



Motors Made Easy

Motors Brochure



General Purpose Motors • Special Purpose Motors • Shaft Mount Gear Reducers • Accessories



NAE motors are your best option when you need a quality motor and you need it now to keep your operation up and running.

The expansive inventory of single and three phase, General Purpose, and Special Purpose motors are available in a variety of configurations to meet the requirements of the specifications and certifications you need.

Our customer and technical service representatives can help you find the right motor for your application and assist you with a quote or an order. In-stock motors can ship as quick as same day to 24 hours on select catalog models.

Need something a little different? NAE can provide our modification services to modify the motor to meet your requirements and get you what you need.

Let NAE be your choice for General and Special Purpose motors and help you make Motors Easy.



Motors Made Easy!

Quality Motors

We stand behind our motors! Since 1993, NAE has been sourcing and supplying high quality, high performance electric motors and gearing from around the world and distributing them on a national and international level. We offer a wide range of motors that are designed and manufactured with precision and quality to meet all the agency approvals, standards, and requirements to ensure you get the best motor available in the market.



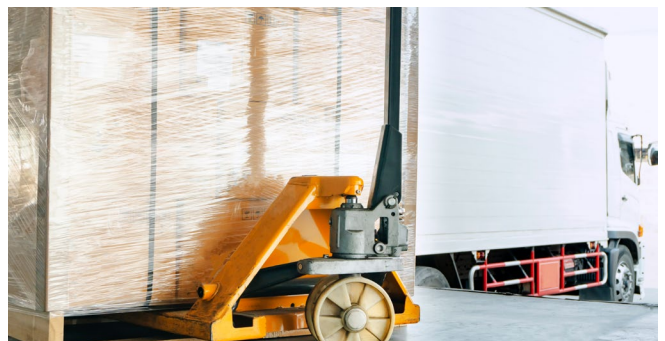
Inventory

With multiple warehouse locations across the U.S. and an expansive inventory, NAE can meet your supply demands with in-stock inventory. With our dedicated inventory management team, we work to have products in-stock that meet your customer and applications needs.



Fast Delivery

NAE can turn your order around and provide 24hr delivery on select in-stock catalog models. NAE understands that down time for your customer is a loss of business and revenue, so with our quick delivery and custom drop ships we can keep your customers up and running.



Warranty & Repair

The Standard Limited warranty policy ranges from a two (2) and three (3) year warranty with extended warranties available on select motors. Motors with frame sizes 215T and smaller are covered under our “No-Fault Warranty”. NAE prides itself in taking care of our customers and making sure that our warranties and policies are designed to take care of situations that make it easy for you to repair or replace a motor when the unexpected happens.



General Purpose Motors

NAE's line of general purpose motors covers a wide range of specifications, including ODP and TEFC. They feature a variety of enclosure construction including rolled steel, cast iron, and aluminum. Our motors are designed to handle any general purpose to harsh and demanding applications. The general purpose motors are available in single and three phase and range from 1/3 to 600 HP, giving us a comprehensive and competitive line up of motors.



Rolled Steel
C-Flange W/Feet



Rolled Steel
Farm Duty



Rolled Steel
Compressor Duty



Heavy Duty
Cast Iron

Round Body / C Flange



Rolled Steel



Single Phase	3 Phase				
HP	.33 – 2	.33 – 10	3 – 5	1 – 30	1 – 10
Poles	4, 2	4, 2	4, 2	4	4, 2
RPM	1800 – 3600	1800 – 3600	1800 – 3600	1800	1800 – 3600
Frame:	56C – 56CH	56C – 215T	56H – 184T	143TC – 286TC	143T – 215T
Volts	115/208-230	115/208-230 – 208-230/460	208 – 230	208-230/460	208-230/460
Enclosure	TEFC	TEFC	ODP	TEFC	TEFC
NEMA Design	L	L	L	B	B

Applications					
Pumps	•	•	•	•	•
Fans	•	•	•	•	•
Blowers	•	•	•	•	•
Compressors	•	•	•	•	•
Conveyors	•	•	•	•	•
Farm Equipment	•	•	•		•
Material Handling Equipment	•	•		•	•
Poultry Equipment	•	•			•
Air Compressors	•		•		
Refrigeration Equipment	•		•	•	•
Industrial Equipment	•	•	•	•	•
Aeration Equipment					
Milling Machines			•		
Crushing / Pulverizing Equipment					
Other Commercial Machinery	•				•
Other Industrial Machinery		•		•	•

Associated Control Panel

Across the Line Starter
Panel NEMA 3R



Across the Line Starter
Panel NEMA 3R



Across the Line Starter
Panel NEMA 3R



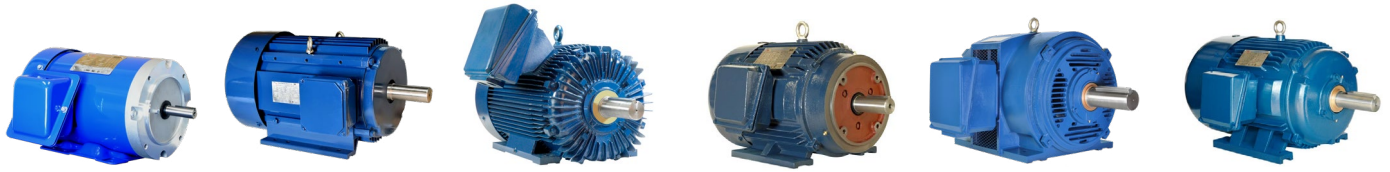
Soft Starter Panel
NEMA 4/12



Variable Frequency Drive
Panel NEMA 3R



Our Premium efficient motors are designed against all standards and are tested for quality and performance. Let NAE supply you with a complete line-up or help you fill the gaps in your inventory. Our in-stock models are designed to meet customer demand, allowing us to ship as quick as 24 hours on standard catalog models and help you stay competitive.



Rolled Steel
C-Flange w/ Feet

Aluminum

Heavy Duty Cast Iron

Heavy Duty Cast Iron
C-Flange W/Feet

Cast Iron & Rolled Steel
Open Drip Proof (ODP)

Cast Iron Crusher Duty Design C



3 Phase

.33 – 3	1 – 10	1 – 600	1 – 300	1 – 300	1 – 600
4, 2	4, 2	6, 4, 2	6, 4, 2	4, 2	8, 6, 4
1800 – 3600	1800 – 3600	1200 – 3600	1200 – 3600	1800 – 3600	900 – 1800
56C – 56CH	143T – 215T	143T – 586/7UZ	143TC – 449TC	143T – 449T	143T – 587UZ - 143TC – 587UZC
208-230/460 – 575	208-230/460	208-230/460 – 575	208-230/460	208-230/460	208-230/460
TEFC	TEFC	TEFC	TEFC	ODP	TEFC
B	B	B	B	B	C

Applications

•	•	•	•	•	
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•	•	•	•		•

Associated Control Panel



Special Purpose Motors

NAE's special purpose motors are designed to handle your customer's critical needs where slow speeds, short duty cycles, or high torque requirements are needed. These motors are typically used in washdown, hazardous, and pumping applications that demand the power, speed, and superior performance of a NAE motor. The Special Purpose motors come in a range of 1/3 to 500 HP motors designed to handle every job big, to small. Looking for that supplier that has inventory on specific motors for specific applications? Don't look any further than North American Electric.



Washdown Duty
Stainless Steel
C-Flange or Round body



Close Coupled
JM or JP Frame
Cast Iron



Explosion Proof
Cast Iron &
C-Flange w/Feet



Oil Well Pump
Cast Iron



Vertical Hollow Shaft
V1 & V2 Series
Cast Iron



3 Phase

HP	.33 – 20	1 – 75	1 – 250	2 – 150	10 – 500
RPM	1200 – 3600	1800 – 3600	1200 – 3600	900 – 1200	1800
Frame:	56C – 256TC	143JM-365JM – 143JP-365JP	143T-449T – 143TC-449TC	184T – 449T	215TP – 5008P
Volts	208 – 230/460	208-230/460	208-230/460	230/460/796	230/460
Enclosure	TEFC / TENV / IP66	TEFC	TEXP	TEFC & ODP	Type 1 – WP1
NEMA Design	B	B	B	D	B

Applications

Chemical Processing	•		•		
Dairy Applications	•				
Pharmaceutical	•				
Food Processing / Bakeries	•				
Bottling & Extremely Corrosive Environments	•				
Suitable for VFD Use	•	•	•	•	•
Industrial / Commercial Pumping units	•	•	•		
Pumps	•	•	•		
Fans			•		
Blowers			•		
Compressors			•		
Material Handling Equipment			•		
Oil Well Pumping Units				•	
Deep Well Turbine Pumps					•

Associated Control Panel

Washdown Duty Panel
NEMA 4X



Economy
NEMA 3R VFD



Variable Frequency Drive
NEMA 4X



Pump Jack VFD Panel
NEMA 3R



Irrigation Pump Panel
NEMA 3R



Motor Accessories

To accommodate a wide range of customized motor configurations, NAE offers motor accessories for special application requirements that provide optimal performance.



VHS Replacement Parts
Top Cover



VHS Replacement Parts
Alternative Base



VHS Replacement Parts
Ratchet Assembly



VHS Replacement Parts
Lubriport Sight Glass



VHS Replacement Parts
Motor Couplings

Accessories

HP	10 – 300	10 – 250	10 – 500	40 – 500	10 – 500
Frame:	215TP – 5008P	215TP – 5008P	215TP – 5006/8P	ALL	215TP – 5008P
Base Size	—	10" – 20"	—	—	—
BX Dim (in.)	—	—	—	—	.75" – 2.25"



C-Flange Kits
Cast Iron /
Aluminum / Rolled Steel



D-Flange Kits
Cast Iron



XP C-Flange Kits
Cast Iron



Severe Duty Conversion Kits



Motor Slide Base

Accessories

Phase	Single - 3	3	3	3	—
Frame	143T – 586/UZ	143T – 586/7UZ	143T – 449T	143T – 449T	56 – 505T
Enclosure	TEFC & ODP	—	TEXP	TEFC	—



Rotary Phase Converter

Rotary Phase Converter specifically designed without external shafts for use with rotary phase converters to run three phase equipment from single phase power. This is NOT a complete phase converter system.



Rotary Phase Converter
Cast Iron
ISO 9001 CERTIFIED

3 Phase

HP	3 – 60
RPM	1800
Frame:	182T – 364T
Volts	208-230/460

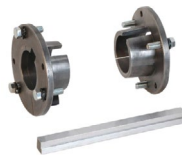
Shaft Mount Gear Reducer & Accessories

Reliability and performance you can trust! NAE's Shaft Mount Gear Reducers come in box sizes from 2 - 10 and are in-stock every day. They are designed with high quality bearings that provide you with a reliable and high-performance product to get the job done. Our Shaft Mount Gear Reducers are a Direct "Drop In" for TXT style gearboxes and we have a complete line of accessories and repair kits to go with them.



Shaft Mount Reducer

Box Size	2 – 10
Ratio	15:1 – 25:1
Output Bore (max)	1-15/16" – 5-7/16"



SMR Accessories Bushing Kit

Box Size	2 – 10
Bushing Size	1-7/16" – 5-7/16"



SMR Accessories Backstops

Box Size	2 – 10
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SMR Accessories Motor Mount

Box Size	2 – 10
Motor Size Frame	56 – 365T



SMR Accessories Torque Arms

Box Size	2 – 10
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SMR Accessories Belt Guard

Box Size	2 – 10
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SMR Accessories Screw Conveyor Adapter Flange

Box Size	2 – 7
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SMR Accessories Drive Shafts

Box Size	2 – 7
Shaft Size	1-1/2" – 3-7/16"



SMR Accessories Repair Kits

Box Size	2 – 10
Ratio	15:1 – 25:1



NAE offers high quality control panels at competitive prices with fast shipping.

NAE offers a wide range of pre-designed and custom motor control panels using NEMA 3R, NEMA 4, NEMA 12 and NEMA 4X enclosures to meet your application needs. **In-stock and ready to go!**



SAFETY SWITCHES – HEAVY DUTY
30 AMP – 1200 AMP
480 VAC / 600 VAC



PART WIND STARTERS
10 HP – 200 HP



SOFT STARTERS – CRUSHER/ULTRA
20 HP – 800 HP



VFD – STANDARD
1 HP – 800 HP Variable Torque
½ HP – 600 HP Constant Torque



VFD – IRRIGATION
1 HP – 800 HP
CHASSIS EXCHANGE PROGRAM



VFD – POSITIVE DISPLACEMENT PUMP
3 HP – 600 HP
CHASSIS EXCHANGE PROGRAM



ACROSS THE LINE STARTERS
NEMA 1 – NEMA 5



SOFT STARTERS
15 HP – 300 HP



VFD – ECONOMY
1 HP – 800 HP Variable Torque
½ HP – 600 HP Constant Torque



VFD – WASHDOWN/STAINLESS
1 HP – 200 HP Variable Torque
½ HP – 150 HP Constant Torque



VFD – SUBMERSIBLE
½ HP – 200 HP
CHASSIS EXCHANGE PROGRAM



VFD – BEAM PUMP
1 HP – 200 HP
CHASSIS EXCHANGE PROGRAM

CUSTOM PANELS



Motor Controls Panel Customization Made Easy

NAE Motor Controls offers customers the ability to custom configure and order their control panel to meet their specific needs and have it shipped quickly. All NAE packaged panels are backed by our 2 year warranty and eligible for up to 6 years of protection with the “NO Hassle” Chassis Exchange program.



Visit our website at www.naemotors.com to learn more about our “No Hassle” Chassis Exchange program.

Choose North American Electric for your control panels where we make Motor Controls Easy. Visit our website to see more motors control panels at naemotors.com.



No-Fault Motor Warranty

Motors with frame sizes 215T and smaller are covered under our “No-Fault Warranty”. The warranty period is 24 months from the date of invoice. This special limited warranty is offered one time per end-user, per application. If there is more than one failure, please follow our standard limited warranty policy and procedure and contact our warranty department for assistance. For information regarding this warranty policy you may contact our customer service department at (800) 884-0404 or visit our website at www.naemotors.com.

North American Electric’s liability under this warranty or any other warranty, expressed or implied, in law or fact, shall be limited to the replacement of the motor, and in no event shall North American Electric, LLC be liable for consequential or indirect damages, including freight.

Standard Limited Warranty		
	36 Months (from date of invoice)	24 Months (from date of invoice)
General Purpose Cast Iron Motors (TEFC & ODP)	•	
General Purpose, Aluminum Motors	•	
Rolled Steel Motors, Single Phase		•
Rolled Steel Motors, Three-Phase	•	
Crusher Duty Motors	•	
Stainless Steel Motors		•
Close Coupled Pump Motors	•	
Explosion Proof Motors		•
Oil Well Pump Motors	•	
Vertical Hollow Shaft Motors		•
Rotary Phase Converters		•
Shaft Mount Reducers		•
Motor Slide Bases	•	

For more information about warranty policies and procedures please contact our customer service department at (800) 884-0404, visit our website at www.naemotors.com or send us an email at sales@naemotors.com.

Continuing Education

North American Electric's continuing education courses were created with you in mind to provide information, tools, technical support, and training to sell, install, and support low voltage AC drives.



At NAE University, we provide you with an in-depth, hands on training designed for the beginner to the expert. The class will consist of a general overview and lab exercises of motor controls and their applications.

Our class will range from basic control programming training to in-depth product information. You'll get one on one time with our engineers who will be demonstrating how to solve complex issues in the field for your applications.



Contact Us



naemotors.com

▶ Check us out online, or call us at **800-884-0404**

North American Electric, LLC

P.O. Box 130
350 Vaiden Drive
Hernando, MS 38632

Main Office

Toll Free: (800) 884-0404
FAX: (662) 429-8546
Main: (662) 429-8049

Customer Service & Sales

Toll Free: (800) 884-0404
Main: (662) 429-8049
Fax: (662) 429-8546

Technical Support / Warranty

Toll Free: (800) 884-0404
Main: (662) 429-8049
Fax: (662) 429-8546

Reno Warehouse

North American Electric, LLC
c/o Threepoint Logistics
1802 Brierley Way
Sparks, NV 89434
Toll Free: (800) 884-0404

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