

GE
Power Conversion

Motors Product Line

Low to High Voltage
1 to 100,000 HP



Experience and quality matters.



We've manufactured motors for over 125 years.

In 1879, GE founder, Thomas Edison constructed the first electric motor ever made for a 110 to 120 Volt line at Menlo Park, NJ. This device still exists and is operative! It is located in the Edison Historical Collection in New Jersey.

GE continues to innovate product quality.

Leading the way in Six Sigma, improvement analysis, and lean manufacturing processes helps to ensure that GE can deliver the best value in its product.

Standards and Certifications

GE has the capability to design electrical rotating machines that comply with global standards and certifications, including but not limited to NEMA, IEC, API 541 and 547, CSA, ABS, ATEX, or IEC Exn Zone 2, Division 1,

Division 2, and PTB Imperial (English) or metric systems compliant components are available per customer specification. Our manufacturing facilities are ISO 9001 certified.

Applications

Fans, pumps, compressors, conveyors, grinding mills, metal rolling, mine hoists, refiners, propulsion, generators, and many others.

Industries

- Oil & Gas • Cement • Pulp and Paper
- Mining • Metals • Water and Wastewater
- Power and Energy • Marine
- Other Process Industries

Low Voltage AC Motors



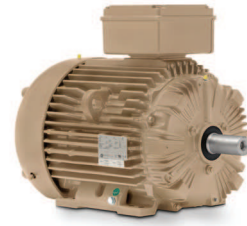
X\$D Ultra

0.75–300 HP, 900–3600 RPM
230/460, 460, 575 V, Freq. 60 Hz
Alternate 50 Hz data on nameplate
TEFC (IP55)
Frame sizes: 143T–449T
NEMA, CSA, IEEE 45, IEEE 841, IEEE 112B
Division 2 applications
NEMA Premium Efficient
Class H insulation
Five Year Warranty
C-Face and high-torque Design “C” models available.



X\$D Ultra 841

0.75–300 HP, 900–3600 RPM
460, 575 V, Freq. 60 Hz
TEFC (IP55)
Frame sizes: 143T–449T
NEMA, CSA, IEEE 45, meets or exceeds IEEE 841, GM 7E-TA, IEEE 112B
Division 2 applications
NEMA Premium Efficient
Class H insulation
Five Year Warranty



X\$D Ultra 841 IEC

0.55–220 kW, 750–3000/900–3600 RPM
200 V, 400 V, 400/690, 690 V / 50 Hz
230/460, 460, 575, 690 V / 60 Hz
TEFC (IP55)
Frame size: 90S–280H
IEC, IEEE 841, IEEE 45, ATEX, and IEC Exn
IE3 Efficiency
Zone II, ABS
1.4 mm/sec (0.055 ips) vibration
Class H insulation
Five Year Warranty



X\$D Ultra Explosion Proof

1–300 HP, 900–3600 RPM
230/460, 575 V, Freq. 60 Hz
Alternate 50 Hz data on nameplate
TEFC (IP55)
Frame sizes: 182T–286T
NEMA, CSA, IEEE 112B
NEMA Premium Efficient
Class H insulation
Five Year Warranty



X\$D Ultra 661

0.75–300 HP, 900–3600 RPM
460, 575 V, Freq. 60 Hz
TEFC (IP55)
Frame sizes: 184T–365T
NEMA, CSA, exceeds API 661 and IEEE 841, IEEE 45, GM 7E-TA, IEEE 112B
Division 2 application
NEMA Premium Efficient
Class H insulation
Five Year Warranty



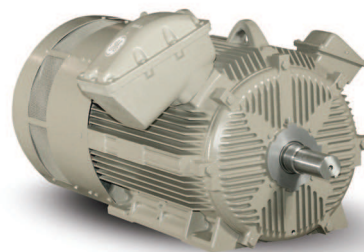
A\$D Ultra Adjustable Speed

1.5–300 HP, 1800 RPM
230/460, 460, 575 V, Freq. 60 Hz
TEFC, TEBC, TENV (IP55)
Frame sizes: 143TC–449T
NEMA, IEEE 841, IEEE 112B
Premium Efficient
Class H insulation
Five Year Warranty



Energy \$aver

1–300 HP (ODP), 1–250 HP (TEFC)
1200–3600 RPM, 200, 230/460, 460, 575 V, Freq. 60 Hz
Alternate 50 Hz data on nameplate
ODP, TEFC
Frame sizes: 143T–449T
NEMA, CSA, IEEE 112B,
NEMA Premium Efficient
Class F insulation
Three Year Warranty



Quantum LMV

Stock available in key ratings,
250–800 HP, 900–3600 RPM, 460, 575 V, Freq: 60 Hz
TEFC
Available in IEEE841 configuration
Frame sizes: 509–5013
NEMA, CSA, IEEE 112B
NEMA Premium Efficient
Class F insulation
Three or Five (IEEE841) Year Warranty

Low & Medium Voltage AC Pump Motors

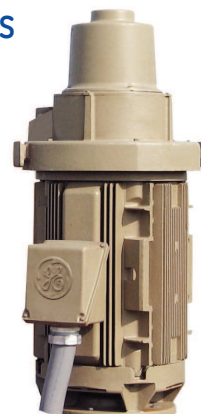
ValueLine VHS

Stock available in key ratings
5-300 HP, 1200-3600 RPM
230/460, 460V PWS
60Hz, derated at 50Hz
Hollow Shaft
WPI Enclosure
Frame Size: 284-445
High Efficiency
Three Year Warranty



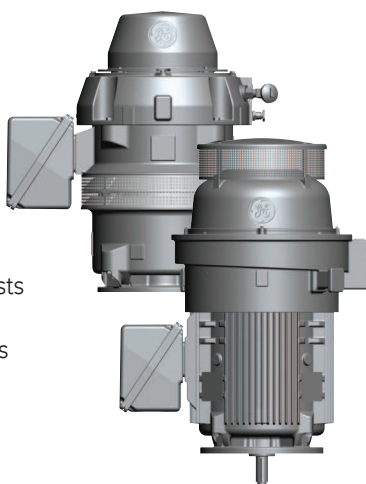
Energy \$aver VHS & VSS

Stock available in key ratings
3-700 HP (WPI), 3-600 (TEFC)
600-3600 RPM
230/460, 460V, and 575V
60Hz or 50Hz
WPI and TEFC Enclosure
Normal, High, and EH Thrusts
Solid and Hollow Shaft
Frame Size: 182-5013
NEMA Premium Efficient
Three Year Warranty



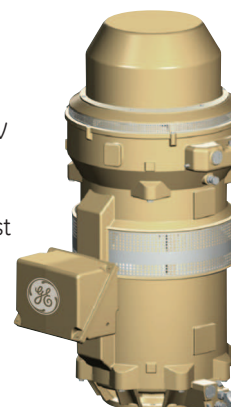
Ultra Vertical

Stock available in key ratings
3-1000HP, 1200-3600 RPM
460V, 575V, 60Hz or 50Hz
WPI and TEFC Enclosures
Hollow and Solid Shaft
Normal, High, and Inline Thrusts
Frame Size: 182-5013
P-Base and C-Face mountings
NEMA Premium Efficient
Class H Insulation
Three Year Warranty

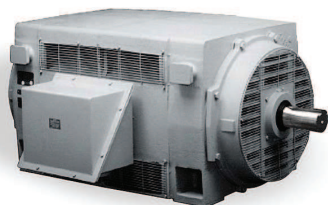


MV Custom Vertical

200-1000 HP (WPI/WPII)
200-600HP (TEFC)
600-3600 RPM, 2300/4160V
Frequency: 60Hz or 50Hz
WPI and TEFC Enclosure
Normal, High, and EH Thrust
Solid and Hollow Shaft
Frame Size: 449-5013
Premium Efficient
Three Year Warranty

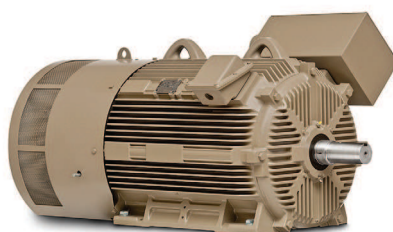


Medium Voltage AC Motors



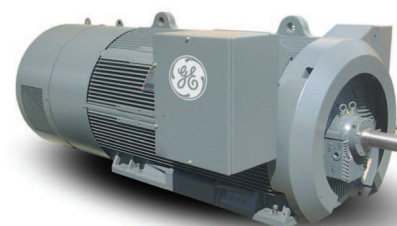
Custom 500-5000

100-800 HP
750-3000/900-3600 RPM
400-4160 V, Freq. 50 Hz or 60 Hz
ODP, WPI, WII, TEFC, XP
Frame sizes: 509-5013
Vertical or horizontal configuration
High or Premium Efficiency
Class F insulation



Quantum LMV

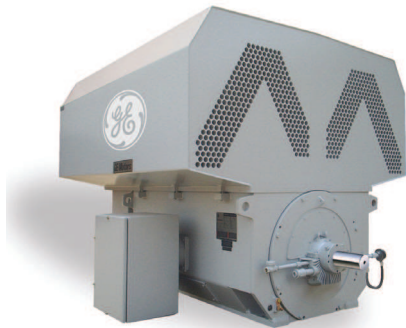
250-800 HP, 1200-3600 RPM
2300/4160 V, Freq: 60 Hz
Stock available in key ratings
TEFC
Available in IEEE841 configuration
Frame sizes: 509-5013
NEMA, CSA, meets or exceeds
IEEE 841, IEEE 112B
NEMA Premium Efficient
Class F insulation
Three or Five (IEEE841) Year Warranty



Quantum 500-7000

200-2,000 HP
750-3000/900-3600 RPM
Up to 6900 V, Freq. 50 Hz or 60 Hz
TEFC Severe Duty (IP55)
Frame sizes: 509-7011
NEMA, API 541 & 547, IEEE 841
NEMA Premium Efficiency as required
Class F insulation
Three Year Warranty

High Voltage AC Motors



High Voltage Horizontal

500–22,000 HP (16000 kW)
900–1200 RPM
Up to 13.8 kV
50 Hz or 60 Hz
Frame sizes: 8200–8900
WPI, WPPI, TEAAC, TEWAC
API 541, 547, NEMA, IEC designs
Wound rotor designs available



High Voltage Vertical

500–12,500 HP (373–9000 kW)
333–1800 RPM
Up to 13.8 kV
Frame sizes: PV 500–PV 900
50 Hz or 60 Hz
WPI, WPPI, TEAAC, TEWAC
API 541, IEC, NEMA



Large AC Synchronous

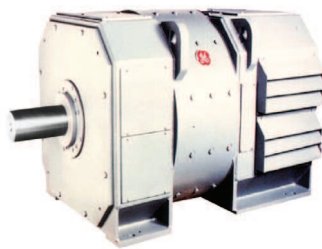
1,000–100,000 HP (75000 kW)
150–1800 RPM
Up to 15 kV
50 Hz and 60 Hz
All enclosure types
NEMA, CSA, IEEE, IEC, API 546

Low Voltage DC Motors



Kinamatic II

1–500 HP, 300–3600 RPM
Armature voltage: 180, 240, 500
Field voltage: 300/150, 240/120
DPFG, DPFG-BV, TE,
Explosion proof
TREC coils: 365AT–5010AY frame
Two Year Warranty



CD6000-CD6900

500–2000 HP, 300–1750 RPM
Armature voltage: 500, 600
Field voltage: 300/150
DPFG, DPFG-BV, TE
TREC main and commutating coils



Mill Duty Motors

5–500 HP, 340–1025 RPM
Armature voltage: 230, 460
Field voltage: 230, 460
Meets AIST standard
Split frame design
Double tapered shaft
Class H insulation TREC coils

Genuine Parts

GE's Genuine Parts will always fit perfectly, saving you time and money.

"Coils from other suppliers almost always require some forming and bending which can damage the coil insulation and increase labor time. GE armature coil kits include clips and soldering blocks. These fit perfectly and are two less items we have to chase down when we rewind an armature..."

Robert N. Miles
GE Energy Services



Superior Product Quality

- Genuine GE parts built to original designs, using the latest materials and manufacturing processes
- A full complement of spare parts are available for the entire range of GE motors

Exact Fit and Specification

- Average installation time is reduced compared to competitor parts in GE motors

World Class Service

- Our dedicated Renewal Parts Team is fully integrated with technology and manufacturing
- Identification of common spare parts is based simply on machine model or serial number

Spare Parts Program

- Customers minimize downtime with an adequate spare parts inventory plan for their GE motors

Coils

Armature
Field
Stator
Ammortisseur
Synchronous rotor poles
Equalizer

Commutators/Collectors

Replacement commutator
Slip ring assemblies

Brush Assembly

Brushes
Springs
Brushholders

Bearings

Sleeve bearings
Oil rings

Exciters

Rotor and stators

Accessories

Air filters
Molded equalizer trays
Speed limit switches
Heaters
Thermostats
Thyristors
Converter assemblies
Oil gauges
Fans
Blower assembly or wheel

Quick Custom Motors ...in 3 weeks or less!

When you need a non-standard motor right away, GE can execute pre-engineered modifications to meet your specific requirements in 3 weeks!

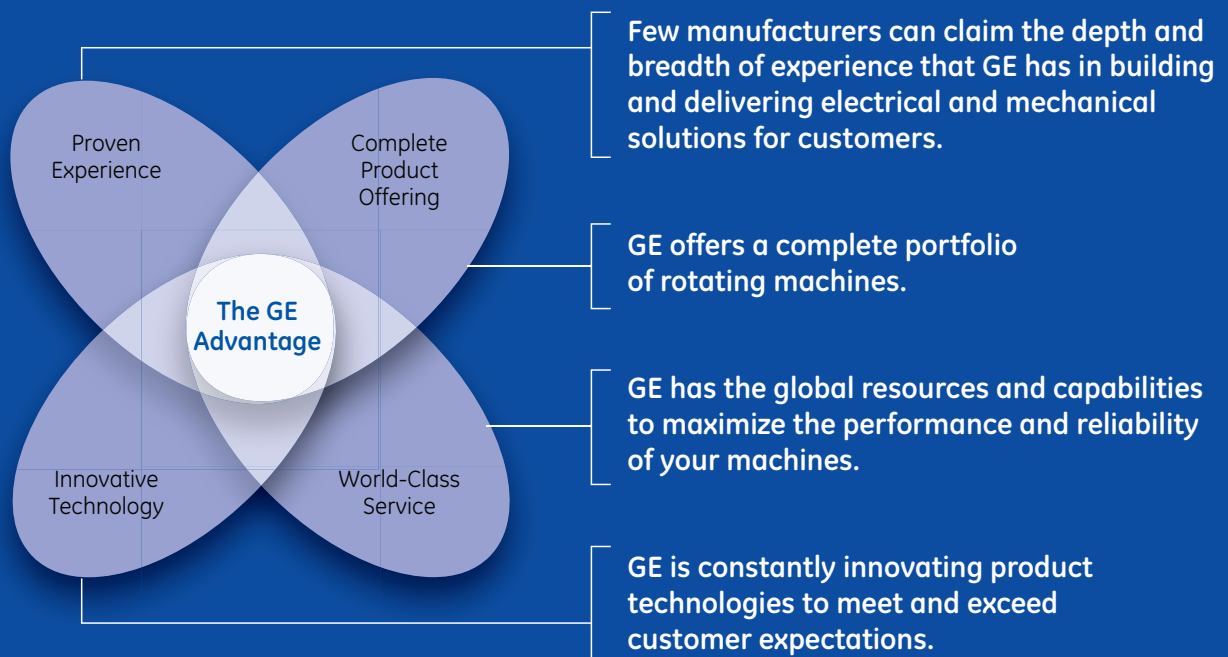
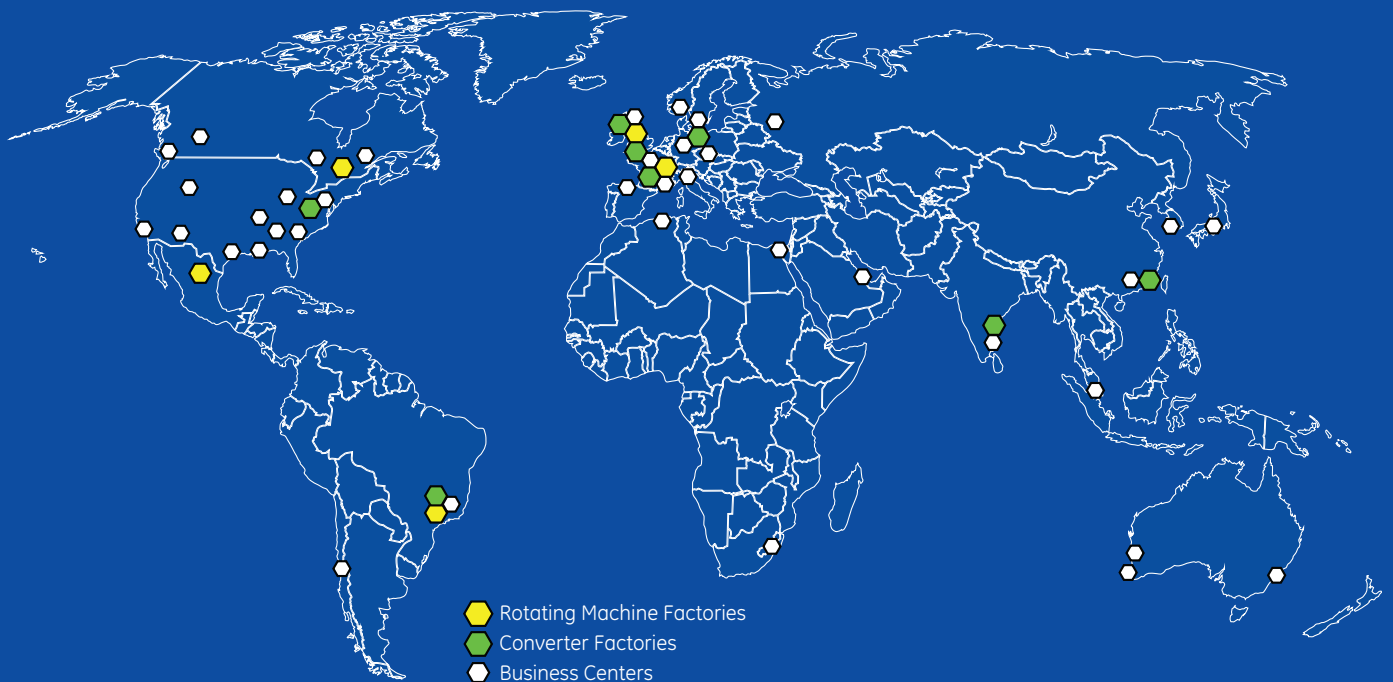
Quick custom products include X\$D Ultra and X\$D Ultra 841 horizontal and vertical motors.



Available Modifications Include:

| | |
|---|----------------------|
| Insulated Bearing | D-Flange End Shield |
| Oil Mist Lubrication | 380V 50HZ Rerate |
| Stainless Steel Fasteners | Vertical Jack Screws |
| Self-Certified Division 2 | Seals (DE or ODE) |
| Drip Cover | Space Heaters |
| F2 Mounting | Thermostats |
| C-Face End Shield | Winding RTD |
| Oversized Conduit Box | Bearing RTD |
| External Aegis shaft grounding ring | |
| Condulet mounted to side of conduit box | |

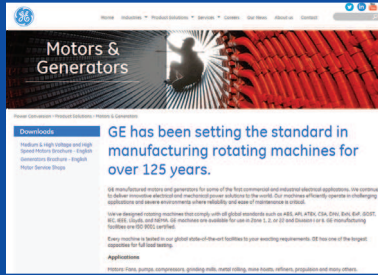
Global Expertise



Working with GE has never been easier!

GE Motor Website

The latest information
on custom and standard
rotating machines.



Search
Google
"GE Motors"

GE Motor e-Catalog

GE motors on your computer
Auto-update online.
Can be viewed offline.



Search
Google
"GE Motors"

GE Motors & Generators Store

Find a distributor.
Download data packs.
Access support library.



Search
Google
"GE Motor Store"

LV/MV TEFC Manufacturing

Monterrey, Mexico
Employs over 500 people.
ISO9000-2008 facility
YouTube Virtual Tour



YouTube
"Monterrey
AC Capabilities"



imagination at work

www.gepowerconversion.com

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