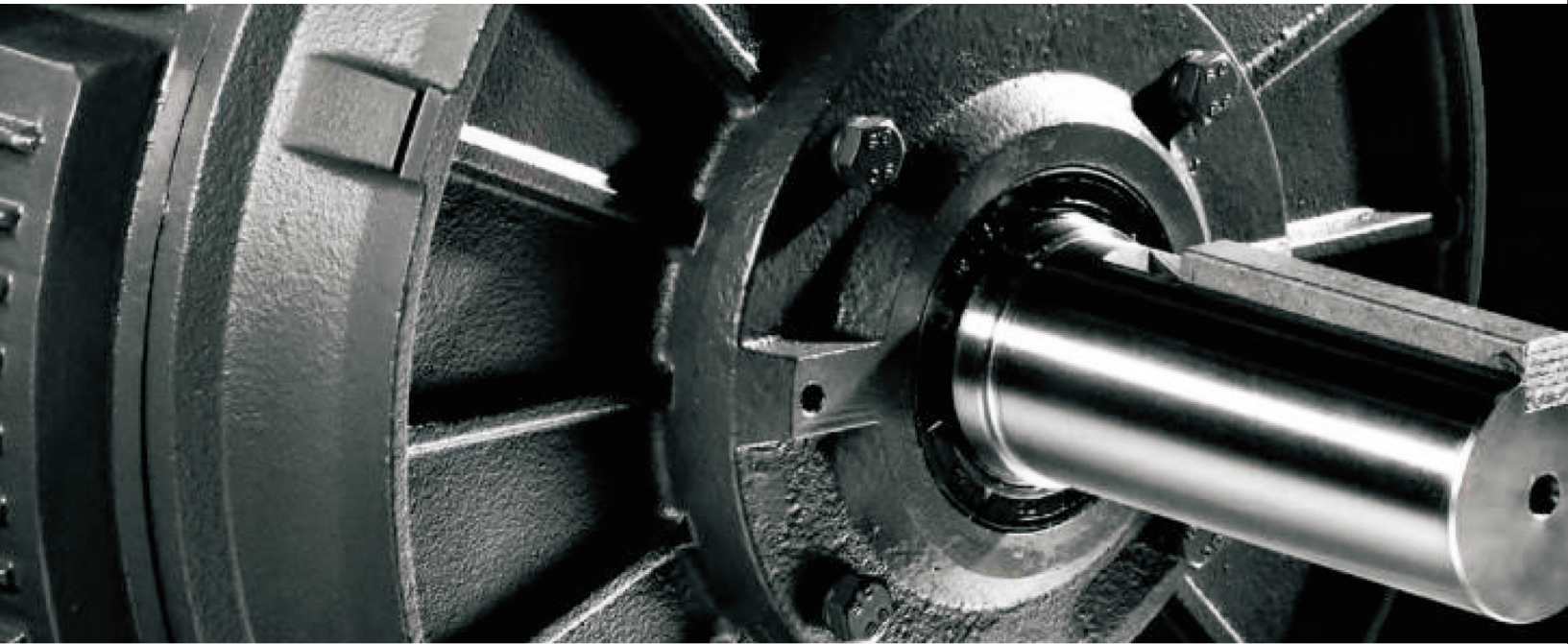




2024 Catalogue



Add: 412 West 1st Street, Odessa, Texas, 79761 USA
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NEMA MOTORS

**GENERAL PURPOSE
MOTORS**



THREE PHASE

- 1/4 - 250HP
- 2, 4 and 6 Pole
- 56C - 449T
- TEFC

See pages 2-17

PUMP MOTORS

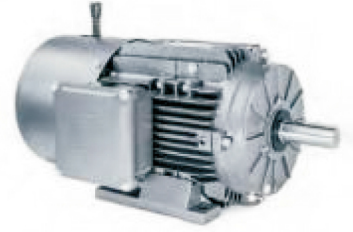


THREE PHASE

- 1/3 - 75HP
- 2, 4 and 6 Pole
- 56J - 365JM/JP
- TEFC
- 300 Series SS Shaft

See pages 18-31

BRAKE MOTORS



THREE PHASE

- 1/3 - 10HP
- 2, 4 and 6 Pole
- 56C - 215T
- TEFC
- DC Brake

See pages 32-38

**GENERAL PURPOSE
MOTORS**



SINGLE PHASE

- 1/4 - 2HP
- 2 and 4 Pole
- 56 - 56H
- TEFC

See pages 39-42

FARM DUTY MOTORS



SINGLE PHASE

- 1/3 - 10HP
- 4 Pole
- 56 - 215T
- TEFC
- Manual Reset O/L

See pages 43-46

**PERMANENT MAGNET
DC MOTORS**



PM DC

- 1/8 - 3HP
- 4 Pole
- 90 and 180VDC
- TEFC
- TENV

See pages 47-49



PREMIUM T-FRAME ALUMINUM MOTORS

1 - 15HP, PREMIUM EFFICIENT, THREE PHASE, TEFC

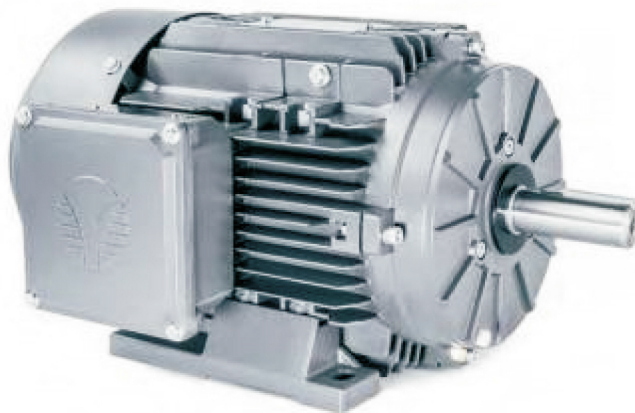


PRODUCT OVERVIEW

Three phase, enhanced performance cast aluminum, premium efficient NEMA design B motors. Features a multi-mount arrangement incorporating bolt on feet or flange mount configuration. 2, 4 and 6 pole, 1 to 15HP, ideal for when "lighter" weight is advantageous.

BASIC SPECIFICATIONS

- Power Ratings from 1 to 15HP
- Three Phase, 2, 4 and 6 pole, 50/60Hz
- 230/460V (Usable @ 208V) & 575V 60Hz, 190/380V 50Hz
- Totally Enclosed Fan Cooled (TEFC)



STANDARD FEATURES

- Removable feet F1, F2, F0 field convertible
- 1.25 Service Factor with 60Hz operation / 1.0 Service Factor with 50Hz operation
- 36 Month warranty
- Conduit Box is 90° rotatable
- Cast aluminum construction with cast aluminum c-flange kits available
- Compact lightweight design
- CSA Certified for Class I, Division II, Groups A, B, C and D / Class I, Zone 2, Groups IIC, IIB, IIA
- Anti-microbial (tropicalization) on stator winding
- Shielded bearings
- 1045 Steel shaft
- Surface finish:
 - Alkyd enamel RAL7024 - Graphite Gray
 - Black oxide surface treatment for increased corrosion resistance
- Stainless steel nameplate
- Corrosion resistant hardware

OPERATING PARAMETERS

- Continuous (S1) duty
- Ambient temperatures up to 40°C
- Installation up to 1000 MASL (3300 ft.)

CONNECTION

- 9-Lead 230V parallel-wye / 460V series-wye connection
- 3-Lead 575V wye connection

INGRESS PROTECTION

The standard degree of enclosure protection is IP55 (increased IP protection is available). Both drive end and non-drive end are fitted with double lip oil seals, including a rubber shaft slinger on the drive end. Terminal box is double gasketed. DE and NDE end bell fitted with sintered brass one-way drain.

INSULATION AND INVERTER RATING

- Class F Insulation (Impregnation resin, magnet wire and insulation materials are Class H)
- Designed to Class B temperature rise
- Vacuum Impregnated
- Inverter Rated 15:1 Constant Torque, 30:1 Variable Torque (1.0 S.F. on VFD Power).
- Exceeds NEMA MG 1 Part 31.4.4.2



PREMIUM T-FRAME ALUMINUM MOTORS

1 - 15HP, PREMIUM EFFICIENT, THREE PHASE, TEFC

DIMENSIONAL DRAWINGS

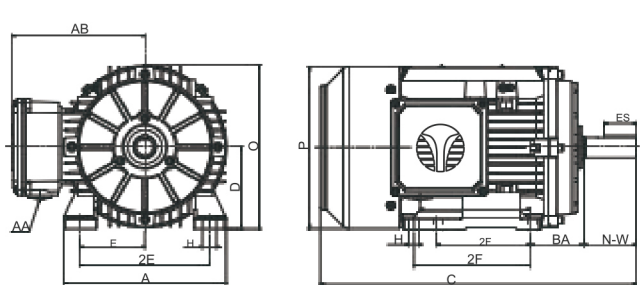


Figure 1 - Foot Mount, 140 T

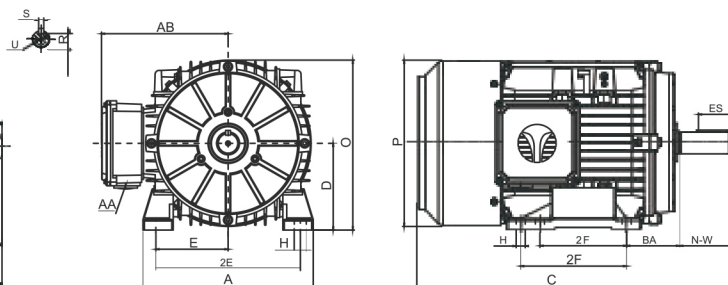
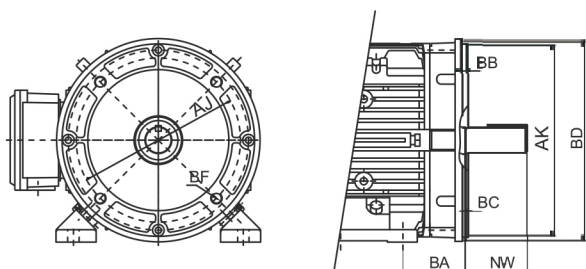


Figure 2 - Foot Mount, 180T/210T

Dimensions are in **inches**

NEMA Frame	Foot Mounting					Shaft					General					
	E	2E	2F	H	BA	N-W	U	S	R	ES	A	C	D	P	AA	AB
143T	2.75	5.5	4.0/5.0	0.34	2.25	2.25	0.875	0.1875	0.771	1.41	6.9	13.7	3.5	6.95	1-NPT 3/4"	5.65
145T				*0.5												
182T	3.75	7.5	4.5/5.5	0.59	2.75	2.75	1.125	0.25	0.986	1.78	8.85	16.1	4.5	8.65	1-NPT 3/4"	6.6
184T				*0.43												
213T	4.25	8.5	5.5/7.0	0.59	3.5	3.375	1.375	0.312	1.201	2.41	10.3	19.0	5.25	10.3	1-NPT 1"	7.4
215T				*0.43												

Figure 3 - C-Flange

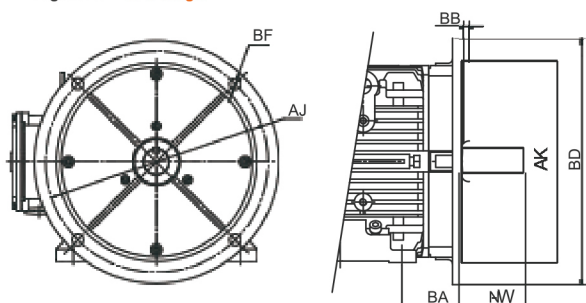


Dimensions are in **inches**

NEMA Frame	NEMA C-Flange							
	AJ	AK	BA*	BB	BC	BD	BF	N-W
143 TC	5.875	4.5	2.25	0.16	0.125	6.5	4*3/8-16UNC	2.25
145 TC								
182 TC	7.25	8.5	2.75	0.25	0.125	8.95	4*1/2-13UNC	2.75
184 TC								
213 TC	7.25	8.5	3.5	0.25	0.25	9.0	4*1/2-13UNC	3.38
215 TC								

*Non-standard NEMA BA dimension for c-flanged models

Figure 4 - D-Flange



Dimensions are in **inches**

NEMA Frame	NEMA D-Flange							
	AJ	AK	BA*	BB	BC	BD	BF	N-W
143 TD	10.0	9.0	2.25	0.25	--	11.0	4*0.53	2.25
145 TD								
182 TD	10.0	9.0	2.75	0.25	--	11.0	4*0.53	2.75
184 TD								
213 TD	10.0	9.0	3.5	0.25	--	11.0	4*0.53	3.38
215 TD								

*Non-standard NEMA BA dimension for d-flanged models