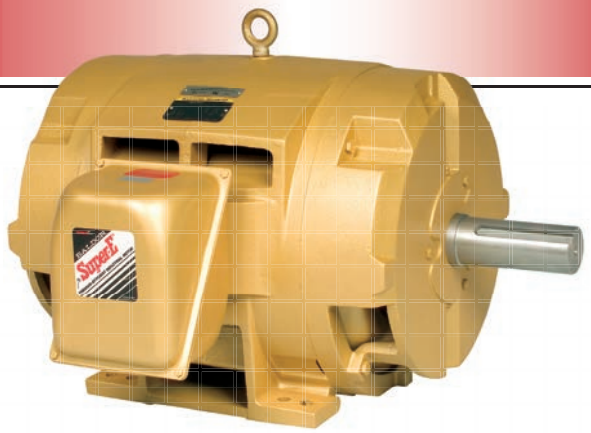
Ammonia Compressor Motors
Three Phase, 2 Pole
Open Drip Proof



Applications:
Ammonia compressor and refrigeration

Common Features:

- Open Drip Proof
- 3600 RPM (2-Pole)
- 1.15 Service Factor at 40°C Ambient
- NEMA Class “F” Insulation with NEMA Class “B” temperature rise
- High Efficiency Designs
- NEMA Locked Rotor kVA Code “G”
- Rated for Across the Line Start
- Motors designed to meet or exceed NEMA Standard Vibration Levels

Low Voltage Features:

- 150 thru 600HP
- 460V, 60HZ
- 404 thru 505 Frame
- NEMA Premium Efficient up to 500HP
  Meets NEMA Table 12-12
- NEMA TS Shaft [1]
- Wye-Delta Connection
- NEMA “B” Torque Values
- Inverter Ready

Medium Voltage Features:

- 400 thru 1000HP
- 2300/4160V, 60HZ
- 5008 thru 5810 Frame
- High Efficiency Designs
- (S) Type Shaft for Coupled Duty Loads
- Torque Values Exceeding Industry Standards [2]
  - Starting Torque of 100% or greater
  - Pull Up Torque of 80% or greater
  - Break Down Torque of 250% or greater
- Provisions for Vibration Detection

[1] For ratings in frame sizes 5008 and larger motors will have standard (S) shafts for coupled loads. Please reference drawings for shaft dimensions.

[2] Torque values are expressed as a % of Full Load Torque

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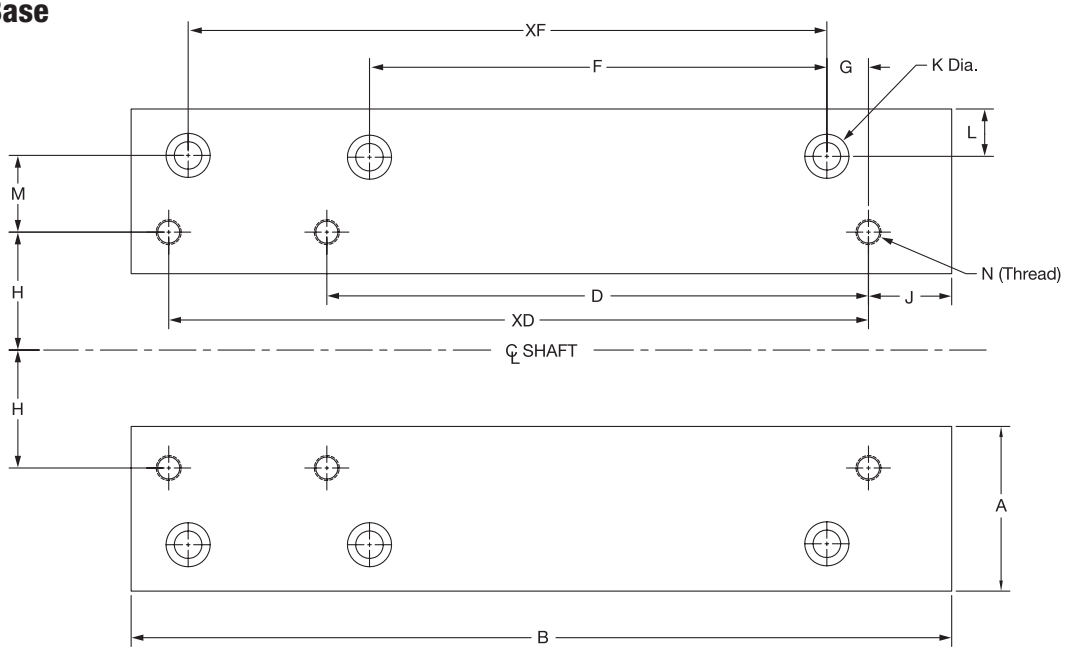
Ammonia Compressor Motor, Three Phase, 2 Pole, Open Drip Proof

150 thru 1000 HP, NEMA 404 thru 5810 Frame

Three Phase, ODP, Foot Mounted

HP	RPM	Frame	Catalog Number	List	Mult. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps
Low Voltage										
150	3600	404/5TS	EM251152T-4	$13,117	L1	31	1140	95.4	460	167
200	3600	444/5TS	EM251202T-4	$14,864	L1	35.81	1737	95.4	460	221
250	3600	444/5TS	EM251252T-4	$17,437	L1	35.81	1539	95.4	460	274
300	3600	447TSS/TS	EM251302T-4	$27,254	L1	39.31	1899	95.4	460	334
350	3600	447TSS/TS	EM251352T-4	$31,190	L1	39.31	1899	95.4	460	381
400	3600	449TS	EM251402T-4	$36,592	L1	44.31	2083	96.2	460	431
450	3600	449TS	EM251452T-4	$40,294	L1	44.31	2083	96.2	460	494
500	3600	449TS	EM251502T-4	$44,548	L1	39.37	2595	96.2	460	544
600	3600	5010	M250602S-4	$47,729	LG	56.50	4200	95.6	460	673
Medium Voltage										
400	3600	449TS	M244402TS-2341	$32,791	LG	44.38	4000	95.0	2300/4160	87/48.9
500	3600	5008	M250502S-2341	$45,766	LG	49.50	3200	94.8	2300/4160	111/61.9
600	3600	5010	M250602S-2341	$47,564	LG	56.50	4200	95.2	2300/4160	131/72.7
700	3600	5010	M250702S-2341	$49,901	LG	56.50	4200	95.2	2300/4160	153/85.3
800	3600	5810	M258802S-2341	$64,295	LG	65.81	7000	95.0	2300/4160	177/98.9
900	3600	5810	M258902S-2341	$71,196	LG	65.81	7000	95.2	2300/4160	199/111
1000	3600	5810	M2581002S-2341	$77,398	LG	65.81	7000	95.2	2300/4160	254/141

Conversion Base



Conversion Base Dimension Diagram

Catalog Number	Converts From	Converts To	List	Mult. Sym.	Height Inches	A	B	D	XD	F	XF	G	H	J	K	L	M	N (Thread)
CB5049T	505	449	$1,054	A8	1.50	4.50	28.00	25.00	-	18.00	-	1.00	9.00	1.50	0.937	1.50	1.00	3/4-10
CB5850S	5808/10	5008/10	$3,340	A8	1.875*	6.50	44.88	25.00	32.00	28.00	36.00	2.50	10.00	2.88	0.906	2.75	1.50	3/4-10
CB5850M	5810/11	5008/10	$3,389	A8	1.875*	6.50	50.00	25.00	32.00	36.00	40.00	3.50	11.50	2.88	0.91	2.75	1.50	3/4-10

* Based designed to allow for alignment shims up to 0.125 inches.

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