PRODUCT DISPALY/

THE ALL NEW
EPS-B1 SERIES AC SERVO SYSTEMS

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EPS-B1 SERIES AC SERVO SYSTEMS:

220V CLASS: 0.2KW~5.5KW
380V CLASS: 1.0KW~55KW

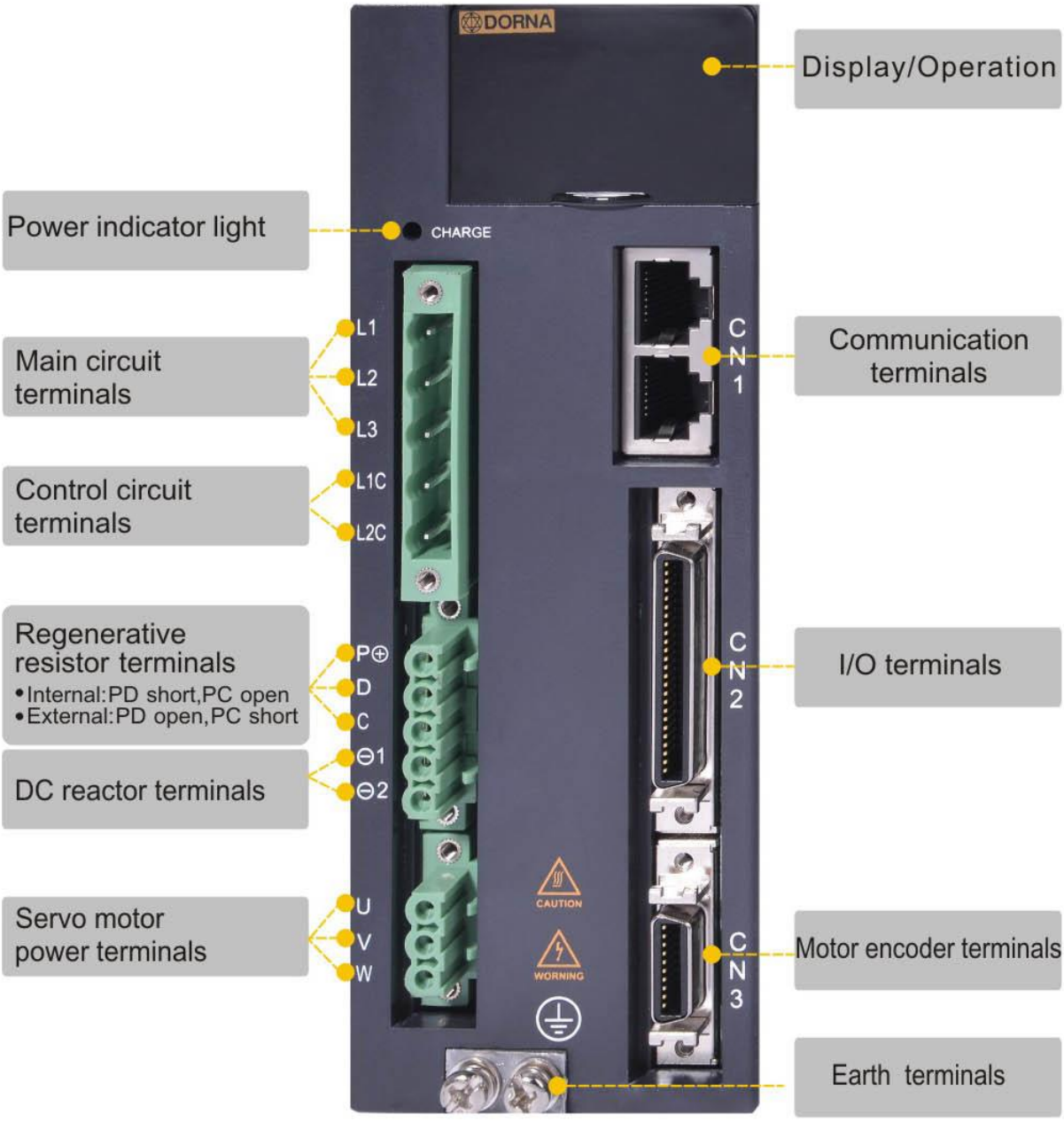
SERVO SYSTEMS SELECTION TABLES /

EPS-B1 AC SERVO SYSTEMS

Voltage Class	Rated power	Servo drive			Servo motor			
		Model	Pa012 Value	Case Type	Flange (mm)	Model	Rated speed	Rated torque
220V	0.2KW	EPS-B1-0D20AA	2	A	60	60DNMA1-0D20D	3000rpm	0.64 N·M
	0.4KW	EPS-B1-0D40AA	3	A	60	60DNMA1-0D40D	3000rpm	1.27 N·M
	0.75KW	EPS-B1-0D75AA	12	B	80	80DNMA1-0D75D	3000rpm	2.37 N·M
	1KW	EPS-B1-0001AA	13	B	80	80DNMA1-0001D	3000rpm	3.2 N·M
	1KW	EPS-B1-0001AA	33	B	130	130DNMA1-0001C	2000rpm	5 N·M
	1.2KW	EPS-B1-01D5AA	25	B	110	110DNMA1-01D2D	3000rpm	4 N·M
	1.2KW	EPS-B1-01D5AA	34	B	130	130DNMA1-01D2C	2000rpm	6 N·M
	1.5KW	EPS-B1-01D5AA	35	B	130	130DNMA1-01D5C	2000rpm	7.2 N·M
	1.5KW	EPS-B1-02D2AA	41	C	130	130DNMA1-01D5C	2000rpm	7.2 N·M
	1.8KW	EPS-B1-01D5AA	29	B	110	110DNMA1-01D8D	3000rpm	6 N·M
	2.2KW	EPS-B1-02D2AA	42	C	130	130DNMA1-02D2C	2000rpm	10.5 N·M
	3KW	EPS-B1-0003AA	45	C	130	130DNMA1-0003C	2000rpm	14.33 N·M
	3KW	EPS-B1-0003AA	70	C	180	180DNMA1-0003B	1500rpm	19.1 N·M
	4.5KW	EPS-B1-04D5AA	72	D	180	180DNMA1-04D5B	1500rpm	28.6 N·M
380V	2.2KW	EPS-B1-02D2BA	42	C	130	130DNMB1-02D2C	2000rpm	10.5 N·M
	3KW	EPS-B1-0003BA	45	C	130	130DNMB1-0003C	2000rpm	14.33 N·M
	3KW	EPS-B1-0003BA	70	C	180	180DNMB1-0003B	1500rpm	19.1 N·M
	4.5KW	EPS-B1-04D5BA	72	C	180	180DNMB1-04D5B	1500rpm	28.6 N·M
	5.5KW	EPS-B1-05D5BA	73	D	180	180DNMB1-05D5B	1500rpm	35N·M
	7.5KW	EPS-B1-07D5BA	74	D	180	180DNMB1-07D5B	1500rpm	47.7N·M
	11KW	EPS-B1-0011BA	109	E	180	180DNMB1-0011B	1500rpm	70 N·M
	15KW	EPS-B1-0015BA	125	E	220	200DNMB1-14D7C	2000rpm	70 N·M
	22KW	EPS-B1-0022BA	135	E	220	200DNMB1-0022C	2000rpm	105 N·M

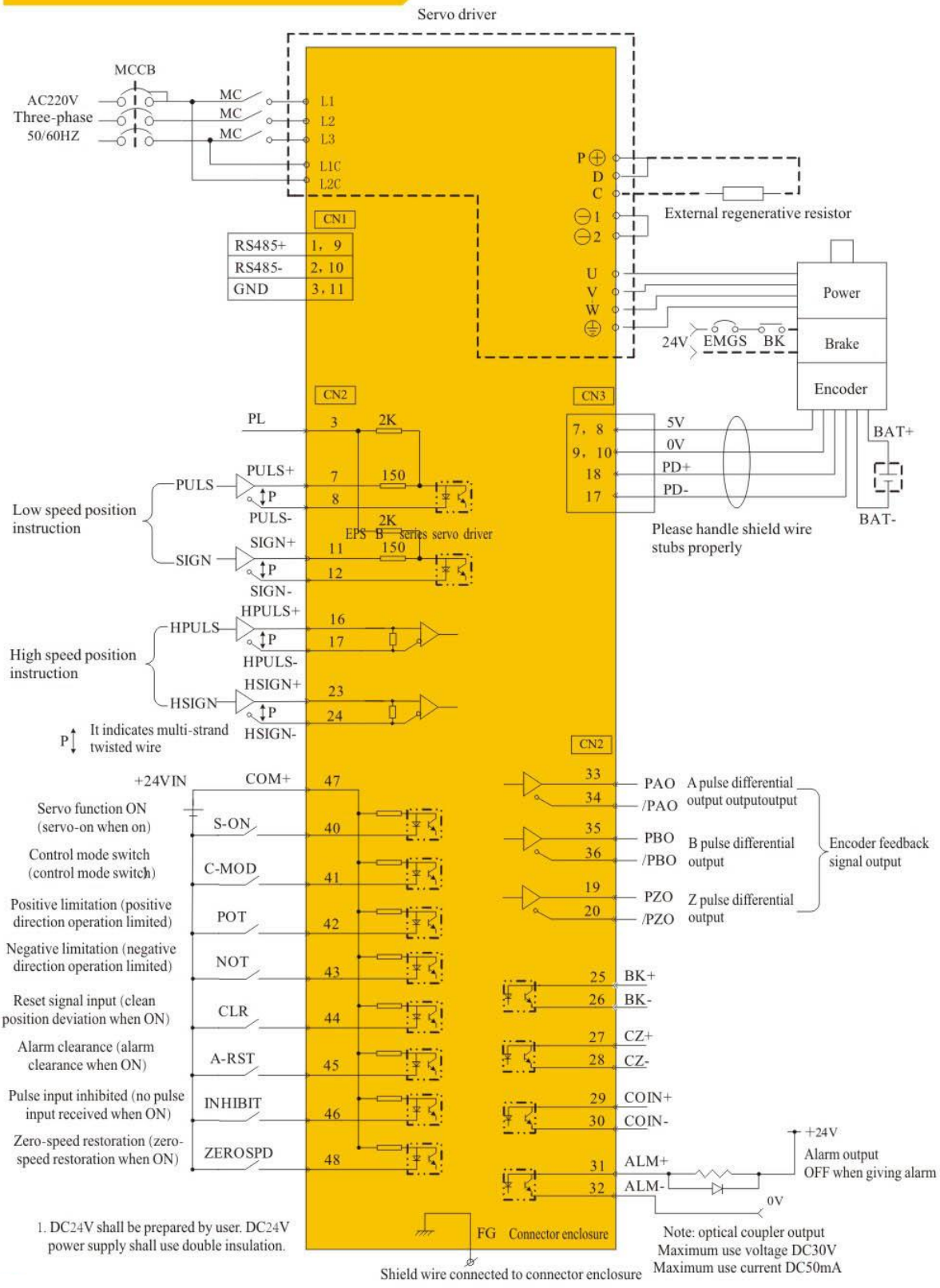
CONFIGURATION AND INTERFACES /

EPS-B1 AC SERVO SYSTEMS



STANDARD WIRING DIAGRAMS/

EPS-B1 AC SERVO SYSTEMS



SERVO DRIVE SPECIFICATIONS /

Basic specifications			
Input voltage	220VAC		Singe/Three Phase 220VAC -15%~+10%, 50/60Hz
	380VAC		Three Phase 380VAC -15%~+15%, 50/60Hz
Control mechanism			Single/Three phase full wave rectification IGBT PWM control, sine-wave current control
Feedback devices			5000-LINE (LINE SAVING, GAIN) 17-BIT SERIAL (GAIN) 17-BIT SERIAL (ABSOLUTE) 20-BIT SERIAL (GAIN) 2500-LINE MAGNETIC
Use conditions	Ambient temperature		Use temperature: 0~+55℃ Storage temperature: -20~85℃
	Humidity		Below 90%RH (no freezing or condensing)
	Vibration		4.9 m/s^2~19.6 m/s^2
	Protection class/cleanness		Protection class: IP10; Cleanness: 2 But should be: · With no corrosive or combustible gas · With no water, oil or drug splashing · With little dust, ash, salt or metallic powder
	Altitude		Below 1000m
Applicable standard			CE
Structure			Pedestal installation type
Performance	Speed control precision		1:5000
	Speed fluctuation range	Load fluctuation	0 ~100% load: below ?0.01% (at rated speed)
		Voltage fluctuation	Rated voltage ±10% : 0.001% (at rated speed)
		Temperature fluctuation	25±25℃: below±0.1% (at rated speed)

SERVO DRIVE SPECIFICATIONS /

	Torque control precision (repeatable)		±3%	
	Soft start time		0~10S (acceleration or deceleration)	
Input/output signals	Encoder pulse output		Line drive output: A Phase, B Phase, Z Phase Pulse count: 5000 line-saving encoder: 16~5000; 17 bit serial encoder:16~16384; 20 bit serial encoder: 16~1,048,576.	
	Sequential input signals	Assignable input signals	Pin number	8
			Functions	S-ON, C-MODE, POT, NOT, CLR, A-RST, GAIN, INHIBIT, ZEROSPD, PCL, NCL etc.
	Sequential output signals	Unassignable output signals	Pin number	1 (ALM)
		Assignable output signals	Pin number	3
			Functions	ALM, COIN, CZ, BK-OFF, S-RDY, etc.
Communication functions	RS485	1:N	With relay, maximum N=31	
		Address setting	By parameter setting	
		Devices	PC, uppder controller	
	EtherCAT		EPS-B1 series only	
Display/keypad			7 LED X 5 bit, 4 buttons	
Dynamic brake (DB) (optional)			At Servo OFF, forward/backward rotation inhibition, power OFF, or stop due to failure.	
Regenerative functions			Internal or external	
Over-travel (OT) protections			POT,NOT. DB, deceleration to stop, coast to stop.	
Protection functions			Over-current, over-voltage, under-voltage, over-load, regenerative fault, etc.	

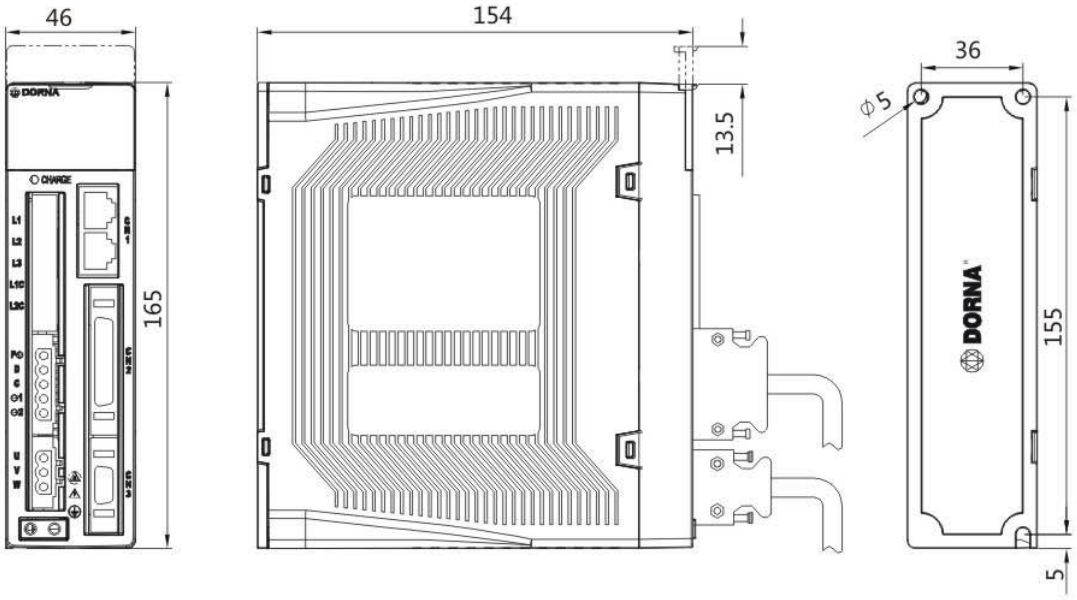
SERVO DRIVE CURRENTS /

(Important when choosing the correct servo drive for the servo motor)

Item	Model	Rated current	Maximum current
1	EPS-B1-0D10A	1.3A	3.9A
2	EPS-B1-0D20A	2.0A	6.0A
3	EPS-B1-0D40A	3.0A	9.0A
4	EPS-B1-0D75A	4.0A	11.5A
5	EPS-B1-0001A	6.0A	16.0A
6	EPS-B1-01D5A	7.6A	18.0A
7	EPS-B1-02D2A	11.5A	30.0A
8	EPS-B1-0003A	15.5A	42.0A
9	EPS-B1-04D5A	19.0A	47.0A
10	EPS-B1-01D5B	4.5A	13.5A
11	EPS-B1-02D2B	6.0A	18.0A
12	EPS-B1-0003B	8.0A	24.0A
13	EPS-B1-04D5B	10A	30A
14	EPS-B1-05D5B	13A	39A
15	EPS-B1-07D5B	18A	48A
16	EPS-B1-0011B	25A	63A
17	EPS-B1-0015B	35A	95A
18	EPS-B1-0022B	48A	125A

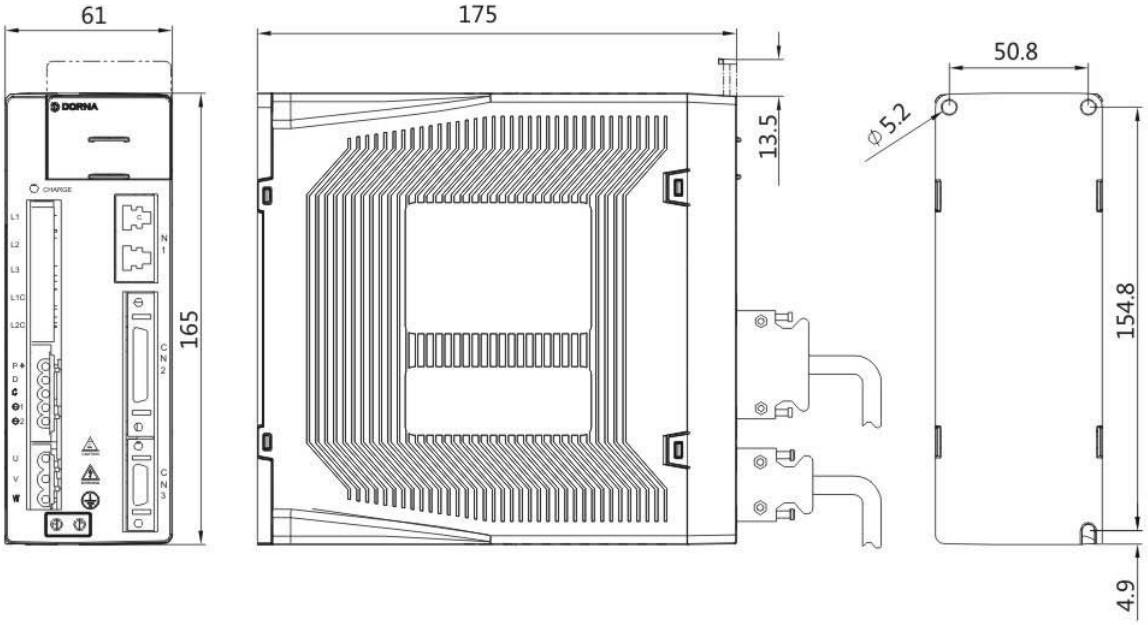
SERVO DRIVE DIMENSIONS

A Type case: 220V class 0.05KW ~ 0.4KW

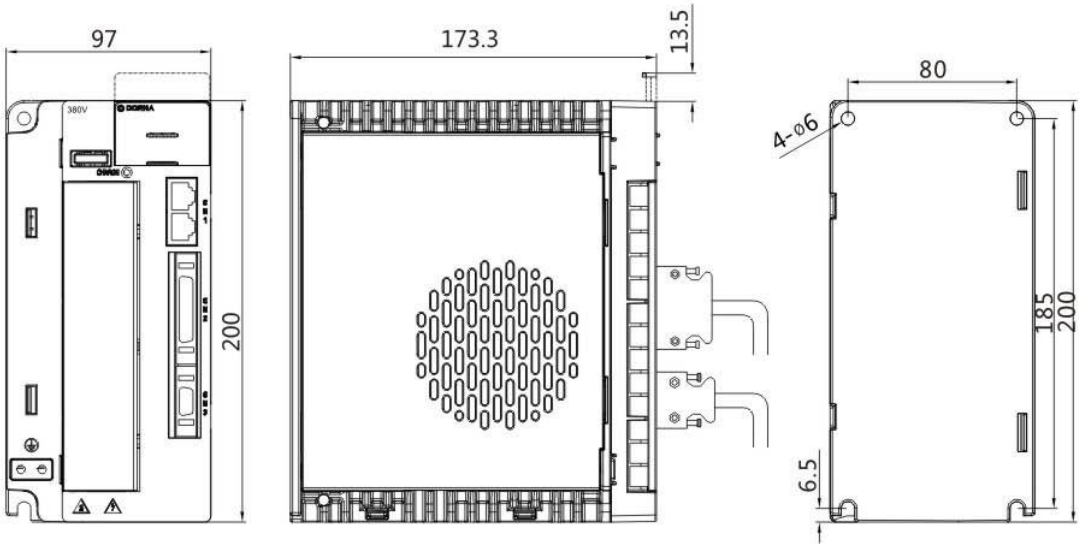


SERVO DRIVE DIMENSIONS /

B Type case: 220V class 0.75KW ~ 1.5KW

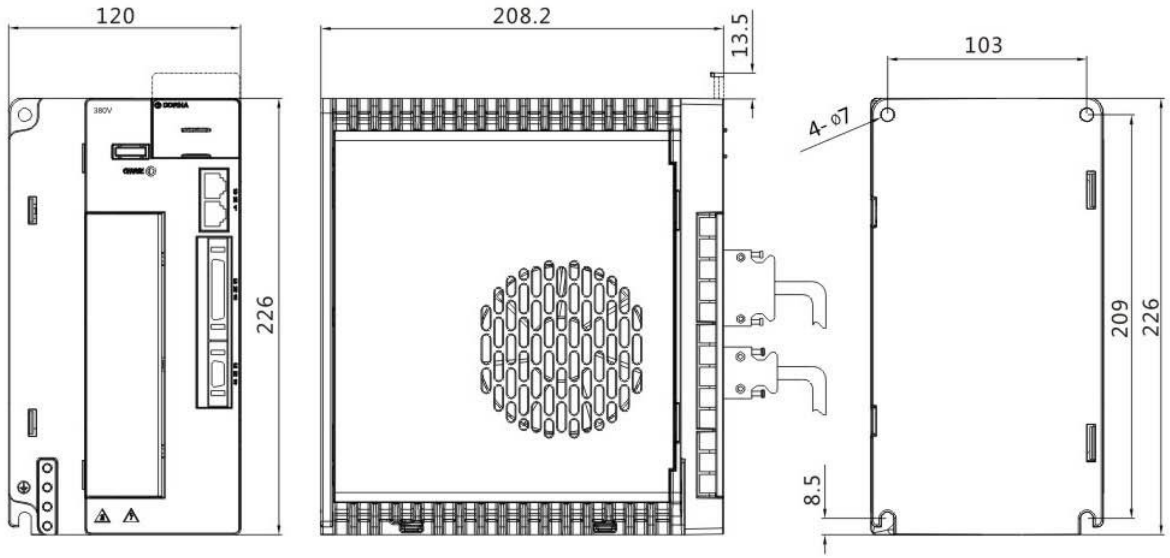


C Type case: 220V class 2.2KW~3KW; 380V class1.5KW ~ 4.5KW

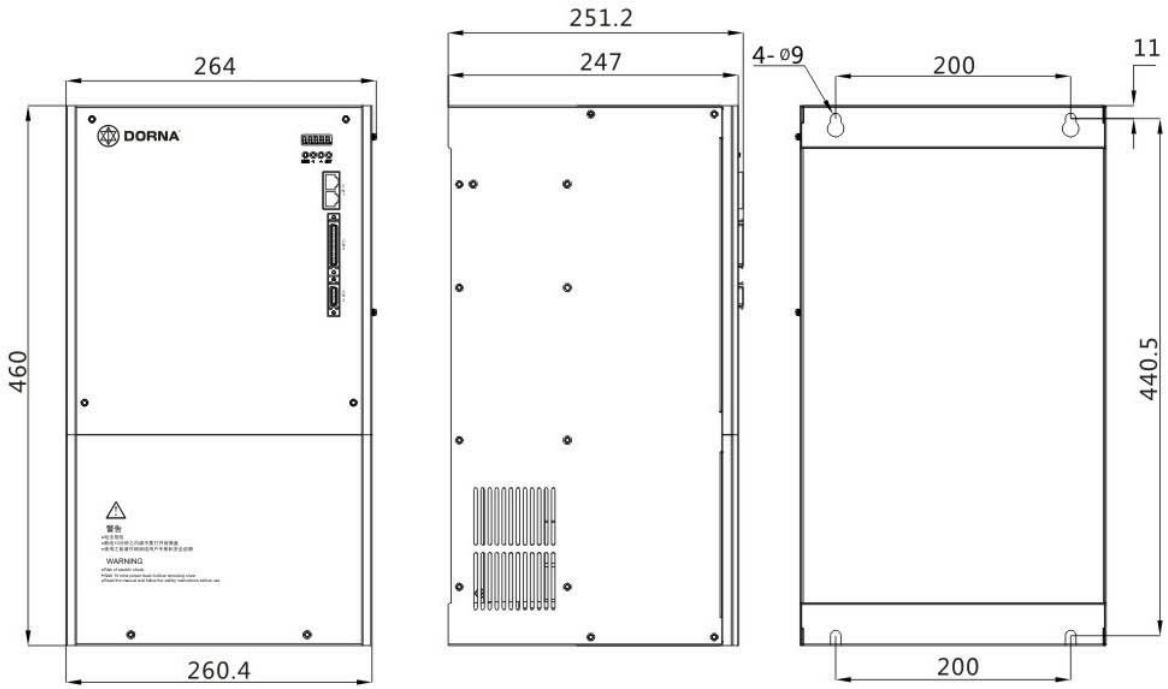


SERVO DRIVE DIMENSIONS /

D Type case: 220V class 4.5KW~5.5KW, 380V class 5.5KW ~ 7.5KW



E Type case: 380V class 11KW~22KW

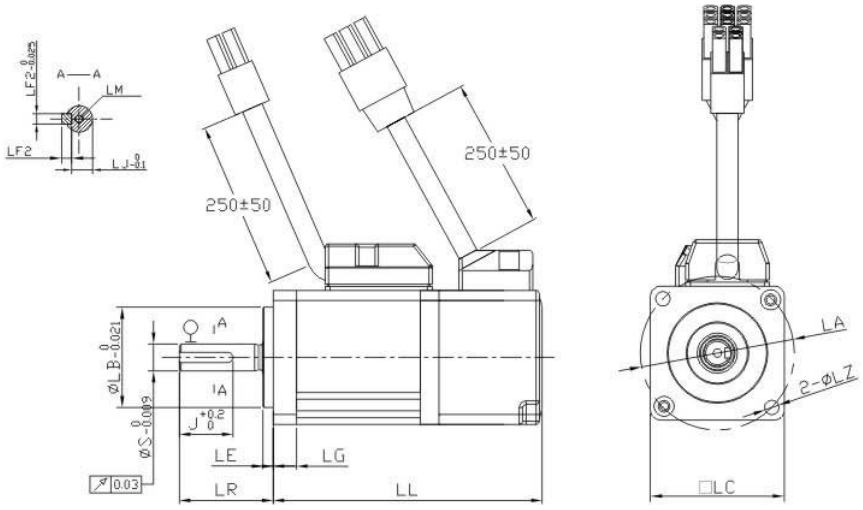


SERVO MOTOR SPECIFICATIONS & DIMENSIONS

Motor Parameters — 40 Servo Motor Series

Servo Motor series	40 series	
Servo Motor model	40DNMA2-0D05D	40DNMA2-0D10D
Input voltage	220VAC	220VAC
Inertia	Medium	
Rated power (W)	50	100
Rated torque (N*m)	0.16	0.32
Rated current (A)	1.1	0.96
Maximum current (A)	5000	5000
Rated speed (rpm)	3.3	2.7
Maximum speed (rpm)	3000	3000
Torque constant (N*m/Amp)	0.14	0.35
Back EMF constant (V/Krpm)	9.5	22.5
Rotary inertia (with brake) (10^{-4}Kg*m^2)	0.023 (0.020)	0.048 (0.05)
Resistance (line-line) (Ω)	11.4	15
Inductance (line-line) (mH)	10.1	15.8
Mass (with brake) (kg)	0.4 (0.5)	0.6 (0.8)
LL (with brake) (mm)	80.3(117)	105.3(137)
LR (mm)	28	28
LE (mm)	3	3
LG (mm)	7	7
S (mm)	8	8
LJ1 (mm)	0	0
LJ (mm)	6.2	6.2
J (mm)	16	16
LF1 (mm)	3	3
LF2 (mm)	3	3
LM (mm)	M3 deep 8	M3 deep 8
LA (mm)	46	46
LB (mm)	30	30
LC (mm)	40	40
LZ (mm)	4.3	4.3

Motor outline



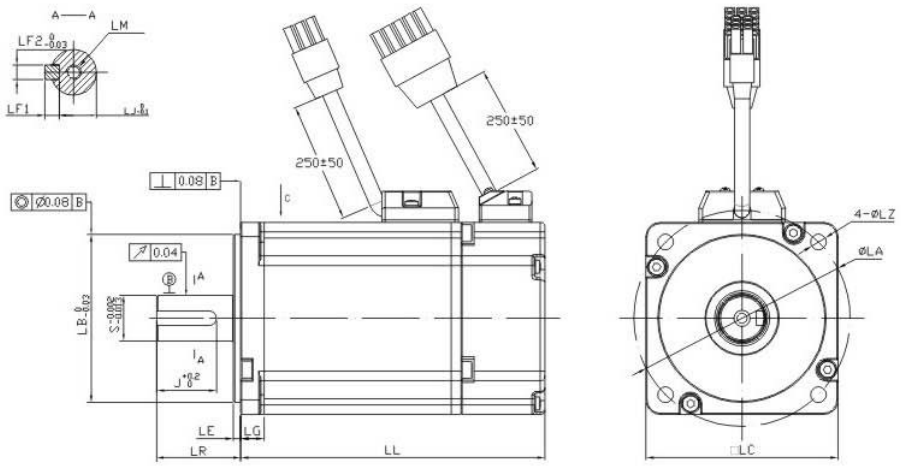
SERVO MOTOR SPECIFICATIONS & DIMENSIONS

Motor Parameters

60 Servo Motor Series

Servo Motor series	60 series			
Servo Motor model	60DNMA1-0D20	60DNMA2-0D20	60DNMA1-0D40	60DNMA2-0D40
Input voltage	220VAC	220VAC	220VAC	220VAC
Inertia	Medium	High	Medium	High
Rated power (W)	200	200	400	400
Rated torque (N*m)	0.64	0.64	1.27	1.27
Rated current (A)	1.7	1.4	2.9	2.5
Maximum current (A)	5.1	4.2	9	7.5
Rated speed (rpm)	3000	3000	3000	3000
Maximum speed (rpm)	5000	5000	5000	5000
Torque constant (N*m/Amp)	0.37	0.45	0.43	0.508
Back EMF constant (V/Krpm)	24	29	28.7	33
Rotary inertia (with brake) (10^{-4}Kg*m^2)	0.14 (0.16)	0.14 (0.16)	0.24 (0.25)	0.67 (0.68)
Resistance (line-line) (Ω)	6	8.4	3.8	4.28
Inductance (line-line) (mH)	16	26.5	11	15.4
Mass (with brake) (kg)	1.03 (1.53)	1.03 (1.53)	1.43 (1.89)	1.59 (2.05)
LL (with brake) (mm)	105(140)	105(140)	125(160)	140(175)
LR (mm)	30	30	30	30
LE (mm)	3	3	3	3
LG (mm)	8	8	8	8
S (mm)	14	14	14	14
LJ1 (mm)	0	0	0	0
LJ (mm)	11	11	11	11
J (mm)	20	20	20	20
LF1 (mm)	5	5	5	5
LF2 (mm)	5	5	5	5
LM (mm)	M4 deep 15	M4 deep 15	M4 deep 15	M4 deep 15
LA (mm)	70	70	70	70
LB (mm)	50	50	50	50
LC (mm)	60	60	60	60
LZ (mm)	5.5	5.5	5.5	5.5

Motor outline

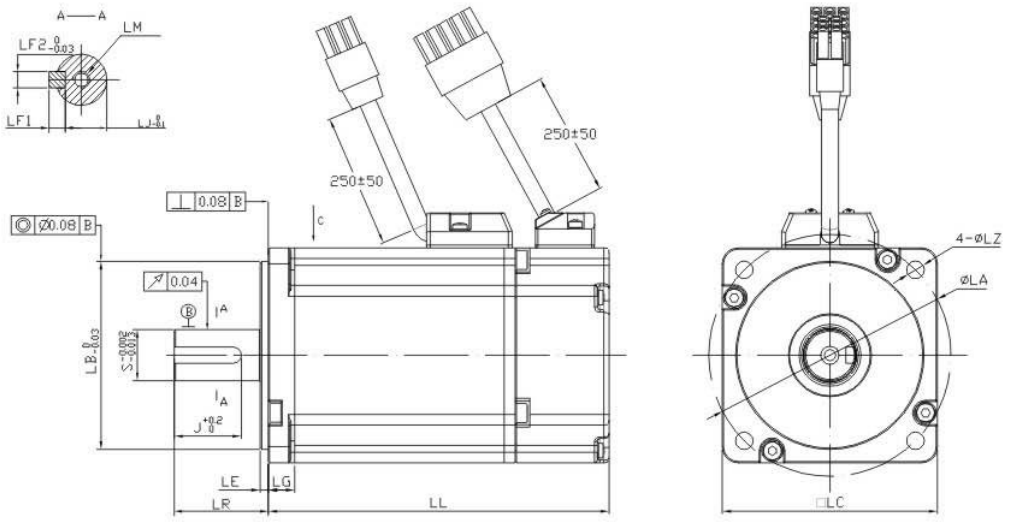


SERVO MOTOR SPECIFICATIONS & DIMENSIONS

Motor Parameters — 80 Servo Motor Series

Servo Motor series	80 Series			
Servo Motor model	80DNMA1-0D75	80DNMA2-0D75	80DNMA1-0001	80DNMA2-0001
Input voltage	220VAC	220VAC	220VAC	220VAC
Inertia	Medium	High	Medium	
Rated power (W)	750	750	1000	1000
Rated torque (N*m)	2.39	2.39	3.18	3.18
Rated current (A)	4.1	3.7	5.5	5.1
Maximum current (A)	12.5	11.1	15.1	15.3
Rated speed (rpm)	3000	3000	3000	3000
Maximum speed (rpm)	5000	5000	5000	5000
Torque constant (N*m/Amp)	0.58	0.64	0.43	0.62
Back EMF constant (V/Krpm)	40	43	40	41
Rotary inertia (with brake) (10^{-4}Kg*m^2)	0.88 (0.92)	1.5 (1.53)	1.12 (1.15)	1.12 (1.15)
Resistance (line-line) (Ω)	1.5	1.5	1.21	1.2
Inductance (line-line) (mH)	7.9	7.9	6.2	6.1
Mass (with brake) (kg)	2.66 (3.76)	2.93 (4.03)	3.12 (4.22)	3.12 (4.12)
LL (with brake) (mm)	129.7(168.9)	144.7(183.9)	144.7(183.9)	144.7(183.9)
LR (mm)	35	35	35	35
LE (mm)	3	3	3	3
LG (mm)	8	8	8	8
S (mm)	19	19	19	19
LJ1 (mm)	0	0	0	0
LJ (mm)	15.5	15.5	15.5	15.5
J (mm)	25	25	25	25
LF1 (mm)	6	6	6	6
LF2 (mm)	6	6	6	6
LM (mm)	M5 deep 20	M5 deep 20	M5 deep 20	M5 deep 20
LA (mm)	90	90	90	90
LB (mm)	70	70	70	70
LC (mm)	80	80	80	80
LZ (mm)	6.5	6.5	6.5	6.5

Motor outline



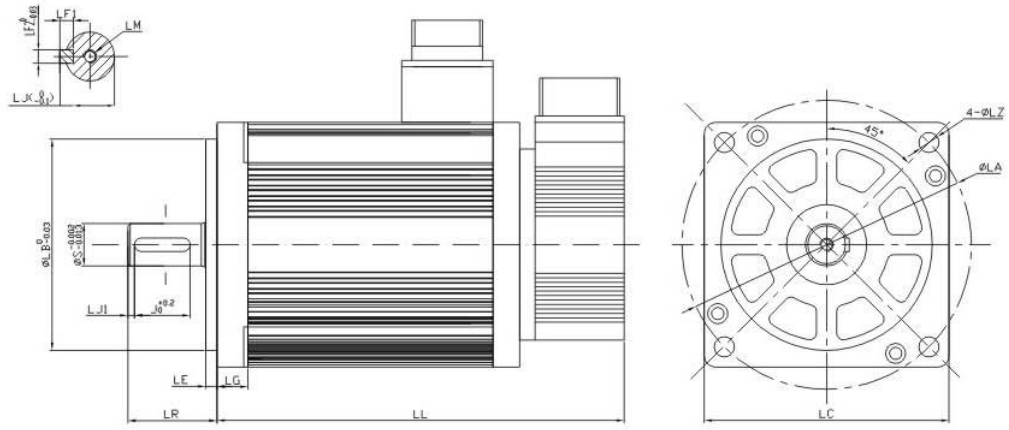
SERVO MOTOR SPECIFICATIONS & DIMENSIONS

Motor Parameters

110 Servo Motor Series

Servo Motor series	110 Series	
Servo Motor model - new	110DNMA1-0D80C	110DNMA1-01D2C
Servo Motor model - old	110DNA-08C	110DNA-12C
Input voltage	220VAC	
Rated power (KW)	0.8	1.2
Rated torque (N*m)	3.58	5.73
Maximum torque (N*m)	10.74	17.19
Rated current (A)	4	5.6
Maximum current (A)	12	16.8
Rated speed (rpm)	2000	2000
Maximum speed (rpm)	2500	2500
Torque constant (N*m/Amp)	0.90	1.02
Back EMF constant(V/Krpm)	80	78
Rotary inertia (with brake) (10^{-4}Kg*m^2)	6.6 (6.7)	8.8 (8.9)
Resistance (line-line) (Ω)	2.14	1.5
Inductance (line-line) (mH)	7.45	5.3
Mass (with brake) (kg)	5 (6.3)	6.5 (7.8)
LL (with brake) (mm)	184(236)	204(256)
LR (mm)	40	40
LE (mm)	5	5
LG (mm)	14	14
S (mm)	19	19
LJ1 (mm)	3	3
LJ (mm)	21.5	21.5
J (mm)	25	25
LF1 (mm)	6	6
LF2 (mm)	6	6
LM (mm)	M5 deep 15	M5 deep 15
LA (mm)	130	130
LB (mm)	95	95
LC (mm)	110	110
LZ (mm)	9	9

Motor outline

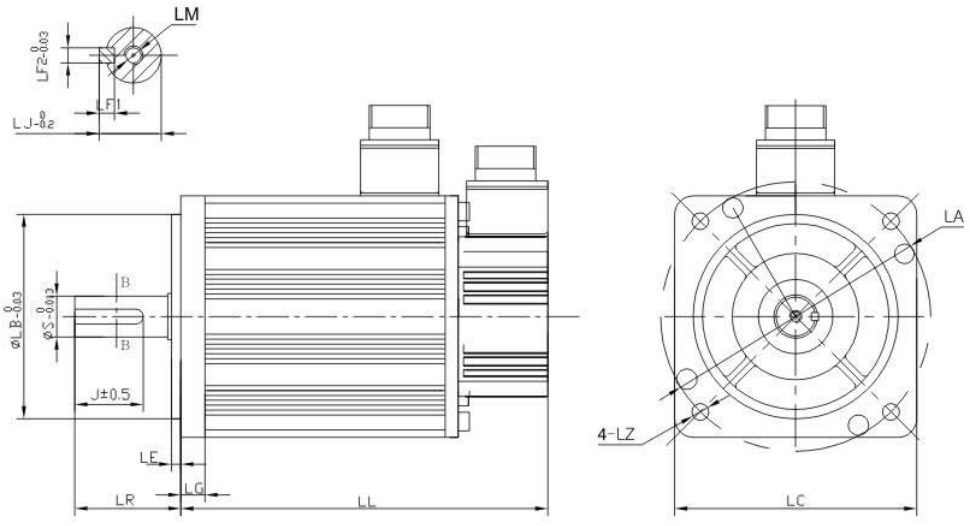


SERVO MOTOR SPECIFICATIONS & DIMENSIONS

Motor Parameters — 130 Servo Motor Series

Servo Motor series	130 Series				
Servo Motor model	130DNMA1-0001C	130DNMA1-01D2C	130DNMA1-01D5C	130DNMA1-02D2C	130DNMA1-0003C
Input voltage	220VAC				
Rated power (KW)	1	1.2	1.5	2.2	3
Rated torque (N*m)	4.77	5.73	7.16	10.5	14.33
Maximum torque (N*m)	14.31	17.2	21.48	31.5	42.99
Rated current (A)	4.9	6.3	8	10.5	16.9
Maximum current (A)	14.7	18.9	24	31.5	50.7
Rated speed (rpm)	2000	2000	2000	2000	2000
Maximum speed (rpm)	3000	3000	3000	3000	3000
Torque constant (N*m/Amp)	0.97	0.91	0.9	1	0.848
Back EMF constant(V/Krpm)	64	64	64	66	64
Rotary inertia (with brake)(10^{-4}Kg*m^2)	8.3 (8.6)	10.4 (10.7)	12.2 (12.5)	15.6 (15.9)	22.9 (23.2)
Resistance (line-line) (Ω)	1.3	0.9	0.65	0.5	0.27
Inductance (line-line) (mH)	8	6.1	4.7	3.9	2.2
Mass (with brake) (kg)	7.2 (10)	8.2 (11)	9.2 (12)	11 (13.8)	15 (17.8)
LL (with brake) (mm)	172(231)	181 240)	197(256)	219(278)	267(326)
LR (mm)	57	57	57	57	57
LE (mm)	5	5	5	5	5
LG (mm)	13	13	13	13	13
S (mm)	22	22	22	22	22
LJ1 (mm)	0	0	0	0	0
LJ (mm)	24.5	24.5	24.5	24.5	24.5
J (mm)	36	36	36	36	36
LF1 (mm)	6	6	6	6	6
LF2 (mm)	6	6	6	6	6
LM (mm)	M6 deep 15	M6 deep 15	M6 deep 15	M6 deep 15	M6 deep 15
LA (mm)	145	145	145	145	145
LB (mm)	110	110	110	110	110
LC (mm)	130	130	130	130	130
LZ (mm)	9	9	9	9	9

Motor outline

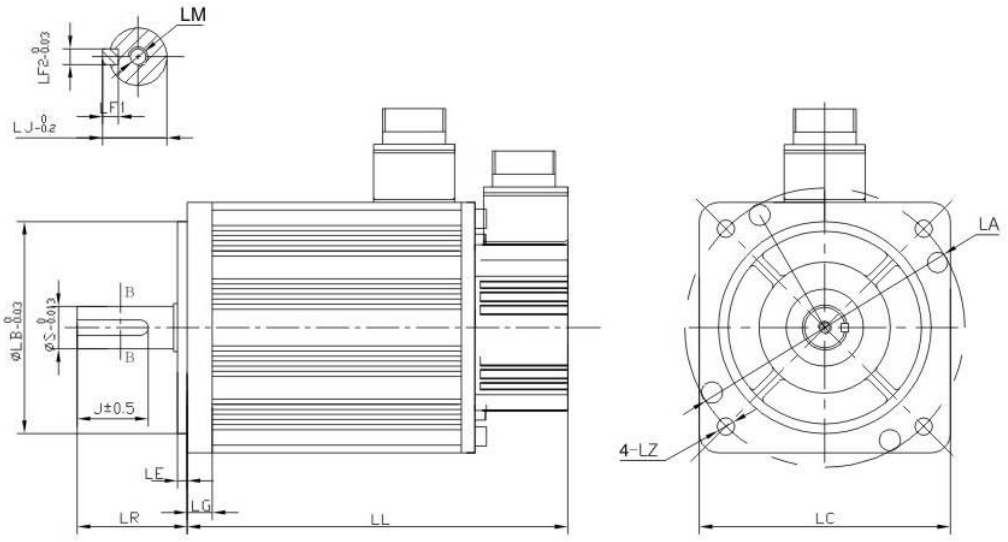


SERVO MOTOR SPECIFICATIONS & DIMENSIONS

Motor Parameters — 130 Servo Motor Series

Servo Motor series	130 Series			
Servo Motor model	130DNMB1-0001C	130DNMB1-01D5C	130DNMB1-02D2C	130DNMB1-0003C
Input voltage	380VAC			
Rated power (KW)	1	1.5	2.2	3
Rated torque (N*m)	4.77	7.16	10.5	14.33
Maximum torque (N*m)	14.31	21.48	31.5	42.99
Rated current (A)	3.2	4.5	6.2	8.7
Maximum current (A)	9.6	13.5	18.6	26.1
Rated speed (rpm)	2000	2000	2000	2000
Maximum speed (rpm)	3000	3000	3000	3000
Torque constant (N*m/Amp)	1.49	1.59	1.69	1.64
Back EMF constant(V/Krpm)	113	120	120	117
Rotary inertia (with brake) (10^{-4}Kg*m^2)	8.3 (8.6)	10.4 (10.7)	15.6 (15.9)	22.9 (23.2)
Resistance (line-line) (Ω)	3.9	2.02	1.45	0.78
Inductance (line-line) (mH)	25	14	11	7
Mass (with brake) (kg)	7.5 (10.3)	9.6 (12.4)	11.5 (13.3)	16 (18.8)
LL (with brake) (mm)	172(231)	197(256)	219(278)	267(326)
LR (mm)	57	57	57	57
LE (mm)	5	5	5	5
LG (mm)	13	13	13	13
S (mm)	22	22	22	22
LJ1 (mm)	0	0	0	0
LJ (mm)	24.5	24.5	24.5	24.5
J (mm)	36	36	36	36
LF1 (mm)	6	6	6	6
LF2 (mm)	6	6	6	6
LM (mm)	M6 deep 15	M6 deep 15	M6 deep 15	M6 deep 15
LA (mm)	145	145	145	145
LB (mm)	110	110	110	110
LC (mm)	130	130	130	130
LZ (mm)	9	9	9	9

Motor outline

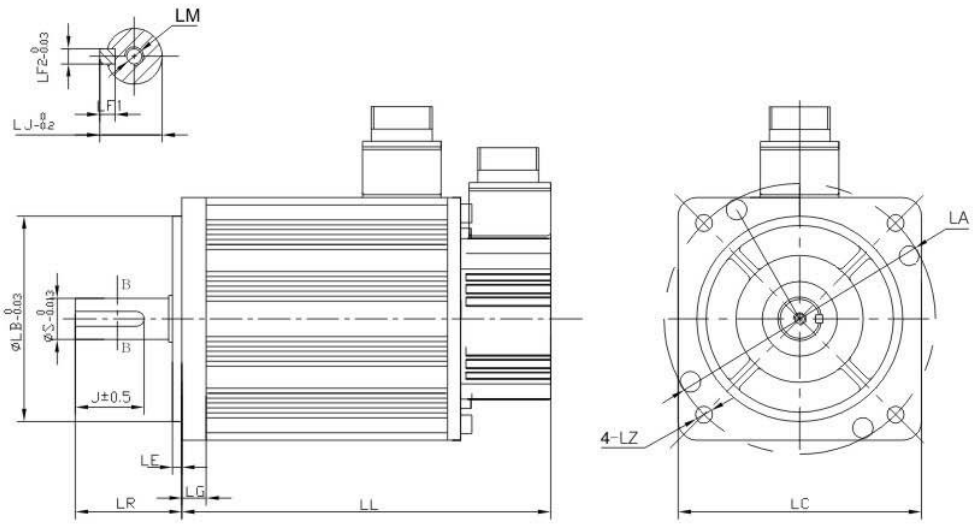


SERVO MOTOR SPECIFICATIONS & DIMENSIONS

Motor Parameters — 130 Servo Motor Series

Servo Motor series	130 Series					
Servo Motor model	13DNMA2-0D85D	130DNMA2-0001C	130DNMA2-01D3B	130DNMA2-01D5C	130DNMA2-0002C	130DNMA2-0003C
Input voltage	220VAC	220VAC	220VAC	220VAC	220VAC	220VAC
Inertia	Medium					
Rated power (W)	850	1000	1300	1500	2000	3000
Rated torque (N*m)	5.4	4.77	8.27	7.16	9.55	14.33
Rated current (A)	5.7	5	9.32	8.4	10.3	13.5
Maximum current (A)	17.1	15	28	25.2	30.1	40.5
Rated speed (rpm)	1500	2000	1500	2000	2000	2000
Maximum speed (rpm)	3000	3000	3000	3000	3000	3000
Torque constant (N*m/Amp)	0.95N.m/Arms	0.95N.m/Arms	0.89N.m/Arms	0.85N.m/Arms	0.93N.m/Arms	1.07N.m/Arms
Back EMF constant(V/Krpm)	67.5V/Krpm	66V/Krpm	61.7V/Krpm	59.8V/Krpm	72.6V/Krpm	76V/Krpm
Rotary inertia (with brake)(10^{-4}Kg*m^2)	8.08 (8.5)	7.1 (7.5)	12.1 (12.5)	10.6 (11.1)	13.8 (14.3)	20.4 (20.9)
Resistance (line-line) (Ω)	0.93	1.08	0.45	0.543	0.52	0.32
Inductance (line-line) (mH)	11.4	12.8	5.7	6.3	6.8	4.7
Mass (with brake) (kg)	7.2 (9.5)	6.5 (8.8)	7.6 (9.9)	8 (10.5)	9.6 (11.9)	12.6 (14.9)
LL (with brake) (mm)	160 (204)	154 (198)	182 (226)	173 (217)	192 (236)	230 (274)
LR (mm)	58	58	58	58	58	58
LE (mm)	6	6	6	6	6	6
LG (mm)	12	12	12	12	12	12
S (mm)	22	22	22	22	22	22
LJ1 (mm)	0	0	0	0	0	0
LJ (mm)	18	18	18	18	18	18
J (mm)	36	36	36	36	36	36
LF1 (mm)	7	7	7	7	7	7
LF2 (mm)	8	8	8	8	8	8
LM (mm)	M6 deep 15	M6 deep 15	M6 deep 15	M6 deep 15	M6 deep 15	M6 deep 15
LA (mm)	145	145	145	145	145	145
LB (mm)	110	110	110	110	110	110
LC (mm)	130	130	130	130	130	130
LZ (mm)	9.5	9.5	9.5	9.5	9.5	9.5

Motor outline

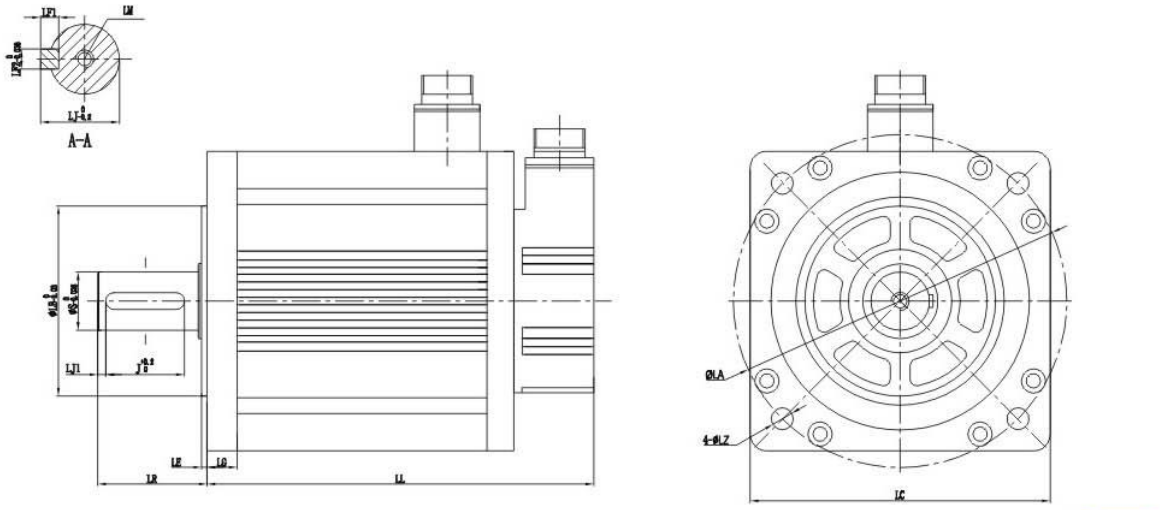


SERVO MOTOR SPECIFICATIONS & DIMENSIONS

Motor Parameters — 180 Servo Motor Series

Servo Motor series	180 Series					
Servo Motor model - new	180DNMA1-0003B	180DNMA1-04D5B	180DNMB1-0003B	180DNMB1-04D5B	180DNMB1-05D5B	180DNMB1-07D5B
Servo Motor model - old	180DNA-30B	180DNA-45B	DNBB18-0003B	DNBB18-04D5B	DNBB18-05D5B	DNBB18-07D5B
Input voltage	220VAC		380VAC			
Rated power (KW)	3	4.5	3	4.5	5.5	7.5
Rated torque (N*m)	19.1	28.6	19.1	28.6	35	47.7
Maximum torque (N*m)	57.3	85.8	57.3	85.8	105	143.1
Rated current (A)	12	18.4	6.8	10.3	12.5	17.5
Maximum current (A)	36	55.2	20.4	30.9	37.5	52.5
Rated speed (rpm)	1500	1500	1500	1500	1500	1500
Maximum speed (rpm)	2000	2000	2000	2000	2000	2000
Torque constant (N*m/Amp)	1.59	1.55	2.81	2.78	2.80	2.73
Back EMF constant(V/Krpm)	107	112	225	210	200	142
Rotary inertia (with brake)(10^{-4}Kg*m^2)	47.7 (48.2)	69 (69.5)	47.7 (48.2)	69 (69.5)	77.5 (78)	121 (121.5)
Resistance (line-line) (Ω)	0.67	0.32	2.9	1.18	0.88	0.24
Inductance (line-line) (mH)	4.65	3.3	21	10	9.4	2.45
Mass (with brake) (kg)	19.5 (24.5)	23.5 (28.5)	20 (25)	24 (29)	31.5 (36.5)	37 (42)
LL (with brake) (mm)	212(287)	252(327)	212(287)	252(327)	272(347)	332(407)
LR (mm)	65	65	65	65	65	65
LE (mm)	3.2	3.2	3.2	3.2	3.2	3.2
LG (mm)	18	18	18	18	18	18
S (mm)	35	35	35	35	35	35
LJ1 (mm)	3	3	3	3	3	3
LJ (mm)	38	38	38	38	38	38
J (mm)	51	51	51	51	51	51
LF1 (mm)	8	8	8	8	8	8
LF2 (mm)	10	10	10	10	10	10
LM (mm)	M8 deep 20	M8 deep 20	M8 deep 20	M8 deep 20	M8 deep 20	M8 deep 20
LA (mm)	200	200	200	200	200	200
LB (mm)	114.3	114.3	114.3	114.3	114.3	114.3
LC (mm)	180	180	180	180	180	180
LZ (mm)	13	13	13	13	13	13

Motor outline

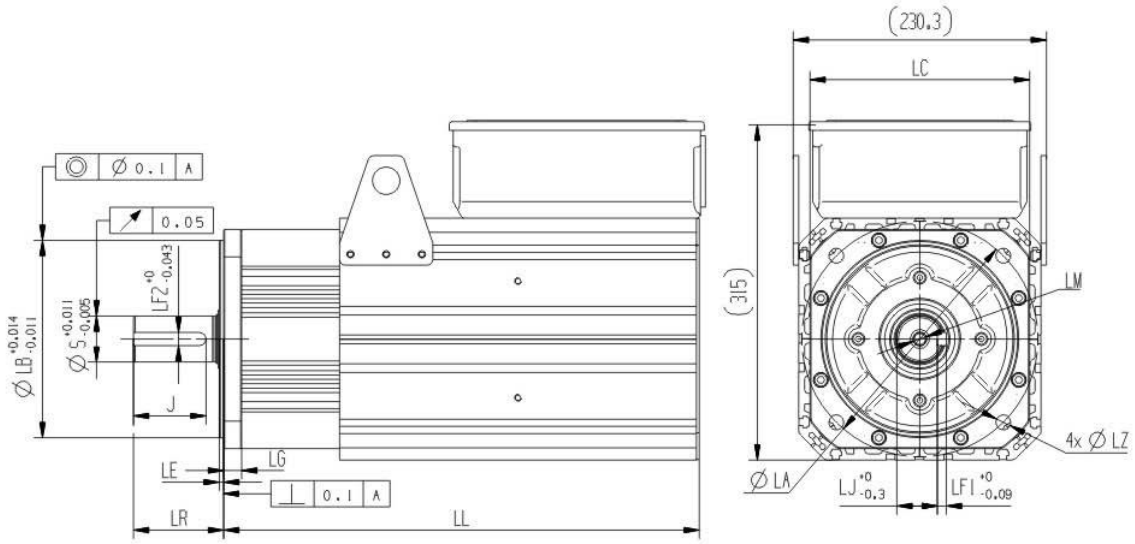


SERVO MOTOR SPECIFICATIONS & DIMENSIONS

Motor Parameters — 200 Servo Motor Series

Servo Motor series	200 Series				
Servo Motor model	200DNMB1-07D3C	200DNMB1-0011D	200DNMB1-07D3A	200DNMB1-14D7C	200DNMB1-0022D
Input voltage	380VAC				
Rated power (KW)	7.3	11.0	7.3	14.7	22.0
Rated torque (N*m)	35	35	70	70	70
Maximum torque (N*m)	105	105	210	210	210
Rated current (A)	13	20	15	25	37
Maximum current (A)	39.8	61.2	45.9	76.5	113.2
Rated speed (rpm)	2000	3000	1000	2000	3000
Maximum speed (rpm)	2400	3200	1200	2400	3200
Torque constant (N*m/Amp)	2.69	1.75	4.67	2.80	1.89
Back EMF constant(V/Krpm)	1.5	1.08	3.2	1.5	1.08
Rotary inertia (with brake) (10^{-4}Kg*m^2)	5.5	5.5	10	10	10
Resistance (line-line) (Ω)	1.2	0.5	1.9	0.48	0.21
Inductance (line-line) (mH)	13	6.1	27	6.08	3.06
Mass (with brake) (kg)	35	37	45	47	49
LL (with brake) (mm)	363	363	433	433	433
LR (mm)	82	82	82	82	82
LE (mm)	4	4	4	4	4
LG (mm)	16.5	16.5	16.5	16.5	16.5
S (mm)	42	42	42	42	42
LJ1 (mm)	0	0	0	0	0
LJ (mm)	37	37	37	37	37
J (mm)	66	66	66	66	66
LF1 (mm)	8	8	8	8	8
LF2 (mm)	12	12	12	12	12
LM (mm)	M12 deep 30	M12 deep 30	M12 deep 30	M12 deep 30	M12 deep 30
LA (mm)	215	215	215	215	215
LB (mm)	180	180	180	180	180
LC (mm)	200	200	200	200	200
LZ (mm)	13.5	13.5	13.5	13.5	13.5

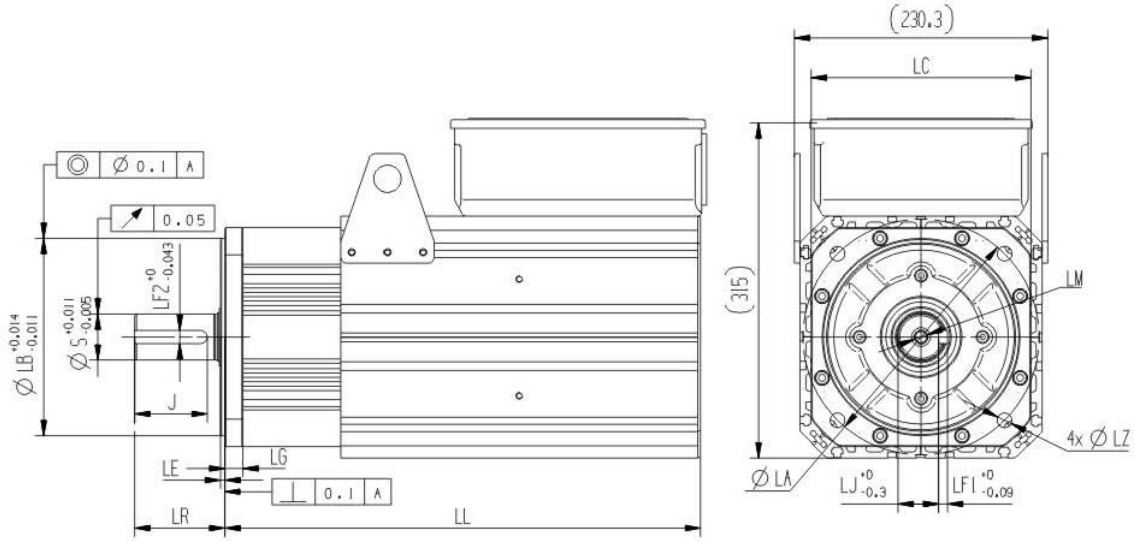
Motor outline



SERVO MOTOR SPECIFICATIONS & DIMENSIONS

Motor Parameters

200 Servo Motor Series

Servo Motor series	200 Series					
Servo Motor model	200DNMB1-0011A	200DNMB1-0022C	200DNMB1-0033D	200DNMB1-14D7A	200DNMB1-29D3C	200DNMB1-0044D
Input voltage	380VAC					
Rated power (KW)	11.0	22.0	33.0	14.7	29.0	44.0
Rated torque (N*m)	105	105	105	140	140	140
Maximum torque (N*m)	315	315	315	420	420	420
Rated current (A)	20	37	55	25	55	85
Maximum current (A)	61.2	113.2	168.3	76.5	168.3	260.1
Rated speed (rpm)	1000	2000	3000	1000	2000	3000
Maximum speed (rpm)	1200	2400	3200	1200	2400	3200
Torque constant (N*m/Amp)	5.25	2.84	1.91	5.60	2.55	1.65
Back EMF constant(V/Krpm)	3.2	1.5	1.08	3.2	1.5	1.08
Rotary inertia (with brake) (10^{-4}Kg*m^2)	14	14	14	17.5	17.5	17.5
Resistance (line-line) (Ω)	1.13	0.3	0.14	0.78	0.18	0.086
Inductance (line-line) (mH)	18.4	4.5	2.08	13.1	2.7	1.58
Mass (with brake) (kg)	58	60	62	70	72	74
LL (with brake) (mm)	503	503	503	573	573	573
LR (mm)	82	82	82	82	82	82
LE (mm)	4	4	4	4	4	4
LG (mm)	16.5	16.5	16.5	16.5	16.5	16.5
S (mm)	42	42	42	42	42	42
LJ1 (mm)	0	0	0	0	0	0
LJ (mm)	37	37	37	37	37	37
J (mm)	66	66	66	66	66	66
LF1 (mm)	8	8	8	8	8	8
LF2 (mm)	12	12	12	12	12	12
LM (mm)	M12 deep 30	M12 deep 30	M12 deep 30	M12 deep 30	M12 deep 30	M12 deep 30
LA (mm)	215	215	215	215	215	215
LB (mm)	180	180	180	180	180	180
LC (mm)	200	200	200	200	200	200
LZ (mm)	13.5	13.5	13.5	13.5	13.5	13.5

Motor outline