

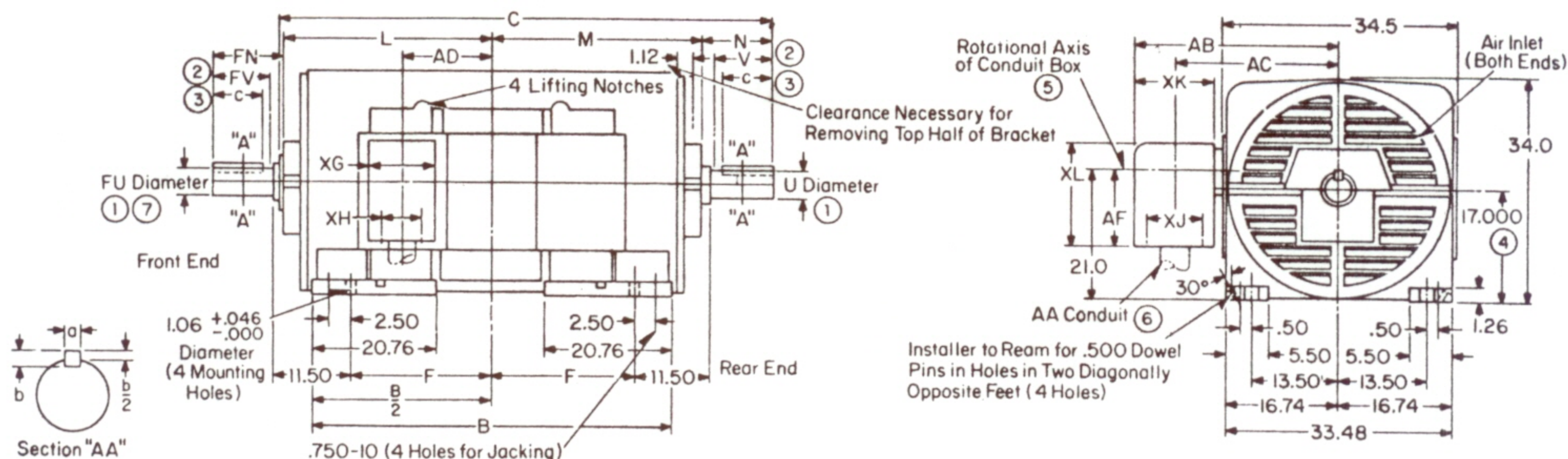


July, 1977
Supersedes Dimension Sheet 3141
page 63 dated May, 1972
Mailed to: E, C/1738/DS

Short Shafts for Coupled Service
Anti-friction and Split Sleeve Bearings
Frames 6808-6810
1800 Rpm and Slower

Drip-Proof & Weather Protected Type I

Life-Line D Motors, Squirrel Cage, 1800 Rpm and Slower



Dimensions, Inches Not to be used for construction purposes unless dimensions are approved.
Applying to each frame number

Frame No.	B	C	F	L	M	AD⑤	Rear Shaft Extension						Front Shaft Extension⑦						Recommended Coupling Bore		Approx. Wt., Pounds
							U①	Key Size			N	V②	FU①	Key Size			FN	FV②			
								a	b	c③				a	b	c③				⑦	
6808-S	48.50	67.34	18.00	29.00	29.00	10.38	4.375	1.00	1.00	7.00	9.26	8.50	4.375	1.00	1.00	7.00	9.26	8.50	4.3715	4.3725	5830
6808-L	48.50	68.34	18.00	29.00	29.00	10.38	4.875	1.25	1.25	8.00	10.26	9.50	4.875	1.25	1.25	8.00	10.26	9.50	4.8715	4.8725	6160
6809-S	52.50	71.34	20.00	31.00	31.00	12.38	4.375	1.00	1.00	7.00	9.26	8.50	4.375	1.00	1.00	7.00	9.26	8.50	4.3715	4.3725	6770
6809-L	52.50	72.34	20.00	31.00	31.00	12.38	4.875	1.25	1.25	8.00	10.26	9.50	4.875	1.25	1.25	8.00	10.26	9.50	4.8715	4.8725	6900
6810-S	57.50	76.34	22.50	33.50	33.50	14.88	4.375	1.00	1.00	7.00	9.26	8.50	4.375	1.00	1.00	7.00	9.26	8.50	4.3715	4.3725	7320
6810-L	57.50	77.34	22.50	33.50	33.50	14.88	4.875	1.25	1.25	8.00	10.26	9.50	4.875	1.25	1.25	8.00	10.26	9.50	4.8715	4.8725	7600
⑥ 6810-G	57.50	78.58	22.50	33.50	33.50	14.88	5.500	1.25	1.25	9.25	11.50	10.75	5.500	1.25	1.25	9.25	11.50	10.75	5.4965	5.4975	7700

Fabricated Steel Conduit Box

Standard Conduit Box, XG=8.0								Special Conduit Box, XG=13.0								Special Conduit Box, XG=26.0							
AA	AB	AC	AF	XH	XJ	XL	XK	AA	AB	AC	AF	XH	XJ	XL	XK	AA	AB	AC	AF	XH	XJ	XL	XK
⑥	32.4	25.8	14.0	5.0	10.0	18.0	13.0	⑥	32.4	25.8	14.0	10.0	10.0	18.0	13.0	⑥	32.4	25.8	14.0	23.0	10.0	18.0	13.0

Cast Iron Conduit Box

Special Conduit Box, XG=11.0								Special Conduit Box, XG=14.0							
AA	AB	AC	AF	XH	XJ	XL	XK	AA	AB	AC	AF	XH	XJ	XL	XK
⑥	29.2	23.9	10.0	9.0	7.5	15.3	9.8	⑥	32.3	25.8	13.0	10.0	10.0	18.8	12.9

- ① Manufacturers allowance $+.000'' - .001''$.
- ② Dimensions V & FV represent usable length of shaft.
- ③ Motors are factory balanced with a half key of length c per NEMA 1-12.06.
- ④ Shaft height dimension may be $+.000'' - .060''$. When exact dimension is required, shims up to .060 inch may be necessary.
- ⑤ Conduit boxes may be rotated in steps of 90° around center determined by dimension AD, and 21.0 inches above the foot.
- ⑥ Customer should specify either fabricated steel or cast iron conduit box, identifying box by "XG"

dimension. If he specifies size of conduit, we will drill clearance hole in fabricated steel box or pipe tap hole in cast iron box for size conduit he specifies. Dimensions XH & XJ represent usable drilling area for customer's conduit. Dimensions AC & AD represent center of this area. If conduit opening (AA) is not specified on the order, motor will be shipped with conduit box undrilled.

⑦ Front shaft extension furnished only when specially ordered.

⑧ This frame suffix is used on 1200 rpm and slower only.

Note: All sleeve bearing motors on 6800 frame series have 1/2 inch minimum end play.

Use of limited end float couplings are required on all sleeve bearing motors as recommended by NEMA MG 1-14.38.

Caution Note: Air inlet openings are in the ends of motor and air exhaust openings are the sides of motor. When installing motor, avoid locating motor so that adjacent structures are closer than 9 inches to the motor ends and sides. Also make certain that no adjacent structure causes exhaust air to be directed from exhaust openings into inlet openings.

Caution Note: All motors are dynamically balanced to meet or better the limits of NEMA Standards MG1-12.05. Vibration in service, however, is determined not only by balance of motor and driven unit but may be greatly affected by the base on which they are mounted. To minimize vibration, a rigid base must be provided for motor and driven unit.

Reproduced from Drawing 2743-D-68, sub 8

Approval

Customer			Customer Order		
G.O.	Item	Application			
Hp	Rpm	PH	HZ	Volts	
Frame	Enclosure	Style			
Certified By	Date				