

XtraforsBL

AC Servomotors



Features

- Compact size
- High torque
- Low inertia
- High speed

Power

- Rated torque 0.3 to 78 Nm
- Sizes 40 to 190 mm

Executions

- Wide range of standard models
- Customized versions
- CE certified, UL listed

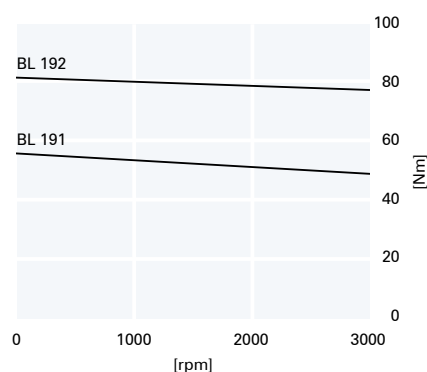
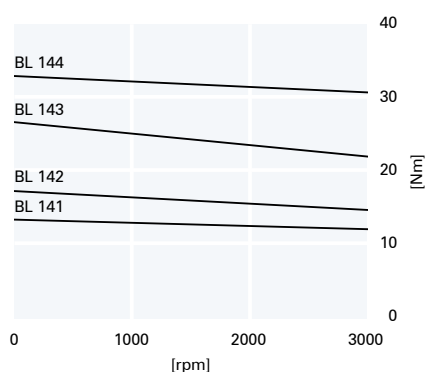
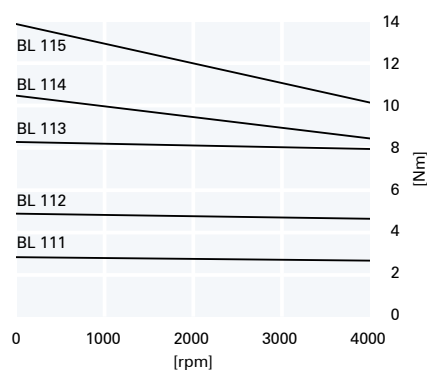
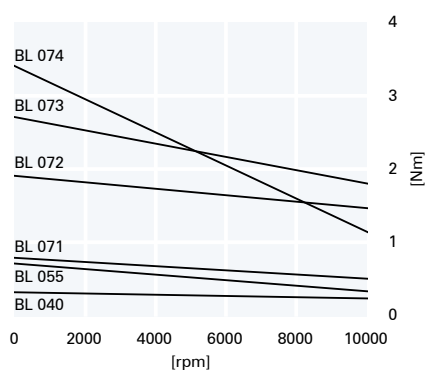
XtraforsBL, AC Servomotors

This family offers the user a wide range of standard motors. The excellent torque/inertia-ratio gives these motors an extremely high acceleration capability.

Technical data

Type	Torque	Speed	Winding A (230VAC)		Winding 4 (400VAC)		Length L*		
	M _{nom}	n _{nom}	I _{nom}	n _{max} @230V	n _{max} @400V	I _{nom}	n _{max} @400V	without brake	with brake
	[Nm]	[rpm]	[Arms]	[rpm]	[rpm]	[Arms]	[rpm]	[mm]	[mm]
BL 040	0.30	8 000	1.03	10 000	10 000	–	–	112	139
BL 055	0.54	6 500	1.09	7 700	10 000	0.60	7 000	140	170
BL 071	0.69	8 000	1.81	8 200	11 000	0.97	10 000	100	128
BL 072	1.76	6 000	3.67	7 600	11 000	2.20	7 800	120	148
BL 073	2.41	3 800	3.49	5 300	8 200	1.96	5 500	138	166
BL 074	2.60	3 800	3.21	4 600	7 100	1.65	4 500	156	184
BL 111	2.80	3 000	3.37	4 300	6 900	1.96	4 400	165	165
BL 112	4.80	3 000	5.78	4 400	7 100	3.16	4 400	190	190
BL 113	8.10	3 000	9.53	4 700	7 400	5.51	4 400	215	215
BL 114	9.10	3 000	10.96	4 900	7 900	5.59	4 400	240	240
BL 115	11.20	3 000	13.83	4 700	7 700	7.89	4 400	265	265
BL 141	12.00	3 000	12.00	3 700	6 000	6.18	3 500	235	235
BL 142	15.20	2 500	13.45	3 300	5 400	7.00	3 000	256	256
BL 143	23.70	2 000	16.93	2 750	4 500	9.01	2 500	300	300
BL 144	32.00	1 500	17.02	2 300	3 700	9.09	1 900	342	342
BL 191	52.00	2 000	–	–	–	23.32	2 800	261	315
BL 192	78.00	2 000	–	–	–	32.91	2 500	318	372

Torque curves



Standard version

- Resolver feedback
- Shaft with keyway
- Protection IP-65
- Angled connectors
- NTC thermal sensor
- 230 V or 400 V winding

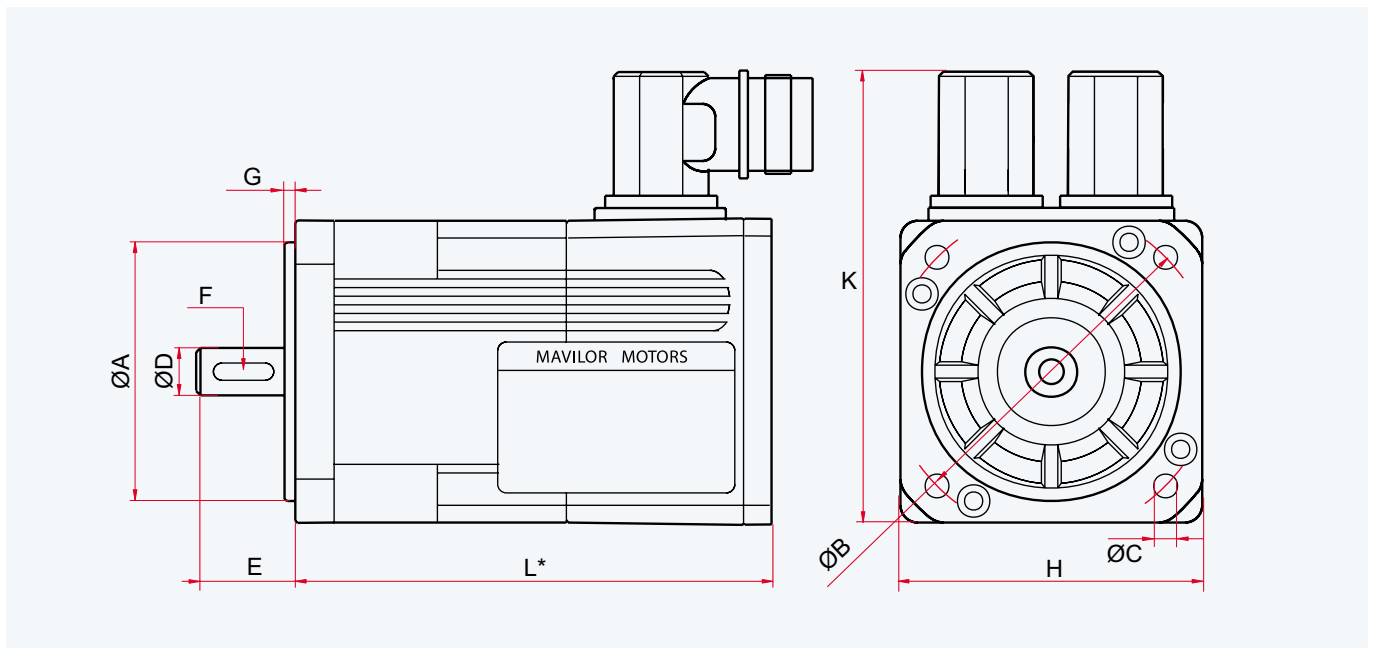
Options

- Various types of incremental encoders, SinCos encoders, Hiperface, EnDat
- Shaft without keyway
- Protection IP-67
- Shaft seal
- Straight connectors
- Direct cable output
- PTC thermal sensor

Customized versions

- Shafts (i.e. hollow shafts)
- Flanges, housings
- Windings
- Connections
- Executions according to customer's specification

Mechanical dimensions



Dimensions [mm]	Ø A	Ø B	Ø C	Ø D	E	F	G	H	K
BL 040	32 h7	45-46	4.3-5	8 h5	25	-	2.5	41	95
BL 050	40 j6	65-66.6	5.6-6.4	9 k6	20	A3x3x12	2.5	57	93
BL 070	60 j6	75	5.5	11 k6	23	A4x4x14	2.5	70	107
BL 110	95 j6	115	9	19 k6	40	A6x6x30	3.0	110	144
BL 140	130 j6	165	11	24 k6	50	A8x7x32	3.5	140	175
BL 190	180 j6	215	16	32 k6	58	A10x8x50	4.0	192	250

Brakes

Motor Type	BL 040	BL 055	BL 071-072	BL 073-074	BL 111-112	BL 113-115	BL 140	BL 190
Torque [Nm]	0.4	0.75	1.5	3.0	8.0	12.0	20.0	72.0
Voltage [VDC]	24 (+6% - 10%)							