

ODE Bearing Construction



Techtop 6309

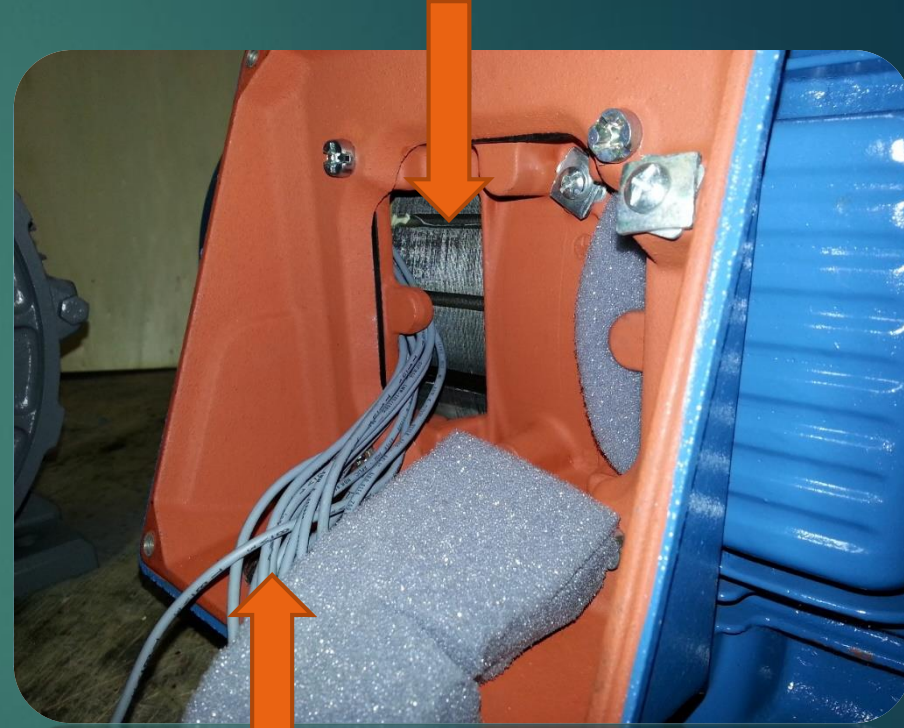
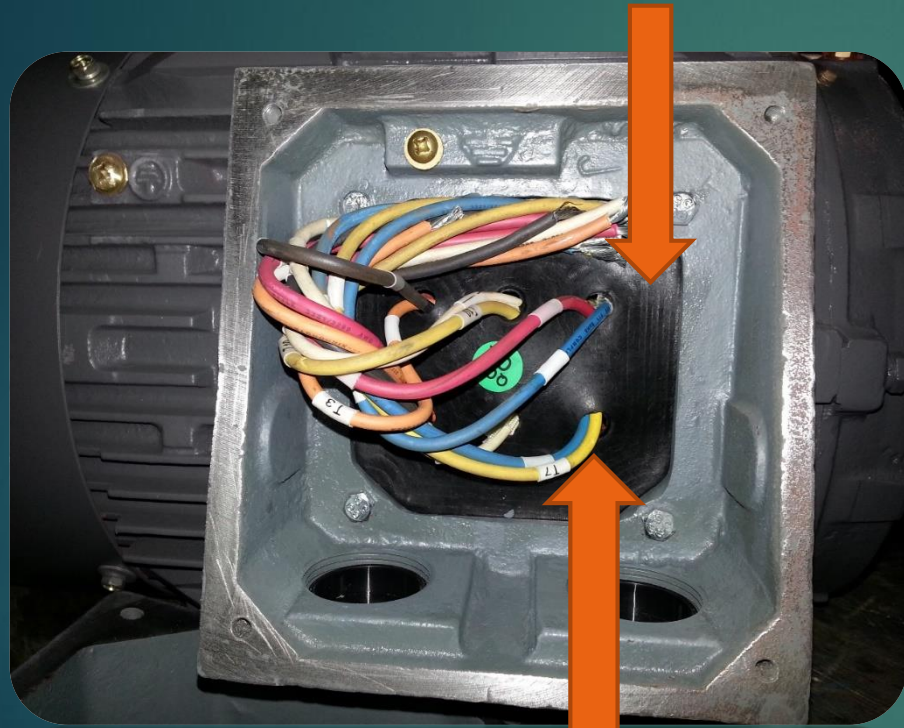
Competitor's 6209



Lead Wire & Nipple Seal

Nipple Seal (Protective Ingress Barrier)

No nipple seal or barrier equals no protection.



Color coded Techtop lead wire: AWG 12

Competitor's lead wire: AWG 16

Lead Protection ..



Techtop uses class H, silicone glass lead wire protection from interior of motor through the Conduit Box opening.



Silicone glass sleeving protects the leads from abrasion, which may lead to a detrimental short between lead wire and motor housing (if not protected as seen in this photo).



Non protected leads emerge from interior of motor across rough cast iron. This can & will become a chronic point of failure for this manufacturer.

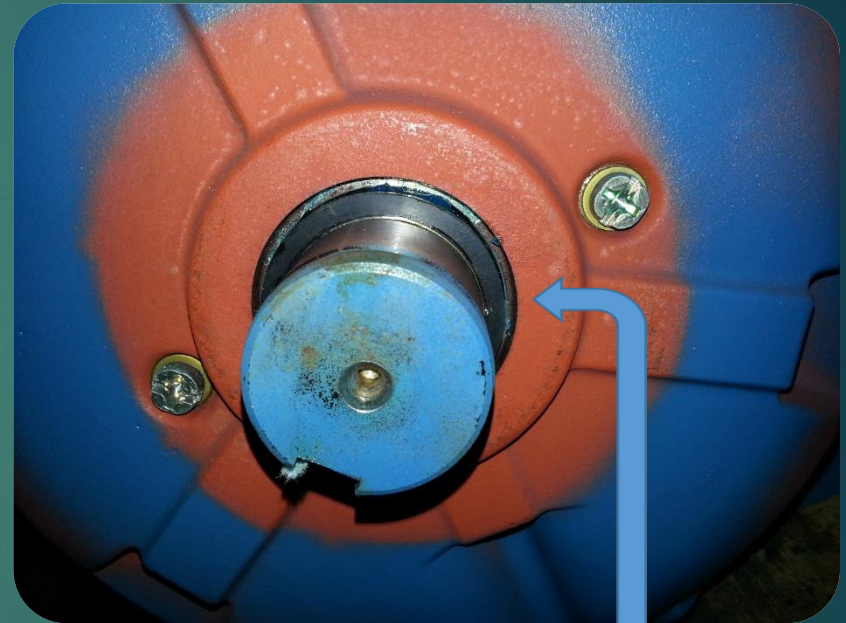


Seal Type..

Techtop uses a spring loaded, double lipped oil seal on DE & ODE shafts. Most of our competition uses a V-Ring (not a seal) on their motors.

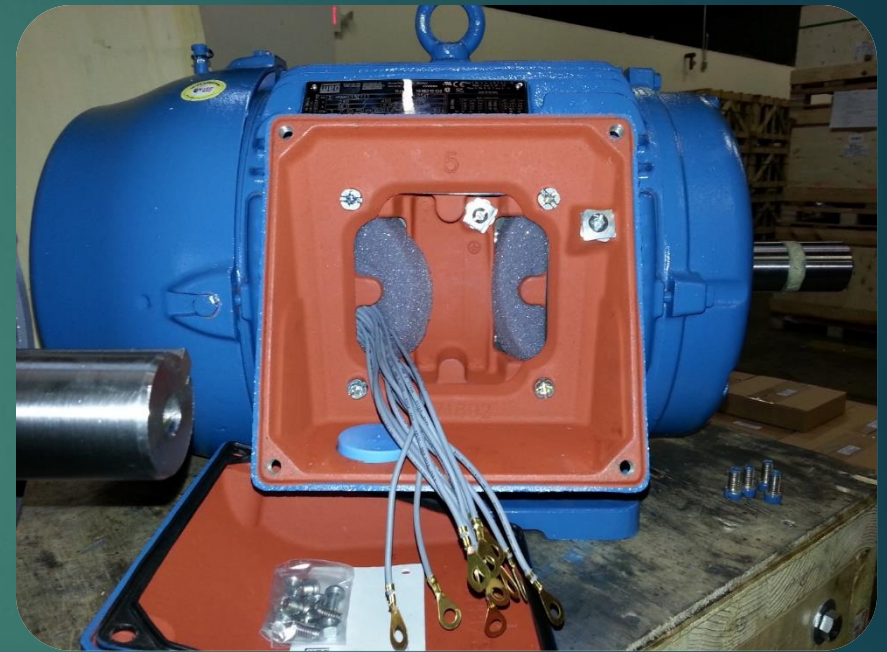
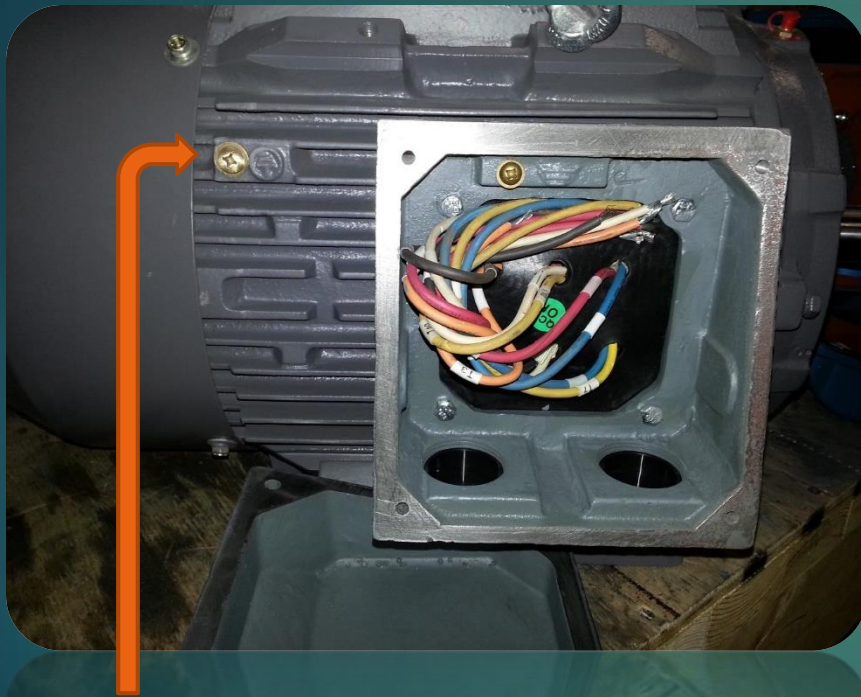


High quality, double lipped, spring tension oil seals on DE & ODE. These seals last for decades.



V-ring offers little to no protection especially after the motor has been operating for a short period of time.

External Grounding Lug..



Grounding lug on exterior body of motor and inside the conduit box.

Shaft slinger & shipping lock..



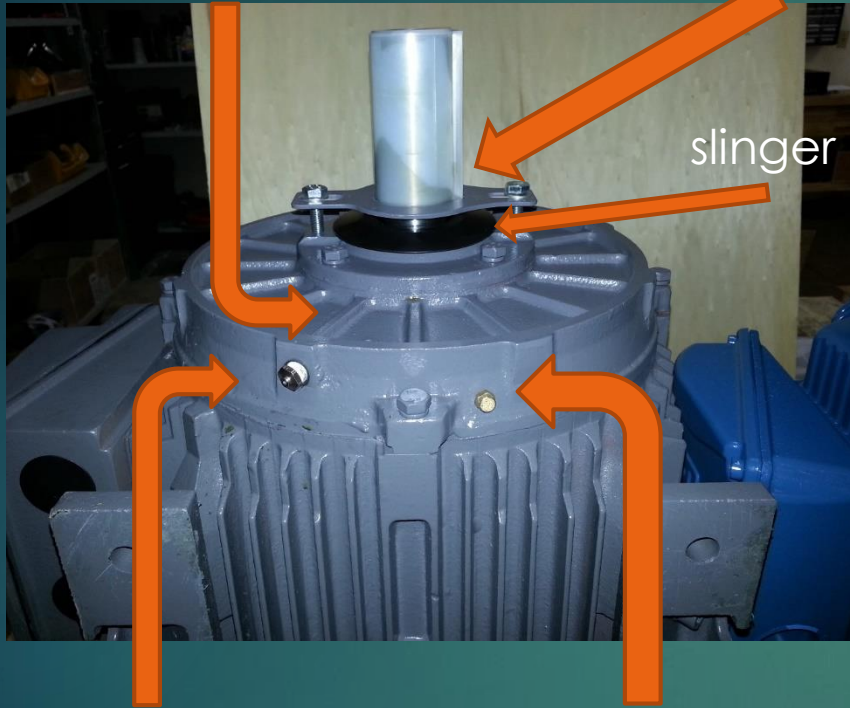
1 way brass condensation drains, 5 to 7 psi auto purge grease fitting & face drains...



Face drain,
DE & ODE

Shaft locking
mechanism

slinger



Auto purge, grease pressure relief valve. No manual intervention is required when re greasing.

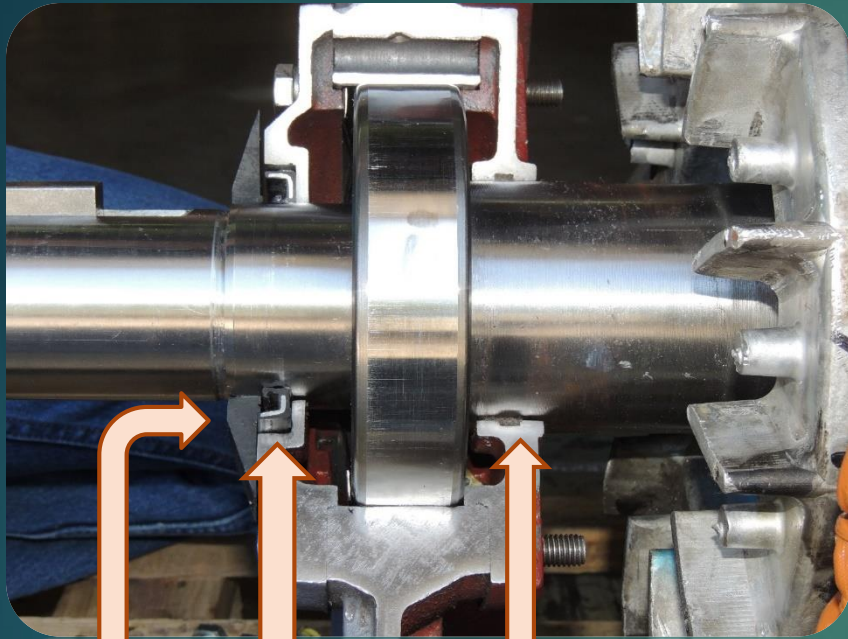
One way brass condensation drain. No manual intervention is required.



Rubber grease plug must be removed manually during re greasing.

Plug must be removed for drainage leaving motor open to ingress.

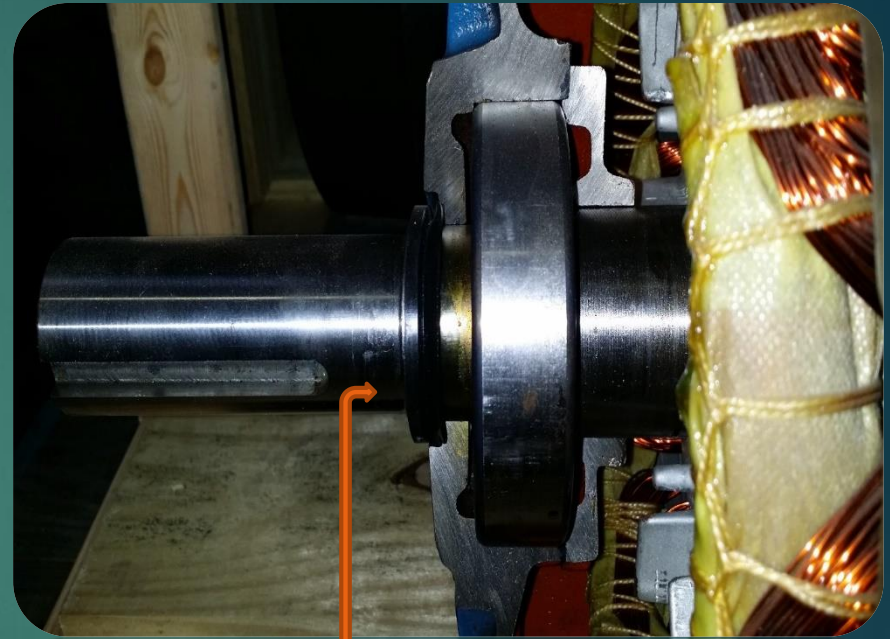
Bearing protection



Slinger.

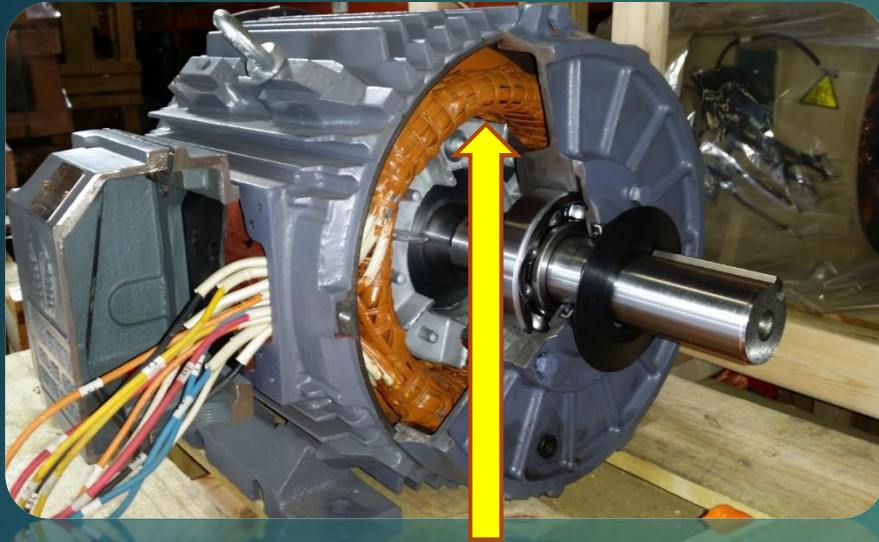
Double lipped, spring loaded oil seal.

Inner grease seal.

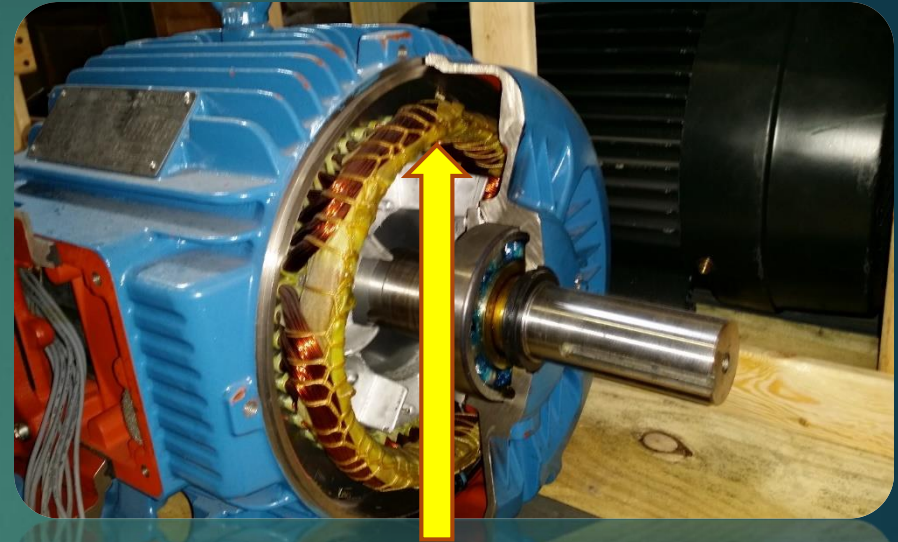


V ring only.

Varnish system & lap winding.



Techtop stator coils are lap wound & hand inserted. Each stator is then Vacuum Pressure Impregnated (VPI) and baked. After the VPI process is complete each stator is then tropicalized. The VPI process is superior to the dip and bake or trickle air dry processes our competitors use. All Techtop motors are VPI.



This competitor's stator coils are concentrically wound and machine inserted. Once the machine insertion is complete the coils are dipped and baked. No tropicalization is applied. The dip & bake process is inferior to the VPI process used by Techtop.



F1

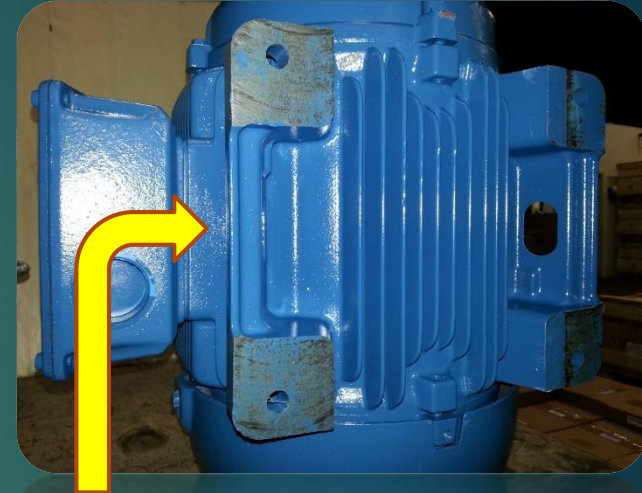


F2



F0

F3



Techtop's removable and rotatable foot design allows for easy field conversion from F1 to F2 or F3/F0.

This competitor has non removable feet which limits it's versatility.



Techtop's removable foot bolts.



Feature Overview

