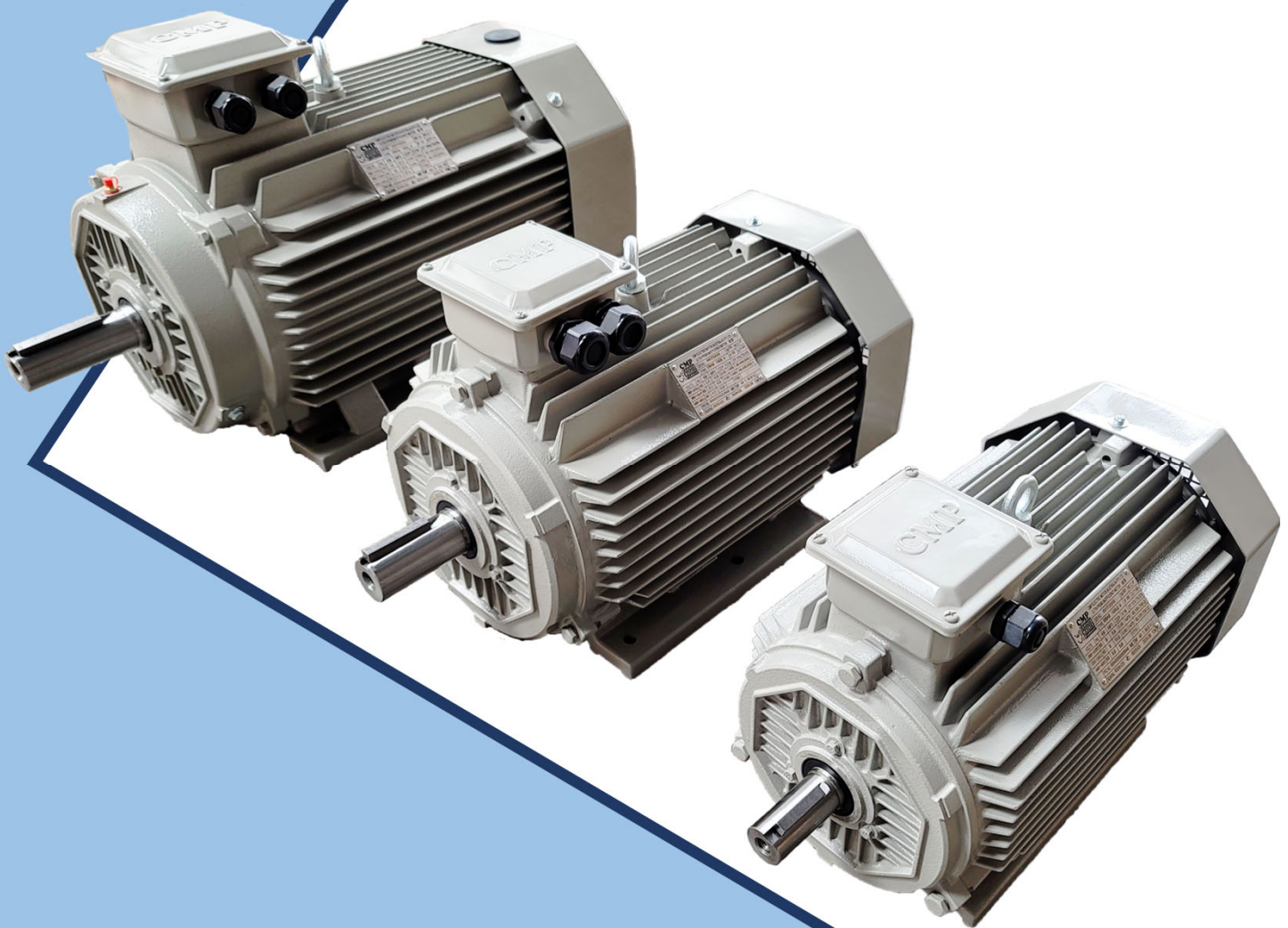


# PRODUCTS CATALOG

COMMERCIAL AND INDUSTRIAL

**CMP**  
Century  
motors  
Producer



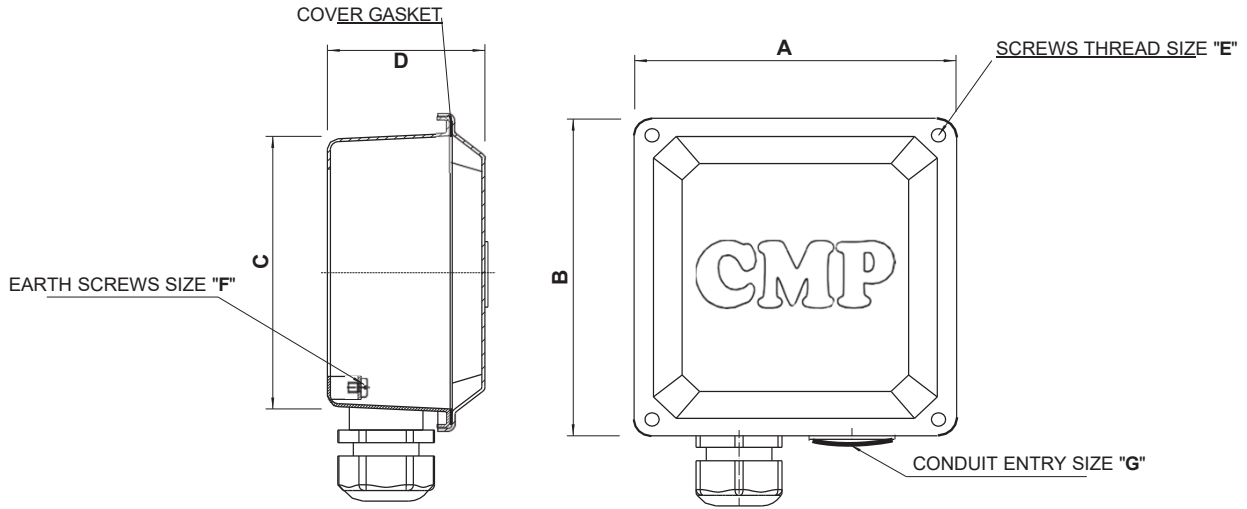
## DBA5 SERIES IE5

ULTRA PREMIUM EFFICIENCY MOTORS

THREE PHASE

## Motor Terminal Box and Cable Entry

- Standard terminal box is mounted on the Top. Motors are also available with on the right hand



Frame Size	A	B	C	D	E	F	G
71-80	103	103	84	51	M5	M5	1-M20x1.5
90-100	109	109	92	53	M5	M5	1-M20x1.5
112-132	118	126	108	65	M5	M5	2-M25x1.5
160	158	165	145	78	M6	M6	2-M25x1.5
180	158	165	145	78	M6	M6	2-M32x1.5
200	197	213	191	100	M6	M6	2-M32x1.5
225	197	213	191	100	M6	M6	2-M40x1.5
250	224	248	218	115	M8	M8	2-M40x1.5
280	224	248	218	115	M8	M8	2-M50x1.5
315	310	342	305	162	M10	M10	2-M63x1.5
355	362	400	355	172	M12	M10	2-M63x1.5

## Vibration, balancing and noise

### Vibration

DBA motors fall within the limits of vibration severity set out in standard IEC 60034-14 which are listed below. As specified in the standard, these values relate to rotating machinery measured in soft suspension.

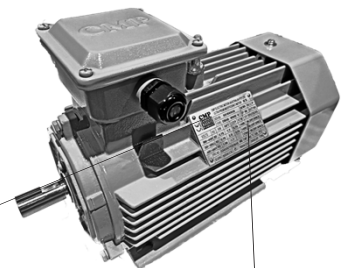
### Vibration severity limit, Level N

Motor frame	Maximum RMS vibration velocity [ mm/s ]
71	1.6
80	1.6
90	1.6
100	1.6
112	1.6
132	1.6
160	2.2
180	2.2
200	2.2
225	2.2
250	2.2
280	2.2
315	2.8
355	2.8

### Balancing

Rotors have been dynamically balanced with a half key. Pulleys or couplings used with motors must also be appropriately balanced.

### Name Plate Design



<b>CMP</b> Century motors Producer		CMP ELECTRIC MOTOR (AUSTRALIA) PTY LTD ULTRA PREMIUM EFFICIENCY MOTOR <b>IE5</b>					
SER. NO. 89228775		IM B3		INS.CL F			
TYPE DBA5 250M-4		IP 55		DUTY S1			
VOLTS	Hz	KW	AMPS	COSφ	R.P.M	EFF 100%/75%/50%	
380~415 Δ	50	55.0	96.5	0.86	1490	96.5 / 96.5 / 95.0	
660~720 Y	50	55.0	55.3	0.86	1490	96.5 / 96.5 / 95.0	
440~480 Δ	60	63.3	95.4		1780		
PRO.NO. G34055003DBA5		AMB.TEMP. 40 °C		612 KG			
BEARING 6314-C3		6313-C3		2022.10 YOM			

## Temperature and Altitude

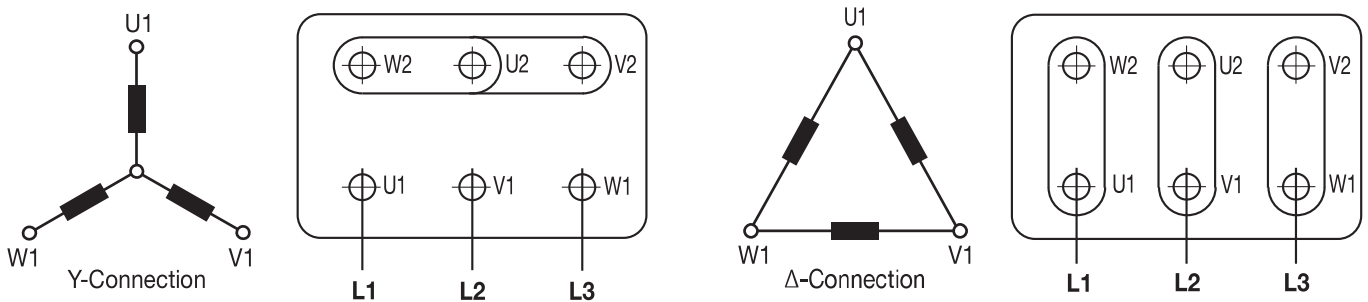
The performance data are based at standard ambient conditions of 40°C at 1000 meter above sea level. For any conditions differ from this standard, please contact CMP for the parameter factoring.

## Connections / Diagrams

For Single Speed Motor at and below 3.0KW, the standard connections are 230V Delta/400V Star (for 400V Winding). Designed for 400V Direct on Line (DOL) starting, at star terminal connection.

For Single Speed Motor at and above 4.0KW, the standard connections are 400V Delta/690V Star(for 400V winding). These connection are suitable for various starting methods mentioned below.

### Connection for single speed motors:



## Starting Methods

All of the following starter options are available through CMP Drives division, and are best supplied together with the motor.

### D.O.L. Starters

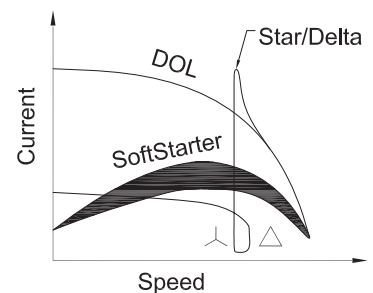
When an electric motor is started by direct connection o the power supply (D.O.L.), it draws a high current, called the 'starting current', which is approximately equal in magnitude to the locked rotor current  $I_L$ . As listed in the performance data, locked rotor current can be up to 8 times the rated current  $I_N$  of the motor. In circumstances where the motor starts under no load or where high starting toque is not required, it is preferable to reduce the starting current by one of the following means.

### Star - Delta starting

DBA motors 4.0kW and above are suitable for the star-delta starting method. Through the use of a star-delta starter, the motor terminals are connected in the star configuration during starting, and reconnected to the delta configuration when running. The benefits of this starting method are a significantly lower starting current, to a value about 1/3 of the D.O.L. starting current, and a corresponding starting torque also reduced to about 1/3 of its D.O.L. value. It should be noted that a second current surge occurs on changeover to the delta connection. The level of this surge will depend on the speed the motor has reached at the moment of changeover.

### Electronic soft starters

Through the use of an electronic soft starter, which controls such parameters as current and voltage, the starting sequence can be totally controlled. The starter can be programmed to limit the amount of starting current. By limiting the rate of the current increase the startup time is extended. This starting method is particularly suitable for centrifugal loads (fans and pumps).



## Number of starts per hour

The number of starts per hour is dependant on the inertia of the driven load and the load torque demand. When high inertia load is applied (flywheel, heavy fan etc) please refer to your nearest CMP office for advice. A guide to generally acceptable starts per hour would be as per table.

For greater number of starts per hour, please contact your nearest CMP office for advice.

Frame	Starts per Hour			
	2 Pole	4 Pole	6 Pole	8 Pole
71 *	-	40	-	-
80 *	20	40	40	-
90	16	30	40	-
100	16	30	40	40
112	16	30	40	40
132	10	20	25	25
160	10	20	25	25
180	8	15	20	20
200	6	12	12	12
225	5	10	10	10
250	4	8		
280	3	6		
315	3	4		

\* 20 Starts / Hour for Ex tD brake Motors

## Permitted starting time

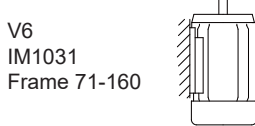
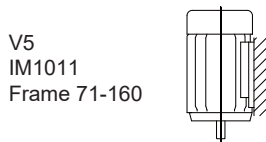
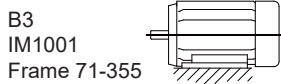
In respect to the temperature rise of the motor, starting time (i.e., from rest to operational speed) should not exceed the time indicated in the following table. Motor must be allowed to cool prior to each start.

Note: For Ex e motors  $t_E$  time stated on motor name plate takes precedence over these times

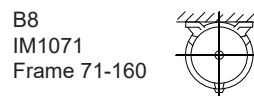
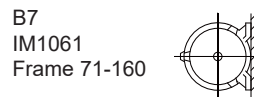
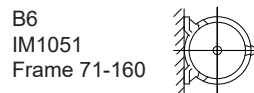
Frame	Starting method	Maximum starting time [sec]			
		2 pole	4 pole	6 pole	8 pole
71	D.O.L.	-	26	-	-
80	D.O.L.	15	26	40	-
90	D.O.L.	10	15	25	-
100	D.O.L.	12	13	18	40
112	D.O.L.	10	10	18	35
132	D.O.L.	14	12	12	25
160-355	D.O.L.	15	15	20	20
160-355	Star-delta	45	45	60	60

## Mounting Arrangements

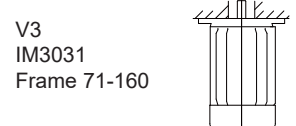
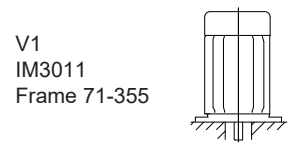
### Foot Mounting Horizontal



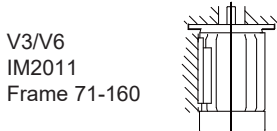
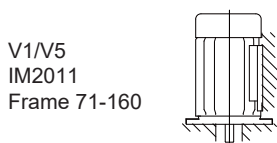
### Foot Mounting Vertical



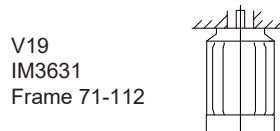
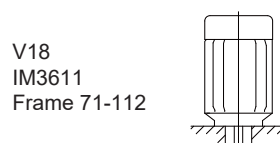
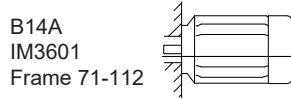
### Flange Mounting



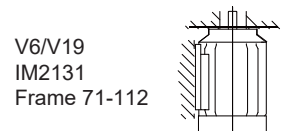
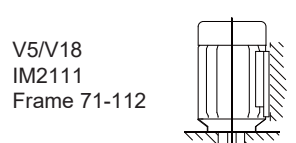
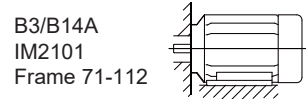
### Foot & Flange Mounting



### Face Mounting



### Foot & Face Mounting



## DBA5 Series Motor Bearings

### Bearing Sizes

These bearing sizes are listed for standard motor execution! Customer specific motors can be fitted with a different bearing arrangement (such as roller bearing at DE and/or insulated bearing at NDE). Always check the motor's nameplate for correct bearing. More information (such as re-lubrication periods) can be found in Maintenance Manual which is available for download in a number of different languages from our website.

Standard Bearing Sizes		
Frame-poles	DE	NDE
80	6204-2Z/C3	6204-2Z/C3
90	6205-2Z/C3	6205-2Z/C3
100	6206-2Z/C3	6206-2Z/C3
112	6206-2Z/C3	6206-2Z/C3
132	6208-2Z/C3	6208-2Z/C3
160-2	6209-C3	6209-C3
160-4,6,8	6309-C3	6209-C3
180-2	6211-C3	6211-C3
180-4,6,8	6311-C3	6211-C3
200-2	6212-C3	6212-C3
200-4,6,8	6312-C3	6212-C3
225-2	6312-C3	6312-C3
225-4,6,8	6313-C3	6312-C3

Standard Bearing Sizes		
Frame-poles	DE	NDE
250-2	6313-C3	6313-C3
250-4,6,8	6314-C3	6313-C3
280-2	6314-C3	6314-C3
280-4.6.8	6317-C3	6314-C3
315-2	6317-C3	6317-C3
315-4.6.8	NU319-C3	6319-C3
355-2	6319-C3	6319-C3
355-4.6.8	NU322-C3	6322-C3
315 Frame and larger sizes have insulated bearing for VSD. Roller bearing can be substituted for ball bearings at the drive end .Note that the use of roller bearings is not recommended for 2 pole motors		

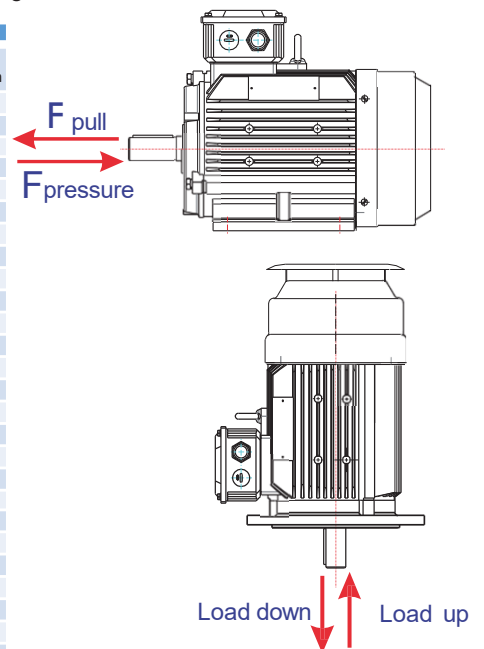
As standard, frame sizes 71 to 132 have high quality deep groove ball bearings with full contact seals. Bearings are prepacked with grease which, under normal operating conditions, provide a high degree of operational reliability. Frame sizes 160 to 355 have high quality bearings with facilities to enable replenishment of the lubricant during operation. Grease nipples are fitted to endshields with the grease relief chute blanked off by a removable plate.

### Permissible Shaft Forces

The table shows the Permissible Axial Forces in [N] (assuming zero radial force) when standard ball bearings are fitted. When higher Axial Forces are required Angular Contact Bearings should be fitted.

The values are based on normal conditions at 50Hz and calculated at 20,000 working hours for 2pole motors and 40,000 hours for 4, 6 & 8pole motors. Reduce the values by 10% for 60Hz speeds. Fpressure is calculated for fixed bearing at the DE.

Frame size	Poles	Maximum Axial Forces				Frame size	Poles	Maximum Axial Forces			
		[N]B3 Fpressure	B3 Fpull	V1 Load up	V1 Load down			[N]B3 Fpressure	B3 Fpull	V1 Load up	V1 Load down
80	2	380	380	400	360	180	2	2100	2100	2450	1720
	4	470	470	490	450		4	2600	2600	3200	2000
	6	590	590	620	560		6	2900	2900	3510	2280
	8	620	620	650	595		8	3170	3170	3780	2550
90	2	440	440	470	410	200	2	2400	2400	2940	1840
	4	550	550	600	510		4	3120	3120	3850	2390
	6	620	620	680	460		6	3480	3480	4350	2610
	8	640	640	700	580		8	3950	3950	4810	3090
100	2	610	610	670	570	225	2	2720	2720	3420	2020
	4	750	750	840	710		4	3480	3480	4370	2590
	6	880	880	970	820		6	3890	3890	5040	2820
	8	895	895	970	845		8	4330	4330	5330	3330
112	2	1220	1220	1300	1170	250	2	3100	3100	3940	2260
	4	1440	1440	1520	1370		4	3900	3900	5000	2800
	6	1650	1650	1740	1580		6	4450	4450	5570	3230
	8	1780	1780	1880	1710		8	4980	4980	6380	3580
132	2	1500	1500	1620	1430	280	2	5300	3100	6500	2100
	4	1780	1780	1970	1610		4	6300	4400	7800	3000
	6	1820	1820	2000	1660		6	6700	4300	7900	2900
	8	1920	1920	2100	1760		8	7100	5020	9100	3520
160	2	1650	1650	1950	1350	315	2	5900	3800	8000	2000
	4	2100	2100	2470	1720		4	7100	5100	10700	3150
	6	2450	2450	2800	2050		6	7600	5800	11800	3500
	8	2650	2650	3050	2210		8	8100	6300	12500	4400
355	2	6100	1850	14000	800	355	2	6100	1850	14000	800
	4	9800	3900	18300	2500*		4	9800	3900	18300	2500*
	6	10500	4700	20700	3500*		6	10500	4700	20700	3500*
	8	12500	6000	21500	3600*		8	12500	6000	21500	3600*



## PERFORMANCE DATA IE5

FRAME	Output Power		Full load Current (A)			Speed r/min	Eff %	Power Factory φ	Torque			Current	Weight
	KW	HP	380V	400V	415V				Full Load (Nm)	Locked rotor Tst/Tn	Max torque Tmax/TN	Locked rotor Ist/In	Kg
3000 RPM = 2 POLES													
DBA5 80M1-2	0.75	1.0	1.6	1.5	1.5	2915	86.3	0.83	2.5	2.2	2.3	8.5	20.5
DBA5 80M2-2	1.1	1.5	2.3	2.2	2.1	2910	87.8	0.83	3.6	2.2	2.3	8.5	23
DBA5 90S-2	1.5	2.0	3.0	2.9	2.7	2905	88.9	0.85	4.9	2.2	2.3	9.0	28
DBA5 90L-2	2.2	3.0	4.3	4.1	3.9	2910	90.2	0.86	7.2	2.2	2.3	9.0	34
DBA5 100L-2	3	4.0	5.8	5.5	5.3	2930	91.1	0.87	9.8	2.2	2.3	9.5	53.5
DBA5 112M-2	4	5.5	7.5	7.1	6.9	2930	91.8	0.88	13.0	2.2	2.3	9.5	59.5
DBA5 132S1-2	5.5	7.5	10.3	9.8	9.4	2955	92.6	0.88	17.8	2.0	2.3	9.5	87.5
DBA5 132S2-2	7.5	10	13.7	13.0	12.5	2955	93.3	0.89	24.2	2.0	2.3	9.5	93.5
DBA5 160M1-2	11	15	20.0	19.0	18.3	2975	94.0	0.89	35.3	2.0	2.3	9.5	154.5
DBA5 160M2-2	15	20	27.1	25.7	24.8	2970	94.5	0.89	48.2	2.0	2.3	9.5	164.5
DBA5 160L-2	18.5	25	33.3	31.6	30.5	2970	94.9	0.89	59.5	2.0	2.3	9.5	188.5
DBA5 180M-2	22	30	39.5	37.5	36.2	2975	95.1	0.89	70.6	2.0	2.3	9.5	264..5
DBA5 200L 1-2	30	40	53.6	50.9	49.1	2975	95.5	0.89	96.3	2.0	2.3	9.0	330.6
DBA5 200L2-2	37	50	65.9	62.6	60.4	2975	95.8	0.89	119	2.0	2.3	9.0	352.5
DBA5 225M-2	45	60	80.0	76.0	73.3	2980	96.0	0.89	144	2.0	2.3	9.0	457.5
DBA5 250M-2	55	75	97.6	92.7	89.4	2980	96.2	0.89	176	2.0	2.3	9.0	583..0
DBA5 280S-2	75	100	133	126.4	121.8	2985	96.5	0.89	240	1.8	2.3	8.5	790.0
DBA5 280M-2	90	120	159	151	145.6	2990	96.6	0.89	287	1.8	2.3	8.5	893.0
DBA5 315S-2	110	150	194	184.3	177.7	2985	96.8	0.89	352	1.8	2.3	8.5	1240
DBA5 315M-2	132	180	233	221.4	213.4	2985	96.9	0.89	422	1.8	2.3	8.5	1270
DBA5 315L1-2	160	220	282	267.9	258.3	2985	97.0	0.89	512	1.8	2.2	8.5	1485
DBA5 315L-2	185	250	325	308.8	297.7	2985	97.1	0.89	592	1.8	2.2	8.5	1710
DBA5 315L2-2	200	270	351	333.5	321.5	2985	97.2	0.89	640	1.8	2.2	8.5	1710
DBA5 315L3-2	220	300	382	362.9	349.9	2985	97.2	0.90	704	1.8	2.2	8.5	1780
DBA5 315L4-2	250	340	429	407.6	393	2985	97.2	0.91	800	1.8	2.2	8.5	1820
DBA5 355M1-2	220	300	378	359.1	346.3	2985	97.2	0.91	704	1.8	2.2	8.5	1780
DBA5 355M-2	250	340	429	407.6	393	2985	97.2	0.91	800	1.6	2.2	8.5	1720
DBA5 355L1-2	280	380	481	457	440.6	2985	97.2	0.91	896	1.6	2.2	8.5	1880
DBA5 355L-2	315	430	541	514	495.6	2985	97.2	0.91	1008	1.6	2.2	8.5	1950

## PERFORMANCE DATA IE5

FRAME	Output Power		Full load Current (A)			Speed r/min	Eff %	Power Factory $\varphi$	Torque			Current	Weight
	KW	HP	380V	400V	415V				Full Load (Nm)	Locked rotor Tst/Tn	Max torque Tmax/TN	Locked rotor Ist/In	Kg
<b>1500 RPM = 4 POLES</b>													
DBA5 80M1-4	0.55	0.75	1.3	1.2	1.2	1455	86.7	0.74	3.6	2.4	2.3	6.6	22
DBA5 80M2-4	0.75	1.0	1.7	1.6	1.5	1455	88.2	0.74	4.9	2.3	2.3	8.5	24.5
DBA5 90S-4	1.1	1.5	2.5	2.4	2.3	1460	89.5	0.75	7.2	2.3	2.3	8.5	30.5
DBA5 90L-4	1.5	2.0	3.3	3.1	3.0	1460	90.4	0.76	9.8	2.3	2.3	9.0	36.5
DBA5 100L1-4	2.2	3.0	4.6	4.4	4.2	1470	91.4	0.79	14.3	2.3	2.3	9.0	51
DBA5 100L2-4	3	4.0	6.2	5.9	5.7	1470	92.1	0.80	19.5	2.3	2.3	9.5	58.5
DBA5 112M-4	4	5.5	8.2	7.8	7.5	1470	92.8	0.80	26.0	2.3	2.3	9.5	67.5
DBA5 132S-4	5.5	7.5	11.2	10.6	10.2	1480	93.4	0.80	35.5	2.0	2.3	9.5	92.5
DBA5 132M-4	7.5	10	15.0	14.3	13.7	1475	94.0	0.81	48.6	2.0	2.3	9.5	106
DBA5 160M-4	11	15	21.5	20.4	19.6	1485	94.6	0.83	70.7	2.0	2.3	9.5	159.5
DBA5 160L-4	15	20	28.9	27.5	26.4	1485	95.1	0.84	96.5	2.0	2.3	9.5	190.5
DBA5 180M-4	18.5	25	34.7	33.0	31.6	1485	95.3	0.85	119	2.0	2.3	9.5	250.8
DBA5 180L-4	22	30	41.2	39.1	37.6	1485	95.5	0.85	141	2.0	2.3	9.5	283
DBA5 200L-4	30	40	55.9	53.1	51.0	1485	95.9	0.85	193	2.0	2.3	9.0	339
DBA5 225S-4	37	50	68.8	65.4	62.7	1490	96.1	0.85	237	2.0	2.3	9.0	439
DBA5 225M-4	45	60	83.5	79.3	76.2	1490	96.3	0.85	288	2.0	2.3	9.0	481
DBA5 250M-4	55	75	101	96.0	92.1	1490	96.5	0.86	353	2.0	2.3	9.0	612.5
DBA5 280S-4	75	100	135	128.3	123.1	1495	96.7	0.87	479	2.0	2.3	8.5	788
DBA5 280M-4	90	120	160	152	145.9	1490	96.9	0.88	577	2.0	2.3	8.5	878
DBA5 315S4	110	150	194	184.3	176.9	1490	97.0	0.89	705	1.8	2.2	8.5	1100
DBA5 315M-4	132	180	232	220.4	211.6	1490	97.1	0.89	846	1.8	2.2	8.5	1200
DBA5 315L1-4	160	220	278	264.1	253.5	1490	97.2	0.90	1026	1.8	2.2	8.5	1500
DBA5 315L-4	185	250	321	305	292.8	1490	97.3	0.90	1186	1.8	2.2	8.5	1510
DBA5 315L2-4	200	270	347	329.7	316.5	1490	97.4	0.90	1282	1.8	2.2	8.5	1702
DBA5 315L3-4	220	300	381	362	347.5	1490	97.4	0.90	1410	1.8	2.2	8.5	1800
DBA5 315L4-4	250	340	433	411.4	394.9	1490	97.4	0.90	1602	1.8	2.2	8.5	1850
DBA5 355M1-4	220	300	381	362	347.5	1490	97.4	0.90	1410	1.8	2.2	8.5	1800
DBA5 355M-4	250	340	433	411.4	394.9	1495	97.4	0.90	1597	1.8	2.2	8.5	1950
DBA5 355L1-4	280	380	485	460.8	442.3	1495	97.4	0.90	1799	1.8	2.2	8.5	2000
DBA5 355L-4	315	430	546	518.7	498	1490	97.4	0.90	2019	1.8	2.2	8.5	2150

## PERFORMANCE DATA IE5

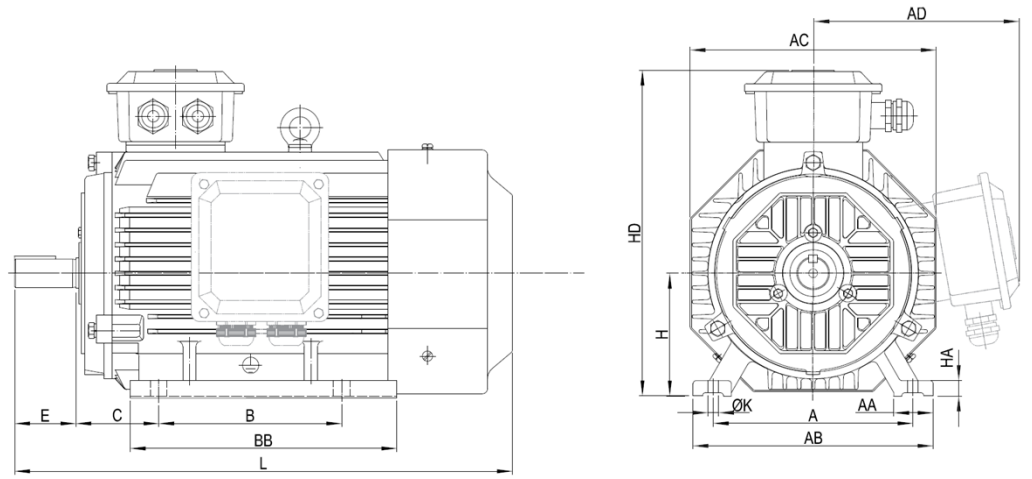
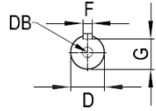
FRAME	Output Power		Full load Current (A)			Speed r/min	Eff %	Power Factory $\phi$	Torque			Current	Weight
	KW	HP	380V	400V	415V				Full Load (Nm)	Locked rotor Tst/Tn	Max torque Tmax/TN	Locked rotor Ist/In	Kg
<b>1000 RPM = 6 POLES</b>													
DBA5 80M1-6	0.37	0.5	1.0	1.0	0.9	950	81.6	0.68	3.8	1.9	2.1	6.0	21
DBA5 80M2-6	0.55	0.75	1.5	1.4	1.4	950	84.2	0.68	5.6	1.9	2.1	6.0	25.5
DBA5 90S-6	0.75	1.0	1.9	1.8	1.7	965	85.7	0.70	7.4	2.1	2.1	7.5	27.5
DBA5 90L-6	1.1	1.5	2.8	2.7	2.6	970	87.2	0.70	10.8	2.1	2.1	7.5	34.5
DBA5 100L-6	1.5	2.0	3.7	3.5	3.4	980	88.4	0.71	14.6	2.1	2.1	7.5	47.3
DBA5 112M-6	2.2	3.0	5.3	5.0	4.8	980	89.7	0.71	21.4	2.1	2.1	7.5	54.6
DBA5 132S-6	3	4.0	7.1	6.7	6.5	985	90.6	0.71	29.1	2.0	2.1	7.5	75.5
DBA5 132M1-6	4	5.5	9.2	8.7	8.4	985	91.4	0.72	38.8	2.0	2.1	8.0	87
DBA5 132M2-6	5.5	7.5	12.6	12.0	11.5	985	92.2	0.72	53.3	2.0	2.1	8.0	100
DBA5 160M-6	7.5	10	16.4	15.6	15.0	985	92.9	0.76	72.7	2.0	2.1	8.0	152
DBA5 160L-6	11	15	23.5	22.3	21.4	985	93.7	0.77	107	2.0	2.1	8.5	194.5
DBA5 180L-6	15	20	30.4	28.9	27.7	990	94.3	0.80	145	2.0	2.1	8.5	243
DBA5 200L1-6	18.5	25	37.1	35.2	33.8	990	94.6	0.80	178	2.0	2.1	8.5	315.5
DBA5 200L2-6	22	30	43.5	41.3	39.7	990	94.9	0.81	212	2.0	2.1	8.5	329.5
DBA5 225M-6	30	40	59.0	56.0	53.8	990	95.3	0.82	289	2.0	2.1	8.3	445
DBA5 250M-6	37	50	70.8	67.3	64.6	990	95.6	0.83	357	2.0	2.1	8.3	560
DBA5 280S-6	45	60	86.9	82.6	79.3	995	95.8	0.83	432	2.0	2.0	8.5	710
DBA5 280M-6	55	75	105	99.8	95.8	995	96.0	0.84	528	2.0	2.0	8.5	784
DBA5 315S-6	75	100	141	134	128.6	990	96.3	0.84	723	1.6	2.0	8.0	1150
DBA5 315M-6	90	120	167	158.7	152.3	990	96.5	0.85	868	1.6	2.0	8.0	1280
DBA5 315L1-6	110	150	204	193.8	186	990	96.6	0.85	1061	1.6	2.0	8.0	1560
DBA5 315L2-6	132	180	241	229	220	990	96.8	0.86	1273	1.6	2.0	8.0	1710
DBA5 315L3-6	160	220	292	277.4	266.3	990	96.9	0.86	1543	1.6	2.0	8.0	1850
DBA5 315L4-6	185	250	337	320.2	307.3	990	97.0	0.86	1785	1.6	2.0	8.0	1900
DBA5 355M1-6	160	220	291	276.5	265.4	995	97.0	0.86	1536	1.6	2.0	8.0	1950
DBA5 355M-6	185	250	337	320.2	307.3	995	97.0	0.86	1776	1.6	2.0	8.0	1980
DBA5 355M2-6	200	270	364	345.8	332	995	97.0	0.86	1920	1.6	2.0	8.0	1990
DBA5 355L1-6	220	300	401	381	366	995	97.0	0.86	2112	1.6	2.0	8.0	2050
DBA5 355L-6	250	340	455	432	415	995	97.0	0.86	2399	1.6	2.0	8.0	2080



## PERFORMANCE DATA IE5

FRAME	Output Power		Full load Current (A)			Speed r/min	Eff %	Power Factory φ	Torque			Current	Weight
	KW	HP	380V	400V	415V				Full Load (Nm)	Locked rotor Tst/Tn	Max torque Tmax/TN	Locked rotor Ist/In	Kg
<b>750 RPM = 8 POLES</b>													
DBA5 80M1-8	0.18	0.25	0.67	0.64	0.61	710	71.9	0.60	2.42	1.8	1.8	5.2	20
DBA5 80M2-8	0.25	0.37	0.86	0.82	0.78	710	75.2	0.60	3.34	1.8	1.8	5.7	23
DBA5 90S-8	0.37	0.5	1.2	1.1	1.09	715	78.4	0.60	4.98	1.8	1.9	6.2	28
DBA5 90L-8	0.55	0.75	1.7	1.6	1.55	715	80.6	0.61	7.56	1.8	2.0	5.9	34
DBA5 100L1-8	0.75	1.0	2.1	2.0	1.9	720	82.0	0.66	9.95	2.0	2.0	7.0	41.5
DBA5 100L2-8	1.1	1.5	3.0	2.9	2.7	720	84.0	0.67	14.6	2.0	2.0	7.0	47.5
DBA5 112M-8	1.5	2.2	4.0	3.8	3.6	720	85.5	0.69	19.9	2.0	2.0	7.0	57
DBA5 132S-8	2.2	3.0	5.5	5.2	5.0	730	87.2	0.70	28.6	1.8	2.0	7.5	76.5
DBA5 132M-8	3	4.0	7.4	7.0	6.7	730	88.4	0.70	39.0	1.8	2.0	7.8	87.0
DBA5 160M1-8	4	5.5	9.7	9.2	8.8	735	89.4	0.71	52.0	1.8	2.0	7.9	118.5
DBA5 160M2-8	5.5	7.5	12.8	12.2	11.7	735	90.4	0.72	71.5	1.8	2.0	8.1	130.5
DBA5 160L-8	7.5	10	17.1	16.2	15.6	735	91.3	0.74	97.5	1.8	2.0	7.8	158.0
DBA5 180L-8	11	15	24.5	23.3	22.3	735	92.2	0.74	143	1.8	2.0	7.9	239
DBA5 200L-8	15	20	32.7	31.1	29.8	740	92.9	0.75	194	1.8	2.0	8.0	317.5
DBA5 225S-8	18.5	25	40.7	38.7	37.1	740	93.3	0.75	239	1.8	2.0	8.1	404
DBA5 225M-8	22	30	47.6	45.2	43.4	740	93.6	0.76	284	1.8	2.0	8.3	427.5
DBA5 250M-8	30	40	62.9	59.8	57.4	740	94.1	0.77	387	1.8	2.0	7.9	541
DBA5 280S-8	37	50	76.3	72.5	69.6	745	94.4	0.78	474	1.8	2.0	7.9	724.5
DBA5 280M-8	45	60	92.6	88.0	84.5	745	94.7	0.78	577	1.8	2.0	7.9	765
DBA5 315S-8	55	75	110	104.5	100.3	735	94.9	0.80	715	1.6	2.0	7.6	980
DBA5 315M-8	75	100	149	142	136	735	95.3	0.80	974	1.6	2.0	7.7	1200
DBA5 315L1-8	90	120	177	168	161	735	95.5	0.81	1169	1.6	2.0	7.7	1320
DBA5 315L2-8	110	150	216	205	197	735	95.7	0.81	1429	1.6	2.0	7.7	1420
DBA5 315L3-8	132	180	258	245	235	735	95.9	0.81	1715	1.6	2.0	7.7	1750
DBA5 355M1-8	132	180	258	245	235	740	96.1	0.81	1704	1.6	2.0	7.7	1830
DBA5 355M2-8	160	220	322	306	294	740	96.2	0.82	2065	1.6	2.0	7.7	1910
DBA5 355L1-8	185	250	356	338	325	740	96.3	0.82	2388	1.6	2.0	7.7	2100
DBA5 355L-8	200	270	385	366	351	740	96.3	0.82	2581	1.6	2.0	7.8	2200

Dimension Drawings  
Foot Mount B3



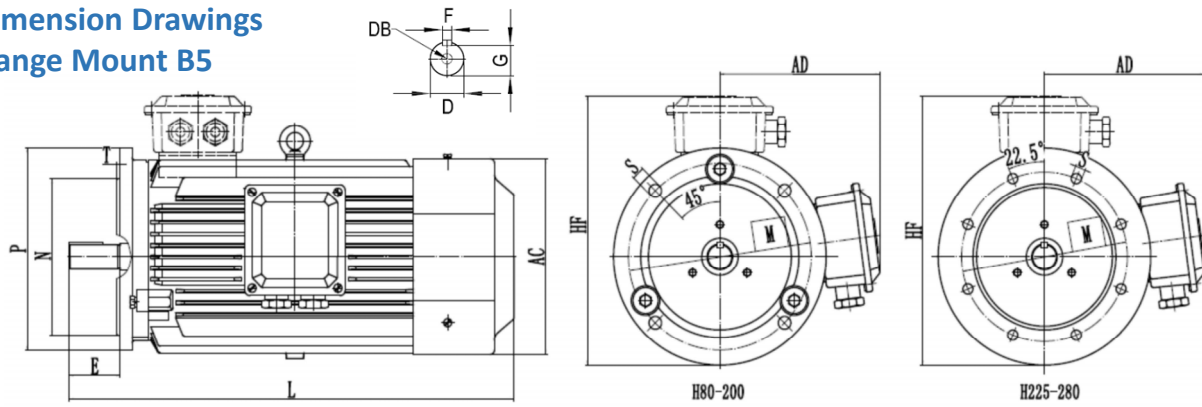
DIMENSION DRAWING B3

FRAME	A	B	C	D	DB	E	F	G	H	K	AA	AB	AC	AD	BB	HA	HD	L
80M	125	100	50	19	M6	40	6	15.5	80	10	33	158	160	145	200	10	230	390
90S	140	100	56	24	M8	50	8	20	90	10	34	174	180	155	205	12	245	415
90L	140	125	56	24	M8	50	8	20	90	10	34	174	180	155	255	12	245	465
100L	160	140	63	28	M10	60	8	24	100	12	40	200	220	175	245	14	275	508
112M	190	140	70	28	M10	60	8	24	112	12	47	230	225	195	275	14	305	530
132S	216	140	89	38	M12	80	10	33	132	12	55	265	275	220	270	18	350	570
132M	216	178	89	38	M12	80	10	33	132	12	55	265	275	220	310	18	350	610
160M	254	210	108	42	M16	110	12	37	160	15	65	320	330	260	310	20	420	700
160L	254	254	108	42	M16	110	12	37	160	15	65	320	330	260	360	20	420	750
180M	279	241	121	48	M16	110	14	42.5	180	15	70	349	360	280	350	22	449	835
180L	279	279	121	48	M16	110	14	42.5	180	15	70	349	360	280	400	22	449	885
200L	318	305	133	55	M20	110	16	49	200	19	75	400	415	325	475	26	525	780
225S	356	286	149	60	M20	140	18	53	225	19	80	437	475	355	490	28	580	970
225M*	356	311	149	55	M20	110	16	49	225	19	80	437	475	355	490	28	580	940
225M	356	311	149	60	M20	140	18	53	225	19	80	437	475	355	490	28	580	970
250M*	406	349	168	60	M20	140	18	53	250	24	80	490	530	410	445	30	650	980
250M	406	349	168	65	M20	140	18	58	250	24	80	490	530	410	445	30	650	980
280S*	457	368	190	65	M20	140	18	58	280	24	90	550	580	425	550	35	705	1080
280S	457	368	190	75	M20	140	20	67.5	280	24	90	550	580	425	550	35	705	1080
280M*	457	419	190	65	M20	140	18	58	280	24	90	550	580	425	610	35	705	1140
280M	457	419	190	75	M20	140	20	67.5	280	24	90	550	580	425	610	35	705	1140
315S*	508	406	216	65	M20	140	18	58	315	28	120	630	660	540	630	50	855	1310
315S	508	406	216	80	M20	170	22	71	315	28	120	630	660	540	630	50	855	1340
315M*	508	457	216	65	M20	140	18	58	315	28	120	630	660	540	730	50	855	1310
315M	508	457	216	80	M20	170	22	71	315	28	120	630	660	540	730	50	855	1440
315L1*	508	508	216	65	M20	140	18	58	315	28	120	630	660	540	730	50	855	1410
315L1	508	508	216	80	M20	170	22	71	315	28	120	630	660	540	730	50	855	1440
315L2*	508	508	216	65	M20	140	18	58	315	28	120	630	660	540	730	50	855	1410
315L2	508	508	216	80	M20	170	22	71	315	28	120	630	660	540	730	50	855	1490
355M1*	610	560	254	75	M20	140	20	67.5	355	28	130	730	720	620	750	50	1000	1520
355M1	610	560	254	95	M20	170	25	86	355	28	130	760	720	620	750	50	1000	1550
355M*	610	560	254	75	M20	140	20	67.5	355	28	130	730	720	620	750	50	1000	1520
355M	610	560	254	95	M20	170	25	86	355	28	130	730	720	620	750	50	1000	1650
355L*	610	630	254	75	M20	140	20	67.5	355	28	130	730	720	620	800	50	1000	1620
355L	610	630	254	95	M20	170	25	86	355	28	130	730	720	620	800	50	1000	1650

\* FOR 2 POLE MOTOR ONLY

Dimension Drawings  
Flange Mount B5

DIMENSION DRAWING B5

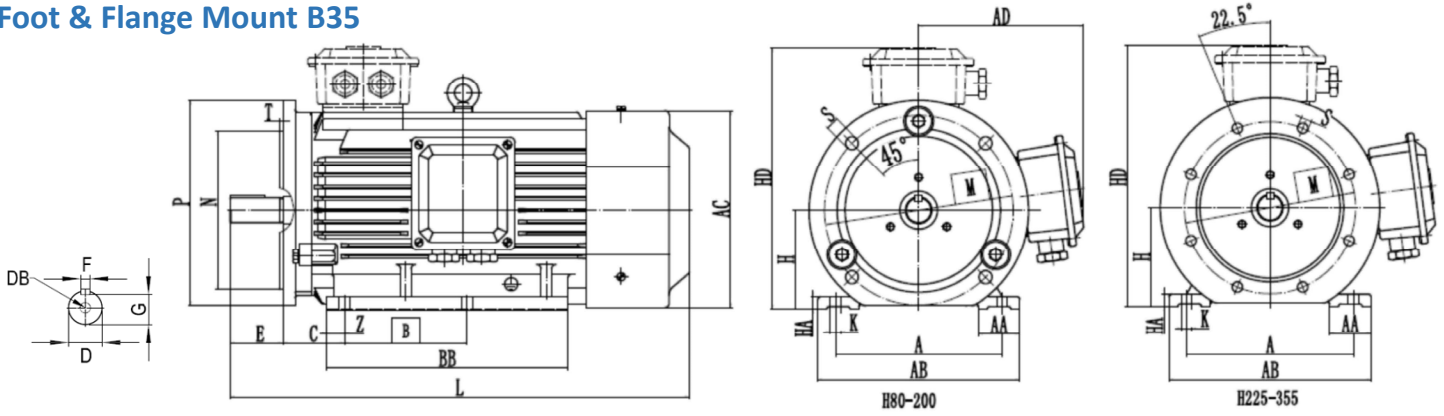


FRAME	D	DB	E	F	G	M	N	P	S	T	AC	AD	HF	L
80M	19	M6	40	6	15.5	165	130	200	12	3.5	160	145	250	390
90S	24	M8	50	8	20	165	130	200	12	3.5	180	155	255	415
90L	24	M8	50	8	20	165	130	200	12	3.5	180	155	255	465
100L	28	M10	60	8	24	215	180	250	15	4	220	175	280	508
112M	28	M10	60	8	24	215	180	250	15	4	225	195	320	530
132S	38	M12	80	10	33	265	230	300	15	4	275	220	370	570
132M	38	M12	80	10	33	265	230	300	15	4	275	220	370	610
160M	42	M16	110	12	37	300	250	350	19	5	330	260	435	700
160L	42	M16	110	12	37	300	250	350	19	5	330	260	435	750
180M	48	M16	110	14	42.5	300	250	350	19	5	360	280	445	835
180L	48	M16	110	14	42.5	300	250	350	19	5	360	280	445	885
200L	55	M20	110	16	49	350	300	400	19	5	415	325	525	780
225S	60	M20	140	18	53	400	350	450	19	5	475	355	580	970
225M*	55	M20	110	16	49	400	350	450	19	5	475	355	580	940
225M	60	M20	140	18	53	400	350	450	19	5	475	355	580	970
250M*	60	M20	140	18	53	500	450	550	19	5	530	410	685	980
250M	65	M20	140	18	58	500	450	550	19	5	530	410	685	980
280S*	65	M20	140	18	58	500	450	550	19	5	580	425	700	1080
280S	75	M20	140	20	67.5	500	450	550	19	5	580	425	700	1080
280M*	65	M20	140	18	58	500	450	550	19	5	580	425	700	1140
280M	75	M20	140	20	67.5	500	450	550	19	5	580	425	700	1140
315S*	65	M20	140	18	58	600	550	660	24	6	660	540	970	1310
315S	80	M20	170	22	71	600	550	660	24	6	660	540	970	1340
315M*	65	M20	140	18	58	600	550	660	24	6	660	540	970	1310
315M	80	M20	170	22	71	600	550	660	24	6	660	540	970	1440
315L1*	65	M20	140	18	58	600	550	660	24	6	660	540	970	1410
315L1	80	M20	170	22	71	600	550	660	24	6	660	540	970	1440
315L2*	65	M20	140	18	58	600	550	660	24	6	660	540	970	1410
315L2	80	M20	170	22	71	600	550	660	24	6	660	540	970	1490
355M1*	75	M20	140	20	67.5	740	680	800	24	6	720	620	1135	1520
355M1	95	M20	170	25	86	740	680	800	24	6	720	620	1135	1550
355M*	75	M20	140	20	67.5	740	680	800	24	6	720	620	1135	1520
355M	95	M20	170	25	86	740	680	800	24	6	720	620	1135	1650
355L*	75	M20	140	20	67.5	740	680	800	24	6	720	620	1135	1620
355L	95	M20	170	25	86	740	680	800	24	6	720	620	1135	1650

\* FOR 2 POLE MOTOR ONLY

Dimension Drawings  
Foot & Flange Mount B35

DIMENSION DRAWING B35



FRAME	A	B	C	D	DB	E	F	G	H	K	AA	AB	M	N	P	S	T	AC	AD	BB	HA	HD	L
80M	125	100	50	19	M6	40	6	15.5	80	10	33	158	165	130	200	12	3.5	165	145	200	10	230	390
90S	140	100	56	24	M8	50	8	20	90	10	34	174	165	130	200	12	3.5	180	155	205	12	245	415
90L	140	125	56	24	M8	50	8	20	90	10	34	174	165	130	200	12	3.5	180	155	255	12	245	465
100L	160	140	63	28	M10	60	8	24	100	12	40	200	215	180	250	15	4	205	175	245	14	275	508
112M	190	140	70	28	M10	60	8	24	112	12	47	230	215	180	250	15	4	230	195	275	14	305	530
132S	216	140	89	38	M12	80	10	33	132	12	55	265	265	230	300	15	4	270	220	270	18	350	570
132M	216	178	89	38	M12	80	10	33	132	12	55	265	265	230	300	15	4	270	220	310	18	350	610
160M	254	210	108	42	M16	110	12	37	160	15	65	320	300	250	350	19	5	325	260	310	20	420	700
160L	254	254	108	42	M16	110	12	37	160	15	65	320	300	250	350	19	5	325	260	360	20	420	750
180M	279	241	121	48	M16	110	14	42.5	180	15	70	349	300	250	350	19	5	360	280	350	22	449	835
180L	279	279	121	48	M16	110	14	42.5	180	15	70	349	300	250	350	19	5	360	280	400	22	449	885
200L	318	305	133	55	M20	110	16	49	200	19	75	400	350	300	400	19	5	400	325	475	26	525	780
225S	356	286	149	60	M20	140	18	53	225	19	80	437	400	350	450	19	5	450	355	490	28	580	970
225M*	356	311	149	55	M20	110	16	49	225	19	80	437	400	350	450	19	5	450	355	490	28	580	940
225M	356	311	149	60	M20	140	18	53	225	19	80	437	400	350	450	19	5	450	355	490	28	580	970
250M*	406	349	168	60	M20	140	18	53	250	24	80	490	500	450	550	19	5	500	410	445	30	650	980
250M	406	349	168	65	M20	140	18	58	250	24	80	490	500	450	550	19	5	500	410	445	30	650	980
280S*	457	368	190	65	M20	140	18	58	280	24	90	550	500	450	550	19	5	560	425	550	35	705	1080
280S	457	368	190	75	M20	140	20	67.5	280	24	90	550	500	450	550	19	5	560	425	550	35	705	1080
280M*	457	419	190	65	M20	140	18	58	280	24	90	550	500	450	550	19	5	560	425	610	35	705	1140
280M	457	419	190	75	M20	140	20	67.5	280	24	90	550	500	450	550	19	5	560	425	610	35	705	1140
315S*	508	406	216	65	M20	140	18	58	315	28	120	630	600	550	660	24	6	630	540	630	50	855	1310
315S	508	406	216	80	M20	170	22	71	315	28	120	630	600	550	660	24	6	630	540	630	50	855	1340
315M*	508	457	216	65	M20	140	18	58	315	28	120	630	600	550	660	24	6	630	540	730	50	855	1310
315M	508	457	216	80	M20	170	22	71	315	28	120	630	600	550	660	24	6	630	540	730	50	855	1440
315L1*	508	508	216	65	M20	140	18	58	315	28	120	630	600	550	660	24	6	630	540	730	50	855	1410
315L1	508	508	216	80	M20	170	22	71	315	28	120	630	600	550	660	24	6	630	540	730	50	855	1440
315L2*	508	508	216	65	M20	140	18	58	315	28	120	630	600	550	660	24	6	630	540	730	50	855	1410
315L2	508	508	216	80	M20	170	22	71	315	28	120	630	600	550	660	24	6	630	540	730	50	855	1490
355M1*	610	500	254	75	M20	140	20	67.5	355	28	130	730	740	680	800	24	6	750	620	750	50	1000	1520
355M1	610	500	254	95	M20	170	25	86	355	28	130	760	740	680	800	24	6	750	620	750	50	1000	1550
355M*	610	560	254	75	M20	140	20	67.5	355	28	130	730	740	680	800	24	6	750	620	750	50	1000	1520
355M	610	560	254	95	M20	170	25	86	355	28	130	730	740	680	800	24	6	750	620	750	50	1000	1650
355L*	610	630	254	75	M20	140	20	67.5	355	28	130	730	740	680	800	24	6	750	620	800	50	1000	1620
355L	610	630	254	95	M20	170	25	86	355	28	130	730	740	680	800	24	6	750	620	800	50	1000	1650

\* FOR 2 POLE MOTOR ONLY

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