



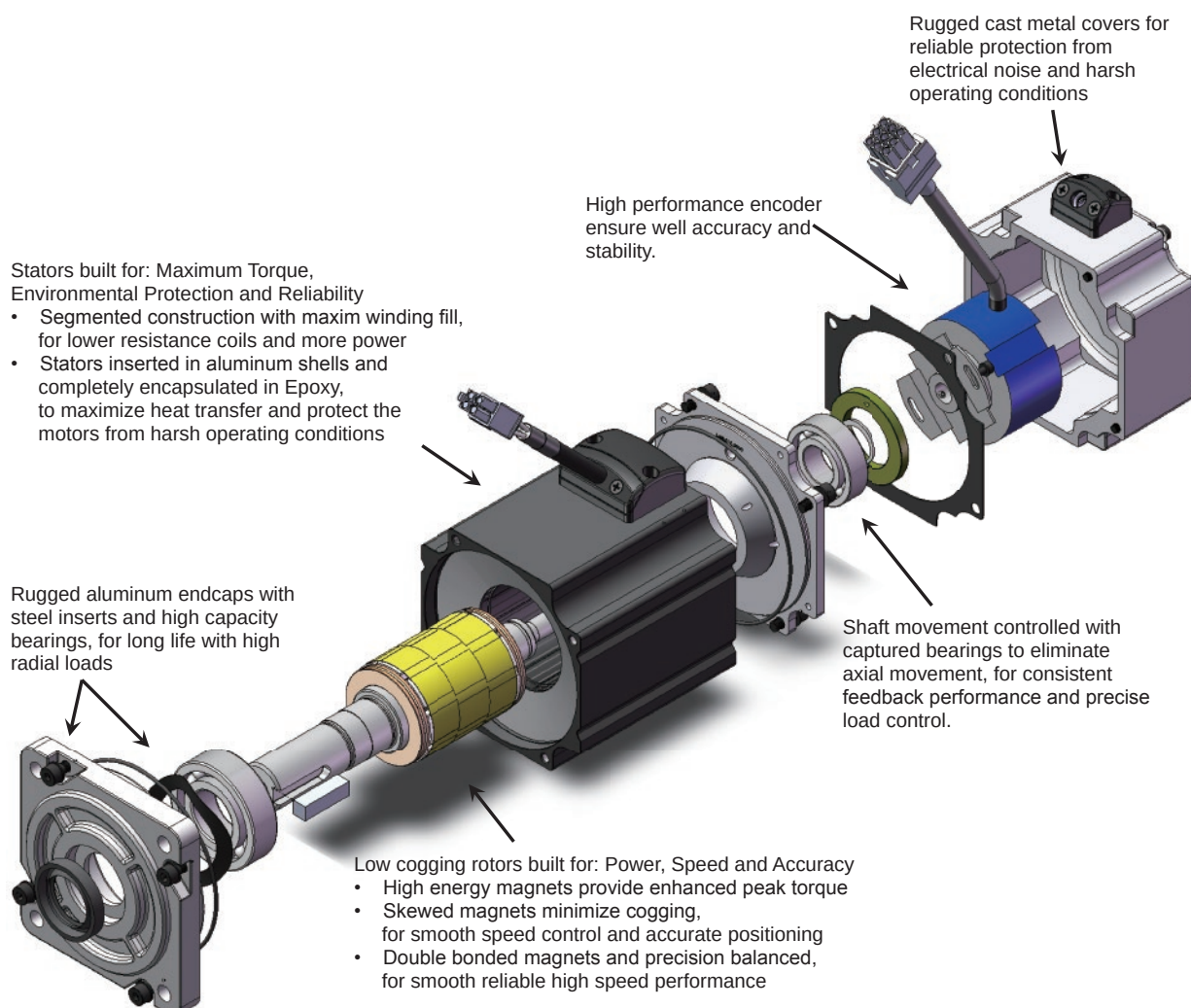
AC/DC Servo Motors

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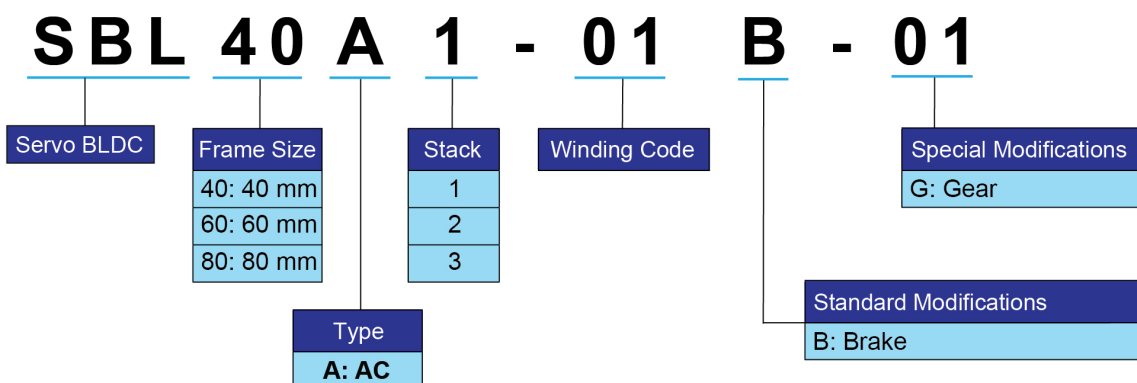
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■ AC Servo Motor



■ AC Servo Motor Numbering Information



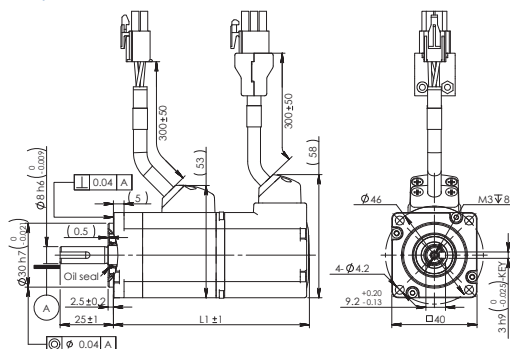
AC Servo Motors—Frame 40mm

Specifications

Type		SBL40A1-01	SBL40A2-01
Rated Output Power	watts	60	100
Rated Speed	rpm	3000	3000
Max Speed	rpm	6000	6000
Rated Torque	Nm	0.19	0.32
Peak Torque	Nm	0.48	0.93
Rated Current	A (rms)	0.7	1.2
Peak Current	A (rms)	1.75	3.6
Voltage Constant $\pm 5\%$	V (rms) / K rpm	17	16.6
Torque Constant $\pm 5\%$	Nm / A (rms)	0.283	0.271
Winding Resistance(Line-Line)	Ohm $\pm 10\%$ @25°C	27	9.7
Winding Inductance(Line-Line)	mH (typ.)	26	11.5
Rotor Inertia	Kg·m ²	0.0232×10^{-4}	0.0428×10^{-4}
Rotor Inertia-With Brake Option	Kg·m ²	0.0298×10^{-4}	0.0494×10^{-4}
Shaft Load - Axial	N (max.)	50	50
Shaft Load - Radial (End of Shaft)	N (max.)	50	60
Weight	kg	0.4	0.55
Weight-With Brake Option	kg	0.65	0.8

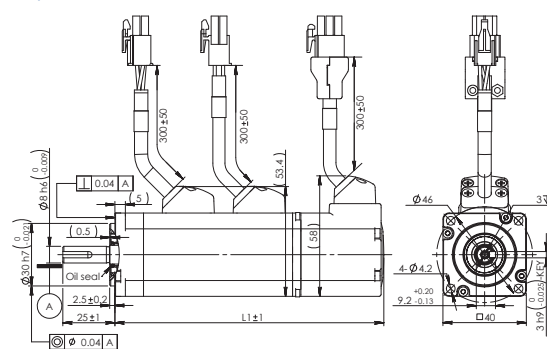
Dimensions (Unit:mm)

1) Without Brake



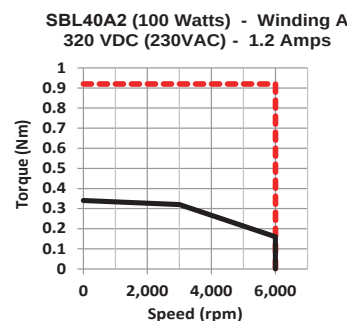
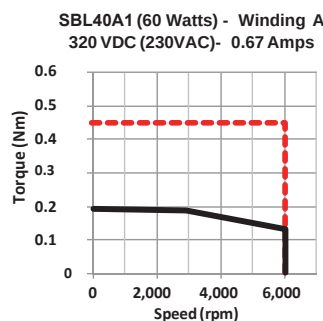
Without Brake	L1
SBL40A1-01	92
SBL40A2-01	109

2) With Brake



With Brake	L1
SBL40A1-01B	129
SBL40A2-01B	147

Torque Curves



----- Max. Intermittent Torque
————— Max. Continuous Torque

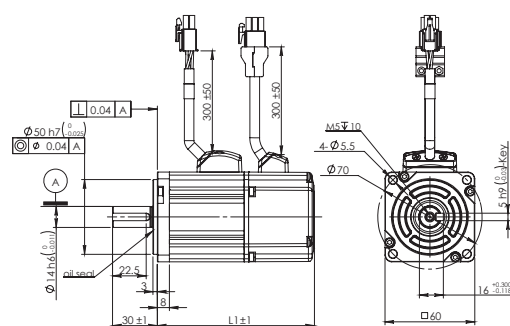
■ AC Servo Motors—Frame 60mm

□ Specifications

Type		SBL60A1-01	SBL60A2-01
Rated Output Power	watts	200	400
Rated Speed	rpm	3000	3000
Max Speed	rpm	6000	6000
Rated Torque	Nm	0.64	1.27
Peak Torque	Nm	1.9	3.8
Rated Current	A (rms)	1.5	2.75
Peak Current	A (rms)	4.5	8.3
Voltage Constant±5%	V (rms) / K rpm	27.2	29
Torque Constant±5%	Nm / A (rms)	0.432	0.484
Winding Resistance(Line-Line)	Ohm ± 10%@25°C	8.6	3.7
Winding Inductance(Line-Line)	mH (typ.)	25	12.9
Rotor Inertia	Kg·m ²	0.165×10^{-4}	0.272×10^{-4}
Rotor Inertia-With Brake Option	Kg·m ²	0.22×10^{-4}	0.326×10^{-4}
Shaft Load - Axial	N (max.)	70	70
Shaft Load - Radial (End of Shaft)	N (max.)	200	240
Weight	kg	1.1	1.4
Weight-With Brake Option	kg	1.6	1.9

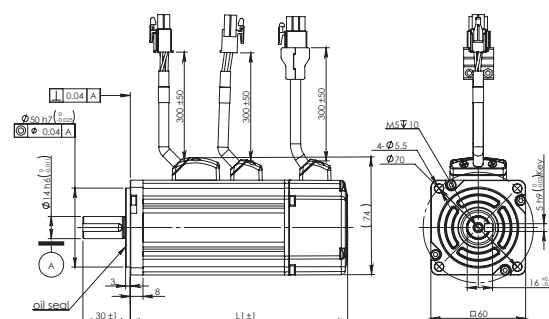
□ Dimensions (Unit:mm)

1) Without Brake



Without Brake	L1
SBL60A1-01	105
SBL60A2-01	125

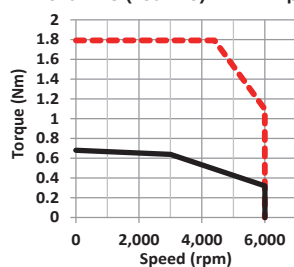
2) With Brake



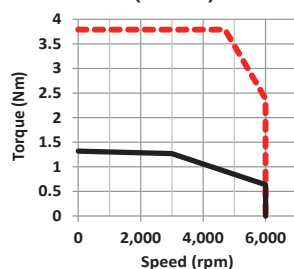
With Brake	L1
SBL60A1-01B	145
SBL60A2-01B	165

□ Torque Curves

SBL60A1 (200 Watts) - Winding A
320 VDC (230VAC) - 1.4 Amps



SBL60A2 (400 Watts) - Winding A
320 VDC (230VAC) - 2.7 Amps



----- Max. Intermittent Torque
————— Max. Continuous Torque

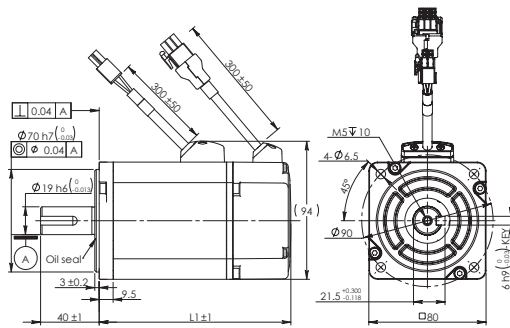
AC Servo Motors—Frame 80mm

Specifications

Type		SBL80A1-01	SBL80A2-01	SBL80A3-01
Rated Output Power	watts	300	550	750
Rated Speed	rpm	3000	3000	3000
Max Speed	rpm	6000	5500	6000
Rated Torque	Nm	0.95	1.8	2.4
Peak Torque	Nm	2.3	4.6	6.9
Rated Current	A (rms)	1.8	3.0	4.5
Peak Current	A (rms)	4.5	8.3	13.5
Voltage Constant±5%	V (rms) / K rpm	34.3	37.3	36.6
Torque Constant±5%	Nm / A (rms)	0.532	0.586	0.543
Winding Resistance(Line-Line)	Ohm ± 10%@25°C	5.9	2.7	1.47
Winding Inductance(Line-Line)	mH (typ.)	26	13.9	8.2
Rotor Inertia	Kg·m ²	0.45×10^{-4}	0.63×10^{-4}	0.89×10^{-4}
Rotor Inertia-With Brake Option	Kg·m ²	0.53×10^{-4}	0.71×10^{-4}	0.97×10^{-4}
Shaft Load - Axial	N (max.)	90	90	90
Shaft Load - Radial (End of Shaft)	N (max.)	200	240	270
Weight	kg	1.7	2.2	2.6
Weight-With Brake Option	kg	2.5	3.0	3.4

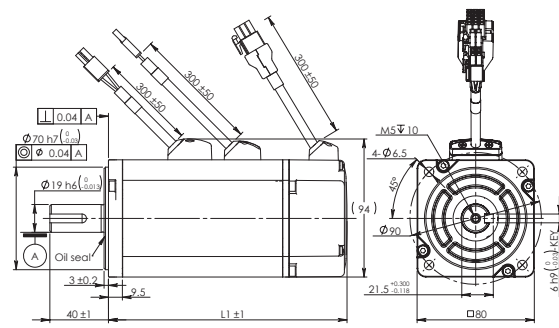
Dimensions (Unit:mm)

1) Without Brake



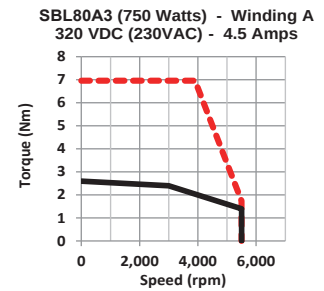
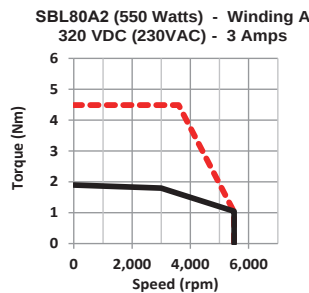
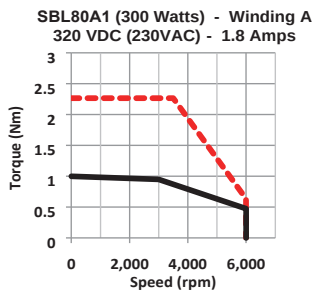
Without Brake	L1
SBL80A1-01	101
SBL80A2-01	116
SBL80A3-01	131

2) With Brake



With Brake	L1
SBL80A1-01B	148
SBL80A2-01B	163
SBL80A3-01B	178

Torque Curves



----- Max. Intermittent Torque
————— Max. Continuous Torque

■ Gearhead AC Servo Motors—Frame 40mm

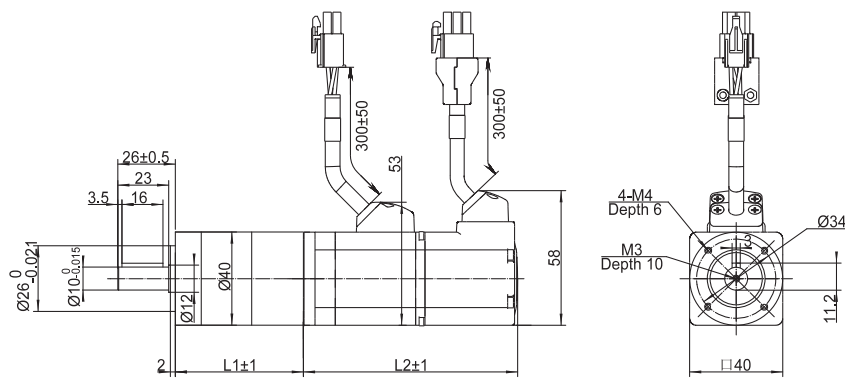
□ Specifications

Without Brake Type		SBL40A1-01-G05	SBL40A1-01-G10	SBL40A1-01-G20	SBL40A2-01-G05	SBL40A2-01-G10	SBL40A2-01-G20
With Brake Type		SBL40A1-01B-G05	SBL40A1-01B-G10	SBL40A1-01B-G20	SBL40A2-01B-G05	SBL40A2-01B-G10	SBL40A2-01B-G20
Motor Power	W	60			100		
Gear Ratio		5	10	20	5	10	20
Max Output Torque	N·m	0.95	1.9	3.8	1.6	3.2	6.4
Peak Output Torque	N·m	2.4	4.8	11.4	4.65	9.3	18.6
Max Permissible Output Torque	N·m	6	8	12	6	8	40
Stage		1	1	2	1	1	2
Back lash	arcmin	≤12	≤12	≤15	≤12	≤12	≤15
Efficiency		96%	96%	94%	96%	96%	94%
Rated Output Speed	r/min	600	300	150	600	300	150
Max. Output Speed	r/min	1200	600	300	1200	600	300
Motor Rotor Inertia	Kg·m ²	0.0232x10 ⁻⁴ *(0.0298x10 ⁻⁴)			0.0428x10 ⁻⁴ *(0.0494x10 ⁻⁴)		
Gearhead Inertia	Kg·m ²	0.015x10 ⁻⁴	0.019x10 ⁻⁴	0.019x10 ⁻⁴	0.015x10 ⁻⁴	0.019x10 ⁻⁴	0.019x10 ⁻⁴
L1 Without Brake	mm	67.5	67.5	80.5	67.5	67.5	80.5
L2 Without Brake	mm	92	92	92	109	109	109
L1 With Brake	mm	67.5	67.5	80.5	67.5	67.5	80.5
L2 With Brake	mm	129	129	129	147	147	147

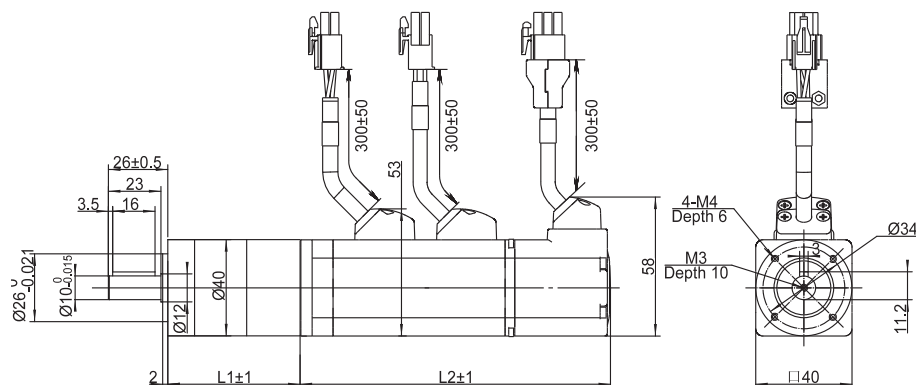
(*) With Brake

□ Dimensions (Unit:mm)

1) Without Brake



2) With Brake



■ Gearhead AC Servo Motors—Frame 60mm

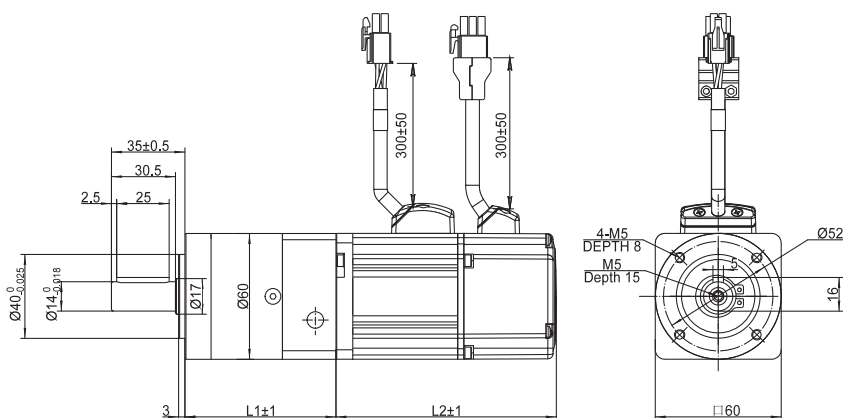
□ Specifications

Without Brake Type		SBL60A1-01-G05	SBL60A1-01-G10	SBL60A1-01-G20	SBL60A2-01-G05	SBL60A2-01-G10	SBL60A2-01-G20
With Brake Type		SBL60A1-01B-G05	SBL60A1-01B-G10	SBL60A1-01B-G20	SBL60A2-01B-G05	SBL60A2-01B-G10	SBL60A2-01B-G20
Motor Power	W	200			400		
Gear Ratio		5	10	20	5	10	20
Max Output Torque	N·m	3.2	6.4	12.8	6.35	12.7	25.4
Peak Output Torque	N·m	9.5	19	38	19	38	76
Max Permissible Output Torque	N·m	32	24	88	32	24	88
Stage		1	1	2	1	1	2
Back lash	arcmin	≤10	≤10	≤15	≤10	≤10	≤15
Efficiency		96%	96%	94%	96%	96%	94%
Rated Output Speed	r/min	600	300	150	600	300	150
Max. Output Speed	r/min	1200	600	300	1200	600	300
Motor Rotor Inertia	Kg·m ²	0.165x10 ⁻⁴ *(0.22x10 ⁻⁴)			0.272x10 ⁻⁴ *(0.326x10 ⁻⁴)		
Gearhead Inertia	Kg·m ²	0.078x10 ⁻⁴	0.054x10 ⁻⁴	0.075x10 ⁻⁴	0.078x10 ⁻⁴	0.054x10 ⁻⁴	0.075x10 ⁻⁴
L1 Without Brake	mm	78.5	78.5	91.5	78.5	78.5	91.5
L2 Without Brake	mm	105	105	105	125	125	125
L1 With Brake	mm	78.5	78.5	91.5	78.5	78.5	91.5
L2 With Brake	mm	145	145	145	165	165	165

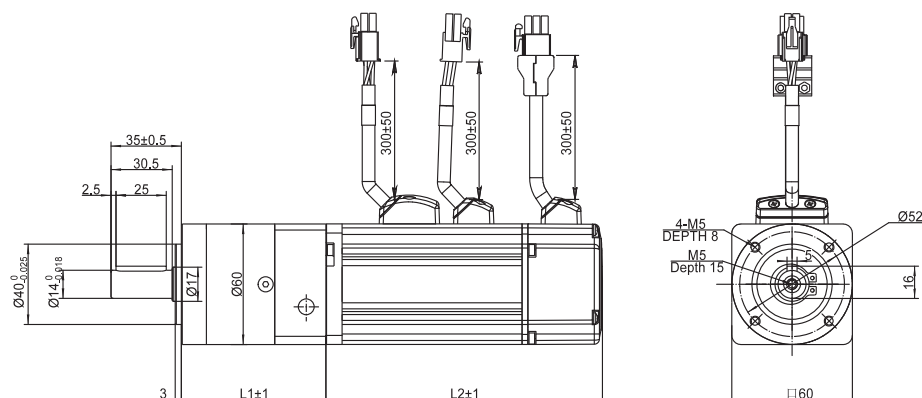
(*) With Brake

□ Dimensions (Unit:mm)

1) Without Brake



2) With Brake



■ Gearhead AC Servo Motors—Frame 80mm

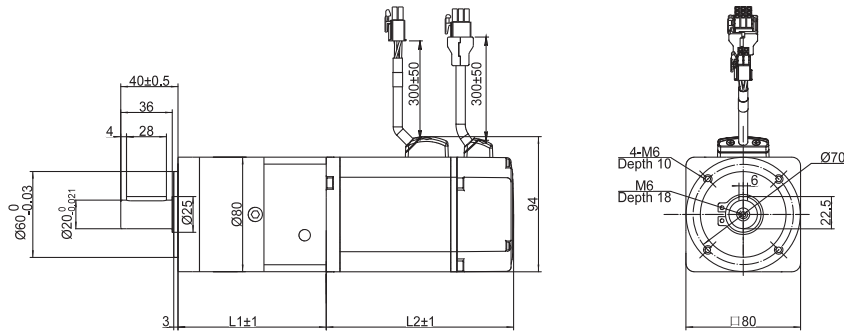
□ Specifications

Without Brake Type		SBL80A3-01-G05	SBL80A3-01-G10	SBL80A3-01-G20
With Brake Type		SBL80A3-01B-G05	SBL80A3-01B-G10	SBL80A3-01B-G20
Motor Power	W	750		
Gear Ratio		5	10	20
Max Output Torque	N·m	12	24	48
Peak Output Torque	N·m	34.5	69	138
Max Permissible Output Torque	N·m	100	80	240
Stage		1	1	2
Back lash	arcmin	≤10	≤10	≤15
Efficiency		96%	96%	94%
Rated Output Speed	r/min	600	300	150
Max. Output Speed	r/min	1200	600	300
Motor Rotor Inertia	Kg·m ²	0.89×10 ⁻⁴ *(0.97×10 ⁻⁴)		
Gearhead Inertia	Kg·m ²	0.45×10 ⁻⁴	0.39×10 ⁻⁴	0.44×10 ⁻⁴
L1 Without Brake	mm	104	104	122
L2 Without Brake	mm	131	131	131
L1 With Brake	mm	104	104	122
L2 With Brake	mm	178	178	178

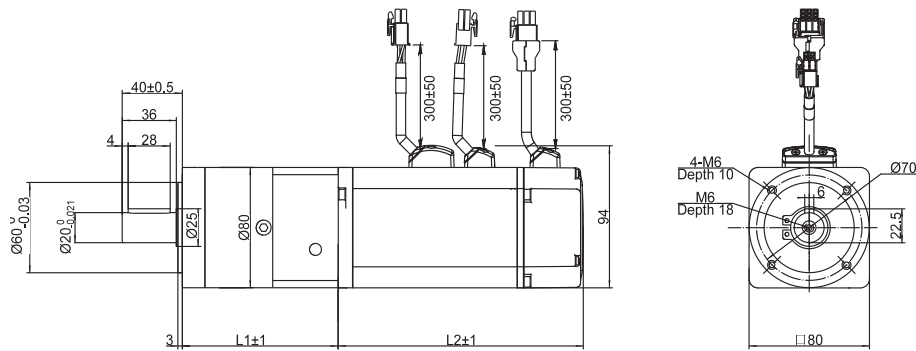
(*) With Brake

□ Dimensions (Unit:mm)

1) Without Brake



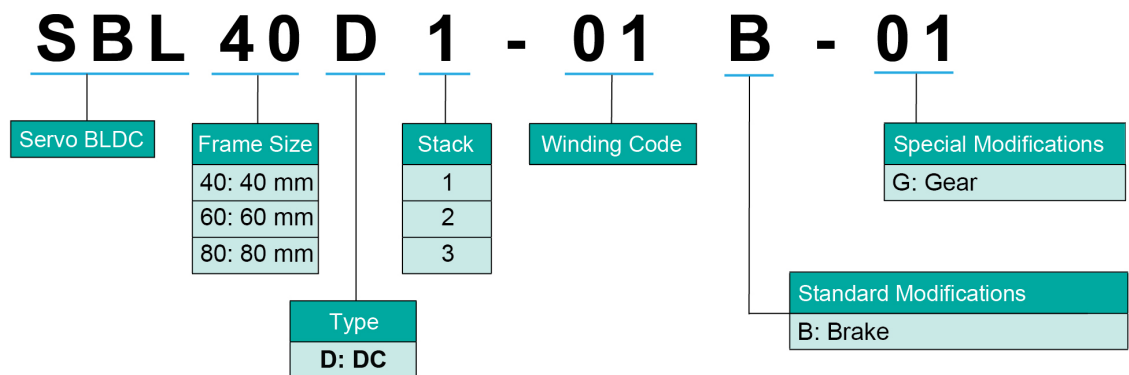
2) With Brake



DC Servo Motors



■ DC Servo Motor Numbering Information



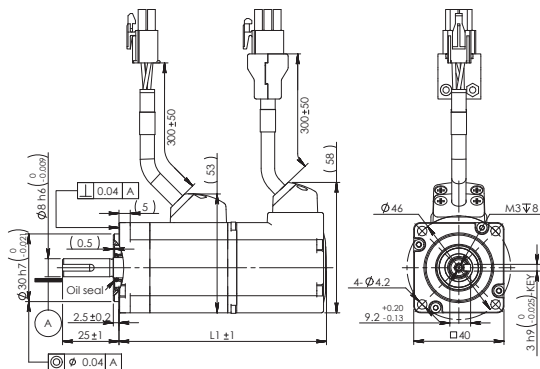
DC Servo Motors—Frame 40mm

Specifications

Model		SBL40D1-04	SBL40D2-02
Recommended Drive Input Voltage (DC-Bus)		36	60
Rated Output Power	watts	60	100
Rated Speed	rpm	3000	3000
Max. Speed	rpm	6000	6000
Rated Torque	Nm	0.19	0.32
Peak Torque	Nm	0.48	0.91
Rated Current	A (rms)	5.7	5.2
Peak Current	A (rms)	14.3	15.6
Voltage Constant $\pm 5\%$	V (rms) / K rpm	2.1	3.8
Torque Constant $\pm 5\%$	Nm / A (rms)	0.035	0.061
Winding Resistance(Line-Line)	Ohm @25°C	0.36	0.48
Winding Inductance(Line-Line)	mH (typ.)	0.39	0.58
Rotor Inertia	Kg-m ²	0.0232×10^{-4}	0.0428×10^{-4}
Rotor Inertia - With Brake	Kg-m ²	0.0298×10^{-4}	0.0494×10^{-4}
Shaft Load - Axial	N (max.)	50	50
Shaft Load - Radial (End of Shaft)	N (max.)	50	60
Weight	kg	0.4	0.55
Weight - With Brake	kg	0.65	0.8

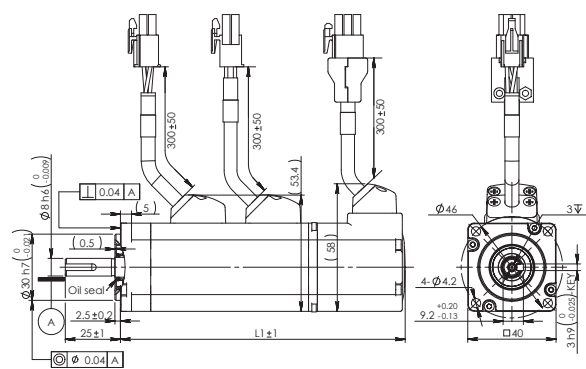
Dimensions (Unit:mm)

1) Without Brake



Without Brake	L1
SBL40D1-04	92
SBL40D2-02	109

2) With Brake

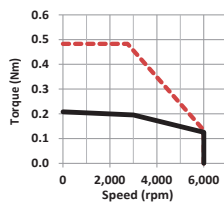


With Brake	L1
SBL40D1-04B	129
SBL40D2-02B	147

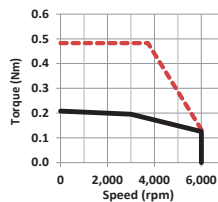
Torque Curves

Note: The torque and maximum speed depend on the DC bus voltage. Please choose proper supply voltage.

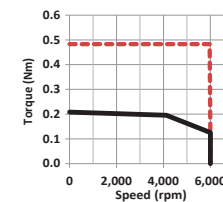
DC Bus--24VDC
SBL40D1(60 Watts)-5.7 Amps



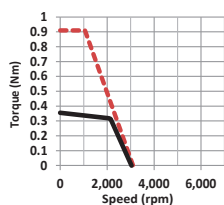
DC Bus--36VDC
SBL40D1(60 Watts)- 5.7 Amps



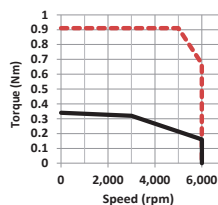
DC Bus--48VDC
SBL40D1(60 Watts)- 5.7 Amp



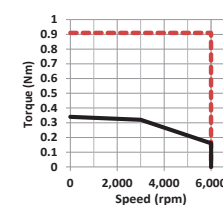
DC Bus--24VDC
SBL40D2(100 Watts) -5.2Amps



DC Bus--48VDC
SBL40D2(100 Watts) -5.2Amps



DC Bus--60VDC
SBL40D2(100 Watts) -5.2Amps



----- Max. Intermittent Torque
————— Max. Continuous Torque

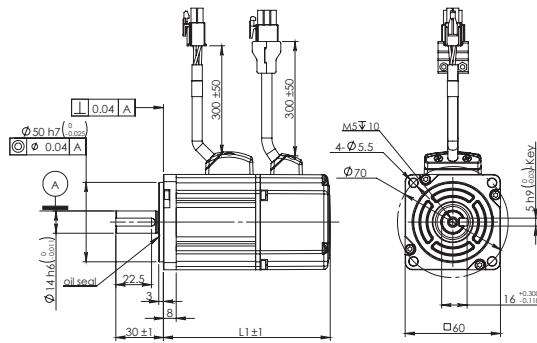
DC Servo Motors—Frame 60mm

Specifications

Model		SBL60D1-03	SBL60D2-02	SBL60D2-03
Recommended Drive Input Voltage (DC-Bus)		48	60	48
Rated Output Power	watts	200	400	400
Rated Speed	rpm	3000	3000	3000
Max. Speed	rpm	6000	6000	6000
Rated Torque	Nm	0.64	1.26	1.27
Peak Torque	Nm	1.9	3.6	3.4
Rated Current	A (rms)	10	10	12
Peak Current	A (rms)	30	30	36
Voltage Constant $\pm 5\%$	V (rms) / K rpm	4.1	7.5	6.3
Torque Constant $\pm 5\%$	Nm / A (rms)	0.065	0.124	0.103
Winding Resistance(Line-Line)	Ohm @25°C	0.192	0.25	0.214
Winding Inductance(Line-Line)	mH (typ.)	0.56	0.84	0.6
Rotor Inertia	Kg·m ²	0.165×10^{-4}	0.272×10^{-4}	0.272×10^{-4}
Rotor Inertia - With Brake	Kg·m ²	0.22×10^{-4}	0.326×10^{-4}	0.326×10^{-4}
Shaft Load - Axial	N (max.)	70	70	70
Shaft Load - Radial (End of Shaft)	N (max.)	200	240	240
Weight	kg	1.1	1.4	1.4
Weight - With Brake	kg	1.6	1.9	1.9

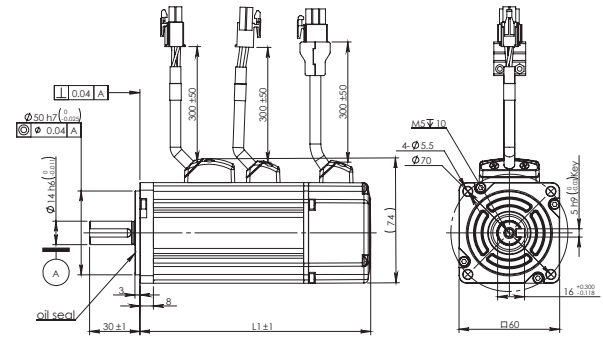
Dimensions (Unit:mm)

1) Without Brake



Without Brake	L1
SBL60D1-03	105
SBL60D2-02	125
SBL60D2-03	125

2) With Brake

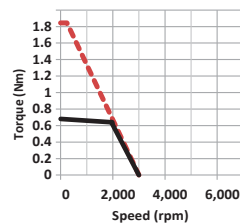


With Brake	L1
SBL60D1-03B	145
SBL60D2-02B	165
SBL60D2-03B	165

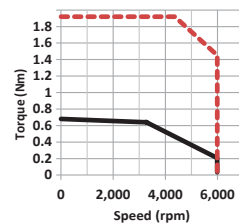
Torque Curves

Note: The torque and maximum speed depend on the DC bus voltage. Please choose proper supply voltage.

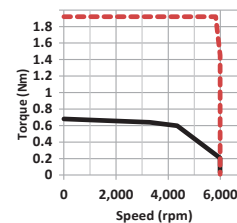
DC Bus--24VDC
SBL60D1(200 Watts) -10Amps



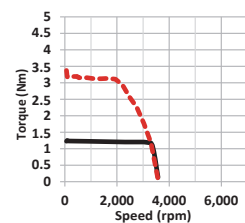
DC Bus--48VDC
SBL60D1(200 Watts) -10Amps



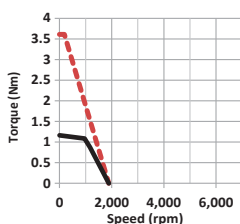
DC Bus--60VDC
SBL60D1(200 Watts) -10Amps



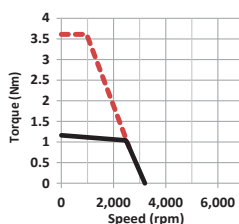
DC Bus--48VDC
SBL60D2(400 Watts) -12Amps



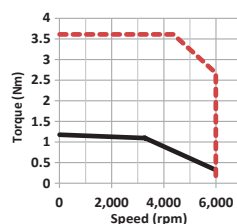
DC Bus--24VDC
SBL60D2(400 Watts) -10Amps



DC Bus--48VDC
SBL60D2(400 Watts) -10Amps



DC Bus--60VDC
SBL60D2(400 Watts) -10Amps



----- Max. Intermittent Torque
————— Max. Continuous Torque

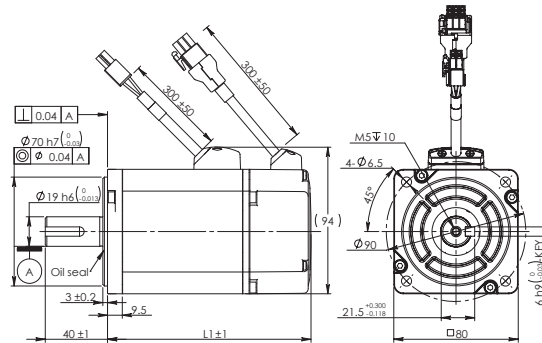
DC Servo Motors—Frame 80mm

Specifications

Model		SBL80D1-03	SBL80D2-01
Recommended Drive Input Voltage (DC-Bus)		48	80
Rated Output Power	watts	300	550
Rated Speed	rpm	3000	3000
Max. Speed	rpm	6000	5500
Rated Torque	Nm	0.95	1.8
Peak Torque	Nm	2.3	4.6
Rated Current	A (rms)	10	10
Peak Current	A (rms)	25	28
Voltage Constant $\pm 5\%$	V (rms) / K rpm	6.2	11.2
Torque Constant $\pm 5\%$	Nm / A (rms)	0.096	0.176
Winding Resistance(Line-Line)	Ohm @25°C	0.188	0.22
Winding Inductance(Line-Line)	mH (typ.)	0.85	1.25
Rotor Inertia	Kg·m ²	0.45×10^{-4}	0.63×10^{-4}
Rotor Inertia - With Brake	Kg·m ²	0.53×10^{-4}	0.71×10^{-4}
Shaft Load - Axial	N (max.)	90	90
Shaft Load - Radial (End of Shaft)	N (max.)	200	240
Weight	kg	1.7	2.2
Weight - With Brake	kg	2.5	3.0

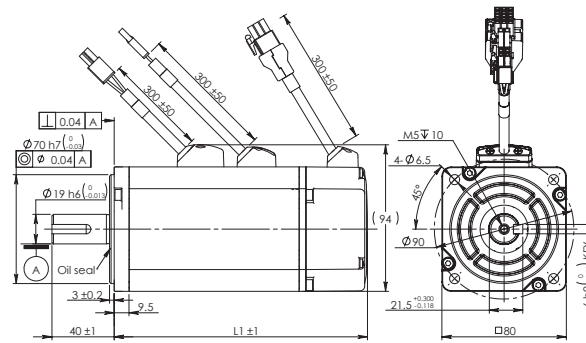
Dimensions (Unit:mm)

1) Without Brake



Without Brake	L1
SBL80D1-03	101
SBL80D2-01	116

2) With Brake

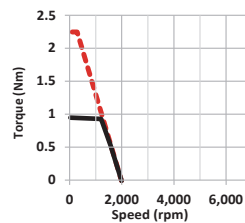


With Brake	L1
SBL80D1-03B	148
SBL80D2-01B	163

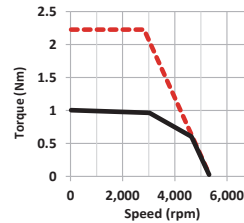
Torque Curves

Note: The torque and maximum speed depend on the DC bus voltage. Please choose proper supply voltage.

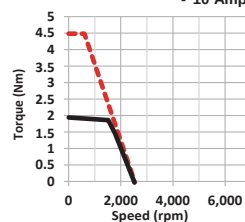
DC Bus--24VDC
SBL80D1(300 Watts) -10Amps



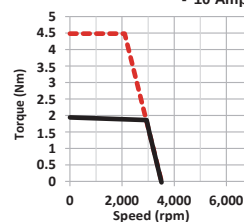
DC Bus--48VDC
SBL80D1(300 Watts) -10Amps



48 VDC
SBL80D2(550 Watts) - winding E
- 10 Amps



60 VDC
SBL80D2 (550 Watts) - winding E
- 10 Amps



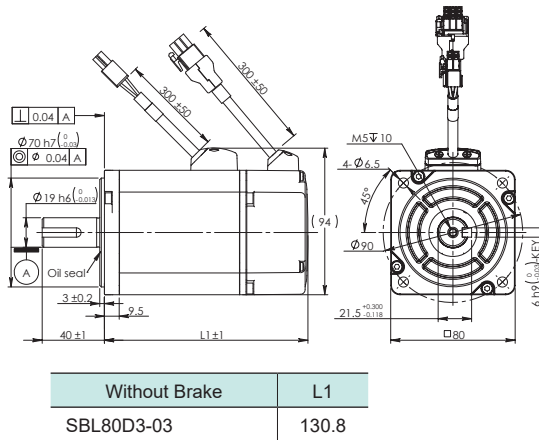
----- Max. Interimittent Torque
————— Max. Continuous Torque

DC Servo Motors—Frame 80mm

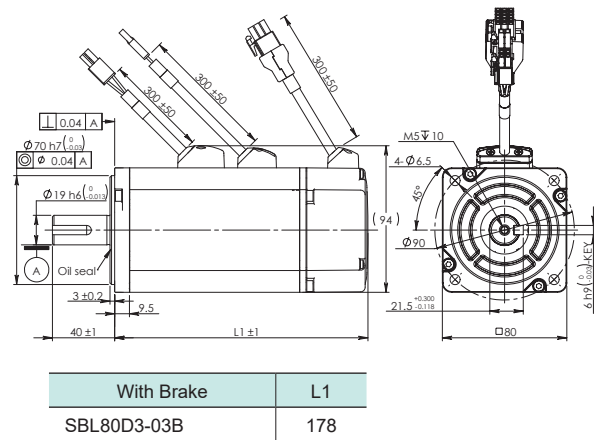
Model		SBL80D3-03
Recommended Drive Input Voltage (DC-Bus)		48
Rated Output Power	watts	750
Rated Speed	rpm	3000
Max. Speed	rpm	3600
Rated Torque	Nm	2.4
Peak Torque	Nm	6
Rated Current	A (rms)	22.5
Peak Current	A (rms)	56.5
Voltage Constant $\pm 5\%$	V (rms) / K rpm	7.8
Torque Constant $\pm 5\%$	Nm / A (rms)	0.11
Winding Resistance(Line-Line)	Ohm @25°C	0.06
Winding Inductance(Line-Line)	mH (typ.)	0.43
Rotor Inertia	Kg·m ²	0.89×10^{-4}
Rotor Inertia - With Brake	Kg·m ²	0.97×10^{-4}
Shaft Load - Axial	N (max.)	90
Shaft Load - Radial (End of Shaft)	N (max.)	270
Weight	kg	2.6
Weight - With Brake	kg	3.4

□ Dimensions (Unit:mm)

1) Without Brake

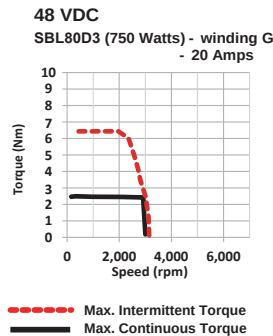


2) With Brake



□ Torque Curves

Note: The torque and maximum speed depend on the DC bus voltage. Please choose proper supply voltage.



■ Gearhead DC Servo Motors—Frame 40mm

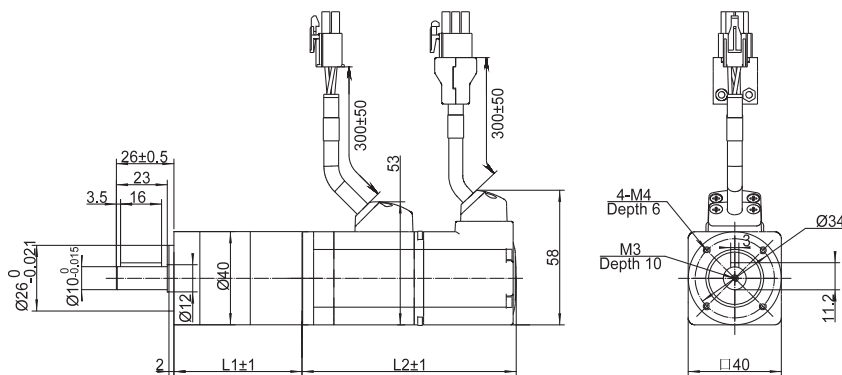
□ Specifications

Without Brake Type		SBL40D1-04-G05	SBL40D1-04-G10	SBL40D1-04-G20	SBL40D2-02-G05	SBL40D2-02-G10	SBL40D2-02-G20
With Brake Type		SBL40D1-04B-G05	SBL40D1-04B-G10	SBL40D1-04B-G20	SBL40D2-02B-G05	SBL40D2-02B-G10	SBL40D2-02B-G20
Motor Power	W	60			100		
Gear Ratio		5	10	20	5	10	20
Max. Output Torque	N·m	0.95	1.9	3.8	1.6	3.2	6.4
Peak Output Torque	N·m	2.4	4.8	11.4	4.65	9.3	18.6
Max Permissible Output Torque	N·m	6	8	12	6	8	40
Stage		1	1	2	1	1	2
Back lash	arcmin	≤12	≤12	≤15	≤12	≤12	≤15
Efficiency		96%	96%	94%	96%	96%	94%
Rated Output Speed	r/min	600	300	150	600	300	150
Max. Output Speed	r/min	1200	600	300	1200	600	300
Motor Rotor Inertia	Kg·m ²	0.0232×10 ⁻⁴ *(0.0298×10 ⁻⁴)			0.0428×10 ⁻⁴ *(0.0494×10 ⁻⁴)		
Gearhead Inertia	Kg·m ²	0.015×10 ⁻⁴	0.019×10 ⁻⁴	0.019×10 ⁻⁴	0.015×10 ⁻⁴	0.019×10 ⁻⁴	0.019×10 ⁻⁴
L1 Without Brake	mm	67.5	67.5	80.5	67.5	67.5	80.5
L2 Without Brake	mm	92	92	92	109	109	109
L1 With Brake	mm	67.5	67.5	80.5	67.5	67.5	80.5
L2 With Brake	mm	129	129	129	147	147	147

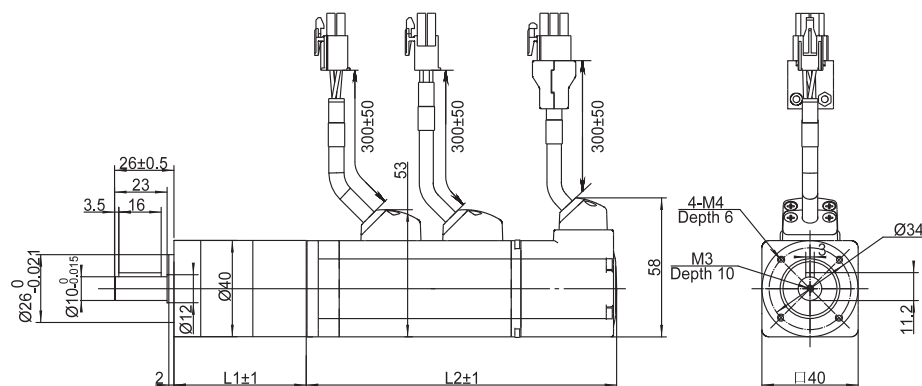
(*) With Brake

□ Dimensions (Unit:mm)

1) Without Brake



2) With Brake



■ Gearhead DC Servo Motors—Frame 60mm

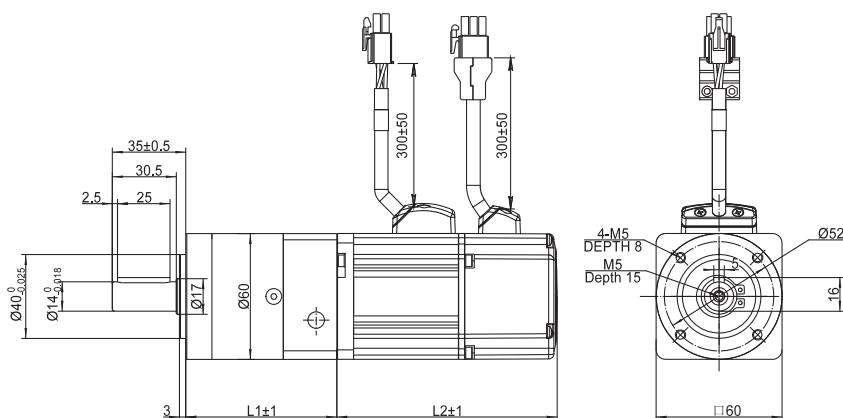
□ Specifications

Without Brake Type		SBL60D1-03-G05	SBL60D1-03-G10	SBL60D1-03-G20	SBL60D2-02-G05	SBL60D2-02-G10	SBL60D2-02-G20
With Brake Type		SBL60D1-03B-G05	SBL60D1-03B-G10	SBL60D1-03B-G20	SBL60D2-02B-G05	SBL60D2-02B-G10	SBL60D2-02B-G20
Motor Power	W	200			400		
Gear Ratio		5	10	20	5	10	20
Max. Output Torque	N·m	3.2	6.4	12.8	6.35	12.7	25.4
Peak Output Torque	N·m	9.5	19	38	19	38	76
Max Permissible Output Torque	N·m	32	24	88	32	24	88
Stage		1	1	2	1	1	2
Back lash	arcmin	≤10	≤10	≤15	≤10	≤10	≤15
Efficiency		96%	96%	94%	96%	96%	94%
Rated Output Speed	r/min	600	300	150	600	300	150
Max. Output Speed	r/min	1200	600	300	1200	600	300
Motor Rotor Inertia	Kg·m ²	0.165x10 ⁻⁴ *(0.22x10 ⁻⁴)			0.272x10 ⁻⁴ *(0.326x10 ⁻⁴)		
Gearhead Inertia	Kg·m ²	0.078x10 ⁻⁴	0.054x10 ⁻⁴	0.075x10 ⁻⁴	0.078x10 ⁻⁴	0.054x10 ⁻⁴	0.075x10 ⁻⁴
L1 Without Brake	mm	78.5	78.5	91.5	78.5	78.5	91.5
L2 Without Brake	mm	105	105	105	125	125	125
L1 With Brake	mm	78.5	78.5	91.5	78.5	78.5	91.5
L2 With Brake	mm	145	145	145	165	165	165

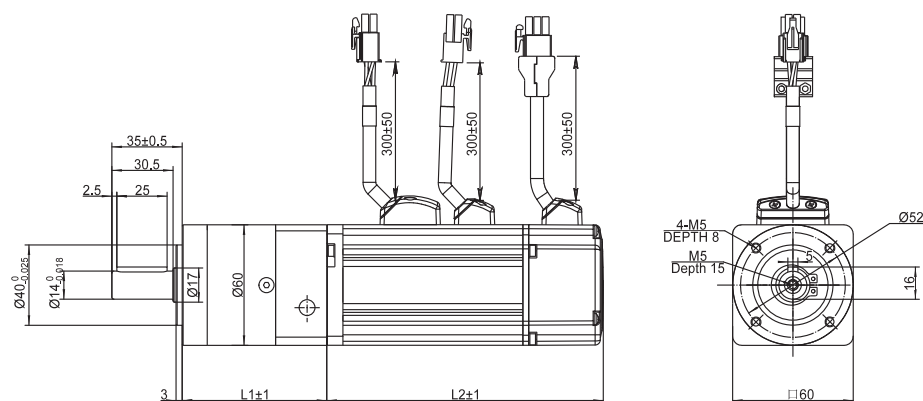
(*) With Brake

□ Dimensions (Unit:mm)

1) Without Brake



2) With Brake



■ Gearhead DC Servo Motors—Frame 80mm

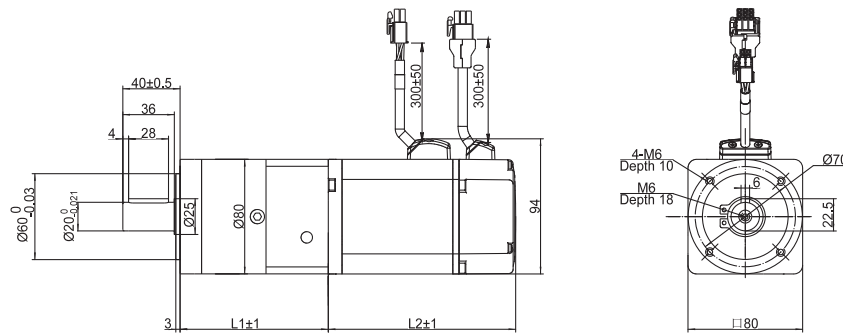
□ Specifications

Without Brake Type		SBL80D1-03-G05	SBL80D1-03-G10	SBL80D1-03-G20	SBL80D2-01-G05	SBL80D2-01-G10	SBL80D2-01-G20
With Brake Type		SBL80D1-03B-G05	SBL80D1-03B-G10	SBL80D1-03B-G20	SBL80D2-01B-G05	SBL80D2-01B-G10	SBL80D2-01B-G20
Motor Power	W	300			550		
Gear Ratio		5	10	20	5	10	20
Max.Output Torque	N·m	4.75	9.5	19	9	18	36
Peak Output Torque	N·m	11.5	23	46	23	46	92
Max Permissible Output Torque	N·m	100	80	240	100	80	240
Stage		1	1	2	1	1	2
Back lash	arcmin	≤10	≤10	≤15	≤10	≤10	≤15
Efficiency		96%	96%	94%	96%	96%	94%
Rated Output Speed	r/min	600	300	150	600	300	150
Max.Output Speed	r/min	1200	600	300	1200	600	300
Motor Rotor Inertia	Kg·m ²	0.45×10 ⁻⁴ *(0.53×10 ⁻⁴)			0.63×10 ⁻⁴ *(0.71×10 ⁻⁴)		
Gearhead Inertia	Kg·m ²	0.45×10 ⁻⁴	0.39×10 ⁻⁴	0.44×10 ⁻⁴	0.45×10 ⁻⁴	0.39×10 ⁻⁴	0.44×10 ⁻⁴
L1 Without Brake	mm	104	104	122	104	104	122
L2 Without Brake	mm	101	101	101	116	116	116
L1 With Brake	mm	104	104	122	104	104	122
L2 With Brake	mm	148	148	148	163	163	163

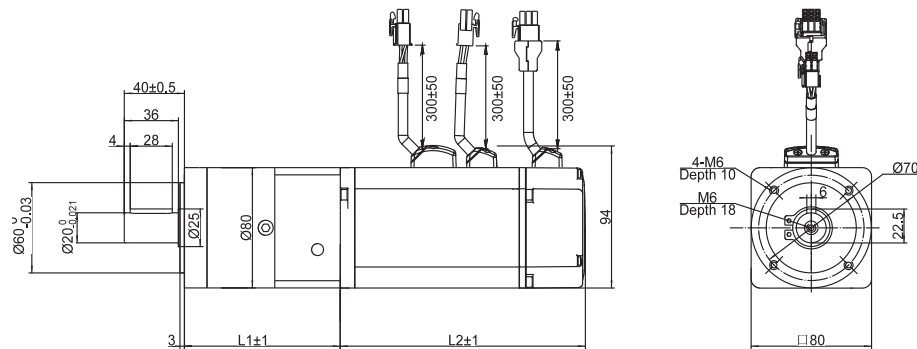
(*) With Brake

□ Dimensions (Unit:mm)

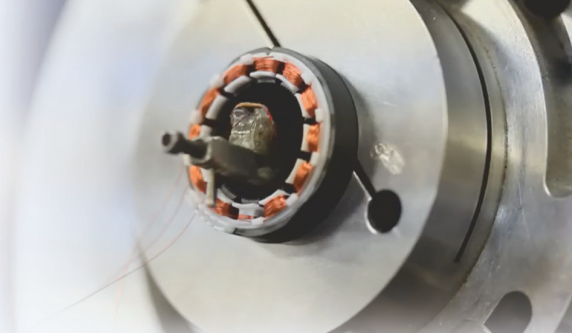
1) Without Brake



2) With Brake



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