

Motion & Control

AEG

Brushless Servomotors



Technical Catalogue

C  US

motor
technology
... control in motion

 **LAFERTGROUP**

All dimensional and electrical data could be changed without notice
All data have to be considered as preliminary data.
The illustrations are not binding.



	Page
Index	1
ORDER CODES	2
MOTORS "COMPACT VERSION"	
SINUSOIDAL 4 POLES: B28S COMPACT MOTORS.	3
SINUSOIDAL 8 POLES: B36P COMPACT MOTORS.	4
SINUSOIDAL 8 POLES: B56S COMPACT MOTORS.	5
SINUSOIDAL 4 POLES: B56J COMPACT MOTORS.	6
SINUSOIDAL 6 POLES: B63S COMPACT MOTORS.	7
SINUSOIDAL 8 POLES: B71S COMPACT MOTORS.	8
SINUSOIDAL 8 POLES: B100J COMPACT MOTORS.	9
SINUSOIDAL 6 POLES: B100S COMPACT MOTORS.	10

ORDER CODES

STALL TORQUE CODE (2 digit):

Integer: digit + digit

Eg.: 02= 2Nm; 12=12Nm; 25=25Nm

Fractional: letter + digit

Eg.: D6 =0,6Nm; E2=1,2Nm; F8=2,2Nm

(D=0; E=1; F=2; G=3; H=4; I=5; L=6;

M=7; N=8, O=9)

Over hundred: letter+ digit/letter: Eg.:

C0=100Nm; CA=105Nm; C1=110Nm; CB=115Nm;

C2=120Nm; CC=125Nm; C3=130Nm;

CD=135Nm;...

B0=200Nm; BA=205Nm; B1=210Nm; BB=115Nm;

B2=200Nm; BC=225Nm...

D0=300Nm;.. E0=400Nm;.. F0=500Nm

MOTOR SIZE (2 digit):

28 - Flange 58

36 - Flange 70

56 - Flange 92

63 - Flange 115

71 - Flange 142

10 - Flange 190

13 - Flange 240

16 - Flange 350

PRODUCT TYPE (1 digit):

B - Complete Brushless Servomotor

F - Brushless Servomotor components

SPEED (1 digit):

0 = 500

1 = 1200 A = 1500

2 = 2000 B = 2500

3 = 3000 C = 3500

4 = 4000 D = 4500

5 = 5000 E = 5500

6 = 6000 F = 6500

7 = 7000 G = 7500

8 = 8000 H = 8500

9 = 9000 I = 9500

J = 10000 K = 10500

L = 11000 M = 11500

N = 12000 O = 12500

P = 13000 Q = 13500

R = 14000

CONNECTION TYPE (1 digit):

1 - Signal connector + power connector.

2 - Power + thermal sensor on terminal board & signal connector.

3 - Pg hole for power & signal connector + thermal sensor.

4 - Straight connectors on endshield.

5 - Cables signal & power exit - (Std length = 1,2m)

6 - 90° angled connectors

7 - Turnable 90° angled connectors

8 - Power & signal straight connectors on end cover

VOLTAGE (1 digit):

H = 380/400V

M = 220/230V

L = 165V

FEEDBACK (2 digit):

00 - Without feedback

01 - Tacho with Hall sensors

02 - Tacho with Hall sensors + encoder arrangement.

x3 - Encoder + tacho with Hallsensors (*).

04 - Tacho with Hall sensors + encoder arrangement.

05 - Resolver 2 poles.

x6 - Encoder without Hall sensors(*)

07 - Hall sensors only.

x8 - Resolver + Encoder (*)

x9 - Encoder with Hall sensors (*)

10 - Resolver 2 poli + encoder arrangement.

RS - Single-turn encoder Stegmann SRS50

RM - Multi-turn encoder Stegmann SRM50

Ex - Encoder Heidenain ()**

(*) ENCODER COUNT OPTION:

A3/A6/A8/A9 - 250i/g

B3/B6/B8/B9 - 256i/g

C3/C6/C8/C9 - 500i/g

D3/D6/D8/D9 - 512i/g

E3/E6/E8/E9 - 1000i/g

03/06/08/09 - 1024i/g

I3/I6/I8/I9 - 1500i/g

L3/L6/L8/L9 - 2000i/g

F3/F6/F8/F9 - 2048i/g

G3/G6/G8/G9 - 4000i/g

H3/H6/H8/H9 - 4096i/g

M3/M6/M8/M9 - Inductive

Enc. 64i/g

(**) ENCODER HEIDENAIN:

E0 - ECN 1313

E1 - EQN 1325

E2 - ECI 1317

E3 - EQI 1329

E4 - ECN 1113

E5 - EQN 1125

B 63 08 I 3 H 1 A 05 0 0 00

CUSTOMER OPTIONS (2 digit)

BRAKE AND SHAFT EXIT (1 digit):

A - Without brake, keyed shaft

B - With brake, keyed shaft

C - With reinforced brake, keyed shaft

D - Without brake, smooth shaft

E - With brake, smooth shaft

F - With reinforced brake, smooth shaft

CONNECTION DIRECTION (1 digit):

0 - Standard

1 - Position 1

2 - Position 2

3 - Position 3

COOLING SYSTEM (1 digit):

0 - Natural convection

V - Forced Ventilation 230Vac from NDE to DE

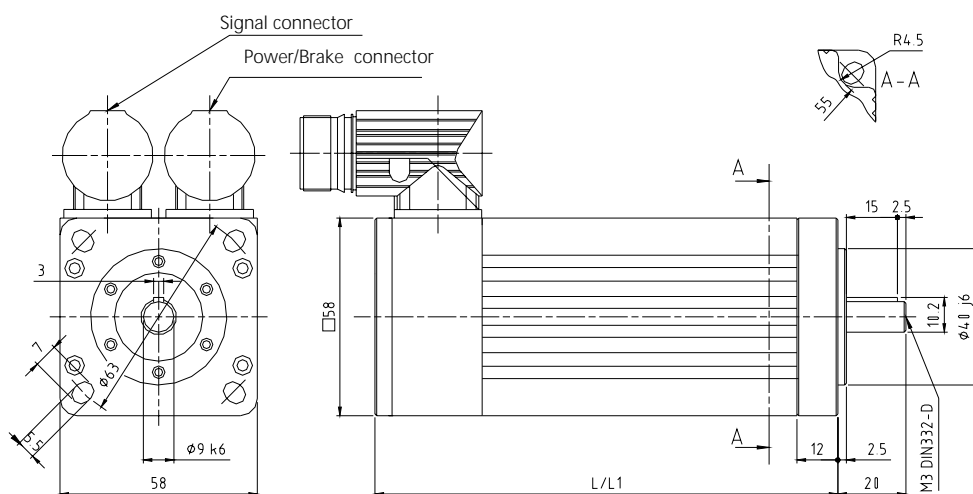
U - Forced Ventilation 230Vac from DE to NDE

X - Forced Ventilation 24Vdc from NDE to DE

W - Liquid cooling

SIZE	SERIE	DESCRIPTION	SIZE	SERIE	DESCRIPTION
28	I	2 Poles	71	I	6 Poles
	S	4 Poles Compact		P	8 Poles
	P	8 Poles		J	8 Poles Low J
36	I	4 Poles	100	I	6 Poles
	P	8 Poles		S	6 poles Compact
	S	8 Poles Compact		J	8 poles Low J
	J	4 Poles Low J		I	6 poles
56	D	16 Poles	132	P	16 poles
	I	4 Poles		160	
	P	8 Poles			
	S	8 Poles Compact			
63	J	4 Poles Low J			
	I	6 Poles			
	P	8 Poles			
	S	8 Poles Compact			
	J	10 Poles Low J			

Sinusoidal motors: B28S voltages H(400 Volt) and M(230 Volt)



L=Motor length with resolver as transducer
 L1=Motor length with encoder as transducer

Type	Nm	L[mm] without brake	L1[mm] without brake	Peso [Kg] without brake	L[mm] with brake	L1[mm] with brake	Peso [Kg] with brake
B28 D2S	0.20	106	126	1.40	129.5	149.5	1.55
B28 D4S	0.40	121	141	1.60	144.5	164.5	1.75
B28 D6S	0.60	136	156	1.80	159.5	179.5	1.95
B28 D8S	0.80	151	171	2.00	174.5	194.5	2.15

Characteristics				Physical data					Thermal data						
Stall torque (Dt=100°C)	Rated speed	Output at rated speed	Rated torque	Peak torque	Maximum speed	Moment of Inertia	Peak torque acceleration	Thermal time constant	Thermal protection threshold	Voltage constant	Torque constant	BEMF at rated speed	Stall current	Rated current	
M0	n	Pn	Mn	Mpk	nmax	J	apk	Tth	Jmax	ke	kt	En	I0	In	
Nm	1/min	W	Nm	Nm	rpm	10 ⁻⁴ Kgm ²	rad/sec ²	min	°C	Vs	Nm/A	V	A	A	

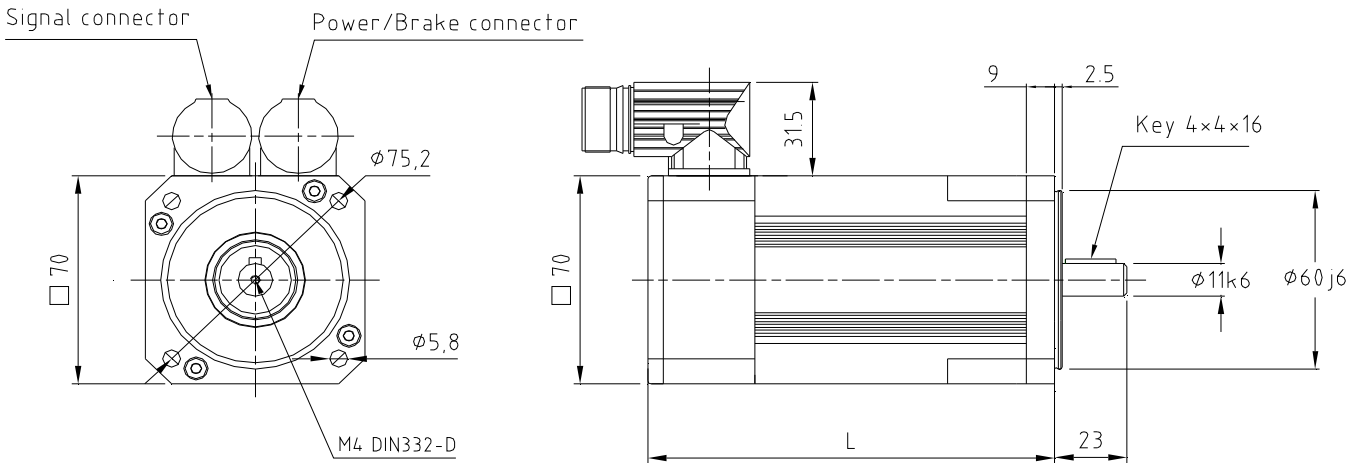
Voltage M (230 Volt) - 3000/6000 Min-1 (4 poles) -Connection Y

B28D2S 3M	0,2	3000	60	0,2	0,7	6000	0,07	100000	32	140	0,48	0,84	152	0,2	0,2
B28D4S 3M	0,4	3000	123	0,4	1,4	6000	0,13	107692	35	140	0,48	0,84	152	0,5	0,5
B28D6S 3M	0,6	3000	182	0,6	2,1	6000	0,18	116667	38	140	0,48	0,84	152	0,7	0,7
B28D8S 3M	0,8	3000	242	0,8	2,8	6000	0,23	121739	40	140	0,48	0,84	152	1,0	0,9
B28D2S 6M	0,2	6000	107	0,2	0,7	6000	0,07	100000	32	140	0,24	0,42	152	0,5	0,4
B28D4S 6M	0,4	6000	220	0,4	1,4	6000	0,13	107692	35	140	0,24	0,42	152	1,0	0,8
B28D6S 6M	0,6	6000	327	0,5	2,1	6000	0,18	116667	38	140	0,24	0,42	152	1,4	1,2
B28D8S 6M	0,8	6000	434	0,7	2,8	6000	0,23	121739	40	140	0,24	0,42	152	1,9	1,6

Voltage H (400 Volt) - 3000/6000 Min-1 (4 poles) -Connection Y

B28D2S 3H	0,2	3000	60	0,2	0,7	6000	0,07	100000	32	140	0,84	1,45	263	0,1	0,1
B28D4S 3H	0,4	3000	123	0,4	1,4	6000	0,13	107692	35	140	0,84	1,45	263	0,3	0,3
B28D6S 3H	0,6	3000	182	0,6	2,1	6000	0,18	116667	38	140	0,84	1,45	263	0,4	0,4
B28D8S 3H	0,8	3000	242	0,8	2,8	6000	0,23	121739	40	140	0,84	1,45	263	0,6	0,5
B28D2S 6H	0,2	6000	107	0,2	0,7	6000	0,07	100000	32	140	0,42	0,73	265	0,3	0,2
B28D4S 6H	0,4	6000	220	0,4	1,4	6000	0,13	107692	35	140	0,42	0,73	265	0,5	0,5
B28D6S 6H	0,6	6000	327	0,5	2,1	6000	0,18	116667	38	140	0,42	0,73	265	0,8	0,7
B28D8S 6H	0,8	6000	434	0,7	2,8	6000	0,23	121739	40	140	0,42	0,73	265	1,1	0,9

SINUSOIDAL 8 POLES: B36P COMPACT MOTORS.



ELECTRICAL DATA:

TYPE	Stall torque (D _t =105°C)		Rated speed n 1/min	Output at rated speed		Rated torque (D _t =105°C)		Peak torque M _{pk} Nm	Maximum speed n _{max} rpm	Moment of inertia J 10 ⁻⁴ Kg ^m ²	Peak torque acceleration a _{pk} rad/sec ²	Thermal time constant T _{th} min	Thermal protection threshold °C	Voltage constant k _e Vs	Torque constant k _t Nm/A	Resistance phase to phase R _w Ω	Inductance phase to phase L _w mH	BEMF at rated speed E _n V	Stall current I ₀ A	Rated current I _n A
	M ₀ Nm	P _n kW		M _n Nm	M _{pk} Nm															
Voltage H (400 Volt) - 3000 Min-1																				
B36.D7P	3H	0,7	3000	0,21	0,67	3	12000	0,38	73684	15	140	0,84	1,45	9,6	65,2	264	0,48	0,46		
B36.E3P	3H	1,3	3000	0,39	1,24	6	12000	0,78	71795	18	140	0,84	1,45	36,8	32,8	264	0,89	0,85		
B36.E8P	3H	1,8	3000	0,54	1,71	8	12000	1,08	77778	20	140	0,84	1,45	20,4	22,0	264	1,24	1,18		
B36.F3P	3H	2,3	3000	0,69	2,19	11	12000	1,43	78322	23	140	0,84	1,45	14,4	16,4	264	1,58	1,50		
Voltage H (400 Volt) - 4500 Min-1																				
B36.D7P	DH	0,7	4500	0,30	0,63	3	12000	0,38	73684	15	140	0,56	0,97	4,3	29,0	264	0,72	0,65		
B36.E3P	DH	1,3	4500	0,55	1,17	6	12000	0,78	71795	18	140	0,56	0,97	16,4	14,6	264	1,34	1,21		
B36.E8P	DH	1,8	4500	0,76	1,62	8	12000	1,08	77778	20	140	0,56	0,97	9,1	9,8	264	1,86	1,67		
B36.F3P	DH	2,3	4500	0,98	2,07	11	12000	1,43	78322	23	140	0,56	0,97	6,4	7,3	264	2,37	2,13		
Voltage H (400 Volt) - 6000 Min-1																				
B36.D7P	6H	0,7	6000	0,37	0,59	3	12000	0,38	73684	15	140	0,42	0,73	2,4	16,3	264	0,96	0,81		
B36.E3P	6H	1,3	6000	0,69	1,09	6	12000	0,78	71795	18	140	0,42	0,73	9,2	8,2	264	1,79	1,50		
B36.E8P	6H	1,8	6000	0,95	1,51	8	12000	1,08	77778	20	140	0,42	0,73	5,1	5,5	264	2,47	2,08		
B36.F3P	6H	2,3	6000	1,21	1,93	11	12000	1,43	78322	23	140	0,42	0,73	3,6	4,1	264	3,16	2,66		

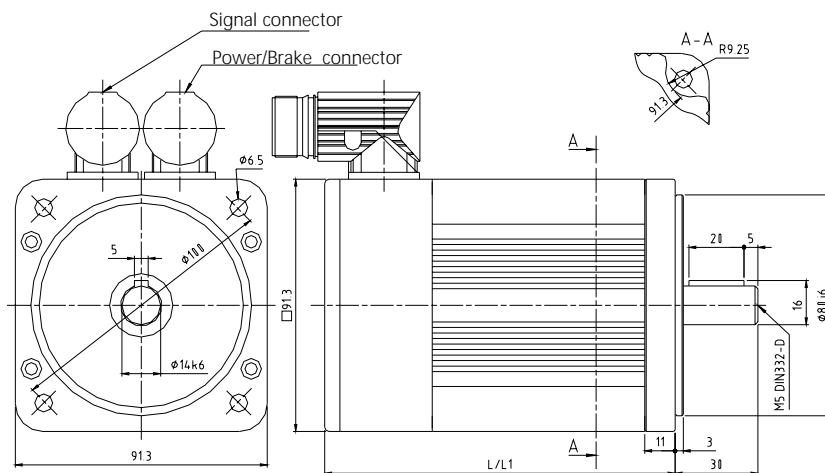
MECHANICAL CHARACTERISTICS:

TYPE	TORQUE Nm	RESOLVER		ENCODER	
		Length without brake	Length with brake	Length without brake	Length with brake
B36.D7P	0,7	116	163	142	189
B36.E3P	1,3	141	188	167	214
B36.E8P	1,8	166	213	192	239
B36.F3P	2,3	191	238	217	264

BRAKE CHARACTERISTICS:

VOLTAGE SUPPLY Volt	CURRENT ABSORPTION A	RESISTANCE Ω a 20°C	BRAKE TORQUE Nm	ADDITIONAL ROTOR INERTIA 10 ⁻⁴ Kg ^m ²
24 Vdc +/- 10%	0,51	44,2	2,50	0,38

Sinusoidal motors: B56S voltages H(400 Volt) and M(230 Volt)



L=Motor length with resolver as transducer
 L1=Motor length with encoder as transducer

Type	Nm	L[mm] without brake	L1[mm] without brake	Peso [Kg] without brake	L[mm] with brake	L1[mm] with brake	Peso [Kg] with brake
B56 E2S	1.20	127	137	3.50	170	180	4.10
B56 F4S	2.40	152	162	4.40	195	205	5.00
B56 G4S	3.40	177	187	5.40	238	248	6.00

Characteristics			Physical data					Thermal data						
Stall torque (Dt=100°C)	Rated speed	Output at rated speed	Rated torque	Peak torque	Maximum speed	Moment of Inertia	Peak torque acceleration	Thermal time constant	Thermal protection threshold	Voltage constant	Torque constant	BEMF at rated speed	Stall current	Rated current
M0	n	Pn	Mn	Mpk	nmax	J	apk	Tth	Jmax	ke	kt	En	I0	In
Nm	1/min	W	Nm	Nm	rpm	10 ⁻⁴ Kgm ²	rad/sec ²	min	°C	Vs	Nm/A	V	A	A

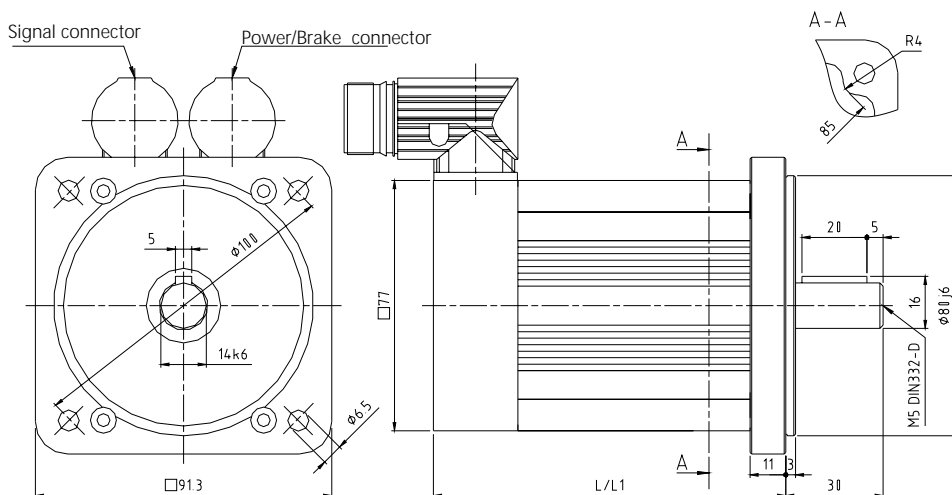
Voltage M (230 Volt) - 3000 Min-1 (8 poles) -Connection Y

B56E2S 3M	1,2	3000	314	1,0	4,2	6000	0,73	57534	32	140	0,49	0,85	154	1,4	1,2
B56F4S 3M	2,4	3000	628	2,0	8,5	6000	1,40	60714	35	140	0,49	0,85	154	2,8	2,4
B56G4S 3M	3,4	3000	817	2,6	10,5	6000	1,84	57065	38	140	0,49	0,85	154	4,0	3,1

Voltage H (400 Volt) - 3000 Min-1 (8 poles) -Connection Y

B56E2S 3H	1,2	3000	314	1,0	4,2	6000	0,73	57534	32	140	0,85	1,48	268	0,8	0,7
B56F4S 3H	2,4	3000	628	2,0	8,5	6000	1,40	60714	35	140	0,85	1,48	268	1,6	1,4
B56G4S 3H	3,4	3000	817	2,6	10,5	6000	1,84	57065	38	140	0,85	1,48	268	2,3	1,8

Sinusoidal motors: B56J voltages H(400 Volt) and M(230 Volt)



L=Motor length with resolver as transducer
L1=Motor length with encoder as transducer

Type	Nm	L[mm] without brake	L1[mm] without brake	Peso [Kg] without brake	L[mm] with brake	L1[mm] with brake	Peso [Kg] with brake
B56 D7J	0.75	108	141	1.40	153	286	2.00
B56 E5J	1.50	133	166	2.20	178	211	2.80
B56 F3J	2.30	158	191	3.10	203	236	3.70
B56 03J	3.00	183	216	4.00	228	261	4.60

Characteristics			Physical data					Thermal data						
Stall torque (Dt=100°C)	Rated speed	Output at rated speed	Rated torque	Peak torque	Maximum speed	Moment of Inertia	Peak torque acceleration	Thermal time constant	Thermal protection threshold	Voltage constant	Torque constant	BEMF at rated speed	Stall current	Rated current
M0	n	Pn	Mn	Mpk	nmax	J	apk	Tth	Jmax	ke	kt	En	I0	In
Nm	1/min	W	Nm	Nm	rpm	10 ⁻⁴ Kg·m ²	rad/sec ²	min	°C	Vs	Nm/A	V	A	A

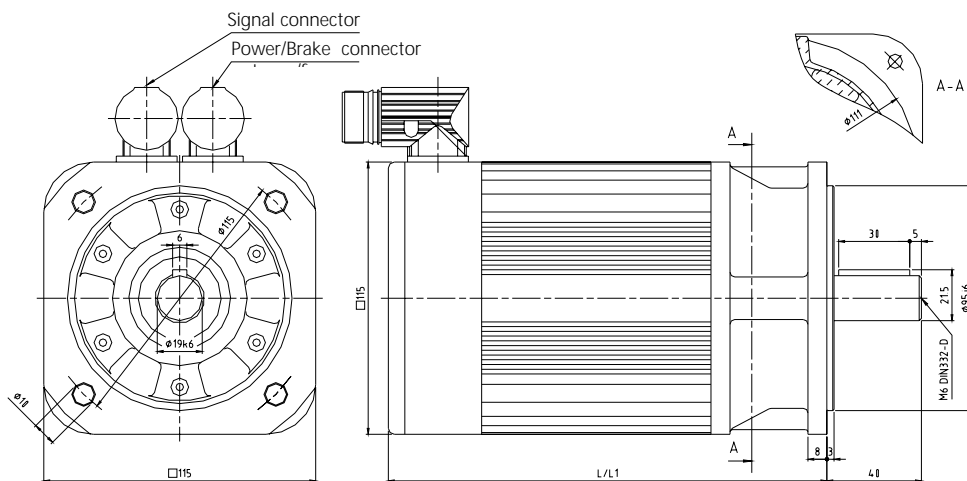
Voltage M (230 Volt) - 3000/6000 Min-1 (4 poles) -Connection Y

B56D7J 3M	0,75	3000	220	0,7	2,6	6000	0,35	57778	32	140	0,48	0,84	152	0,9	0,8
B56E5J 3M	1,5	3000	440	1,4	5,2	6000	0,60	86667	35	140	0,48	0,84	152	1,8	1,7
B56F3J 3M	2,3	3000	660	2,1	8,0	6000	0,90	106667	38	140	0,48	0,84	152	2,7	2,5
B5603J 3M	3,0	3000	848	2,7	10,5	6000	1,20	116667	40	140	0,48	0,84	152	3,6	3,2
B56D7J 6M	0,75	6000	377	0,6	2,6	6000	0,35	57778	32	140	0,24	0,42	152	1,8	1,4
B56E5J 6M	1,5	6000	628	1,0	5,2	6000	0,60	86667	35	140	0,24	0,42	152	3,6	2,4
B56F3J 6M	2,3	6000	1005	1,6	8,0	6000	0,90	106667	38	140	0,24	0,42	152	5,5	3,8
B5603J 6M	3,0	6000	1131	1,8	10,5	6000	1,20	116667	40	140	0,24	0,42	152	7,1	4,3

Voltage H (400 Volt) - 3000/6000 Min-1 (4 poles) -Connection Y

B56D7J 3H	0,75	3000	220	0,7	2,6	6000	0,35	57778	32	140	0,84	1,45	263	0,5	0,5
B56E5J 3H	1,5	3000	440	1,4	5,2	6000	0,60	86667	35	140	0,84	1,45	263	1,0	1,0
B56F3J 3H	2,3	3000	660	2,1	8,0	6000	0,90	106667	38	140	0,84	1,45	263	1,6	1,4
B5603J 3H	3,0	3000	848	2,7	10,5	6000	1,20	116667	40	140	0,84	1,45	263	2,1	1,9
B56D7J 6H	0,75	6000	377	0,6	2,6	6000	0,35	57778	32	140	0,42	0,73	265	1,0	0,8
B56E5J 6H	1,5	6000	628	1,0	5,2	6000	0,60	86667	35	140	0,42	0,73	265	2,1	1,4
B56F3J 6H	2,3	6000	1005	1,6	8,0	6000	0,90	106667	38	140	0,42	0,73	265	3,2	2,2
B5603J 6H	3,0	6000	1131	1,8	10,5	6000	1,20	116667	40	140	0,42	0,73	265	4,1	2,5

Sinusoidal motors: B63 voltages H(400 Volt) and M(230 Volt)



L=Motor length with resolver as transducer
L1=Motor length with encoder as transducer

Type	Nm	L[mm] without brake	L1[mm] without brake	Peso [Kg] without brake	L[mm] with brake	L1[mm] with brake	Peso [Kg] with brake
B63 02S	2.40	150	168	5.80	192	210	6.70
B63 04S	4.80	175	193	6.90	217	235	7.80
B63 06S	7.20	200	218	8.80	242	260	9.70
B63 08S	9.60	225	243	9.90	267	285	10.8

Characteristics				Physical data				Thermal data						
Stall torque M0 Nm	Rated speed n 1/min	Output at rated speed Pn kW	Rated torque Mn Nm	Peak torque Mpk Nm	Maximum speed nmax rpm	Moment of Inertia J 10 ⁻⁴ Kg·m ²	Peak torque acceleration apk rad/sec ²	Thermal time constant Tth min	Thermal protection threshold Jmax °C	Voltage constant Ke Vs	Torque constant Kt Nm/A	BEMF at rated speed En V	Stall current IO A	Rated current In A

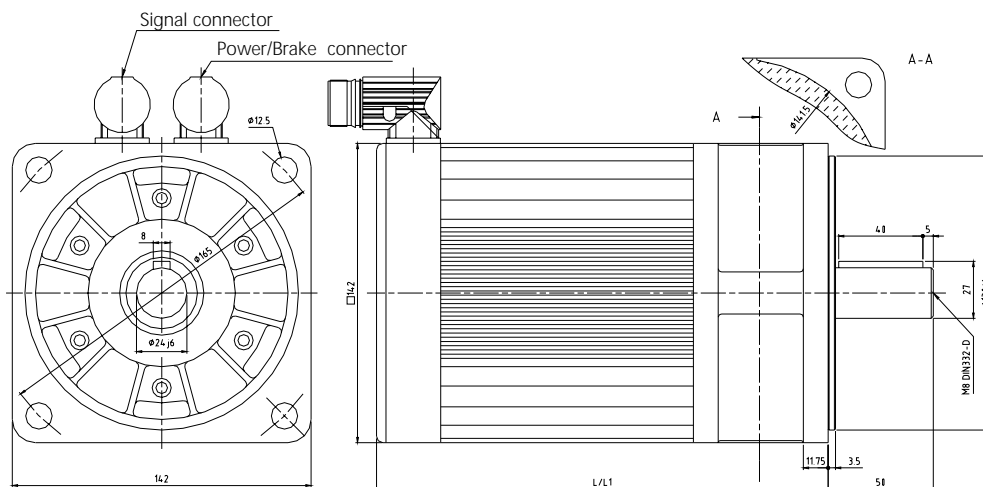
Voltage M (230 Volt) - 3000/6000 Min-1 (8 poles) -Connection Y

B6302S 3M	2,4	3000	0,6	1,8	10	6000	3,30	30303	20	140	0,54	0,94	170	2,6	1,9
B6304S 3M	4,8	3000	1,1	3,6	20	6000	6,20	32258	25	140	0,54	0,94	170	5,1	3,8
B6306S 3M	7,2	3000	1,7	5,4	30	6000	8,01	37453	30	140	0,54	0,94	170	7,7	5,7
B6308S 3M	9,6	3000	2,3	7,2	40	6000	10,00	40000	30	140	0,54	0,94	170	10,2	7,7

Voltage H (400 Volt) - 3000/6000 Min-1 (8 poles) -Connection Y

B6302S 3H	2,4	3000	0,6	1,8	10	4000	3,30	30303	20	140	0,94	1,63	296	1,5	1,1
B6304S 3H	4,8	3000	1,1	3,6	20	4000	6,20	32258	25	140	0,94	1,63	296	2,9	2,2
B6306S 3H	7,2	3000	1,7	5,4	30	4000	8,01	37453	30	140	0,94	1,63	296	4,4	3,3
B6308S 3H	9,6	3000	2,3	7,2	40	4000	10,00	40000	30	140	0,94	1,63	296	5,9	4,4

Sinusoidal motors: B71S voltages H(400 Volt) and M(230 Volt)



L=Motor length with resolver as transducer
 L1=Motor length with encoder as transducer

Type	Nm	L[mm] without brake	L1[mm] without brake	Peso [Kg] without brake	L[mm] with brake	L1[mm] with brake	Peso [Kg] with brake
B71 04S	4.00	173	211	8.70	203	241	10.6
B71 08S	8.00	198	236	10.9	228	266	12.8
B71 12S	12.0	223	261	13.1	253	291	15.0
B71 16S	16.0	248	286	15.3	278	316	17.2
B71 20S	20.0	273	311	17.5	303	341	19.4

Characteristics				Physical data				Thermal data							
Stall torque (Dt=100°C)	Rated speed	Output at rated speed	Rated torque	Peak torque	Maximum speed	Moment of Inertia	Peak torque acceleration	Thermal time constant	Thermal protection threshold	Voltage constant	Torque constant	BEMF at rated speed	Stall current	Rated current	
M0	n	Pn	Mn	Mpk	nmax	J	apk	Tth	Jmax	ke	kt	En	IO	In	
Nm	1/min	kW	Nm	Nm	rpm	10 ⁻⁴ Kgm ²	rad/sec ²	min	°C	Vs	Nm/A	V	A	A	

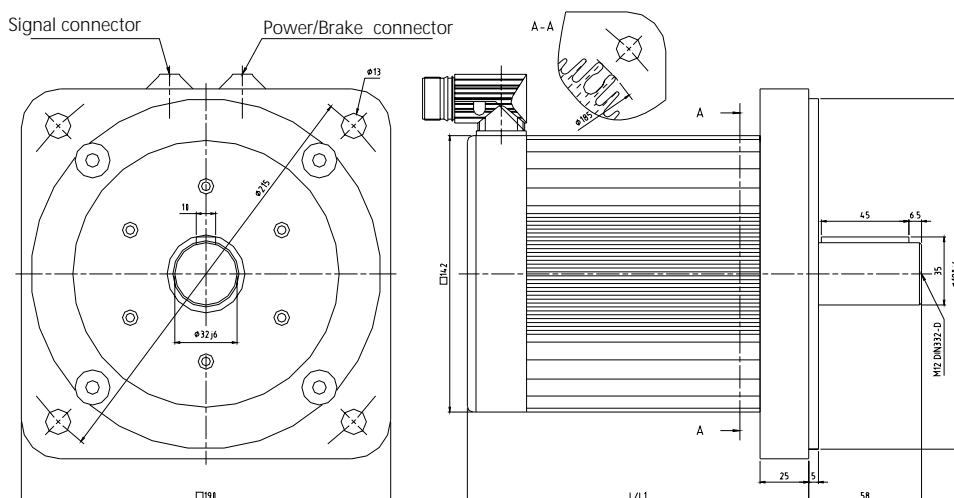
Voltage M (230 Volt) - 3000/6000 Min-1 (8 poles) -Connection Y

B7104S 3M	4,0	3000	1,1	3,5	20	4000	8,00	25000	35	140	0,54	0,94	170	4,3	3,7
B7108S 3M	8,0	3000	2,2	7,0	40	4000	12,70	31496	40	140	0,54	0,94	170	8,5	7,4
B7112S 3M	12,0	3000	3,3	10,5	60	4000	17,40	34483	45	140	0,54	0,94	170	12,8	11,2
B7116S 3M	16,0	3000	4,4	14,0	80	4000	22,10	36199	45	140	0,54	0,94	170	17,0	14,9
B7120S 3M	20,0	3000	5,5	17,5	100	4000	26,80	37313	50	140	0,54	0,94	170	21,3	18,6

Voltage H (400 Volt) - 3000/6000 Min-1 (8 poles) -Connection Y

B7104S 3H	4,0	3000	1,1	3,5	20	4000	8,00	25000	35	140	0,94	1,63	296	2,5	2,1
B7108S 3H	8,0	3000	2,2	7,0	40	4000	12,70	31496	40	140	0,94	1,63	296	4,9	4,3
B7112S 3H	12,0	3000	3,3	10,5	60	4000	17,40	34483	45	140	0,94	1,63	296	7,4	6,4
B7116S 3H	16,0	3000	4,4	14,0	80	4000	22,10	36199	45	140	0,94	1,63	296	9,8	8,6
B7120S 3H	20,0	3000	5,5	17,5	100	4000	26,80	37313	50	140	0,94	1,63	296	12,3	10,7

Sinusoidal motors: B100J voltages H(400 Volt) and M(230 Volt)



L=Motor lenght with resolver as transducer
 L1=Motor lenght with encoder as transducer

Type	Nm	L[mm] without brake	L1[mm] without brake	Peso [Kg] without brake	L[mm] with brake	L1[mm] with brake	Peso [Kg] with brake
B10 12J	12.0	188	226	11.5	251	329	13.6
B10 20J	20.0	238	276	15.9	301	379	18.0
B10 24J	24.0	263	301	18.1	326	404	20.2
B10 28J	28.0	288	326	20.3	351	429	22.4

Characteristics				Physical data				Thermal data							
Stall torque (Dt=100°C)	Rated speed	Output at rated speed	Rated torque	Peak torque	Maximum speed	Moment of inertia	Peak torque acceleration	Thermal time constant	Thermal protection threshold	Voltage constant	Torque constant	BEMF at rated speed	Stall current	Rated current	
M0	n	Pn	Mn	Mpk	nmax	J	apk	Tth	Jmax	ke	kt	En	I0	In	
Nm	1/min	kW	Nm	Nm	rpm	10 ⁻⁴ Kg·m ²	rad/sec ²	min	°C	Vs	Nm/A	V	A	A	

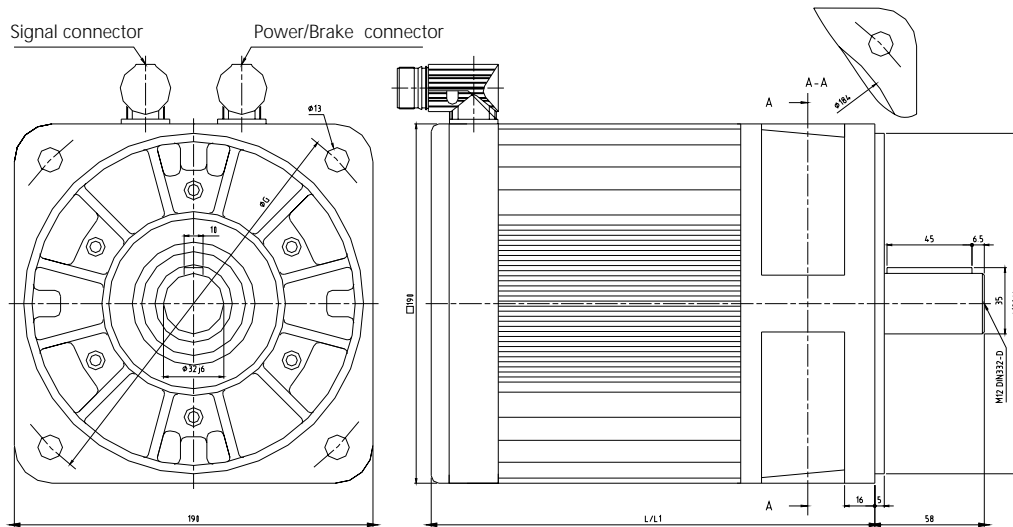
Voltage M (230 Volt) - 3000/6000 Min-1 (8 poles) -Connection Y

B1012J 3M	12,0	3000	3,3	10,5	60	4000	17,40	34483	45	140	0,54	0,94	170	12,8	11,2
B1020J 3M	20,0	3000	5,5	17,5	100	4000	26,80	37313	50	140	0,54	0,94	170	21,3	18,6
B1024J 3M	24,0	3000	6,6	21,0	120	4000	31,50	38095	55	140	0,54	0,94	170	25,5	22,3
B1028J 3M	28,0	3000	7,7	24,5	140	4000	36,20	38674	60	140	0,54	0,94	170	29,8	26,1

Voltage H (400 Volt) - 3000/6000 Min-1 (8 poles) -Connection Y

B1012J 3H	12,0	3000	3,3	10,5	60	4000	17,40	34483	45	140	0,94	1,63	296	7,4	6,4
B1020J 3H	20,0	3000	5,5	17,5	100	4000	26,80	37313	50	140	0,94	1,63	296	12,3	10,7
B1024J 3H	24,0	3000	6,6	21,0	120	4000	31,50	38095	55	140	0,94	1,63	296	14,7	12,9
B1028J 3H	28,0	3000	7,7	24,5	140	4000	36,20	38674	60	140	0,94	1,63	296	17,2	15,0

Sinusoidal motors: B100S voltages H(400 Volt) and M(230 Volt)



L=Motor length with resolver as transducer
 L1=Motor length with encoder as transducer

Type	Nm	L[mm] without brake	L1[mm] without brake	Peso [Kg] without brake	L[mm] with brake	L1[mm] with brake	Peso [Kg] with brake
B10 24S	24.0	235	235	25.0	288	288	31.6
B10 30S	30.0	260	260	29.0	313	313	35.4
B10 43S	43.0	300	300	33.0	338	338	39.2

Characteristics				Physical data				Thermal data							
Stall torque (Dt=100°C) M0	Rated speed n	Output at rated speed Pn	Rated torque Mn	Peak torque Mpk	Maximum speed nmax	Moment of inertia J	Peak torque acceleration apk	Thermal time constant Tth	Thermal protection threshold Jmax	Voltage constant ke	Torque constant kt	BEMF at rated speed En	Stall current I0	Rated current In	
Nm	1/min	kW	Nm	Nm	rpm	10 ⁻⁴ Kgm ²	rad/sec ²	min	°C	Vs	Nm/A	V	A	A	

Voltage M (230 Volt) - 3000/6000 Min-1 (6 poles) -Connection Y

B1024S 2M	24,0	2000	4,6	21,8	89	3000	136,00	6544	55	140	0,81	1,41	170	17,0	15,5
B1030S 2M	30,0	2000	5,7	27,3	99	3000	170,00	5824	60	140	0,81	1,41	170	21,3	19,4
B1043S 2M	43,0	2000	8,2	39,1	139	3000	238,00	5840	65	140	0,81	1,41	170	30,5	27,7
B1024S 3M	24,0	3000	6,6	20,9	89	4000	136,00	6544	55	140	0,54	0,94	170	25,5	22,2
B1030S 3M	30,0	3000	8,2	26,2	99	4000	170,00	5824	60	140	0,54	0,94	170	31,9	27,9

Voltage H (400 Volt) - 3000/6000 Min-1 (6 poles) -Connection Y

B1024S 2H	24,0	2000	4,6	21,8	89	3000	136,00	6544	55	140	1,41	2,45	296	9,8	8,9
B1030S 2H	30,0	2000	5,7	27,3	99	3000	170,00	5824	60	140	1,41	2,45	296	12,2	11,1
B1043S 2H	43,0	2000	8,2	39,1	139	3000	238,00	5840	65	140	1,41	2,45	296	17,6	16,0
B1024S 3H	24,0	3000	6,6	20,9	89	4000	136,00	6544	55	140	0,94	1,63	296	14,7	12,8
B1030S 3H	30,0	3000	8,2	26,2	99	4000	170,00	5824	60	140	0,94	1,63	296	18,4	16,1



Factories

Lafert Servo Motors S.p.A.

Via E. Majorana, 2/A
I - 30020 Noventa di Piave
Venezia - Italy
Tel. +39 0421 572 211
Fax +39 0421 225 858
info.servomotors@lafert.com

Lafert S.p.A.

Via J.F. Kennedy, 43
I - 30027 San Donà di Piave
Venezia - Italy
Tel. +39 / 0421 229 611
Fax +39 / 0421 222 908
info.lafert@lafert.com

www.lafert.com

MOTOR TECHNOLOGY LTD
MOTEC HOUSE, CHADKIRK BUSINESS PARK,
STOCKPORT, CHESHIRE SK6 3NE
ENGLAND

TEL: +44 (0)161 217 7100
FAX: +44 (0)161 217 7101
eMAIL: sales@motec.co.uk
WEB: www.motec.co.uk

motor
technology
... control in motion