

Motors

POWER TRANSMISSION

TYPES OF MOTORS

- Single Phase General Purpose
- Three Phase General Purpose
- DC Motors
- HVAC Motors
- Gearmotors
- Brake Motors
- Washdown
- Agricultural

- Pump
- Crusher Duty
- Chemical Processing
- Inverter Duty
- IEC Metric Frame
- Servo
- Nema Premium

TYPICAL APPLICATIONS

- Fans and Blowers
- Air Compressors
- Conveyor
- Auger
- Pump

- Machine Tools
- Band Mill
- Chipper
- Debarker
- Crusher

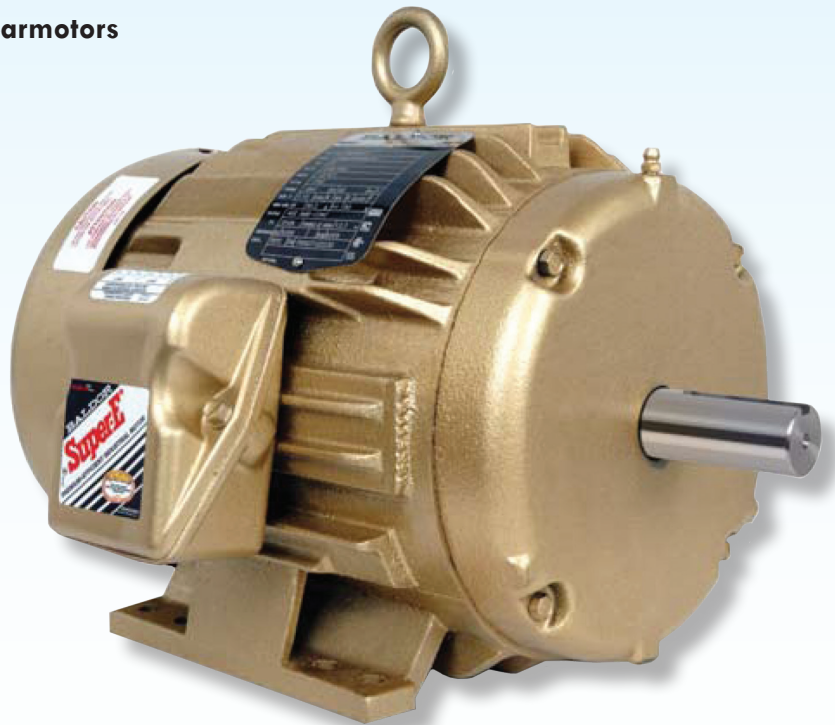
SUPPLIERS

General Purpose Motors and Gearmotors

- Baldor-Reliance Electric
- Leeson-Lincoln Electric
- North American Electric
- World Wide Electric
- SEW Eurodrive

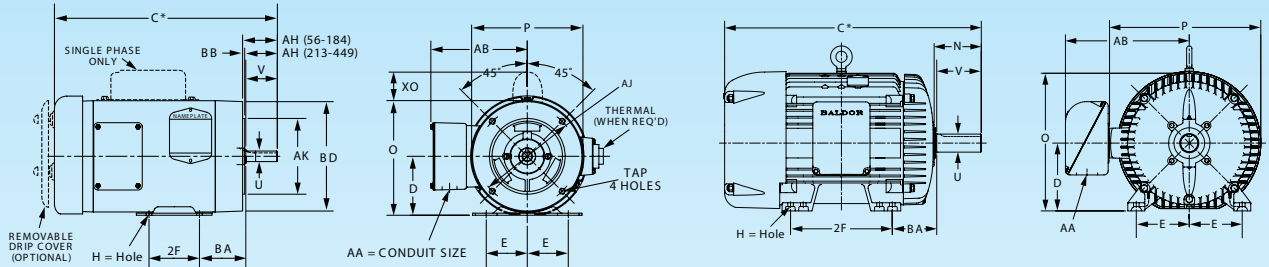
HVAC MOTOR VENDORS

- AO Smith Electrical Products
- FASCO



Motors

POWER TRANSMISSION



Dimensions - N, O, P, AB and XO are specific to Baldor.

NEMA QUICK REFERENCE CHART

NEMA FRAME	D	E	2F	H	N	O	P	U	V	AA	AB	AH	AJ	AK	BA	BB	BD	XO	TAP
42	2-5/8	1-3/4	1-11/16	9/32 SLOT	1-1/2	5	4-11/16	3/8	1-1/8	3/8	4-1/32	1-5/16	3-3/4	3	2-1/16	1/8	4-5/8	1-9/16	1/4-20
48	3	2-1/8	2-3/4	11/32 SLOT	1-7/8	5-7/8	5-11/16	1/2	1-1/2	1/2	4-3/8	1-11/16	3-3/4	3	2-1/2	1/8	5-5/8	2-1/4	1/4-20
56 56H	3-1/2	2-7/16	3	11/32 SLOT	2-7/16	6-7/8	6-5/8	5/8	1-7/8	1/2	5	2-1/16	5-7/8	4-1/2	2-3/4	1/8	6-1/2	2-1/4	3/8-16
143T 145T	3-1/2	2-3/4	4 5	11/32	2-1/2	6-7/8	6-5/8	7/8	2-1/4	3/4	5-1/4	2-1/8	5-7/8	4-1/2	2-1/4	1/8	6-1/2	2-1/4	3/8-16
182 184	4-1/2	3-3/4	4-1/2	13/32	2-11/16	8-11/16	7 7-7/8	7/8	2-1/4	3/4	5-7/8	2-1/8	5-7/8	4-1/2	2-3/4	1/8	6-1/2	2-3/8	3/8-16
182T 184T			5-1/2		3-9/16			1-1/8	2-3/4			2-5/8	7-1/4	8-1/2	1/4	9	6-1/2	1-1/2	3/8-16
213 215	5-1/4	4-1/4	5-1/2	13/32	3-1/2	10-1/4	9-9/16	1-1/8	3	3/4	2 2-3/8	-3/4	7-1/4	8-1/2	3-1/2	1/4	9	2-3/4	1/2-13
213T 215T			5-1/2		3-7/8			1-3/8	3-3/8			3-1/8							
254U 256U	6-1/4	5	8-1/4	17/32	4-1/16	12-7/8	12-15/16	1-3/8	3-3/4	1	9-5/8	3-1/2	7-1/4	8-1/2	4-1/4	1/4	10	—	1/2-13
254T 256T			10 10		4-5/16 4-5/16			1-5/8 1-5/8	4 4		3 3	-3/4 -3/4							
284U 286U			9-1/2	17/32	5-1/8			1-5/8	4-7/8			4-5/8							
284T 286T	7	5-1/2	9-1/2	17/32	4-7/8	14-5/8	14-5/8	1-7/8	4-5/8	1-1/2	13-1/8	4-3/8	9	10-1/2	4-3/4	1/4	11-1/4	—	1/2-13
284TS 286TS			11		4-7/8			1-7/8	4-5/8			4-3/8							
324U 326U			10-1/2	21/32	5-7/8			1-7/8	5-5/8			5-3/8							
324T 326T	8	6-1/4	10-1/2	21/32	5-1/2	16-1/2	16-1/2	2-1/8	5-1/4	2	14-1/8	5	11	12-1/2	5-1/4	1/4	13-3/8	—	5/8-11
324TS 326TS			12		5-1/2			2-1/8	5-1/4			5							
364U 365U			11-1/4	21/32	6-3/4			2-1/8	6-3/8			6-1/8							
364T 365T	9	7	11-1/4	21/32	6-1/4	18-1/2	18-1/4	2-3/8	5-7/8	2-1/2	15-1/16	5-5/8	11	12-1/2	5-7/8	1/4	13-3/8	—	5/8-11
364TS 365TS			12-1/4		6-1/4			2-3/8	5-7/8			5-5/8							
404U 405U			12-1/4	13/16	7-3/16			2-3/8	7-1/8			6-7/8							
404T 405T	10	8	12-1/4	13/16	7-5/16	20-5/16	20-1/8	2-7/8	7-1/4	3	18	7	11	12-1/2	6-5/8	1/4	13-7/8	—	5/8-11
404TS 405TS			13-3/4		7-5/16			2-7/8	7-1/4			7							
444U 445U			14-1/2		8-5/8	22-7/8	22-3/8	2-7/8	8-5/8			19-9/16	8-3/8						
444T 445T	11	9	14-1/2		8-1/2	22-7/8	22-3/8	3-3/8	8-1/2			19-9/16	8-1/4						
447T 449T			16-1/2	13/16	8-1/2	22-7/8	22-3/8	3-3/8	8-1/2	3	21-11/16	8-1/4	14	16	7-1/2	1/4	16-3/4	—	5/8-11
447TS 449TS			20		8-15/16	22-15/16	23-3/4	3-3/8	8-1/2			21-11/16	8-1/4						
449T 449TS			25		5-3/16	22-7/8	22-3/8	2-3/8	4-3/4			19-9/16	4-1/2						
449TS			16-1/2		5-3/16	22-7/8	22-3/8	2-3/8	4-3/4			19-9/16	4-1/2						
447TS			20		4-15/16	22-15/16	23-3/4	2-3/8	4-3/4	4NPT		21-11/16	4-1/2						
449TS			25		4-15/16	22-15/16	23-3/4	2-3/8	4-3/4	4NPT		21-11/16	4-1/2						

5000 FRAME	D	E	2F	H	O	P	U	V	AA	AB	BA
5007S	12-1/2	10	22	15/16	26-27/32	30	2-1/2	6-1/2	4-NPT	26-7/8	8-1/2
5007L	12-1/2	10	22	15/16	26-27/32	30	3-7/8	11-1/8	4-NPT	26-7/8	8-1/2
5009S	12-1/2	10	28	15/16	26-27/32	30	2-1/2	6-1/2	4-NPT	26-7/8	8-1/2
5009L	12-1/2	10	28	15/16	26-27/32	30	3-7/8	11-1/8	4-NPT	26-7/8	8-1/2
5011S	12-1/2	10	36	15/16	26-27/32	30	2-1/2	6-1/2	4-NPT	26-7/8	8-1/2
5011L	12-1/2	10	36	15/16	26-27/32	30	3-7/8	11-1/8	4-NPT	26-7/8	8-1/2

NEMA C-Face	BA Dimensions
143-5TC	2-3/4
182-4TC	3-1/2
213-5TC	4-1/4
254-6TC	4-3/4

Frame	NEMA FRAMES PRIOR TO 1953							
	D	E	F	N	U	V	BA	
66	4-1/8	2-15/16	2-1/2	2-1/4	3/4	2-1/4	3-1/8	
203	5	4	2-3/4	2-7/16	3/4	2	3-1/8	
204			3-1/4					
224	5-1/2	4-1/2	3-3/8	3-1/4	1	3	3-1/2	
225			3-3/4					
254	6-1/4	5	4-1/8	3-7/16	1-1/8	3-3/8	4-1/4	
284	7	5-1/2	4-3/4	4-1/4	1-1/4	3-3/4	4-3/4	
324	8	6-1/4	5-1/4	5-3/8	1-5/8	4-7/8	5-1/4	
326			6					
364	9	7	5-5/8	5-5/8	1-7/8	5-3/8	5-7/8	
365			6-1/8					
404	10	8	6-1/8	6-3/8	2-1/8	6-1/8	6-5/8	
405			6-7/8					
444	11	9	7-1/4	7-1/8	2-3/8	6-7/8	7-1/2	
445			8-1/4					
504	12-1/2	10	8	8-5/8	2-7/8	8-3/8	8-1/2	
505			9					

NEMA Shaft	Keyseat Dimensions			NEMA Shaft	Keyseat Dimensions		
	(U)	(R)	(S)		(U)	(R)	(S)
3/8	21/64	FLAT	1-7/8	1-19/32	1/2		
1/2	29/64	FLAT	2-1/8	1-27/32	1/2		
5/8	33/64	3/16	2-3/8	2-1/64	5/8		
7/8	49/64	3/16	2-1/2	2-3/16	5/8		
1-1/8	63/64	1/4	2-7/8	2-29/64	3/4		
1-3/8	1-13/64	5/16	3-3/8	2-7/8	7/8		
1-5/8	1-13/32	3/8	3-7/8	3-5/16	1		

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