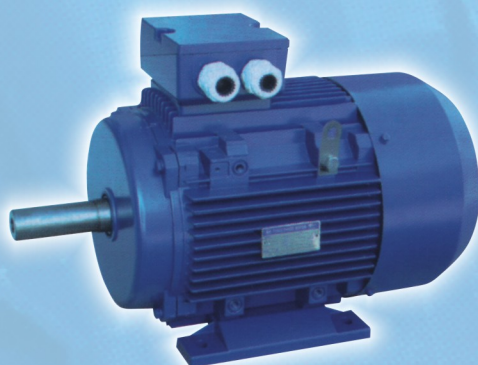


Bologna

Three Phase Induction Motors



EFF2

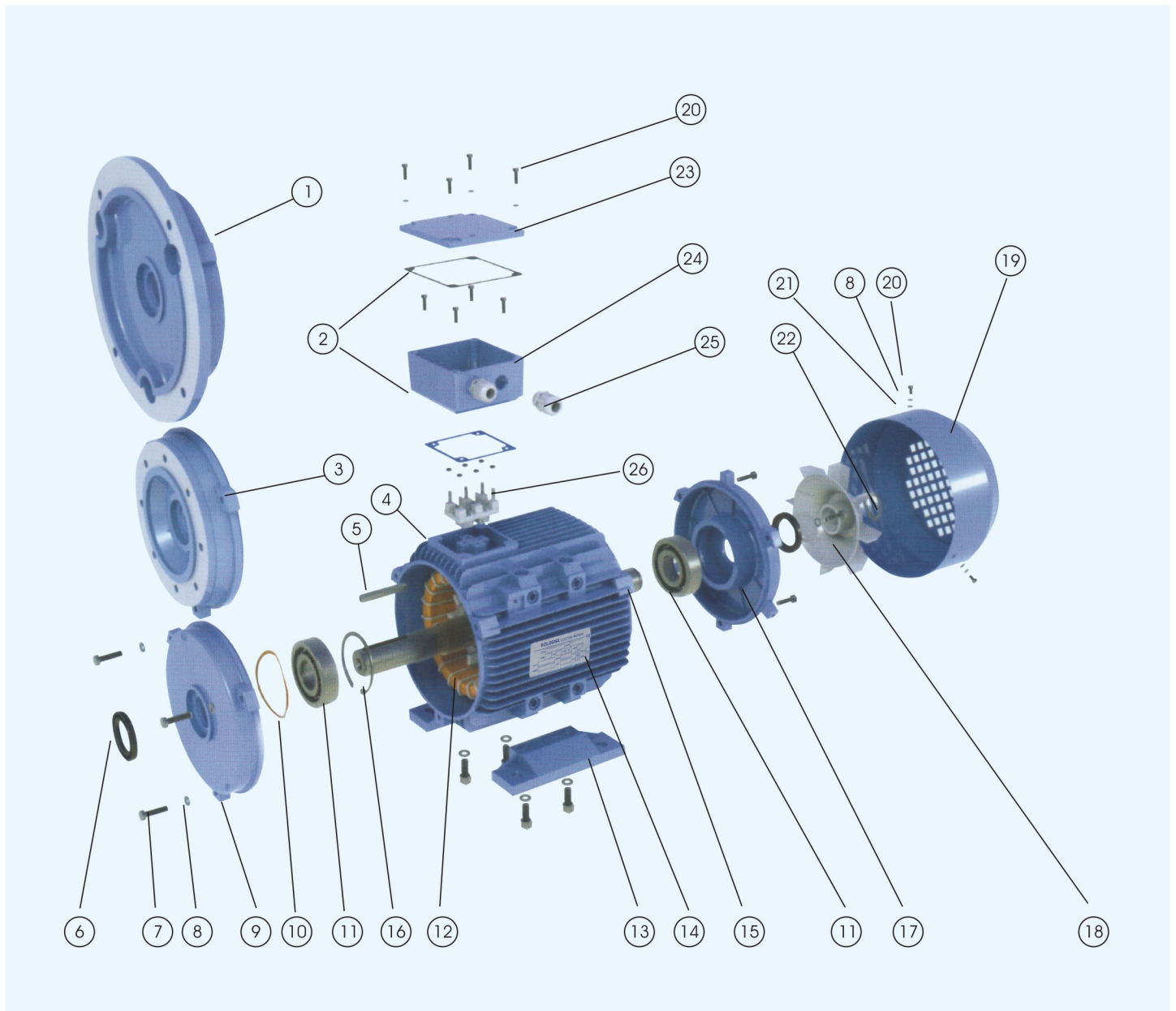
BOLOGNA THREE-PHASE ASYNCHRONOUS MOTOR

General introduction

Bologna series three-phase asynchronous motors, developed with new techniques.

Bologna series motor are defined as totally enclosed, fan cooled, squirrel cage type and noted for their novel design, beautiful model, compact structured, low noise, high efficiency, large torque, excellent starting performance, easy serving, etc. The motors are adopted with F class insulation and designed with assessing method for insulation system according to international practice, it enhances greatly have reached an international advanced level of the same kind of products at the initial days of the 90s.

Bologna series motor can be widely used as driving equipments of various machineries, such as machine tools, blowers, pumps, compressors, transporters, agricultural and food processing.



1. B5 Flange
2. Gasket
3. B14 Flange
4. Frame
5. Key
6. Oil seal (V ring)
7. Bolt

8. Spring Washer
9. Front Endshield
10. Wave washer
11. Bearing
12. Stator
13. Feet
14. Nameplate

15. Rotor
16. Circlip
17. Rear Endshield
18. Fan
19. Fan Cover
20. Screw
21. Washer

22. Fan clamp
23. Terminal box lid
24. Terminal box base
25. Cable gland
26. Connection base

STANDARDS COMPLIANCE

Environment conditions

Altitude above sea level: up to 1000m;

Ambient temperature: up to 40 C (The minimum ambient temperature is - 15 C)

Relative humidity: up to 90%; Rated frequency : 50Hz;

Rated voltage:

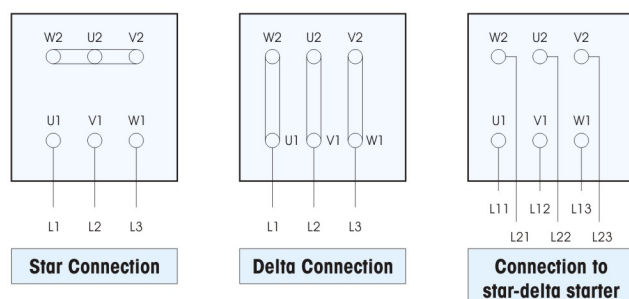
220V, 230V, 240V, 380V, 400V, 415V, 660V, 690V, 720V,

220V/380V/230V/400V, 380V/660V, 400V/690V, 240V/415V, and

415V/720V.

CONNECTION DIAGRAMS

Thre Phase Motor with Cage Rotor



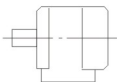
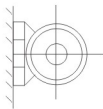
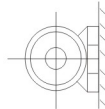
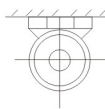
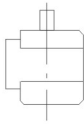
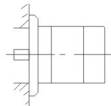
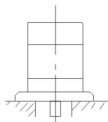
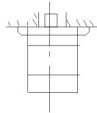
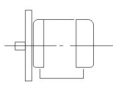
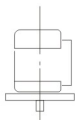
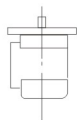
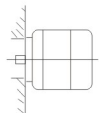
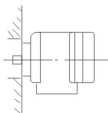
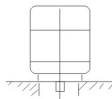
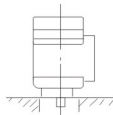
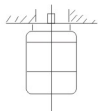
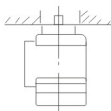
ENCLOSURES I.P. NUMBERS

Designation	1st Numeral	2st Numeral	General Description
	Protection against contact against ingress of foreign bodies	Protection against water	
I.P.21	Protection againts contact be finger with electrically live or moving parts inside the enclosure. Protection againts ingress or solid foreign bodies with a diameter greather than 12 mm	Dripping water falling vertically	Drip proof
I.P.22		Dripping water falling at an angle up to 15° from the vertical	Drip proof
I.P.23		Water falling as spray at an angle up to 60° from the vertical	Drip proof
I.P.44	Protection against contact with live or moving parts by tools, wires or other objects to thickness greather than 1 mm. Protection against the ingress of solid foreign bodies with a diameter greather than 1 mm.	Water splashed againts the machine from any direction shall have no harmful effect	T.E.F.V. or T.E.N.V.
I.P.55	Complete protection against contact with live or movin parts. Protection against harmful deposits of dust. The Ingress of dust is not totally prevented, but does not accumulate in an amount sufficient to impair operation of the machine.	Water projected by nozzle against the machine from any direction shall have no harmful effect	T.E.F.V. or T.E.N.V. Weather proof or Dustproof or Hoseproof
I.P.56		Machine protected against conditions on a ship's deck	T.E.N.V. Deck Watertight

BEARING SIZE

Frama Size	Poles	Drive End International type	Non - Drive End International type
56	2~4	62012Z	62012Z
63	2~4	62012Z	62012Z
71	2~6	62022Z	62022Z
80	2~8	62042Z	62042Z
90	2~8	62052Z	62052Z
100	2~8	62062Z	62062Z
112	2~8	63062Z	63062Z
132	2~8	63082Z	63082Z
160	2~8	63092ZC3	63092ZC3
180	2~8	6311C3	6311C3
200	2~8	6312C3	6312C3
225	2~8	6313C3	6313C3
250	2~8	6314C3	6314C3
280	2	6314C3	6314C3
	4~8	6317C3	6317C3
315	2	6317C3	6317C3
	4~10	NU319C3	6319C3
355	2	6319C3	6319C3
	4~10	NU322C3	6322C3
400	4~10	NU326C3	6326C3

The mounting arrangements of the motor comply with IEC34 - 7 Recommendation. There are four basic arrangements shown as the following tables and figure.

Fundamental arrangement	B3					
Mounting arrangement	B3	B6	B7	B8	V5	V6
Diagram						
Range of Manufacture (framesize)	56-400	56-160				
Fundamental arrangement	B5			B35		
Mounting arrangement	B5	V1	V3	B35	V15	V36
Diagram						
Range of Manufacture (framesize)	56-280	56-355	56-160	56-400	56-160	
Fundamental arrangement	B14					
Mounting arrangement	B14	B34	V18	V58	V19	V69
Diagram						
Range of Manufacture (framesize)	56-132					

TECHNICAL DATA

2 POLE

Type	Amps (A) 380	Output kW	Speed r/min	EFF. %	P.F. Cos ϕ	LRT RLT	LRA RLA	BDT RLT	Noise LwdB(A)	Weight kg	J kgm2
BLA63M1-2	0.53	0.18	2720	65.00	0.80	2.3	5.5	2.3	61	4,5	0.00031
BLA63M2-2	0.69	0.25	2720	68.00	0.81	2.3	5.5	2.3	61	5	0.0006
BLA71M1-2	1.01	0.37	2755	69.00	0.81	2.2	6.1	2.3	64	6	0.00075
BLA71M2-2	1.38	0.55	2790	74.00	0.82	2.3	6.1	2.3	64	9	0.0009
BLA80M1-2	1.77	0.75	2845	75.00	0.83	2.3	6.1	2.2	67	10	0.0012
BLA80M2-2	2.61	1.1	2835	76.20	0.84	2.3	6.9	2.2	67	11,8	0.0014
BLA90S-2	3.46	1.5	2850	78.50	0.84	2.3	7.0	2.2	72	14,5	0.0029
BLA90L-2	4.85	2.2	2855	81.00	0.85	2.3	7.0	2.2	72	16,6	0.0055
BLA100L-2	6.34	3	2860	82.60	0.87	2.3	7.5	2.2	76	24	0.0109
BLA112M-2	8.2	4	2880	84.20	0.88	2.3	7.5	2.2	77	29	0.0126
BLA132S1-2	11.1	5.5	2900	85.70	0.88	2.3	7.5	2.2	80	40	0.0377
BLA132S2-2	14.9	7.5	2900	87.00	0.88	2.3	7.5	2.2	80	43	0.0499
BLC160M1-2	21.2	11	2930	88.4	0.89	2.2	7.5	2.3	86	107	0.03770
BLC160M2-2	28.6	15	2930	89.4	0.89	2.2	7.5	2.3	86	114	0.04990
BLC160L-2	34.7	18.5	2930	90.0	0.90	2.2	7.5	2.3	86	133	0.05500
BLC180M-2	41	22	2940	90.5	0.90	2.0	7.5	2.3	89	165	0.07500
BLC200L1-2	55.4	30	2950	91.4	0.90	2.0	7.5	2.3	92	218	0.12400
BLC200L2-2	67.9	37	2950	92.0	0.90	2.0	7.5	2.3	92	230	0.13900
BLC225M-2	82.1	45	2960	92.5	0.90	2.0	7.5	2.3	92	290	0.23300
BLC250M-2	100	55	2970	93.0	0.90	2.0	7.5	2.3	93	359	0.31200
BLC280S-2	135	75	2975	93.6	0.90	2.0	7.0	2.3	94	475	0.57900
BLC280M-2	160	90	2975	93.9	0.91	2.0	7.1	2.3	94	510	0.67500
BLC315S-2	195	110	2975	94.0	0.91	1.8	7.1	2.2	96	875	1.18000
BLC315M-2	233	132	2975	94.5	0.91	1.8	7.1	2.2	96	963	1.82000
BLC315L1-2	279	160	2975	94.6	0.92	1.8	7.1	2.2	99	1010	2.08000
BLC315L2-2	348	200	2975	94.8	0.92	1.8	7.1	2.2	99	1138	2.38000
BLC355M-2	433	250	2980	95.2	0.92	1.6	7.1	2.2	103	1900	3.00000
BLC355L-2	545	315	2980	95.4	0.92	1.6	7.1	2.2	103	2300	3.50000

4 POLE

Type	Amps (A) 380	Output kW	Speed r/min	EFF. %	P.F. Cos ϕ	LRT RLT	LRA RLA	BDT RLT	Noise LwdB(A)	Weight kg	J kgm2
BLA63M2-4	0.62	0.18	1310	60.00	0.73	2.2	4.4	2.1	52	4,5	0.0006
BLA71M1-4	0.79	0.25	1345	65.00	0.74	2.2	5.2	2.1	55	5	0.0008
BLA71M2-4	1.12	0.37	1340	67.00	0.75	2.2	5.2	2.1	55	6,3	0.0013
BLA80M1-4	1.52	0.55	1390	71.00	0.75	2.3	5.2	2.4	58	9	0.0018
BLA80M2-4	1.95	0.75	1380	73.00	0.76	2.3	6.0	2.3	58	10	0.0021
BLA90S-4	2.85	1.1	1390	76.20	0.77	2.3	6.0	2.3	61	12	0.0023
BLA90L-4	3.72	1.5	1400	78.50	0.78	2.3	6.0	2.3	61	14	0.0027
BLA100L1-4	5.09	2.2	1420	81.00	0.81	2.3	7.0	2.3	64	23	0.0054
BLA100L2-4	6.78	3	1410	82.60	0.82	2.3	7.0	2.3	64	25	0.0067
BLA112M-4	8.8	4	1435	84.20	0.82	2.3	7.0	2.3	65	29	0.0095
BLA132S-4	11.7	5.5	1440	85.70	0.83	2.3	7.0	2.3	71	46	0.0214
BLA132M-4	15.6	7.5	1450	87.00	0.84	2.3	7.0	2.3	71	55	0.0296
BLC160M1-4	22.5	11	1460	88.4	0.84	2.2	7.0	2.3	75	110	0.07470
BLC160L-4	30	15	1460	89.4	0.85	2.2	7.5	2.3	75	129	0.09180
BLC180M-4	36.3	18.5	1470	90	0.86	2.2	7.5	2.3	76	160	0.13900
BLC180L-4	43.2	22	1470	90.5	0.86	2.2	7.5	2.3	76	178	0.15800
BLC200L-4	57.6	30	1470	91.4	0.86	2.2	7.2	2.3	79	228	0.26200
BLC225S-4	70.2	37	1475	92	0.87	2.2	7.2	2.3	81	288	0.40600
BLC225M-4	84.9	45	1475	92.5	0.87	2.2	7.2	2.3	81	313	0.46900
BLC250M-4	103	55	1480	93	0.87	2.2	7.2	2.3	83	376	0.66000
BLC280S-4	138.3	75	1480	93.6	0.88	2.2	6.8	2.3	86	508	1.12000
BLC280M-4	165	90	1480	93.9	0.88	2.2	6.8	2.3	86	581	1.64000
BLC315S-4	201	110	1480	94.5	0.88	2.1	6.9	2.2	93	846	3.10000
BLC315M-4	240	132	1480	94.8	0.88	2.1	6.9	2.2	93	940	3.62000
BLC315L1-4	288	160	1480	94.9	0.89	2.1	6.9	2.2	97	1044	4.13000
BLC315L2-4	360	200	1480	94.9	0.89	2.1	6.9	2.2	97	1162	4.73000
BLC355M-4	443	250	1490	95.2	0.90	2.1	6.9	2.2	101	1700	6.50000
BLC355L-4	559	315	1490	95.2	0.90	2.1	6.9	2.2	101	1900	8.20000

TECHNICAL DATA

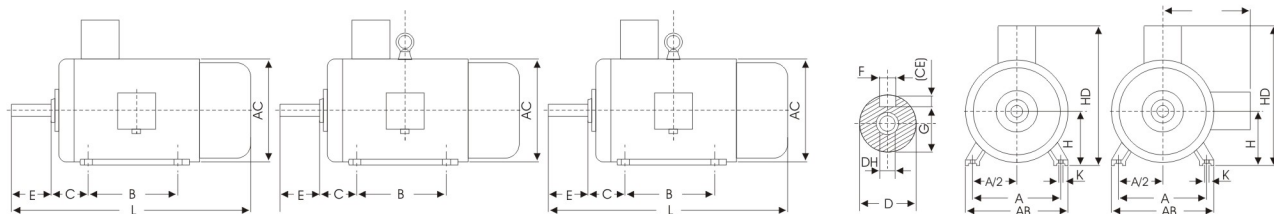
6 POLE

Type	Amps (A) 380	Output kW	Speed r/min	EFF. %	P.F. Cos ϕ	LRT RLT	LRA RLA	BDT RLT	Noise LwdB(A)	Weight kg	J kgm2
BLA71M1-6	0.74	0.18	870	56.00	0.66	2.0	4.0	1.9	52	6	0.0011
BLA71M2-6	0.95	0.25	870	59.00	0.68	2.0	4.0	1.9	52	6,5	0.0014
BLA80M1-6	1.23	0.37	880	62.00	0.70	2.0	4.7	1.9	54	10	0.0016
BLA80M2-6	1.7	0.55	880	65.00	0.72	2.1	4.7	1.9	54	12	0.0019
BLA90S-6	2.29	0.75	905	69.00	0.72	2.1	5.3	2.0	57	13	0.0029
BLA90L-6	3.18	1.1	905	72.00	0.73	2.1	5.5	2.0	57	14	0.0035
BLA100L-6	4.0	1.5	920	76.00	0.76	2.1	5.5	2.0	61	23	0.0069
BLA112M-6	5.6	2.2	935	79.00	0.76	2.1	6.5	2.0	65	28	0.014
BLA132S-6	7.4	3	960	81.00	0.76	2.1	6.5	2.1	69	38	0.0286
BLA132M1-6	9.5	4	960	82.00	0.76	2.1	6.5	2.1	69	50	0.0357
BLA132M2-6	12.6	5.5	960	84.00	0.77	2.1	6.5	2.1	69	57	0.0449
BLC160M-6	17.2	7.5	970	86	0.77	2.0	6.5	2.1	73	118	0.08100
BLC160L-6	24.5	11	980	87.5	0.78	2.0	6.5	2.1	73	122	0.11600
BLC180L-6	31.6	15	980	89	0.81	2.0	7.0	2.1	73	167	0.20700
BLC200L1-6	38.6	18.5	980	90	0.18	2.1	7	2.1	76	236	0.31500
BLC200L2-6	44.7	22	980	90	0.83	2.0	7	2.1	76	247	0.36000
BLC225M-6	59.3	30	980	91.5	0.84	2.0	7	2.1	76	287	0.54700
BLC250M-6	71	37	980	92	0.86	2.1	7	2.1	78	355	0.84300
BLC280S-6	86	45	980	92.5	0.86	2.1	7	2	80	444	1.39000
BLC280M-6	104	55	980	92.8	0.86	2.1	7	2	80	498	1.65000
BLC315S-6	142	75	985	93.5	0.86	2.0	6.7	2	85	859	4.11000
BLC315M-6	169	90	985	93.8	0.86	2.0	6.7	2	85	950	4.78000
BLC315L1-6	207	110	985	94	0.86	2.0	6.7	2	85	1031	5.45000
BLC315L2-6	245	132	985	94.2	0.87	2.0	6.7	2	85	1107	6.12000
BLC355M1-6	292	160	990	94.5	0.88	1.9	6.7	2	92	1550	9.50000
BLC355M2-6	365	200	990	94.5	0.88	1.9	6.7	2	92	1600	10.40000
BLC355L-6	457	250	990	94.5	0.88	1.9	6.7	2	92	1700	12.40000

8 POLE

Type	Amps (A) 380	Output kW	Speed r/min	EFF. %	P.F. Cos ϕ	LRT RLT	LRA RLA	BDT RLT	Noise LwdB(A)	Weight kg	J kgm2
BLA80M1-8	0.83	0.18	645	51.00	0.61	1.9	3.3	1.8	52	11	0.0025
BLA80M2-8	1.1	0.25	645	54.00	0.61	1.9	3.3	1.8	52	11	0.003
BLA90S-8	1.49	0.37	675	62.00	0.61	1.9	4.0	1.8	56	14	0.0051
BLA90L-8	2.17	0.55	680	63.00	0.61	2.0	4.0	1.8	56	16	0.0065
BLA100L1-8	2.43	0.75	680	70.00	0.67	2.0	4.0	1.8	59	24	0.0095
BLA100L2-8	3.36	1.1	680	72.00	0.69	2.0	5.0	1.8	59	26	0.011
BLA112M-8	4.4	1.5	690	74.00	0.70	2.0	5.0	1.8	61	30	0.0245
BLA132S-8	6.0	2.2	710	79.00	0.71	2.0	6.0	1.8	64	51	0.0314
BLA132M-8	7.8	3	710	80.00	0.73	2.0	6.0	1.8	64	59	0.0395
BLC160M1-8	10.3	4	720	81	0.73	1.9	6	2	68	105	0.07530
BLC160M2-8	13.6	5.5	720	83	0.74	1.9	6	2	68	115	0.09310
BLC160L-8	17.8	7.5	720	85.5	0.75	1.9	6	2	68	145	0.12600
BLC180L-8	25.5	11	730	87.5	0.75	2	6.5	2	70	169	0.20300
BLC200L-8	34.1	15	730	88	0.76	2	6.6	2	73	236	0.33900
BLC225S-8	41.1	18.5	730	90	0.76	1.9	6.6	2	73	274	0.49100
BLC225M-8	48.9	22	730	90.5	0.78	1.9	6.6	2	73	290	0.54700
BLC250M-8	63	30	735	91	0.79	1.9	6.5	2	75	370	0.83400
BLC280S-8	78	37	740	91.5	0.79	1.9	6.6	2	76	488	1.65000
BLC280M-8	94	45	740	92	0.79	1.9	6.6	2	76	563	1.93000
BLC315S-8	111	55	735	92.8	0.81	1.8	6.6	2	82	852	4.79000
BLC315M-8	150	75	735	93.5	0.81	1.8	6.2	2	82	933	5.58000
BLC315L1-8	178	90	735	93.8	0.82	1.8	6.4	2	82	1027	6.37000
BLC315L2-8	217	110	735	94	0.82	1.8	6.4	2	82	1117	7.23000
BLC355M1-8	261	132	740	93.7	0.82	1.8	6.4	2	90	2000	7.90000
BLC355M2-8	315	160	740	94.2	0.82	1.8	6.4	2	90	2150	10.30000
BLC355L-8	387	200	740	94.5	0.83	1.8	6.4	2	90	2250	12.30000

FOOT MOUNTING B3



H80-90

H100-132

H160-355

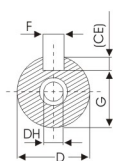
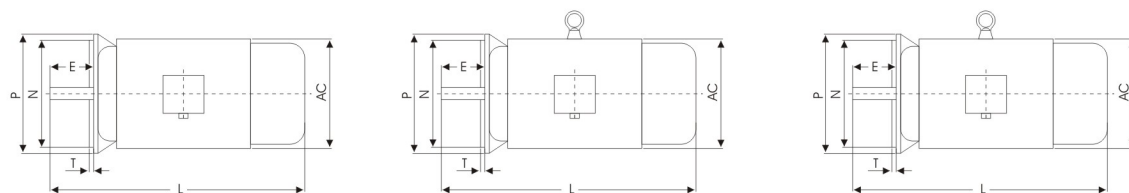
H63-71

H80-355

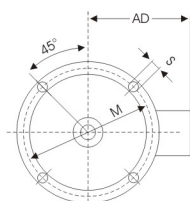
FRAME WITH FEET AND END-SHIELD WITHOUT FLANGE(IM B3)

FRAME SIZE	POLES	A	A/2	B	C	D	E	F	G	H	K	AB	AC	AD	HD	L	DH*
63M	2 4	100	50	80	40	11	23	4	8.5	63	7	135	130	115	180	230	M4 x 12
71M	2 4 6	112	56	90	45	14	30	5	11	71	7	150	145	127	195	255	M5 x 12
80M	2 4 6 8	125	62.5	100	50	19	40	6	15.5	80	10	165	175	145	220	295	M6 x 16
90S	2 4 6 8	140	70	100	56	24	50	8	20	90	10	180	195	155	250	320	M8 x 19
90L	2 4 6 8	140	70	125	56	24	50	8	20	90	10	180	195	155	250	345	M8 x 19
100L	2 4 6 8	160	80	140	63	28	60	8	24	100	12	205	215	180	270	385	M10 x 22
112M	2 4 6 8	190	95	140	70	28	60	8	24	112	12	230	240	190	300	400	M10 x 22
132S	2 4 6 8	216	108	140	89	38	80	10	33	132	12	270	275	210	345	470	M12 x 28
132M	2 4 6 8	216	108	178	89	38	80	10	33	132	12	270	275	210	345	510	M12 x 28
160M	2 4 6 8	254	127	210	108	42	110	12	37	160	15	320	330	255	420	615	M16x 36
160L	2 4 6 8	254	127	254	108	42	110	12	37	160	15	320	330	255	420	660	M16 x 36
180M	2 4 6 8	279	139.5	241	121	48	110	14	42.5	180	15	355	380	280	455	700	M16 x 36
180L	2 4 6 8	279	139.5	279	121	48	110	14	42.5	180	15	355	380	280	455	740	M16 x 36
200L	2 4 6 8	318	159	305	133	55	110	16	49	200	19	395	420	305	505	770	M20 x 42
225S	4 8	356	178	286	149	60	140	18	53	225	19	435	470	335	560	815	M20 x 42
225M	2	356	178	311	149	55	110	16	49	225	19	435	470	335	560	820	M20 x 42
	4 6 8	356	178	311	149	60	140	18	53	225	19	435	470	335	560	845	M20 x 42
250M	2	406	203	349	168	60	140	18	53	250	24	490	510	370	615	920	M20 x 42
	4 6 8	406	203	349	168	65	140	18	58	250	24	490	510	370	615	920	M20 x 42
280S	2	457	228.5	368	190	65	140	18	58	280	24	550	580	410	680	995	M20 x 42
	4 6 8	457	228.5	368	190	75	140	20	67.5	280	24	550	580	410	680	995	M20 x 42
280M	2	457	228.5	419	190	65	140	18	58	280	24	550	580	410	680	1045	M20 x 42
	4 6 8	457	228.5	419	190	75	140	20	67.5	280	24	550	580	410	680	1045	M20 x 42
315S	2	508	254	406	216	65	140	18	58	315	28	635	645	530	845	1185	M20 x 42
	4 6 8 10	508	254	406	216	80	170	22	71	315	28	635	645	530	845	1220	M20 x 42
315M	2	508	254	457	216	65	140	18	58	315	28	635	645	530	845	1290	M20 x 42
	4 6 8 10	508	254	457	216	80	170	22	71	315	28	635	645	530	845	1325	M20 x 42
315L	2	508	254	508	216	65	140	18	58	315	28	635	645	530	845	1290	M20 x 42
	4 6 8 10	508	254	508	216	80	170	22	71	315	28	635	645	530	845	1325	M20 x 42
355M	2	610	305	560	254	75	140	20	67.5	355	28	730	710	655	1010	1500	M20 x 42
	4 6 8 10	610	305	560	254	95	170	25	86	355	28	730	710	655	1010	1530	M20 x 42
355L	2	610	305	630	254	75	140	20	67.5	355	28	730	710	655	1010	1500	M20 x 42
	4 6 8 10	610	305	630	254	95	170	25	86	355	28	730	710	655	1010	1530	M20 x 42

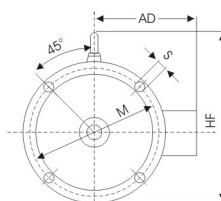
FLANGE MOUNTING B5



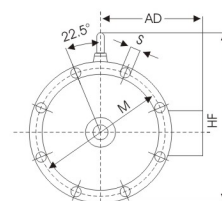
H63-90



H100-200



H200-280



FRAME WITHOUT FEET AND END-SHIELD WITH FLANGE(IM B5)

FRAME SIZE	POLES	D	E	F	G	M	N	P	S	T	FLANGE HOLES	AC	AD	HF	L	DH*
63M	2 4	11	23	4	8.5	115	95	140	10	3	4	130	115	130	230	M4 x 12
71M	2 4 6	14	30	5	11	130	110	160	10	3.5	4	145	127	145	255	M5 x 12
80M	2 4 6 8	19	40	6	15.5	165	130	200	12	3.5	4	175	145	185	295	M6 x 16
90S	2 4 6 8	24	50	8	20	165	130	200	12	3.5	4	195	155	195	320	M8 x 19
90L	2 4 6 8	24	50	8	20	165	130	200	12	3.5	4	195	155	195	345	M8 x 19
100L	2 4 6 8	28	60	8	24	215	180	250	15	4	4	215	180	245	385	M10 x 22
112M	2 4 6 8	28	60	8	24	215	180	250	15	4	4	240	190	265	400	M10 x 22
132S	2 4 6 8	38	80	10	33	265	230	300	15	4	4	275	210	315	470	M12 x 28
132M	2 4 6 8	38	80	10	33	265	230	300	15	4	4	275	210	315	510	M12 x 28
160M	2 4 6 8	42	110	12	37	300	250	350	19	5	4	330	255	385	615	M16 x 36
160L	2 4 6 8	42	110	12	37	300	250	350	19	5	4	330	255	385	660	M16 x 36
180M	2 4 6 8	48	110	14	42.5	300	250	350	19	5	4	380	280	430	700	M16 x 36
180L	2 4 6 8	48	110	14	42.5	300	250	350	19	5	4	380	280	430	740	M16 x 36
200L	2 4 6 8	55	110	16	49	350	300	400	19	5	8	420	305	480	770	M20 x 42
225S	4 8	60	140	18	53	400	350	450	19	5	8	470	335	535	815	M20 x 42
225M	2	55	110	16	49	400	350	450	19	5	8	470	335	535	820	M20 x 42
	4 6 8	60	140	18	53	400	350	450	19	5	8	470	335	535	845	M20 x 42
250M	2	60	140	18	53	500	450	550	19	5	8	510	370	595	920	M20 x 42
	4 6 8	65	140	18	58	500	450	550	19	5	8	510	370	595	920	M20 x 42
280S	2	65	140	18	58	500	450	550	19	5	8	580	410	650	995	M20 x 42
	4 6 8	75	140	20	67.5	500	450	550	19	5	8	580	410	650	995	M20 x 42
280M	2	65	140	18	58	500	450	550	19	5	8	580	410	650	1045	M20 x 42
	4 6 8	75	140	20	67.5	500	450	550	19	5	8	580	410	650	1045	M20 x 42