

# Cat<sup>®</sup> Electric Motors

For Gas Compression





# GET TOUGH.

Get power built for your most demanding gas compression applications.

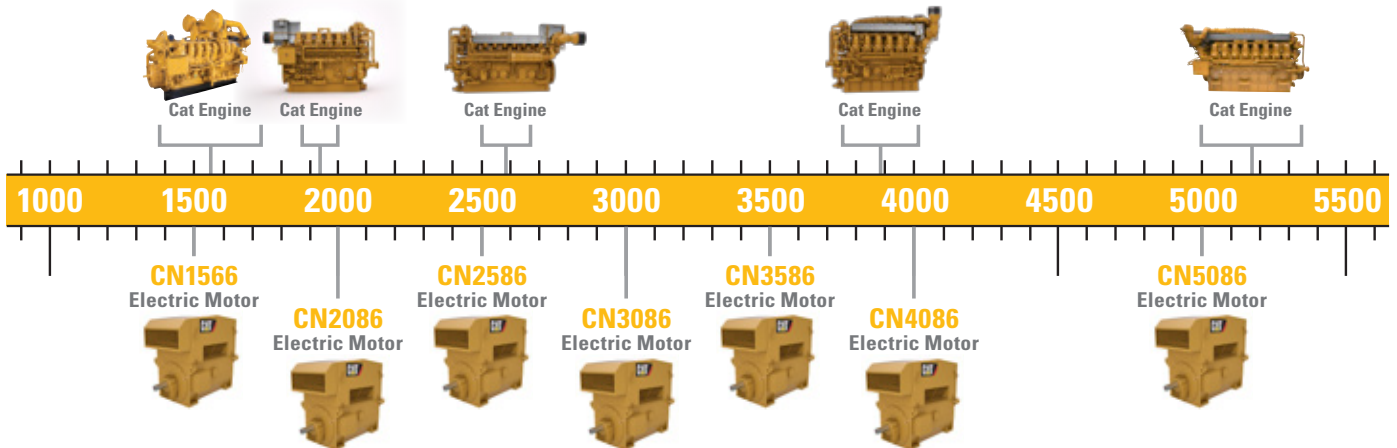
Every Cat® electric motor is tested to make sure it performs reliably and according to your process requirements. You get high operating efficiency, low maintenance costs, decreased low noise levels, and no site emissions.

## CAT ELECTRIC MOTORS

	COMING SOON						
	CN1566 1200 rpm	CN5086 900 rpm	CN2086 900 rpm	CN2586 900 rpm	CN3086 900 rpm	CN3586 900 rpm	CN4086 900 rpm
Rating	1500 hp	5000 hp	2000 hp	2500 hp	3000 hp	3500 hp	4000 hp
Number of Poles	6	8	8	8	8	8	8
Voltages	4000 V/60 Hz	4000 V/60 Hz	4000 V/60 Hz	4000 V/60 Hz	4000 V/60 Hz	4000 V/60 Hz	4000 V/60 Hz
Enclosure Type	WP II	WP II	WP II	WP II	WP II	WP II	WP II
Service Factor (Inverter Fed)	1.15 SF (1.0 VFD)	1.15 SF (1.0 VFD)	1.15 SF (1.0 VFD)	1.15 SF (1.0 VFD)	1.15 SF (1.0 VFD)	1.15 SF (1.0 VFD)	1.15 SF (1.0 VFD)
Temperature Rise	Class B*	Class B*	Class B*	Class B*	Class B*	Class B*	Class B*
Insulation	Class F	Class F	Class F	Class F	Class F	Class F	Class F
Weight	8289 lb	21,429 lb	12,037 lb	13,735 lb	17,130 lb	18,431 lb	19,268 lb

\* Class B rise at a 1.0 service factor

## CAT ELECTRIC MOTORS – HP RANGE



# POWER THAT NEVER QUILTS.

Cat electric motors are of the AC induction type and built for low vibration and high rigidity, so you get great performance over a long, productive life. Standard features include Class I, Division 2 Groups A, B, C, D (T3) rating and a high strength alloy (42CrMo4) forged, oversized, keyless shaft.

## BEARINGS

- Sleeve bearings standard on 2000 hp and above, anti-friction on 1500 hp (sleeve bearings available as an option)
- Insulated non-drive end bearings to reduce bearing currents
- Bearing RTDs for temperature monitoring

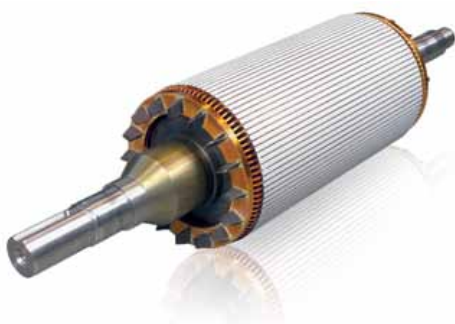


## ROTORS

- Designed for minimal vibration
- Dynamic balancing at full operational speed
- Fabricated copper squirrel cage
- Oversized, forged, keyless shaft matches most standard compressors

## STATORS

- Welded and machined stator core retains its rigidity throughout motor life
- Radial air ducts ensure uniform and efficient cooling
- 2x RTDs per phase
- Vacuum pressure impregnated with a specially formulated epoxy resin to ensure a sealed and homogeneous insulation system that results in high dielectric strength, excellent heat transfer and the elimination of hazardous internal partial discharges





## OPTIONAL ATTACHMENTS

- Oversized Terminal Box
- Surge Protection
- Differential CTs
- Differential Pressure Switch
- Oil Sump Heater and Controller
- Star Point Connection in Terminal Box
- Blower Motor Cooling
- Right-hand or Left-hand (F1 Or F2) Main Terminal Box Location

## It's an easy choice.

From selection and installation to ongoing technical support and maintenance, your Cat dealer is there to help you. Installation drawings, performance data, manuals, and other documentation will be readily available. Shorter lead times, industry-leading availability and extended service intervals mean less stress and lower cost of ownership. Our goal is to make your life easier.

To learn more, call your local Cat dealer today or visit [www.cat.com/oilandgas](http://www.cat.com/oilandgas)

## BUILT FOR IT.™

## Caterpillar Oil & Gas

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