

INNOMOTICS



Innomotics Moves!

Medium Voltage Motors
Medallion Series®



Large motors built to meet the most demanding standards and applications

Quality is a requirement.

Innomotics is committed to delivering quality products in two significant ways.

- _ Engineered and built at our upgraded, state-of-the-art global motor manufacturing facility in Norwood, Ohio, USA, ISO 9001 quality certified, ISO 14001 environmentally certified, and OHSAS 18001 occupational health and safety certified.
- _ All motors up to 22,000 HP can be tested under full load. This unique capability brings the single best assurance of superior build quality.



With a trusted legacy of more than 150 years of engineering expertise, we are and have always been the backbone of reliable motion for industries and infrastructure worldwide. Now, we're about to take this to the next level with Innomotics.

To support you, our customers and partners, and your business on the road to the future – sustainable, digital, reliable.

We meet or exceed industry preferred standards.

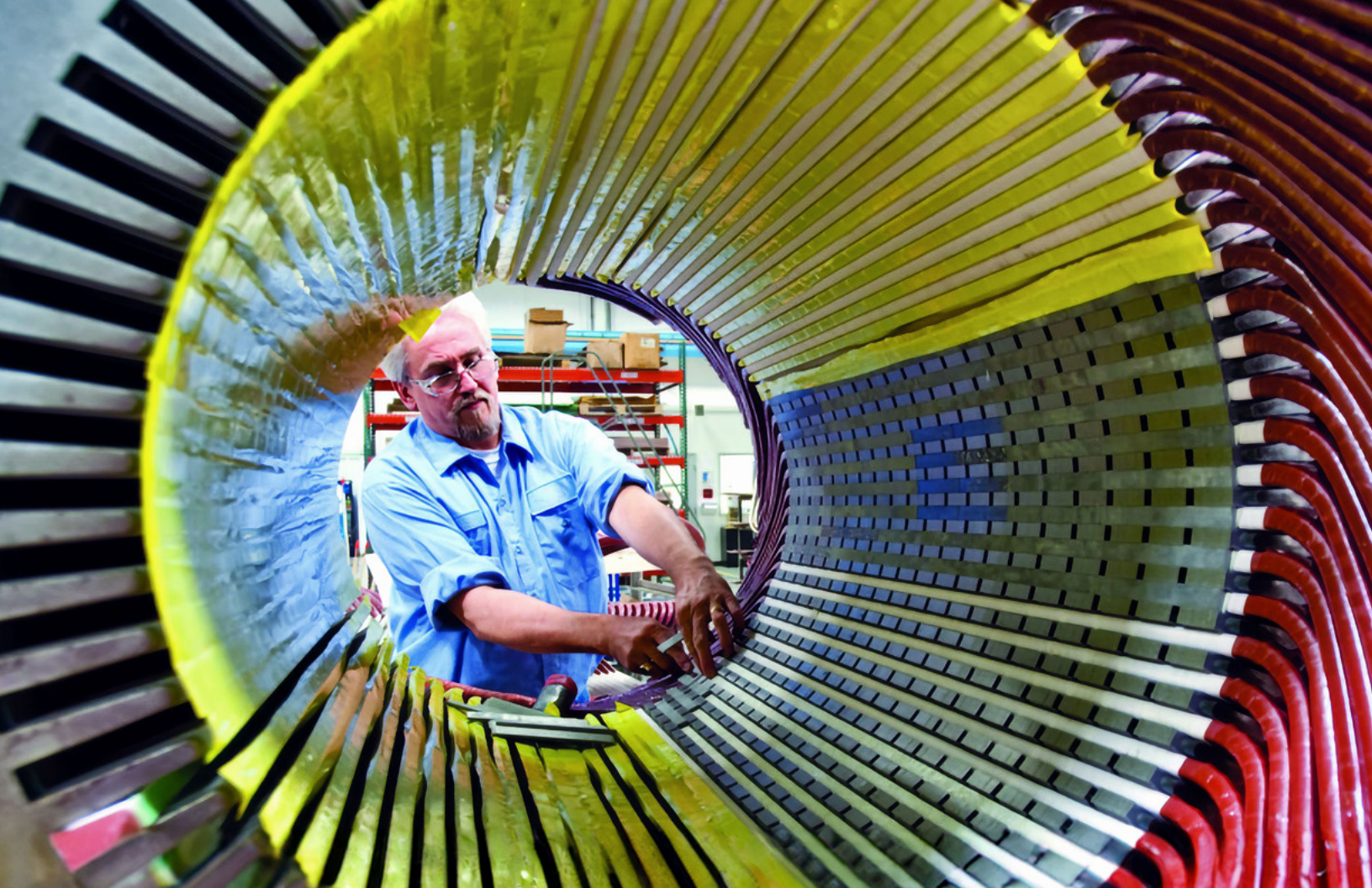
Motor operators rely on standards to assure performance, and Innomotics has always been at the forefront of compliance with important industry standards.

- IEEE 841
- ANSI
- API 541, 5th Edition
- API 547, 2nd Edition
- NEMA
- CSA
- CSA-US
- NEMA Premium® Efficiency

Well suited for a wide range of industries and applications.

Listening and learning is built into the Innomotics culture. Customers have taught us valuable insights into the unique challenges embedded in every industry. This has allowed us to design and engineer the best solutions for the right applications.

- Petroleum & Chemical Processing
- Mining & Minerals
- Cement
- Marine
- Metal Producing and Processing
- Power Generation
- Fiber/Pulp & Paper
- Industrial Refrigeration



A systems approach for high performance and extended service life maximizes value.

Stator Systems

Our engineers evaluate every component that affects the performance and service life of our motors. Ongoing refinements of design and materials create variable options that are employed to meet specific application, performance, cost, and efficiency requirements for individual industries and applications. Together, these flexible sub-assemblies unite to provide an exceptionally reliable machine that meets exacting tolerances and specifications.

The Innomotics MiCLAD form wound stator insulation system provides the

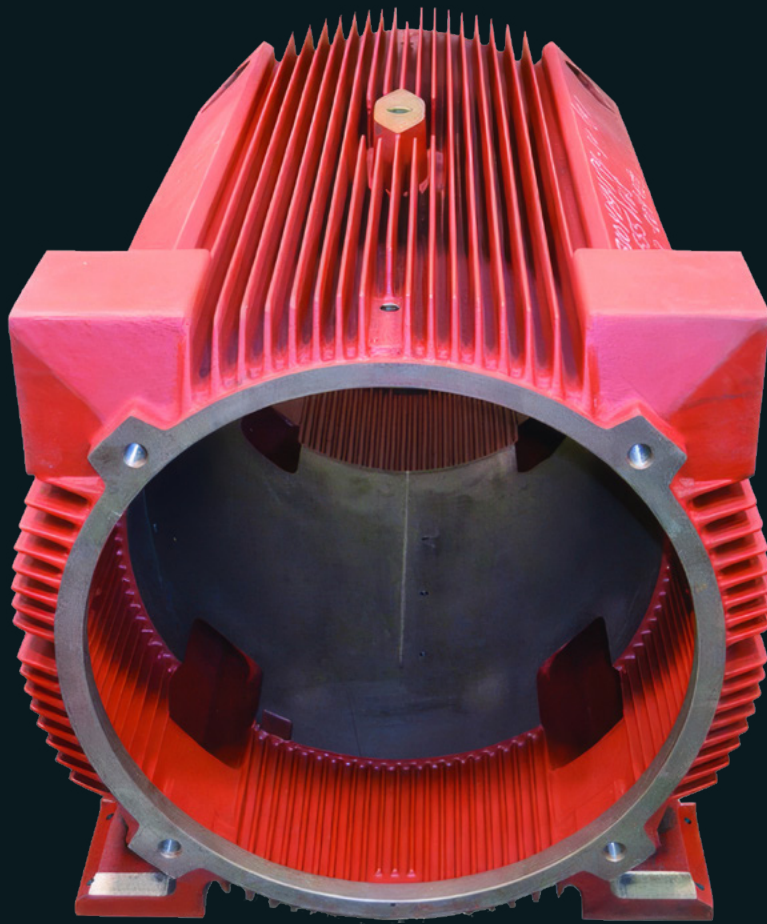
ultimate in electrical protection, as well as mechanical and electrical strength for long service life. It features a sealed epoxy mica design for optimum electrical and ambient operating performance and meets or exceeds NEMA MG 1-20 standards.

The Innomotics Micalastic form wound stator insulation system provides protection for motors fed from a line-supply or an adjustable frequency drive. This system also provides high switching and reversing strength due to the high stiffness of the overhangs. The copper wire strand and turn

insulation system is comprised of multiple layers of mica tape.

For high voltage applications, supplemental mica insulation is added for extra protection.

When ultimate protection against corona damage is required in high voltage applications, conductive armor tape is added to the slot portion of the coil.



Stator Assembly

After insulating, coils are assembled in the stator slots with polyester film/fiber slot liners and connected together. Coil end surge rings, blocking, and tying are applied to the finished assembly for maximum strength.

Completed stators are over-coated with an epoxy resin in a vacuum pressure impregnation (VPI) process and baked to produce a very rigid stator winding suitable for tough performance including across-the-line starting.

- The stator is submerged into a VPI tank filled with resin. A vacuum state is reached, forcing resin to fill voids and gaps within the windings.

- While still submerged within the resin, the stator is pressurized many times atmospheric pressure to maximize insulation penetration and coverage.
- The stator assembly is then baked at high temperature to catalyze the resin, producing an exceptionally sealed and rugged coating.

Stator Core

For optimum electrical and magnetic performance, stator cores are assembled with laminations punched from high-grade C5 core plate silicon steel. These laminations are stacked, keyed, compressed, and secured with heavy gauge steel rings to provide a strong, rigid assembly to minimize vibration and noise while assuring a precision air gap.

Frame System

Depending on the size of the motor or the type of enclosure, motor frames are either high-grade cast iron or fabricated steel.

- Precision-machined end shields and frame ends provide close tolerance mating – helping assure precise rotor and stator alignment, regardless of high shaft loads, for long bearing life as well as low vibration and harmonics.
- Precision-machined mounting feet surfaces assure long-term, accurate alignment with driven equipment to extend bearing life and minimize vibration.

Decades of application experience are built into well engineered systems.

Rotor Systems

Our proven rotor system is engineered with high-grade materials to reliably transmit heavy loads, help cool the motor, and provide superior electrical performance for various applications.

High Strength Shafts

Innomotics uses robust medium carbon steel bar that is precision ground to withstand extreme operating stresses.

Innovative Cooling System

Axial vents parallel to the shaft carry cooling air to radial vents in the core laminations to expel heat away from the rotor.

Precision Balanced

Rotors are dynamically balanced at full operating speed to minimize noise and vibration, which also helps ensure long bearing life.

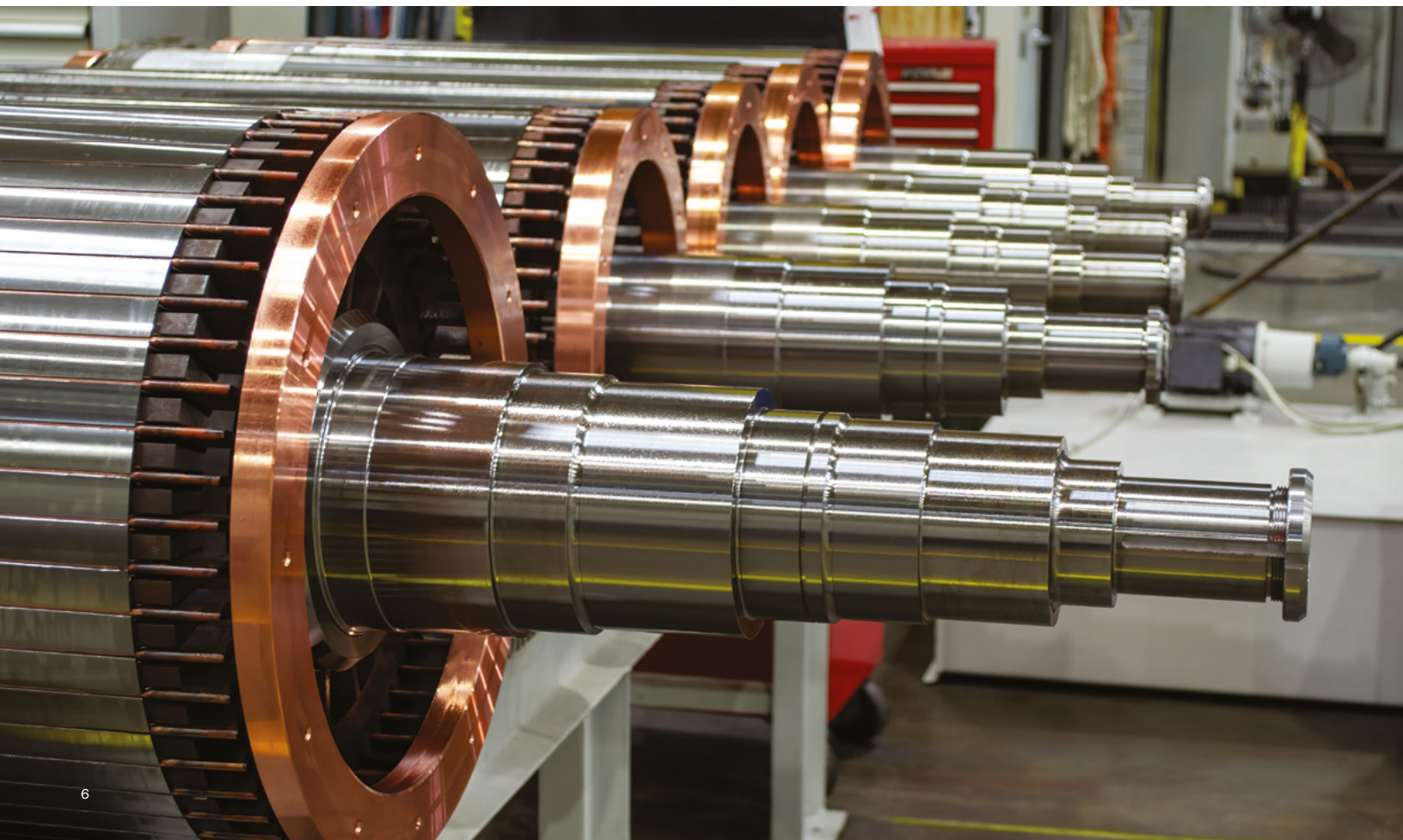
Aluminum Die-Cast

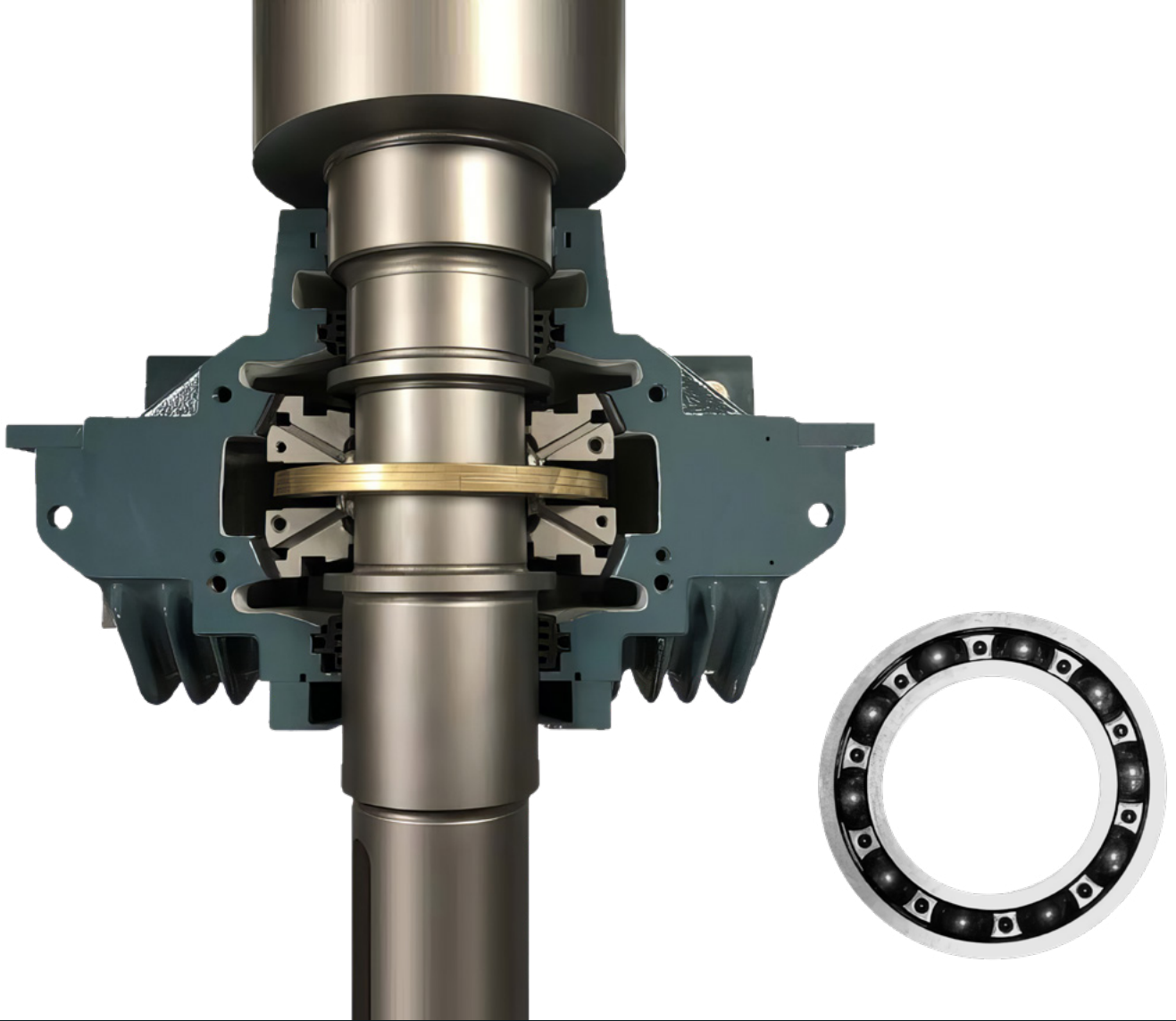
These rotors are ideal for general purpose applications. They are comprised of stacked steel laminations compressed and molten aluminum cast into a solid rotor core. This construction casts bars and end rings into one rugged, solid piece to eliminate the possibility of bond faults or flexing failures at the joints.

Fabricated Copper Bar

These rotors are well suited for high performance applications and provide exceptional energy efficiency.

- Fabricated with stacked steel laminations compressed and shrink fit onto a keyed shaft. Heavy steel end heads with tooth supports are added to prevent flaring at the ends.
- Copper or copper-alloy bars are press fit into rotor slots that are lined with steel shims to assure a tight fit. Large copper end connections are added and brazed with silver for maximum strength and electrical conductivity.





Bearing Systems

To meet specific application requirements we offer two types of bearing systems. Each are designed to precisely match a diverse range of frame sizes.

Sleeve Bearings

Split sleeve bearings are typically standard on motors with larger frames and higher speeds, and optional for most others.

- Tin-based babbitt liners are bonded to bearing bushing shells.
- A large lubricant reservoir provides self-cooling for some motors.
- Dual one-piece rings carry the lubricant from a reservoir into channeled grooves where it feeds the bearing.

- For convenient and easy inspection, the top half of the horizontally split bearing housing can be removed without disturbing the bearing or its alignment. Viewing ports are also included in the endshields.
- Flood lubrication is available.
- Both sides of these bearings have labyrinth seals and are vented to the atmosphere to prevent lubricant migration.
- Sight gauges are available to monitor lubricant levels and constant level oilers are available.
- When required, bearings are insulated from the housing to prevent shaft currents damage.

Anti-Friction Bearings

These bearings are typically standard on motors with smaller frames and slower speeds and optional for some others.

- Open, single row, regreasable ball bearing design.
- New grease is added through external fittings and expelled grease is relieved through drain ports.
- A large grease reservoir protects the bearings from contaminants while a stationary metal end cap protects stator end turns from excessive grease.
- Bearings are interference-fit on the shaft and slip-fit between the bearing and the housing to allow for thermal expansion.



Construction Features

Standard/Enclosure	ODP/WPI (IC01)	WPPI (IC01)
Degree of Protection	IP23	IP24
HP Range	200 - 9,000 HP	200 - 28,000 HP
Frame Size/Shaft Height (SH)	500, 580, 680, 800	500, 580, 680, 800, SH630, SH710, SH800
Voltage	380 - 13,200 V (460 - 690 V to 800 HP only)	380 - 13,200 V (380 - 690 V to 800 HP only)
Service Factor	1.0 (1.15 optional)	1.0 (1.15 optional)
Warranty	24 months from date of manufacture Deferred and/or Extended Warranty (optional)	24 months from date of manufacture Deferred and/or Extended Warranty (optional)

Construction Materials

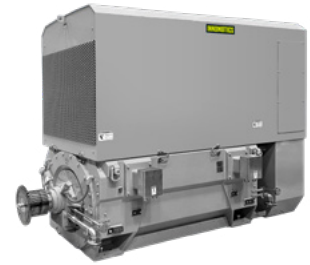
Frame	Cast Iron	Cast Iron - 500-800 frames Fabricated Steel - SH630/SH710/SH800
Bearing Housings	Cast Iron	Cast Iron - 500-800 frames Fabricated Steel - SH630/SH710/SH800
Main Terminal Box	Cast Iron Fabricated Steel (optional)	Cast Iron - 500-800 frames Fabricated Steel (optional) Fabricated Steel - SH630/SH710
Auxiliary Boxes	Cast Iron - NEMA 4X Stainless Steel - NEMA 4X (optional)	Cast Iron - NEMA 4X Stainless Steel Stainless Steel - NEMA 4X (optional)
Shaft	2 Pole - AISI 4140 4 Pole and Slower AISI 1045 (AISI 4140 optional)	2 Pole - AISI 4140 4 Pole and Slower AISI 1045 (AISI 4140 optional)
Rotor	Aluminum Die-cast - 500/580 frames* Induction-Brazed Copper Bar - 680 - 800 frames	Aluminum Die Cast - 500/580 frames* Induction-Brazed Copper Bar - 680-SH710 - 680-SH800
Lamination Material	C5 Core Plate	C5 Core Plate
External Cooling Fan	N/A	N/A
Fan Cover	N/A	N/A
Hood/Heat Exchanger/Tube Material	500 frame - None 580-800 frames - Fabricated Steel	Fabricated Steel
Insulation	Form-wound, Class F VPI	Form-wound, Class F VPI
Hardware	≤ M12 - 300 Series Stainless Steel > M12 - Zinc Plated Carbon Steel (per API)	≤ M12 - 300 Series Stainless Steel > M12 - Zinc Plated Carbon Steel (per API)

General Information

Noise Level	90 dB(A) Typical (lower on 4 pole and slower) (<85 dB(A) low noise optional on most ratings)	90 dB(A) Typical (lower on 4 pole and slower) (<85 dB(A) low noise optional on most ratings)
Vertical Mounting	All Frames	All Frames
Inverter Operation	VFD Duty - Consult Innmototics for Specifics	VFD Duty - Consult Innmototics for Specifics
Paint	Two-part Epoxy (Special Paint optional)	Two-part Epoxy (Special Paint optional)
Paint Color	Innomototics PowerGray (other colors optional)	Innomototics PowerGray (other colors optional)
Bearing Type	Anti-friction - 500/580 frames Sleeve bearings (optional) Sleeve bearings - 680/800 frames (Anti-friction available on some ratings)	Anti-friction - 500/580 frames Sleeve bearings - 680/800 frames 2, 4 Pole Sleeve bearings - SH630/SH710/SH800 6 Pole and Slower Anti-friction - SH630/SH710/SH800 (Sleeve bearings optional)
Vibration	0.12 IPS or as defined by NEMA (Special balance if required)	0.12 IPS or as defined by NEMA (Special balance if required)
Hazardous Area	N/A	Class 1, Division 2 optional

Consult Innmototics for a complete list of clarifications, exceptions, and bills of material that may apply.

* Some larger 580 frames are provided with fabricated copper bar rotors. Copper bar rotors are optional for 500 and 580 frames.



Construction Features

Standard/Enclosure	TEWAC (ICW81)	TEFC (IC411)	TEAAC (IC611 or IC616)
Degree of Protection	IP54/IP55 (SH630/SH710/SH800)	IP54/IP55 (SH400-880)	IP54/IP55 (SH630/SH710/SH800)
HP Range	200 - 28,000 HP	200 - 2,000 HP	200 - 19,000 HP
Frame Size/Shaft Height (SH)	580, 680, 800, SH630, SH710, SH800	500, 580, SH400, SH450, 880	580, 680, 800, SH630, SH710, SH800
Voltage	380 - 13,200 V (380 - 690 V to 800 HP only)	380 - 11,000 V (380 - 690 V to 800 HP, to 2250 HP w/ VFD)	380 - 13,200 V (380 - 690 V to 800 HP only)
Service Factor	1.0 (1.15 optional)	1.0 (1.15 optional)	1.0 (1.15 optional)
Warranty	24 months from date of manufacture Deferred and/or Extended Warranty (optional)	24 months from date of manufacture Deferred and/or Extended Warranty (optional)	24 months from date of manufacture Deferred and/or Extended Warranty (optional)

Construction Materials

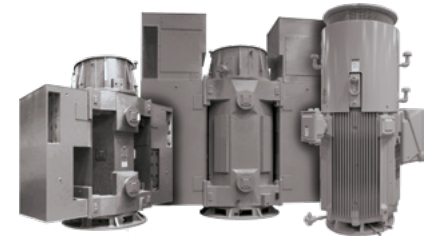
Frame	Cast Iron - 580-800 frames Fabricated Steel - SH630/SH710/SH800	Cast Iron	Cast Iron - 580-800 frames Fabricated Steel - SH630/SH710/SH800
Bearing Housings	Cast Iron - 580-800 frames Fabricated Steel - SH630/SH710/SH800	Cast Iron - 500-880 frames Fabricated Steel - SH400 - 880	Cast Iron - 580-800 frames Fabricated Steel - SH630/SH710
Main Terminal Box	Cast Iron - 500-800 frames Fabricated Steel (optional) Fabricated Steel - SH630/SH710/SH800	Cast Iron Fabricated Steel (optional)	Cast Iron - 500-800 frames Fabricated Steel (optional) Fabricated Steel - SH630/SH710/SH800
Auxiliary Boxes	Cast Iron - NEMA 4X Stainless Steel - NEMA 4X (optional)	Cast Iron - NEMA 4X Stainless Steel - NEMA 4X (optional)	Cast Iron - NEMA 4X Stainless Steel - NEMA 4X (optional)
Shaft	2 Pole - AISI 4140 4 Pole and Slower AISI 1045 (AISI 4140 optional)	2 Pole - AISI 4140 4 Pole and Slower AISI 1045 (AISI 4140 optional)	2 Pole - AISI 4140 4 Pole and Slower AISI 1045 (AISI 4140 optional)
Rotor	Aluminum Die Cast - 580 frame* Induction-Braced Copper Bar - 680-SH800	Aluminum Die Cast - 500/580 frames* Induction-Braced Copper Bar - SH400-880	Aluminum Die Cast - 580 frame* Induction-Braced Copper Bar - 680-SH800
Lamination Material	C5 Core Plate	C5 Core Plate	C5 Core Plate
External Cooling Fan	N/A	Aluminum - 500/580 (other materials available) 2 Pole plastic fan with steel hub - SH400-880 4 Pole and slower plastic - SH400/SH450, Steel-880	Aluminum 580-800 Steel - SH630/SH710/SH800 (other materials available)
Fan Cover	N/A	Cast Iron 500/580 frames, Steel - SH400-880	Fabricated Steel
Hood/Heat Exchanger/ Tube Material	Fabricated Steel; Single-tube (Double-tube optional); Cu/Ni (Stainless Steel optional)	N/A	Fabricated Steel / N/A / Aluminum, (Stainless Steel optional)
Insulation	Form-wound, Class F VPI	Form-wound, Class F VPI	Form-wound, Class FVPI
Hardware	≤ M12 - 300 Series Stainless Steel > M12 - Zinc Plated Carbon Steel (per API)	≤ M12 - 300 Series Stainless Steel > M12 - Zinc Plated Carbon Steel (per API)	≤ M12 - 300 Series Stainless Steel > M12 - Zinc Plated Carbon Steel (per API)

General Information

Noise Level	90 dB(A) Typical (lower on 4 pole and slower) (<85 dB(A) low noise optional on most ratings)	90 dB(A) Typical (lower on 4 pole and slower) (<85 dB(A) low noise optional on most ratings)	90 dB(A) Typical (lower on 4 pole and slower) (<85 dB(A) low noise optional on most ratings)
Vertical Mounting	No	500/580 only	All Frames
Inverter Operation	VFD Duty - Consult Innomotics for Specifics	VFD Duty - Consult Innomotics for Specifics	VFD Duty - Consult Innomotics for Specifics
Paint	Two-part Epoxy (Special Paint optional)	Two-part Epoxy (Special Paint optional)	Two-part Epoxy (Special Paint optional)
Paint Color	Innomotics PowerGray (other colors optional)	Innomotics PowerGray (other colors optional)	Innomotics PowerGray (other colors optional)
Bearing Type	Anti-friction - 580 frame Sleeve bearings - 680/800 frames 2, 4 Pole Sleeve bearings SH630/SH710/SH800 6 Pole and Slower Anti-friction - SH630/SH710/SH800 (Sleeve bearings optional)	Anti-friction - 500/580 frame (Sleeve bearings optional) 2 Pole Sleeve bearings - SH400-880 4 Pole and Slower Anti-friction - SH400-880 (Sleeve bearings optional)	Anti-friction - 580 frame (Sleeve bearings optional) Sleeve bearings - 680/800 frames 2, 4 Pole Sleeve bearings SH630/SH710/SH800 6 Pole and Slower Anti-friction - SH630/SH710/SH800 (Sleeve bearings optional)
Vibration	0.12 IPS or as defined by NEMA (Special balance if required)	0.12 IPS or as defined by NEMA (Special balance if required)	0.12 IPS or as defined by NEMA (Special balance if required)
Hazardous Area	Class 1, Division 2 optional	Class 1, Division 2 optional	Class 1, Division 2 optional

Consult Innomotics for a complete list of clarifications, exceptions, and bills of material that may apply.

* Some larger 580 frames are provided with fabricated copper bar rotors. Copper bar rotors are optional for 500 and 580 frames.



Construction Features

Standard/Enclosure	IEEE 841	API 541 5th Edition/API 547 (IC01, IC611, IC616, IC666, IC81W, IC411, IC416)	Vertical ODP/WPI, WPII, TEFC, TEAAC (IC01, IC411, IC611, IC616)
Degree of Protection	IP55	All	All
HP Range	250 - 500 HP	250 - 28,000 HP	200 - 4,500 HP (ODP-WPII), 200 - 3,000 HP (TEFC, TEAAC)
Frame Size/Shaft Height (SH)	500, 580	All	500, 580, 680, 800
Voltage	460 - 4,000 V	2,300 - 13,200 V	2,300 - 7,200 V (500, 580 frames), 2,300 - 13,200 V (680, 800 frames)
Service Factor	1.0	1.0 (1.15 optional)	1.0 (1.15 optional)
Warranty	24 months from date of manufacture Deferred and/or Extended Warranty (optional)	24 months from date of manufacture Deferred and/or Extended Warranty (optional)	24 months from date of manufacture Deferred and/or Extended Warranty (optional)

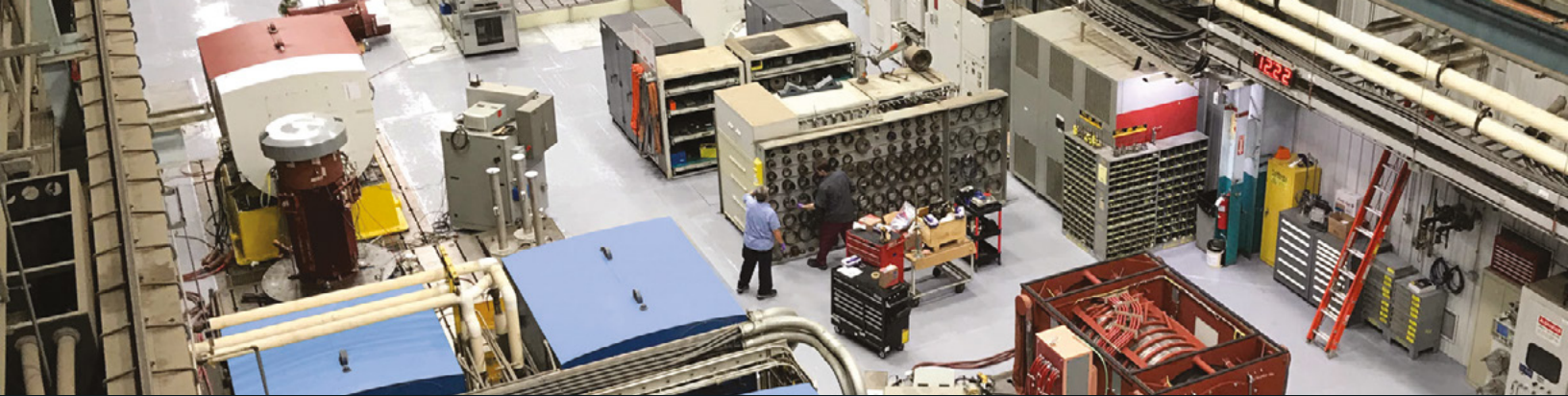
Construction Materials

Frame	Cast Iron	Cast Iron - 500-800 frames Fabricated Steel - SH630/SH710/SH800	Cast Iron
Bearing Housings	Cast Iron	Cast Iron - 500-800 frames Fabricated Steel - SH630/SH710/SH800	Cast Iron
Main Terminal Box	Cast Iron (ANSI Type II with standoff Insulators and oversized to NEMA MGI optional)	Cast Iron or Fabricated Steel	Cast Iron Fabricated Steel (optional)
Auxiliary Boxes	Cast Iron - NEMA 4X Stainless Steel - NEMA 4X (optional)	Cast Iron - NEMA 4X Stainless Steel - NEMA 4X (optional)	Cast Iron - NEMA 4X Stainless Steel - NEMA 4X (optional)
Shaft	2 Pole - AISI 4140 4 Pole and Slower AISI 1045 (AISI 4140 optional)	2 Pole - AISI 4140 4 Pole and Slower AISI 1045 (AISI 4140 optional)	500/580 - AISI 4140 Solid (2 Pole) AISI 1045 Solid, 4140 Hollow (Slower) 680/800 - AISI 1045 Solid
Rotor	Die Cast Aluminum	API 541 5th ed: Induction-brazed Copper Bar API 547: Aluminum die cast <=1,000 HP otherwise Induction-brazed Copper Bar (Induction-brazed Copper Bar option available for <=1,000 HP)	Aluminum (Copper as an option) ODP-WPII 500/580 frames 4-12 poles, All TEFC Copper - All other vertical motors
Lamination Material	C5 Core Plate	C5 Core Plate	C5 Core Plate
External Cooling Fan	Nonsparking Bronze Alloy	Aluminum if applicable (other materials optional)	Aluminum (TEFC), Steel (TEAAC)
Fan Cover	Cast Iron	Cast Iron or Fabricated Steel	Fabricated Steel
Hood/Heat Exchanger/ Tube Material	N/A	Fabricated Steel / Double-tube / Cu/Ni (TEWAC) Fabricated Steel / N/A / Aluminum (TEAAC)	Fabricated Steel / Aluminum Tubes (TEAAC)
Insulation	Form-wound, Class F VPI	Form-wound, Class F VPI	Form-wound, Class F VPI
Hardware	≤ M12 - 300 Series Stainless Steel > M12 - Zinc Plated Carbon Steel (per API)	≤ M12 - 300 Series Stainless Steel > M12 - Zinc Plated Carbon Steel (per API)	300 Series Stainless Steel

General Information

Noise Level	90 dB(A) Typical (lower on 4 pole and slower) (<85 dB(A) low noise optional on most ratings)	<85 dB(A) available on most ratings	<85 dB(A) available on most ratings
Vertical Mounting	N/A	Available	All
Inverter Operation	VFD Duty - Consult Innomotics for Specifics	VFD Duty - Consult Innomotics for Specifics	VFD Duty - Consult Innomotics for Specifics
Paint	Two-part Epoxy (Special Paint optional)	Two-part Epoxy (Special Paint optional)	Two-part Epoxy (Special Paint optional)
Paint Color	Innomotics PowerGray (other colors optional)	Innomotics PowerGray (other colors optional)	Innomotics PowerGray (other colors optional)
Bearing Type	Anti-friction Bearings	Sleeve Bearings	500 2 pole - Deep groove ball 500/580 4-12 pole - Deep groove ball (Optional: Single angular contact, Tandem angular contact, or spherical roller) TEFC 500/580 2 pole - Deep groove ball (Optional: Angular contact /deep groove ball combination) 680/800 - Spherical roller (Optional: Kingsbury with oil lube upper guide)
Vibration	0.08 IPS (except 2 pole motors= 0.10 IPS)	0.10 IPS on HSG/1.5 mils on shaft	0.12 IPS as Defined by NEMA (optional .10 IPS per API)
Hazardous Area	Class 1, Division 2 optional	Class 1, Division 2 optional	Optional: Class 1, Division 2 (WPII, TEFC, TEAAC)

Consult Innomotics for a complete list of clarifications, exceptions, and bills of material that may apply.



Engineered to Your Application.

Designing one of our motors to fit perfectly into your application is our specialty. Our staff of highly trained and experienced motor engineers can deliver the toughest application solutions.

- Severe operating conditions and loads
- Variable frequency drive applications
- Lower motor acquisition and operating costs
- High efficiencies
- Extended maintenance intervals
- Increased service life expectancy

Innomotics offers a wide variety of modifications.

Bearing Protection

Resistance Temperature Detectors (RTDs)

Bearing RTDs are placed under the bearing babbitt and monitor any change in bearing bushing resistance to produce a direct temperature reading. Bearing RTDs are platinum with a nominal 100 Ω resistance.

Thermocouples

These temperature detectors are available as chromelconstantan (Type E).

Thermometers

Direct reading dial thermometers detect bearing temperatures and are normally mounted on the motor frame.

Vibration Detectors

These provide optimum bearing protection since excessive vibration

in the bearings is detected before excessive heat can occur. Detectors are mounted near antifriction bearings and are available with switches and/or 4-20 mA outputs.

Proximity Probes

Non-contact vibration amplitude sensing proximity probes are made for sleeve bearing motors. They are eddy current devices that measure distance and change in distance to signal impending bearing problems.

Stator Protection

Resistance Temperature Detectors (RTDs)

Stator RTDs can be embedded into stator slots for direct temperature readings of the hottest areas of motor windings. Stator RTDs with 100 Ω resistance are standard.

Thermistors

These provide a large resistance change in relation to a small temperature change warning about a potential overload.

Surge Protection

Capacitors are placed in each phase of the stator with built-in discharge resistors and connected to cabinet-mounted, three station class arrestors to prevent surges.

Differential Protection

Six extra-long leads for connecting to current transformers are included in an oversized terminal box for differential protection.

Space Heaters

These are energized when the motor is at rest in damp or high humidity environments to reduce internal condensation build-up.

Special Modifications

These modifications are examples of the many that are available to meet specific requirements.

- Extra quiet enclosures
- Precision balancing beyond NEMA standards
- High inertia drives
- Reduced voltage starting

Comprehensive Testing

All Innomotics motors are tested in accordance to applicable NEMA, ANSI and IEEE standards and results from these tests accompany each motor we ship. In addition to these tests, the following performance tests are also available.

- Complete testing to IEEE 112 in Methods E, E1, F, or F1
- Sound pressure testing to IEEE 85 and NEMA MG1-20
- Bearing temperature testing
- Speed versus torque/current testing
- Polarization index testing per IEEE 45

Legal Manufacturer

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Order No. IN-MVM-BR-105-0524

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In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Innomotics' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

Innomotics' products and solutions undergo continuous development and updates, which adherence to are required to ensure the optimal security of the product and services. For more information and updates, please visit : www.innomotics.com/cybersecurity.

This document contains a general description of available technical options only, and its effectiveness will be subject to specific variables including field conditions and project parameters. Innomotics does not make representations, warranties, or assurances as to the accuracy or completeness of the content contained herein. Innomotics reserves the right to modify the technology and product specifications in its sole discretion without advance notice.

The Siemens Businesses **Large Drives Applications** and **Low Voltage Motors** have been transferred to **Innomotics**. The brand change from Siemens to Innomotics is ongoing.

Siemens' or Innomotics' legal information, trademarks or logos contained in product related documents **do not necessarily represent the actual branding** used for the products. Any technical product information remains valid **independently of the brand**.

Orders received as of **August 1, 2024**, will be confirmed exclusively with the product mark "**Innomotics**" regarding the concerned products and services.

Independent of the order date, all ordered products or services with **delivery** dates from **April 1, 2025**, will be delivered with the product mark "Innomotics".