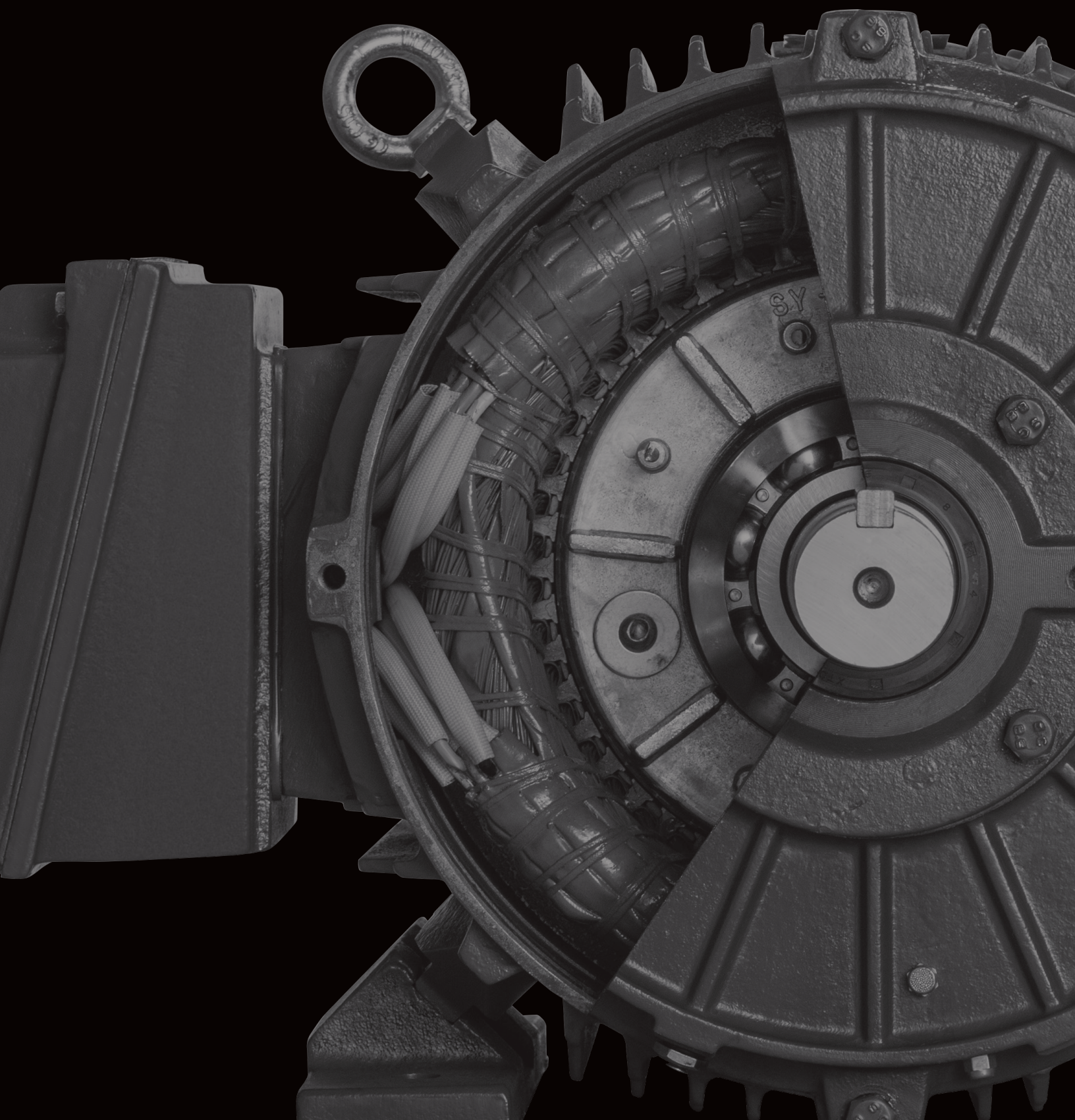




**NEMA & IEC**

Product Features and Benefits





## BEAUTY BENEATH THE SURFACE.

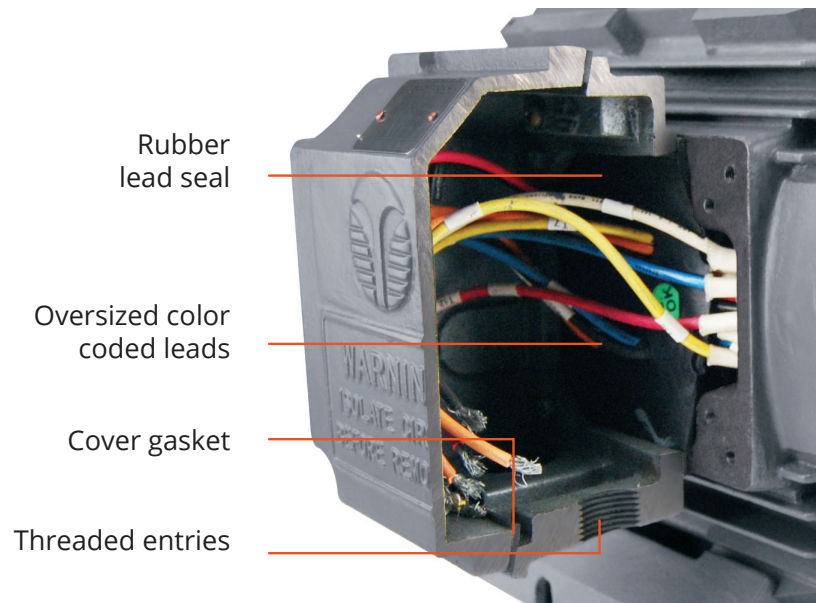
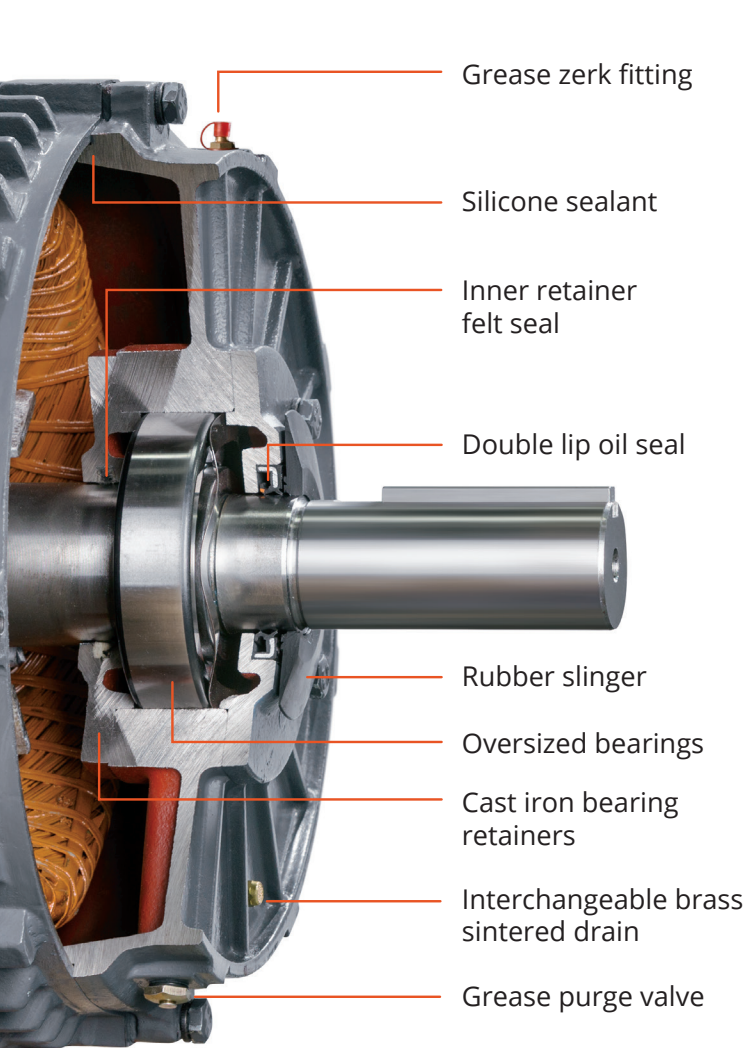
Looking at a Techtop electric motor, it would be understandable if you thought it was just another NEMA or IEC squirrel-cage induction motor.

But look a little deeper beneath its rugged surface and you'll realize that our electric motors are manufactured to a higher standard.

We incorporate features and benefits that harken back to a time when equipment was built to last, parts were readily available and details mattered.



# ENGINEERED TO ENDURE



What surrounds our motors is just as important as what's inside. The enclosures and seals on Techtop **TEFC systems meet severe duty IP55 standards.**



## INGRESS PROTECTION

Contaminants and moisture can lead to early motor failure. Techtop has gone the extra mile to engineer a system of seals, gaskets and drains that protect our bearings and internal components from damage due to foreign particles. Wherever your Techtop motor finds itself, it will be protected from the environment and ready for a long and productive life.

# DESIGNED TO PERFORM

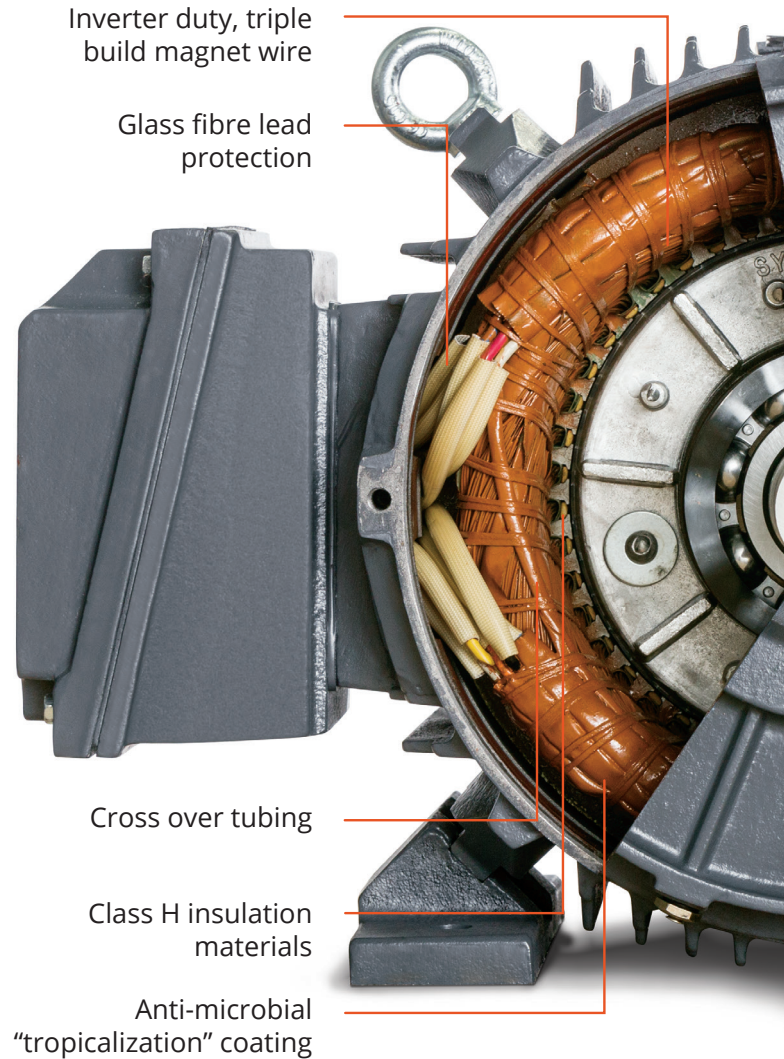


As variable frequency drives (VFD) become more common, it is important that motors are built to withstand the adverse effects of non-sinusoidal voltage sources and maximize the benefits of today's technology. Our efficient designs reduce temperatures when running at low speeds allowing for **15:1 constant torque turndowns**.

## LAP WOUND STATORS WITH VPI INSULATION

Lap Winding is a hand wound system ensuring precision placement of coils and phase insulation.

- Manually inserted coils generate less wire stress minimizing chance for first to last turn contact
- Our VPI process incorporates class H materials and provides a core penetration that eliminates any resin voids
- Motors exceed NEMA MG1 Part 31 standards

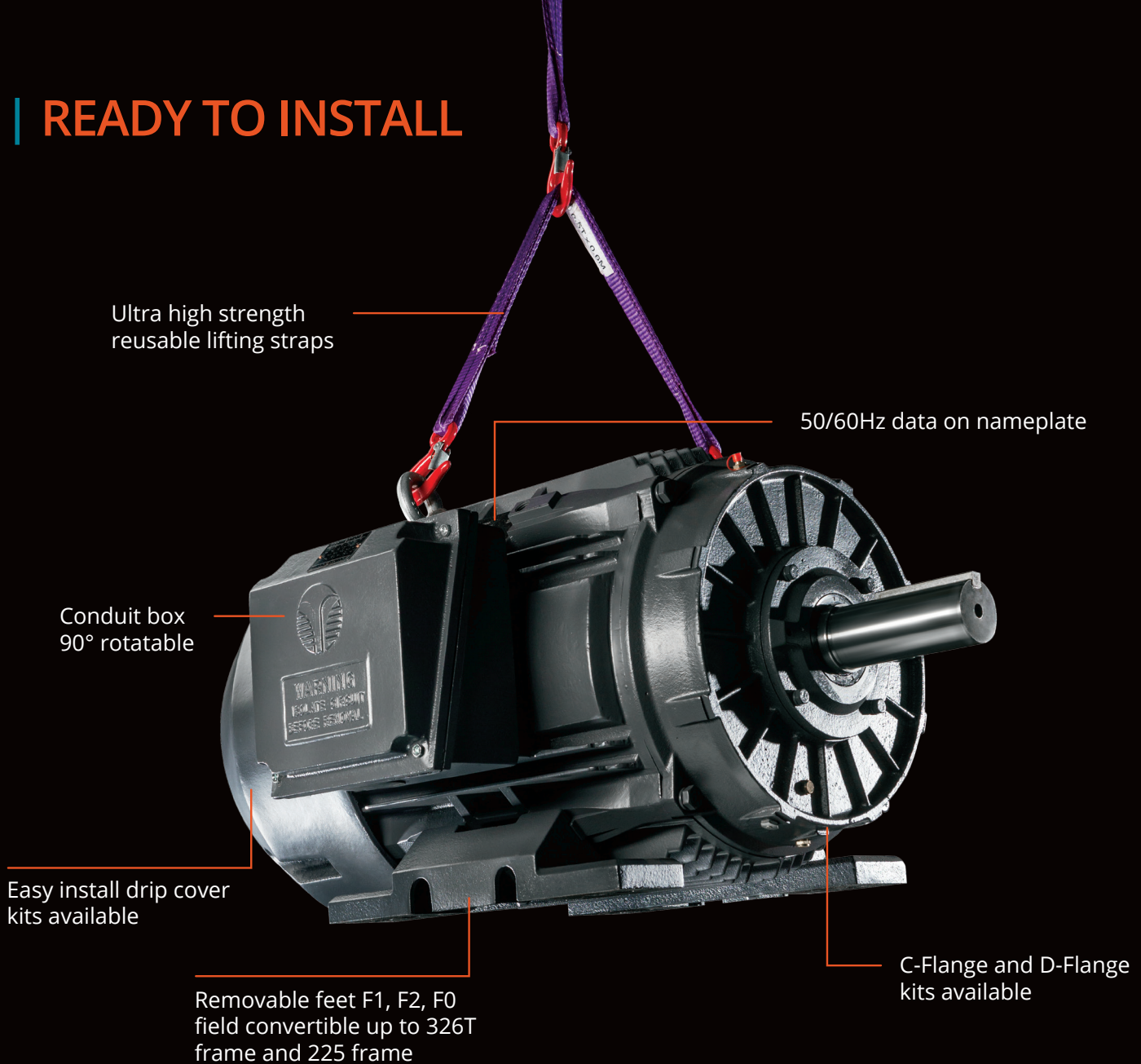


## INVERTER READY

All of our motors are handcrafted from the inside out, allowing for detailed work that stands up to today's variable speed demands. Each motor consists of a precision wound stator protected with class H materials and resin sealed in a Vacuum Pressure Impregnation process. The result? Cooler temperatures at low speeds and an impenetrable shield against inverter-fed voltage spikes.



## READY TO INSTALL

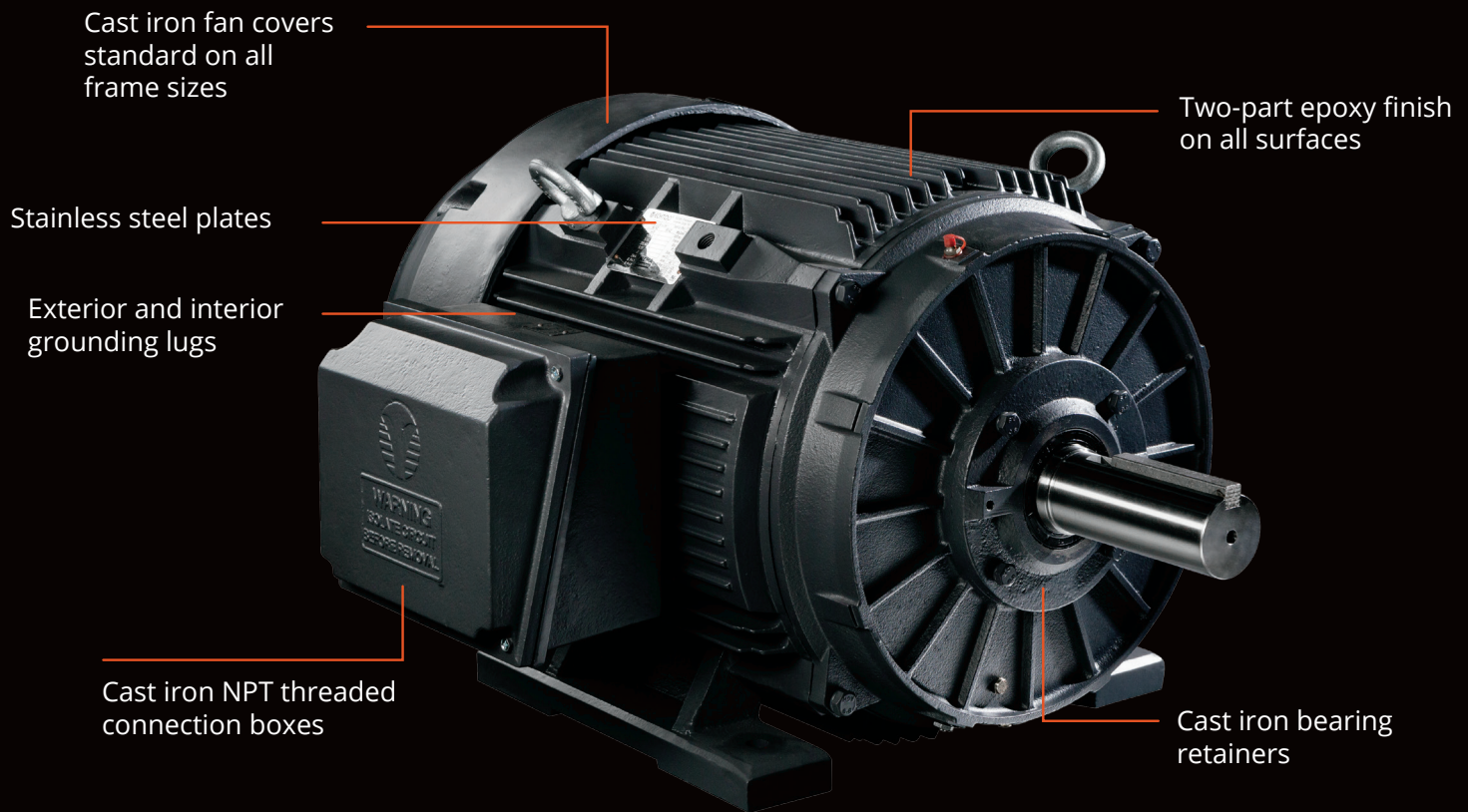


## VERSATILE AND ADAPTABLE

Techtop motors arrive ready to perform across a wide range of applications. Our removable foot configuration allows simple conversion to F1, F2, F0 and round body. Dual oversized cast iron bearing locks, inner retainer seals, face drains and bearing retention rings allow for mounting and operation in any position. Our standard winding tropicalization, inverter duty insulation system and IP55 rating allows the motor to enjoy a long operating life in almost any environment. Techtop is a true General Purpose motor with the features, benefits and performance you expect. Wherever you expect it.



# BUILT TO LAST



## ENVIRONMENT AND LOCATION RATINGS

- CSA Certified for Class I, Division II, Groups A, B, C and D
- Meets IEEE45 Marine Duty specifications

## RUGGED CONSTRUCTION

Meeting and exceeding industry standards for severe duty, Techtop cast iron motors are built to last. From our advanced bearing protection and greasing system, to dual oversized bearings and solid cast iron frame, our intelligent design is made for tough environments. Regardless of what you have going on outside, Techtop motors are fully protected and ready for a long, trouble free life.



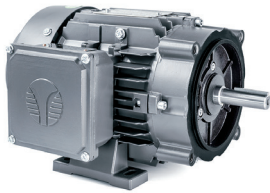
# PRODUCT RANGE



Techtop motors are designed and efficiently built to deliver premium performance with minimal environmental impact. Our GR3 products comply with current energy conservation laws implemented by the U.S. DOE and NRCAN and meet NEMA Premium® efficiency levels.

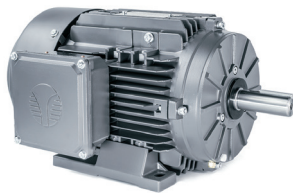
## NEMA

### GENERAL PURPOSE THREE PHASE



#### GR3 NEMA Premium 56C Aluminum Series

- 1/3 - 3HP
- 2 and 4 Pole
- 56C - 56HC
- TEFC



#### GR3 NEMA Premium Aluminum Series

- 1 - 15HP
- 2, 4 and 6 Pole
- 143T - 215T
- TEFC



#### GR3 NEMA Premium Cast Iron Series

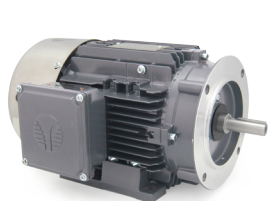
- 1 - 250HP
- 2, 4 and 6 Pole
- 143T - 449T
- TEFC



#### GR3 NEMA Premium Open Drip Proof Series

- 1 - 150HP
- 2 and 4 Pole
- 143T - 445T
- ODP

### COBRA MOTORS THREE PHASE



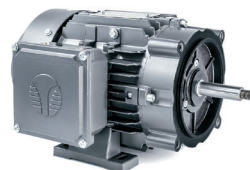
#### GR3 NEMA Premium 56C COBRA Line Series

- 1/3 - 3HP
- 2 and 4 Pole
- 56C & 56HC
- TEFC
- SS Fan Cover



#### GR3 NEMA Premium 56C COBRA Line Brake Series

- 1/3 - 3HP
- 2 and 4 Pole
- 56C & 56HC
- TEFC
- Shaft Grounding Brush



#### GR3 NEMA Premium 56J Pump Motor Series

- 1/3 - 3HP
- 2 and 4 Pole
- 56J - 56HJ
- TEFC
- 300 Series SS Shaft



#### GR3 NEMA Premium JM/JP Pump Motor Series

- 1 - 75HP
- 2, 4 and 6 Pole
- 143JM/JP - 365JM/JP
- TEFC
- 300 Series SS Shaft

### GENERAL PURPOSE SINGLE PHASE & FARM DUTY



#### Farm Duty Single Phase Rolled Steel Series

- 1 - 10HP
- 4 Pole
- 56 - 215T
- TEFC
- Manual Reset O/L



#### Auger Duty Single Phase Rolled Steel Series

- 1/2 - 1HP
- 4 Pole
- 56Y Frame
- TEFC
- Rear Shaft Adjust Knob

# DEFINITE PURPOSE

## CRUSHER DUTY THREE PHASE



- OX3 NEMA Premium High Torque Series**
- 75 - 250HP
  - 4 and 6 Pole
  - 365T - 449T Frame
  - TEFC

## IEEE 841 SEVERE DUTY THREE PHASE



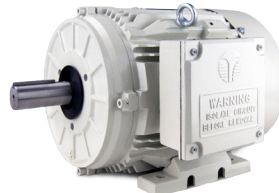
- BR3 NEMA Premium IEEE 841 Severe Series**
- 15 - 250HP
  - 2, 4 and 6 Pole
  - 254T - 449T Frame
  - TEFC

## WASHDOWN DUTY THREE PHASE



- WX3 NEMA Premium IP 56 Washdown Series**
- .33 - 15HP
  - 2, 4 and 6 Pole
  - 56C - 215T Frame
  - TEFC

## OIL PUMPER THREE PHASE

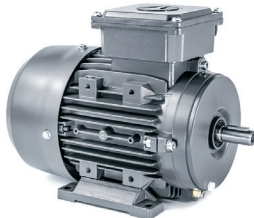


- BK3 NEMA Design D Ultra High Slip Series**
- 3 - 125HP
  - 6 Pole
  - 213T - 445T Frame
  - TEFC

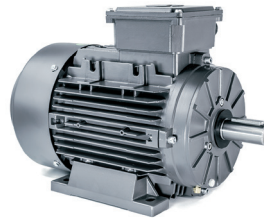
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# IEC

## GENERAL PURPOSE THREE PHASE



- IE1 Metric Aluminum Series**
- 0.09 - 1.5kW
  - 2, 4 and 6 Pole
  - 56 - 80 Frame
  - TEFC



- GR3 IE3 Metric Aluminum/Cast Iron Series**
- 0.75 - 150kW
  - 2, 4 and 6 Pole
  - 90S - 280M Frame
  - TEFC

INCREASE & DECREASE FLANGES AVAILABLE

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# ACCESSORIES

## PHASE CONVERTER ROTARY MOTOR



- PC3 NEMA Frame Phase Converter Motor**
- 3 - 60HP
  - 4 Pole
  - 182 - 364T Frame
  - TEFC

## BLOWER KITS



- Constant Velocity Fan Blower Kits**
- 140T - 440T Frame
  - 140T - 320T 115V 1Φ
  - 360T - 440T 230/460V 3Φ
  - Rolled Steel Construction

## | HERE, WHERE YOU NEED US

Techtop is about more than making great motors. We believe high-quality parts and service should also be readily available across North America and around the world.

To us, making our products available when and where you need them most is as important as being available to back it up with solid support and service.





### VANCOUVER

10,000 sq ft



### TORONTO

CANADA HQ  
21,000 sq ft



### MONTREAL

10,500 sq ft



### MONCTON

5,100 sq ft



### ATLANTA

USA HQ +  
24 stocking locations

UK

GERMANY

ITALY

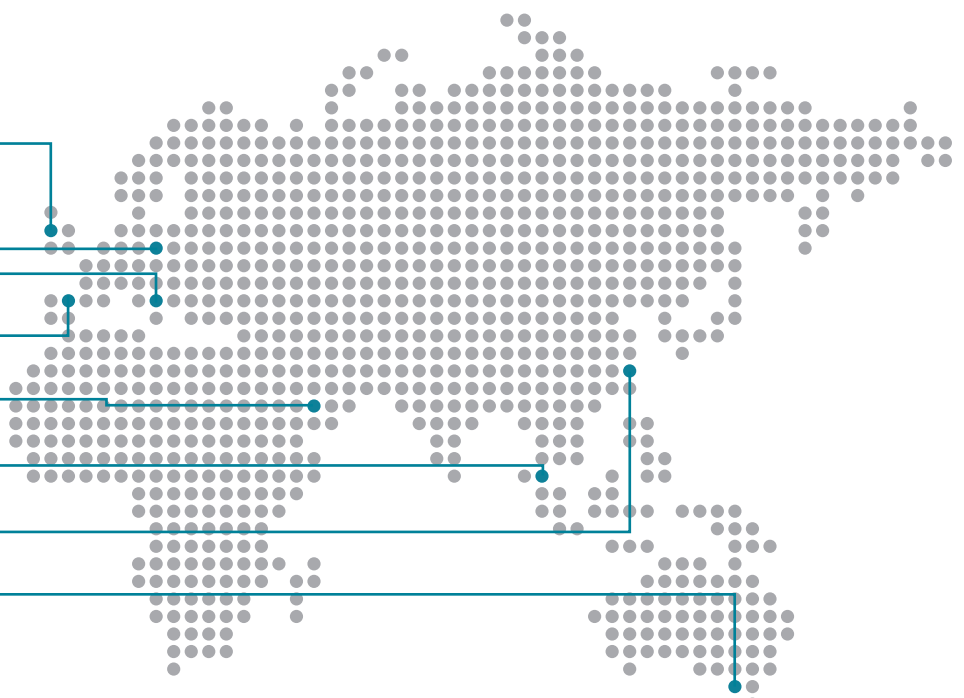
SPAIN

UAE

SINGAPORE

CHINA

AUSTRALIA





Efficient performance  
with minimal impact



Ingress protection  
for extended lifespan



Designed for the rigours  
of inverter applications



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