1.4	3000 - 6000	50 h7	70	5.8	14 h6	25	30
B40J	80	190 to 1200	0.7 to 2.7	3000 - 6000	70 h7	90	6.6	16 h6	35	40

RANGE 4 Nm TO 46 Nm



Size	Square flange SF mm	Rated power KW	Torque Nm	Rated speed rpm	Centring diameter Ø - CD mm	Bolt circle diameter Ø - BC mm	Bolt hole diameter Ø - BH mm	Shaft diameter Ø - SD mm	Shaft length SL mm	Shaft length SL1 mm
B63Q	100	1	4	3000	95 j6	115	9	19 k6	40	40
B63Y	116	1.5 to 2.2	6 to 8	3000	110 j6	130	9	19 j6	40	40
B90J	180	3.5 to 8.6	22 to 46	2000 - 3000	114.3 h7	200	13.5	35 h6	60	65



COMPACT BRUSHLESS SERVO MOTORS

STANDARD FEATURES

- Outstanding compact design with high power density
- Torque range 0.18 Nm to 46 Nm
- Superior performance, high torque accuracy
- Middle-high inertia ideal for robotics and machine tools
- Available at 230 Vac and 400 Vac
- IP65 protection; TENV construction

OPTIONAL FEATURES

- All motors available with brake as an option
- Special winding design available on request
- Different type of encoder and resolver available on request

TARGET APPLICATIONS

- Robots
- Machine tools
- Printing machines
- Packaging machines

ELECTRICAL DATA COMPACT BRUSHLESS SERVO MOTORS SELF COOLED

Type	Rated power	Stall torque ($\Delta t=105^{\circ}\text{C}$)	Rated torque ($\Delta t=105^{\circ}\text{C}$)	Peak torque	Stall current	Rated current	Rated speed	Moment of Inertia (incl.brake) J $10^{-4} \text{ Kg}\cdot\text{m}^2$	Length with encoder ¹⁾		Poles n°	Connector size
	P W	M ₀ Nm	M _n Nm	M _{pk} Nm	I ₀ Arms	I _n Arms	n 1/min		Without brake L mm	With Brake L mm		
B20.D2Q ¹⁾	50	0.18	0.164	0.6	0.62	0.56	3000	0.02	63	91	8	CB ²⁾
B20.D3Q ¹⁾	100	0.32	0.318	1.0	0.68	0.67	3000	0.03	77	105	8	CB ²⁾
B30.D7J ¹⁾	200	0.7	0.64	2.0	0.75	0.68	3000	0.22	75.5	104.5	10	CB ²⁾
B30.E4J ¹⁾	400	1.4	1.27	4.8	1.49	1.35	3000	0.41	96	125	10	CB ²⁾
B30.D7J ¹⁾	380	0.7	0.60	2.0	1.49	1.28	6000	0.22	75.5	104.5	10	CB ²⁾
B30.E4J ¹⁾	700	1.4	1.10	4.8	3.0	2.4	6000	0.41	96	125	10	CB ²⁾
B40.D7J ¹⁾	190	0.7	0.6	2.0	0.75	0.64	3000	0.83	77	107	10	CB ²⁾
B40.E7J ¹⁾	380	1.4	1.2	4.2	1.5	1.3	3000	1.13	88.5	118.5	10	CB ²⁾
B40.F7J ¹⁾	750	2.7	2.4	8.5	2.9	2.6	3000	1.73	111	141	10	CB ²⁾
B40.D7J ¹⁾	250	0.7	0.4	2.0	1.5	0.85	6000	0.83	77	107	10	CB ²⁾
B40.E7J ¹⁾	550	1.4	0.9	4.2	3.0	1.9	6000	1.13	88.5	118.5	10	CB ²⁾
B40.F7J ¹⁾	1200	2.7	1.9	8.5	4.3	4.1	6000	1.73	111	141	10	CB ²⁾
B63.04Q	1000	4	3.5	12	2.50	2.1	3000	6.55	150	182	8	1
B63.06Y ³⁾	1500	6	5.4	29	5.49	4.94	3000	8.87	168	204.5	10	1
B63.08Y ³⁾	2200	8	7	38	6.69	5.85	3000	12.2	183	219.5	10	1
B90.22J ³⁾	3500	22	17	60	15.6	12.1	2000	40	155	197	10	1
B90.28J ³⁾	4500	28	21.5	75	19.9	15.2	2000	49	171	213	10	1
B90.34J ³⁾	5500	34	26.3	90	24.1	18.7	2000	56	187	229	10	1
B90.46J ³⁾	7500	46	35.8	140	32.6	25.4	2000	70	233	275	10	1.5
B90.22J ³⁾	5100	22	15.1	60	23.4	16.1	3000	40	155	197	10	1
B90.28J ³⁾	6200	28	18.3	75	29.8	19.5	3000	50	181	223	10	1.5
B90.34J ³⁾	7100	34	21.7	90	36.2	23.1	3000	57	197	239	10	1.5
B90.46J ³⁾	8600	46	27.4	140	49.0	29.2	3000	71	233	275	10	1.5

¹⁾ Nikon absolute encoder single turn (16 bit) or multi turn (20 bit) with separate battery

²⁾ CB = Connection Box

³⁾ Resolver 2 poles or Nikon absolute encoder

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