

LBE-355~560 SERIES

400 / 690V 50HZ

INSULATION CLASS F

TEMPERATURE RISE 80K

PROTECTION DEGREE IP55

AMBIENT TEMPERATURE -20 ~ +40°C

ELEVATION SITE LESS THAN 1000 M

TOTAL ENCLOSED FAN COOLED IC411

CAST IRON STRUCTURE CONTINUOUS S1

LOW VOLTAGE BIGGER POWER ELECTRIC MOTOR

EQUIVALENT STANDARD IEC / DIN EN 60034 60072



TECHNICAL DATA FOR LBE SERIES (400/690V 50HZ) IC411 IP55 LV BIG POWER ELECTRIC MOTOR

Motor	Rated Power	Current		Rated Speed	Power Factor	Efficiency	Locked Current	Locked Torque	Maximum Torque	Moment of inertia	weight
Type	KW	400V A	690V A	r/min	cosφ	η%	Rated Current	Rated Torque	Rated Torque	J kgm ²	kg
LBE-355XA-2	355	585	339	2975	0.91	96.2	6.8	1.6	2	4.8	2050
LBE-355XB-2	400	660	382	2975	0.91	96.2	6.8	1.6	2	5.3	2180
LBE-355XC-2	450	741	430	2975	0.91	96.3	6.8	1.6	2	5.9	2340
LBE-355XD-2	500	815	472	2975	0.92	96.3	6.8	1.6	2	6.4	2520
LBE-355XA-4	355	605	351	1485	0.88	96.3	6.8	1.8	2	9.5	2150
LBE-355XB-4	400	681	395	1485	0.88	96.3	6.8	1.8	2	10.6	2300
LBE-355XC-4	450	766	444	1485	0.88	96.4	6.8	1.8	2	11.5	2460
LBE-355XD-4	500	841	488	1485	0.89	96.4	6.8	1.8	2	12.8	2720
LBE-355XA-6	280	496	288	990	0.85	95.8	6.8	1.8	2	12.9	2150
LBE-355XB-6	315	557	323	990	0.85	96	6.5	1.8	2	13.5	2310
LBE-355XC-6	355	628	364	990	0.85	96	6.5	1.8	2	14.3	2490
LBE-355XD-6	400	706	409	990	0.85	96.2	6.5	1.8	2	15.4	2630
LBE-355XA-8	225	437	254	740	0.78	95.2	6.5	1.8	2	13.5	2230
LBE-355XB-8	250	485	281	740	0.78	95.3	6.5	1.8	2	14.3	2410
LBE-355XC-8	280	543	315	740	0.78	95.5	6.5	1.8	2	15	2600
LBE-355XD-8	315	610	354	740	0.78	95.5	6.5	1.8	2	15.9	2750
LBE-355XA-10	180	367	213	590	0.75	94.5	5.5	1.2	1.8	15.6	2150
LBE-355XB-10	200	406	236	590	0.75	94.7	5.5	1.2	1.8	17.8	2230
LBE-355XC-10	225	457	265	590	0.75	94.7	5.5	1.2	1.8	19.4	2410
LBE-355XD-10	250	506	294	590	0.75	95	5.5	1.2	1.8	21.3	2600
LBE-355XA-12	132	287	166	490	0.71	93.5	5	1.1	1.8	13.5	2145
LBE-355XB-12	160	347	201	490	0.71	93.7	5	1.1	1.8	15.8	2210
LBE-355XC-12	180	390	226	490	0.71	93.8	5	1.1	1.8	18.5	2410
LBE-400XA-2	560	911	528	2980	0.92	96.4	7	1.5	2	8.6	3200
LBE-400XB-2	630	1025	594	2980	0.92	96.4	7	1.5	2	9.6	3490
LBE-400XC-2	710	/	669	2980	0.92	96.5	7	1.5	2	11	3660
LBE-400XA-4	560	941	546	1485	0.89	96.5	7	1.5	2	17.1	3360
LBE-400XB-4	630	1059	614	1485	0.89	96.5	7	1.5	2	18.5	3430
LBE-400XC-4	710	/	691	1485	0.89	96.6	7	1.5	2	21.1	3620
LBE-400XA-6	450	783	454	990	0.86	96.4	6.8	1.5	1.8	23.5	3200
LBE-400XB-6	500	870	504	990	0.86	96.5	6.8	1.5	1.8	26.4	3490
LBE-400XC-6	560	974	565	990	0.86	96.5	6.8	1.5	1.8	28.8	3660
LBE-400XA-8	355	671	389	740	0.8	95.5	6	1.5	1.8	24.2	3350
LBE-400XB-8	400	756	438	740	0.8	95.5	6	1.5	1.8	26	3430
LBE-400XC-8	450	849	492	740	0.8	95.6	6	1.5	1.8	29	3760
LBE-400XA-10	280	553	320	590	0.77	95	5.5	1.2	1.8	25.6	3220
LBE-400XB-10	315	620	359	590	0.77	95.3	5.5	1.2	1.8	26.9	3450
LBE-400XA-12	200	409	237	490	0.75	94	5	1.0	1.8	24.8	3220
LBE-400XB-12	225	458	266	490	0.75	94.5	5	1.0	1.8	25.6	3450
LBE-450XA-2	800	/	754	2985	0.92	96.5	7	1.0	2	19	4400
LBE-450XB-2	900	/	847	2985	0.92	96.7	7	1.0	2	21	4650
LBE-450XC-2	1000	/	941	2985	0.92	96.7	7	1.0	2	23	4950

Remarks:

The symbol "/" in the column of current at 400V, we suggest use the rated voltage 690V.

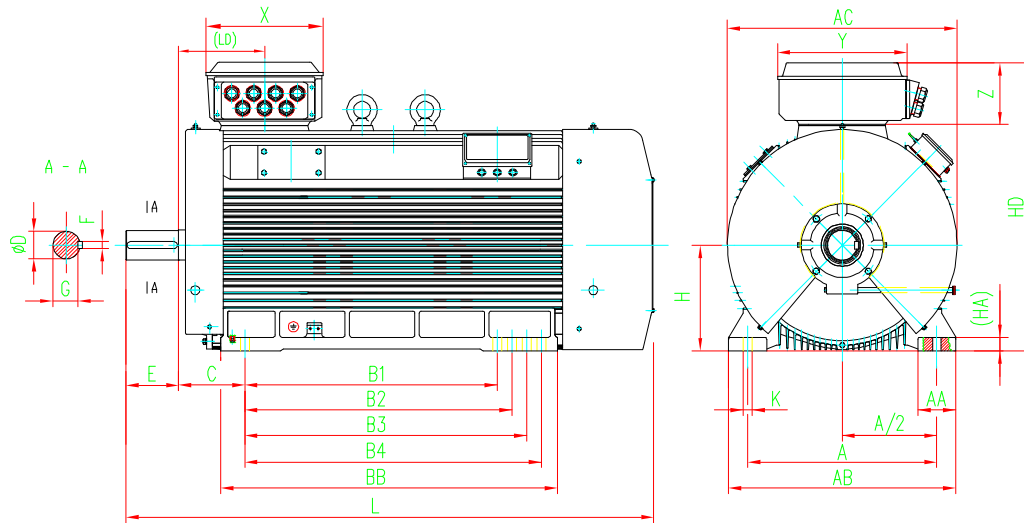
TECHNICAL DATA FOR LBE SERIES (400/690V 50HZ) IC411 IP55 LV BIG POWER ELECTRIC MOTOR

Motor	Rated Power	Current		Rated Speed	Power Factor	Efficiency	Locked Current	Locked Torque	Maximum Torque	Moment of inertia	weight
Type	KW	400V A	690V A	r/min	cosφ	η %	Rated Current	Rated Torque	Rated Torque	J kgm ²	kg
LBE-450XA-4	800	/	779	1490	0.89	96.6	7	1.0	2	33.8	4700
LBE-450XB-4	900	/	874	1490	0.89	96.8	7	1.0	2	36.9	4900
LBE-450XC-4	1000	/	971	1490	0.89	96.8	7	1.0	2	41.9	5150
LBE-450XA-6	630	1106	641	995	0.85	96.7	6.5	1.4	1.8	45.1	4700
LBE-450XB-6	710	/	723	995	0.85	96.7	6.5	1.4	1.8	48.6	5100
LBE-450XC-6	800	/	814	995	0.85	96.7	6.5	1.4	1.8	54.2	5500
LBE-450XA-8	500	942	546	745	0.8	95.8	5.6	1.2	1.8	44.1	4750
LBE-450XB-8	560	1055	611	745	0.8	95.8	5.6	1.2	1.8	49.5	5215
LBE-450XC-8	630	1184	686	745	0.8	96	5.6	1.2	1.8	54.8	5600
LBE-450XA-10	355	672	390	590	0.8	95.3	5.2	1.0	1.8	39.6	4900
LBE-450XB-10	400	756	438	590	0.8	95.5	5.2	1.0	1.8	42.3	5200
LBE-450XC-10	450	850	493	590	0.8	95.5	5.2	1.0	1.8	45.8	5500
LBE-450X-12	250	505	293	490	0.75	95.2	5	0.9	1.8	36.5	4850
LBE-450XB12	280	566	328	490	0.75	95.2	5	0.9	1.8	39.6	5150
LBE-450XC-12	315	635	368	490	0.75	95.5	5	0.9	1.8	42.3	5200
LBE-500XA-4	1120	/	1074	1490	0.9	97	7	0.9	2	53	5680
LBE-500XB-4	1250	/	1198	1490	0.9	97	7	0.9	2	59	5820
LBE-500XC-4	1400	/	1342	1490	0.9	97	7	0.9	2	66	6140
LBE-500XA-6	900	/	903	995	0.86	97	6.5	1.0	1.8	68.5	5800
LBE-500XB-6	1000	/	1003	995	0.86	97	6.5	1.0	1.8	72.1	6050
LBE-500XC-6	1120	/	1123	995	0.86	97	6.5	1.0	1.8	75.3	6250
LBE-500XA-8	710	/	764	745	0.81	96	5.6	1.0	1.8	70.1	5750
LBE-500XB-8	800	/	859	745	0.81	96.2	5.6	1.0	1.8	73.2	5930
LBE-500XC-8	900	/	966	745	0.81	96.2	5.6	1.0	1.8	76.8	6150
LBE-500XA-10	500	942	546	595	0.8	95.8	5.2	0.9	1.8	71.3	5730
LBE-500XB-10	560	1042	604	595	0.81	95.8	5.2	0.9	1.8	74.5	5920
LBE-500XC-10	630	1169	678	595	0.81	96	5.2	0.9	1.8	78.5	6170
LBE-500XA-12	355	697	404	495	0.77	95.5	5	0.8	1.8	69.2	5760
LBE-500XB-12	400	783	454	495	0.77	95.8	5	0.8	1.8	72.2	5940
LBE-500XC-12	450	881	510	495	0.77	95.8	5	0.8	1.8	76.4	6150
LBE-560XA-6	1250	/	1254	995	0.86	97	6.5	0.8	1.8	80.5	6900
LBE-560XB-6	1400	/	1405	995	0.86	97	6.5	0.8	1.8	84.6	7150
LBE-560XA-8	1000	/	1071	745	0.81	96.5	5.6	0.8	1.8	81.8	6850
LBE-560XB-8	1120	/	1195	745	0.81	96.8	5.6	0.8	1.8	84.1	7050
LBE-560XC-8	1250	/	1331	745	0.81	97	5.6	0.8	1.8	88.4	7310
LBE-560XA-10	710	/	764	595	0.81	96	5	0.9	1.8	83.5	6880
LBE-560XB-10	800	1482	860	595	0.81	96.2	5	0.9	1.8	85.3	7080
LBE-560XC-10	900	1662	963	595	0.81	96.5	5	0.9	1.8	90.4	7350
LBE-560XA-12	500	978	567	495	0.77	95.8	4.5	0.7	1.8	81.1	6770
LBE-560XB-12	560	1095	635	495	0.77	95.9	4.5	0.7	1.8	84.5	6930
LBE-560XC-12	630	1231	714	495	0.77	95.9	4.5	0.7	1.8	88	7200

Remarks

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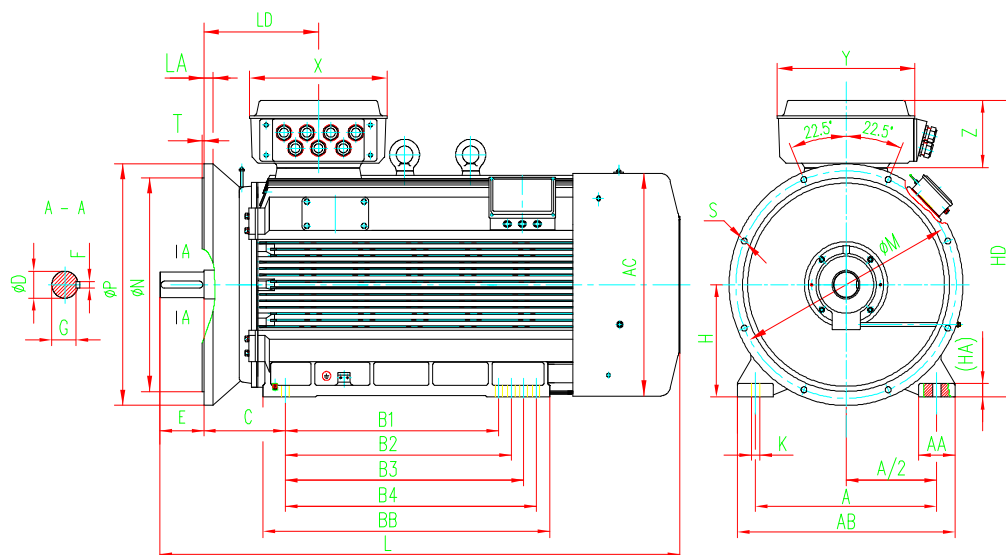
MOUNTING B3



Frame Size	Poles	Mounting Dimensions(mm)											
		A	B1	B2	B3	B4	C	D	E	F	G	H	K
355X	2	630	630	710	800	/	254	80	170	22	71	355	35
355X	4~12	630	630	710	800	/	254	100	210	28	90	355	35
400X	2	686	710	800	900	/	280	80	170	22	71	400	35
400X	4~12	686	710	800	900	/	280	110	210	28	100	400	35
450X	2	800	900	1000	1120	1250	280	95	170	25	86	450	35
450X	4~12	800	900	1000	1120	1250	280	120	210	32	109	450	35
500X	4~12	900	1120	/	/	/	315	140	250	36	128	500	42
560X	4~12	1000	1400	/	/	/	355	160	300	40	147	560	42

Frame Size	Poles	Outline Dimensions(mm)										
		AB	AC	HD	BB	LD	HA	AA	X	Y	Z	L
355X	2	760	790	1020	1140	368	52	135	430	545	250	1840
355X	4~12	760	790	1020	1140	368	52	135	430	545	250	1940
400X	2	810	865	1100	1120	362	45	160	430	545	250	1880
400X	4~12	810	865	1100	1120	362	45	160	430	545	250	1925
450X	2	980	1035	1310	1495	440	45	225	660	770	300	2360
450X	4~12	980	1035	1310	1495	440	45	225	660	770	300	2400
500X	4~12	1080	1095	1365	1600	412	65	180	660	770	300	2520
560X	4~12	1170	1195	1480	1680	410	76	210	660	770	300	2650

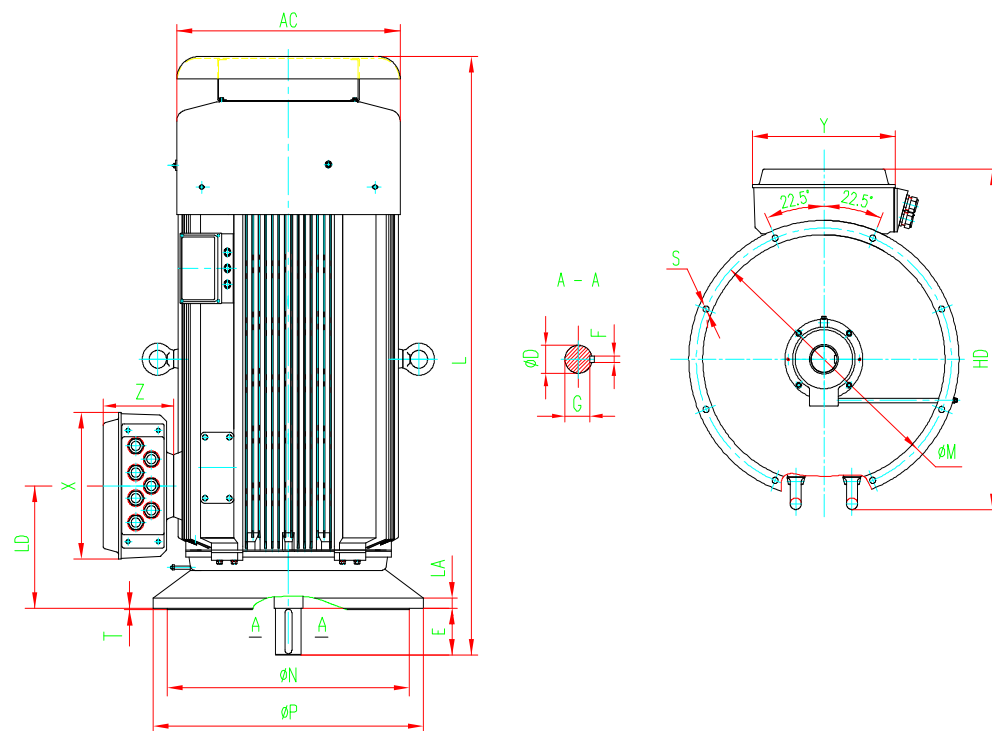
MOUNTING B35



Frame Size	Poles	Mounting Dimensions(mm)																
		A	B1	B2	B3	B4	C	D	E	F	G	H	K	M	N	P	S	T
355X	2	630	630	710	800	/	254	80	170	22	71	355	28	740	680	800	8-24	6
355X	4~12	630	630	710	800	/	254	100	210	28	90	355	28	740	680	800	8-24	6
400X	2	686	710	800	900	/	280	80	170	22	71	400	35	940	880	1000	8-28	6
400X	4~12	686	710	800	900	/	280	110	210	28	100	400	35	940	880	1000	8-28	6
450X	2	800	900	1000	1120	1250	280	95	170	25	86	450	35	940	880	1000	8-28	6
450X	4~12	800	900	1000	1120	1250	280	120	210	32	109	450	35	940	880	1000	8-28	6
500X	4~12	900	1120	/	/	/	315	140	250	36	128	500	42	1080	1000	1150	8-28	6
560X	4~12	1000	1400	/	/	/	355	160	300	40	147	560	42	1180	1120	1250	8-28	7

Frame Size	Poles	Outline Dimensions(mm)										
		AB	AC	HD	BB	LD	HA	AA	X	Y	Z	L
355X	2	760	790	1020	1140	368	52	135	430	545	250	1840
355X	4~12	760	790	1020	1140	368	52	135	430	545	250	1940
400X	2	810	865	1100	1120	362	45	160	430	545	250	1880
400X	4~12	810	865	1100	1120	362	45	160	430	545	250	1925
450X	2	980	1035	1310	1495	440	45	225	660	770	300	2360
450X	4~12	980	1035	1310	1495	440	45	225	660	770	300	2400
500X	4~12	1080	1095	1365	1600	412	65	180	660	770	300	2520
560X	4~12	1170	1195	1480	1680	410	76	210	660	770	300	2650

MOUNTING V1



Frame Size	Poles	Mounting Dimensions(mm)										Outline Dimensions(mm)					
		D	E	F	G	M	N	P	R	S	T	AC	HD	X	Y	Z	L
355X	2	80	170	22	71	740	680	800	0	8-24	6	790	1190	430	545	250	2190
355X	4~12	100	210	28	90	740	680	800	0	8-24	6	790	1190	430	545	250	2290
400X	2	80	170	22	71	940	880	1000	0	8-28	6	865	1275	430	545	250	2230
400X	4~12	110	210	28	100	940	880	1000	0	8-28	6	865	1275	430	545	250	2275
450X	2	95	170	25	86	940	880	1000	0	8-28	6	1035	1536	660	770	300	2710
450X	4~12	120	210	32	109	940	880	1000	0	8-28	6	1035	1536	660	770	300	2750
500X	4~12	140	250	36	128	1080	1000	1150	0	8-28	6	1095	1576	660	770	300	2870
560X	4~12	160	300	40	147	1180	1120	1250	0	8-28	7	1195	1681	660	770	300	3000

TERMINAL BOX

Frame Size	X	Y	Z	Dia. of the thread (mm)
355X	430	545	250	7-M63×1.5
400X	430	545	250	7-M63×1.5
450X	660	770	300	7-M63×1.5
450X	660	770	300	7-M63×1.5
500X	660	770	300	7-M63×1.5

NOISE (50HZ)

Frame Size	Synchronous Speed r/min					
	3000	1500	1000	750	600	500
	Sound pressure level in dB(A)					
H355	85	82	78	75	70	70
H400	90	85	82	78	73	73
H450	93	90	86	82	77	77
H500	/	94	88	85	80	80
H560	/	/	88	85	80	80

BEARING B3 B35

Frame	B3, B35					
	Driving End			Non-driving End		
	2pole	4pole	≥6pole	2pole	4pole	≥6pole
355	6317C3	6322C3(NU322)	6322C3(NU322)	6317C3	6322C3	6322C3
400	6317C3	6326C3(NU326)	6326C3(NU326)	6317C3	6326C3	6326C3
450	6319C3	6328C3(NU328)	6328C3(NU328)	6319C3	6328C3	6328C3
500	/	6330C3(NU330)	6330C3(NU330)	/	6330C3	6330C3
560	/	/	6334C3(NU334)	/	6330C3	6330C3

BEARING V1

Frame	V1					
	Driving End			Non-driving End		
	2pole	4pole	≥6pole	2pole	4pole	≥6pole
355	6317C3	6322C3(NU322)	6322C3(NU322)	7317B	7322B	7322B
400	6317C3	6326C3(NU326)	6326C3(NU326)	7317B	7326B	7326B
450	6319C3	6328C3(NU328)	6328C3(NU328)	7319B	7328B	7328B
500	/	6330C3(NU330)	6330C3(NU330)	/	7330B	7330B
560	/	/	6334C3(NU334)	/	7330B	7330B