

TECO Electric Motors for Hazardous Areas - TECO Electric Motors Australia and New Zealand

Canonical: <https://electricmotors.teco.com.au/product/hazardous-area/>

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TECO Electric Motors for Hazardous Areas

Rugged, Reliable, and High Efficiency Solutions

Hazardous environments, demand motors that can stand up to the toughest conditions. At TECO, we specialize in providing a comprehensive range of Electric Motors designed explicitly for hazardous areas in industrial applications.

Our range of products include Ex n, Ex e, Ex d, Ex de, and Ex p motors, all designed to guarantee efficiency in demanding environments.

Unleash Efficiency with TECO Electric Motors

Our commitment to harnessing the latest technologies allows us to offer high-efficiency motors across the entire power range. From low voltage to high voltage applications , TECO Electric Motors provide superior performance and optimal energy usage.

Ruggedness and Durability: A TECO Hallmark

We understand that challenging environments require motors that can withstand harsh conditions. That's why we design our motors to deliver increased strength and long-lasting performance, even in the most demanding applications.

Trust that TECO Electric Motors builds products to last.

With TECO Electric Motors, rest assured that we construct our products to endure. Our Ex n motors, designed for hazardous areas, prioritise safety and reliability. These motors feature robust materials and utilize advanced engineering techniques, allowing them to withstand extreme temperatures, corrosive substances, and volatile atmospheres.

For applications that require explosion-proof capabilities, our Ex d and Ex de motors are the perfect choice. We construct these motors with reinforced enclosures and sealing mechanisms to prevent any sparks or flames from escaping and causing potential hazards. With TECO motors, you can have peace of mind knowing that safety is our top priority.

In addition to their ruggedness, our motors also excel in energy efficiency. We design our Ex e motors to minimize energy consumption while maximizing performance. Utilizing advanced motor control technology, these motors can adapt to varying load conditions, ensuring optimal energy usage and reducing operating costs.

TECO Electric Motors also provides Ex p motors, specifically engineered for use in explosive atmospheres. These motors come equipped with special cooling systems and protective features to prevent overheating and potential ignition sources. With their high-performance capabilities and safety features, our Ex p motors prove ideal for applications in the oil and gas industry, chemical plants, and

other hazardous environments.

At TECO, we take pride in our commitment to providing reliable and efficient motors for challenging settings. Whether you need a motor for a hazardous area or a high-efficiency solution for your industrial applications, TECO Electric Motors has the perfect solution for you. Trust in our expertise and experience to deliver motors that exceed your expectations in terms of durability, performance, and safety.

Your Partner in Hazardous Environments

TECO stands by its commitment to safety and reliability. We understand that hazardous areas demand expertise and precision. Our team of specialists is prepared to help you discover the perfect motor solution for your high-risk area application.

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TECO Electric Motors for Hazardous Areas offer a wide power output range, from 185 kW to an impressive 10,000 kW, ensuring we have a motor to meet your unique needs.

With 2 to 12 Pole, TECO Electric Motors for Hazardous Areas are offering flexibility to fine-tune motor characteristics for specific applications.

Choose between Totally Enclosed Air-to-Air Cooled (TEAAC) and Totally Enclosed Fan Cooled (TEFC) cooling systems for optimal heat dissipation and performance in challenging conditions.

Range of IP ratings, from IP54 to IP66, providing excellent protection against dust and water ingress.

TECO Electric Motors for Hazardous Areas frames are designed to accommodate applications, ranging from 315 to 1000.

TECO motors operate flawlessly in environments with an ambient temperature of up to 40°C.

TECO Electric Motors for Hazardous Areas work best at heights up to 1000 meters above sea level.

Service factor of 1.0 at 40°C ambient temperature, ensuring continuous operation without compromising performance.

Adhering to the IM1001 mounting standard for easy installation.

Wide range of voltage options, with the capability to handle voltages up to 11,000V.

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.

Built for continuous duty operation (S1), removing performance gaps or interruptions.

“N” design standard, optimising performance while minimizing space requirements.

Tailored thermal protection mechanisms provide an extra layer of security.

TECO motors come equipped with high-quality bearings, offering options for anti-friction and Oil forced or self-cooled sleeve bearings.

Heavy Duty Fabricated Steel frames for strength and longevity.

TECO allows customization of motor colour to match branding or industry standards.

Product Overview	
Output	185 up to 10000kW
Number of Poles:	2 to 12
Cooling method:	TEAAC & TEFC
Degree of Protection:	IP54 to IP66

Frames:	315 up to 1000
Ambient temperature:	40 °C
Elevation:	1000m above sea level
Service factor:	1.0 @ 40 deg C ambient
Mounting:	IM1001
Voltages:	Up to 11000V
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

TECO Large Motors and Drives Brochure

Teco-Manual-REV07

No software downloads.

Download Drawings No Drawings available Download Datasheets No Datasheets available Specifications

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Brochures

TECO Large Motors and Drives Brochure

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