XIAMEN TUNGSTEN | CITTO SERVO

TYGXP SERIES

High-Efficiency Motor

Within the load range of 25% to 120%, this series of motor products exhibits higher efficiency, a broader economic operating range, and significant energy-saving effects compared to asynchronous motors of the same specifications. Its efficiency metrics can meet the Class 1 standard as per GB 30253-2024 "Minimum Allowable Values of Energy Efficiency and Energy Efficiency Grades for Permanent Magnet Synchronous Motors". The power ratings and installation dimensions are fully compliant with the International Electrotechnical Commission (IEC) standards.

Encoder Options

- Endat Single-Turn Absolute Encoder
- Endat Multi-Turn Absolute Encoder
- 1Vpp Sine-Cosine Encoder
- Rotary Encoder
- Square Wave Incremental Encoder

Cooling Methods

Natural Cooling

Air Cooling

Liquid Cooling

Product advantages

- **High capability and compact size**
  Compact size, lightweight, low loss, high efficiency, and a high torque-to-inertia ratio.
- **Wide Speed Regulation Range**
  Through inverter control, permanent magnet motors can achieve smooth speed regulation over a wide range.
- **High efficiency and low energy consumption**
  The absence of rotor resistance loss alone can improve motor efficiency by 5~10%.
- **Energy-saving and environmentally friendly**
  High efficiency reduces energy consumption and carbon emissions, meeting the requirements for energy conservation and environmental protection.

XIAMEN TUNGSTEN | CITTO SERVO

High-efficiency permanent magnet motors are widely used in various fields such as new energy vehicles, industrial automation, household appliances, wind power generation, aerospace, medical equipment, rail transportation, ship and marine engineering, energy and power, and national defense and military industries. They have driven technological advancements and energy efficiency improvements in related industries.

Technlcal Data

Model	Rated Power	Rated Speed	Rated Torque	Rated Voltage	Rated Current	Efficiency	Starting torque multiple
	kW	rpm	Nm	V	A	%	
TYGXP-750rmp	2.2-315	750	28-4011	380	4.0-523.2	87.2-96.3	2
TYGXP-1000rmp	3-355	1000	28.7-3390	380	5.3-585.3	90.6-97	2
TYGXP-1500rmp	5.5-450	1500	35.02-2865	380	9.4-738.9	93.4-97.4	2
TYGXP-3000rpm	5.5-450	3000	17.51-1433	380	9.5-740.4	92.6-97.2	2