

TECO Wound Rotor - TECO Electric Motors Australia and New Zealand

Canonical: <https://electricmotors.teco.com.au/product/wound-rotor/>

Details:

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TECO Wound Rotor

Tailored Solutions for Unique Applications

TECO Wound Rotor Motors offer personalised solutions for specific needs, catering to a range of customer demands. These motors are exceptionally adaptable and effective, making them an ideal option for a wide array of industries, including mining, paper manufacturing, power generation, sugar processing, milling & grinding, water and waste treatment, marine operations, and steel production.

TECO Wound Rotor Motors are engineered for long-lasting performance and can seamlessly replace current equipment, saving both time and money for businesses. Whether it's a mining operation in need of a motor upgrade or a paper production facility looking to improve efficiency, TECO Wound Rotor Electric Motors can seamlessly integrate into any existing setup.

Built to Endure with Remarkable Flexibility:

Our durable Wound Rotor Motors are versatile and long-lasting. They meet the requirements for various mechanical and electrical designs and can seamlessly replace existing machines. The Crown series complies with international standards and incorporates the latest advances in insulation materials, ensuring adherence to the highest quality and safety regulations. This commitment to excellence is reflected in the use of cutting-edge insulation materials, enhancing not only the motor's performance but also guaranteeing exceptional quality and longevity.

Simplified Efficiency in Design:

TECO Wound Rotor Motors come in a variety of designs, ranging from simple to complex, allowing businesses to choose the motor that best suits their specific needs. This flexibility, combined with standardized designs, means that TECO motors can be swiftly delivered, minimizing downtime, and maximizing productivity.

TECO Wound Rotor Motors minimize mechanical stress at starting, increasing the lifetime of your driven equipment.

When it comes to safety, productivity, energy efficiency, and reliability, TECO Wound Rotor Motors excel in every aspect. These motors are specifically designed to reduce strain during startup, protecting not only the motor itself but also prolonging the lifespan of the powered equipment. This not only saves businesses money in the long run but also ensures a sensible investment that will continue to deliver results for years to come.

An Array of Options for Your Unique Needs

For your specific needs, we offer a comprehensive selection of optional features, including altitude considerations, rotor materials, high-temperature suitability, various base options, bearing thermometers, brush lifting systems, cable glands, insulation upgrades, cooling methods, protection features, and much more. These options enhance the performance, safety, and adaptability of your

TECO Wound Rotor Motors.

See more medium and high voltage electric motors .

Download Brochure CONTACT US Key Specifications Options Available Product Overview Options Available Brochures Manuals Software Drawings Data Sheet

Output: Ranging from 250 kW up to 15,000 kW

Number of Poles: Available in configurations from 4 to 18 Pole (other configuration available upon request)

Cooling Method: Options include TEAAC (Totally Enclosed Air-to-Air Cooled), TEWAC (Totally Enclosed Water Air Cooled) & TEFC (Totally Enclosed Fan-Cooled).

Degree of Protection: Ranging from IP54 to IP65

Frames: Available in sizes from 200 up to 1250

Ambient Temperature: Design rated for operation at 40°C with acceptance up to 50°C.

Design Elevation: Suitable for locations up to 1000 meters above sea level.

Service Factor: Rated at 1.0 @ 40°C ambient.

Mounting: Conforms to IM international standards

Voltages: Available up to 13,800V

Insulation Class: Equipped with “F” insulation rated at 155°C with temperature rise limited to $\Delta T = 80K$ for enhanced safety

TECO Westinghouse patented Thermalastic™ Insulation System for all High Voltage designs, superior form wound winding design.

Duty: Continuous (S1).

Design: Conforming to “N” design specifications.

Thermal Protection: Configurable based on customer specifications.

Bearings: Equipped with Anti-friction Bearings and Oil forced or self-cooled Sleeve Bearings.

Frame Material: Heavy Duty Cast Iron Construction or Heavy Duty Fabricated Steel Construction.

Colour: Customizable based on customer preferences.

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Altitude Above 1000m: Available upon request for elevated locations.

Rotor Material: Choose from aluminium, copper, or brass rotor options.

High Ambient Temperature: Suitable for environments exceeding 40°C.

Base Options: Select from various base configurations, including rail, sliding base, extended feet, rebuilt feet, and anchorage plates.

Bearing thermometer with gauge with/without contacts

Brush Lifting System

Cable Gland Designs: Options for cable gland configurations into the terminal box gland entry size and positioning.

Insulation Class: Upgrade to Class “H” insulation rated at 180°C.

Cooling Options: Choose from self-cooled, forced ventilation and air-to-water heat exchanger cooling methods.

Current Transformers (CT) for Differential and Integral Protection: Configure for specific protection needs.

Electrically Insulated Bearing: For enhanced safety and performance.

Encoder: Supply incremental or absolute encoder for precise speed monitoring and speed control feedback.

Grounding Brush: Equipped on the drive end shaft for improved earthing of the rotor circuit.

Independent Hydraulic Oil Circulation System: Available for forced cooled sleeve bearings.

Mounting Options: Includes vertical, horizontal, foot and flange, and NEMA standard mounting configurations.

NEMA Standard meeting overseas project requirements.

Noise Suppression: Installed at the air inlet and outlet for overall reduced noise levels.

Multiple Accessory Terminal Boxes: Customized to suit your specific requirements.

Protection Against Voltage Surge: Equipped with lightning arrestors and capacitors for enhanced protection. See Below

Surge Capacitors & Lightning Arrestors: Available for enhanced incoming supply protection to windings.

Service Factor: Rated for 1.10, 1.15 or 1.20 for extended performance.

Shaft Options: Choose from special dimensions, double shaft ends, tapered shafts, hollow shafts, and specialty steel shafts.

Signal Transducer: For monitoring and control purposes.

Special Bearings: To accommodate axial or radial thrust.

Special Balance: Customized for precise applications.

Special Painting Plan: Tailored to your preferences.

Oversized Steel Welded Terminal Box: Available in various sizes and designs based on internal space.

Air Insulated Primary & Secondary Terminal Boxes with phase segregated as an option.

Temperature Detectors: Choose from thermistors (PTC or NTC) and thermostats (Bimetallic).

Temperature Detectors: Resistance Temperature Devices (RTD) for winding and bearing temperature monitoring.

Anti Condensation Heaters can be installed for dormant periods to keep the motor internals above dew point.

Two terminal boxes can be provided and supplied on each side for the primary and secondary for full interchangeability to suit the specific application, also allows for consolidation of spares when different handings are installed.

Vibration Detector: Enhances monitoring and predictive maintenance, studs, platforms or devices can be provided.

Smart motor IOT 4.0: Suitable for the TECO series of smart motor devices that monitors vibration and motor temperatures.

Colour: Customizable based on customer preferences.

| Product Overview | | --- | --- | | Output | 250 up to 15,000kW | | Number of Poles: | 4 to 12 | | Cooling method: | TEAAC & TEFC | | Degree of Protection: | IP54 to IP65 | | Frames: | 355 up to 1250 | | Ambient temperature: | 40 °C | | Elevation: | 1000m above sea level | | Service factor: | 1.0 @ 40 deg C ambient | | Mounting: | IM1001 | | Voltages: | Up to 13,800V | | Insulation Class: | "F" insulation ($\Delta T = 80K$) | | Continuous duty: | S1 | | Design: | N | | Thermal protection: | As per customer specification | | Bearings: | Anti-friction Bearings , Sleeve bearings | | Frame Material: | Fabricated Steel | | Color: | As per customer specification |

Altitude above 1000 m (on request)
Aluminum, copper or brass rotor

Ambient temperature above 40 °C
Base: rail, sliding base, extended feet, rebuilt feet, anchorage plate
Bearing thermometer with gauge with/without contacts
Brush Lifting System
Cable gland in the terminal box entrance
Class of insulation: H
Cooling: Forced ventilated, Air-to-water heat exchanger
CT for differential and integral protection
Electrically insulated bearing
Encoder
Grounding brush on drive end bearing
Independent hydraulic oil circulation system for sleeve bearing
Mountings: Vertical, Horizontal, Foot and Flange, Flange, NEMA Standard
Noise suppressor in the air inlet and outlet
Non-reversion ratchet
Multiple accessory terminal boxes
Power factor correction capacitors
Protection against voltage surge: Lightning arrestors and Capacitors
Service Factor: 1.15
Shaft: Special dimensions, double shaft end, tapered, hollow, special steel
Signal transducer
Sleeve bearing
Special balance
Special bearing (overdesigned) for axial or radial thrust
Special painting
Steel welded terminal box in different sizes, based on internal available space
Temperature detector: Thermistor (PTC or NTC)
Temperature detector: Thermostat (Bimetallic)
Two energized power terminal boxes
Vibration detector

TECO Large Motors and Drives Brochure

Wound Rotor – Slip Ring Motors – 3A057H800E-01

No software downloads.

Download Drawings No Drawings available Download Datasheets No Datasheets available Key Specifications

Output: Ranging from 250 kW up to 15,000 kW

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Frames: Available in sizes from 200 up to 1250

Ambient Temperature: Design rated for operation at 40°C with acceptance up to 50°C.

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Duty: Continuous (S1).

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Frame Material: Heavy Duty Cast Iron Construction or Heavy Duty Fabricated Steel Construction.

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