90 Series End Mount

NEMA Frame Sizes 324TC/UC/TSC/USC through 405TC/UC/TSC/USC
Torque Ratings: 125 to 450 lb-ft

Direct “Drop-in” Replacement for Stearns® 82,000 Series

Specifications:
- Reaction Time: 20-25 milliseconds (release and set)
- AK: 12.5” Register
- AJ: 11” Bolt Circle
- Thermal Capacity: 20 HPS/MIN
- Maximum RPM: 1800
- Coil insulation: Class H Standard
- CSA File #LR13814 (IEEE nameplate standard)
- External paint: Red primer

Instructions & parts manual:
- NEMA 2 = BK4699
- NEMA 4 = BK4696

Design Features:
- RoHS compliant
- Torque adjustable for specific applications
- Splined hub
- Spring set, electrically released
- Lead wires for conduit connections
- Manual release, automatic reset
- High tensile studs standard

Enclosure Types:
- Dripproof Enclosure 90000-50
  - NEMA 2, CSA 2, IP41
  - Cast iron cover and bracket

- Waterproof/Dusttight Enclosure 90000-51
  - NEMA 4, CSA 4, IP56*
  - Cast iron cover and bracket
  - Also available without hub seal for non-TEFC applications, model 90000-52

*To obtain full IP56 protection, the customer shaft, hub bore, key and keyway’s mating surface(s) must be sealed to meet IP56. Considerations should be reviewed to appropriately seal mounting hardware as well. Contact factory for details and/or assistance.

Brake Model Number Definition

<table>
<thead>
<tr>
<th>Option Code Prefixes</th>
<th>Series</th>
<th>Specification Code</th>
<th>Voltage Suffix</th>
<th>Bore Suffix</th>
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Standard Voltages (three phase only):
- Suffix: Y, U, R, T, P
- Voltage:
  - Y: 110/220V, 50Hz
  - U: 230/460V, 60 Hz or 190/380V, 50 Hz
  - R: 115/230V, 60 Hz
  - T: 220/440V, 60 Hz
  - P: 575V, 60 Hz

Special voltages available.

Standard Hub Bore Sizes:
- Suffix: N, O, P, Q
- Size:
  - N: 1 7/8”
  - O: 2 1/8”
  - P: 2 3/8”
  - Q: 2 7/8”
- Keyway:
  - 1/2” x 1/4”
  - 1/2” x 1/4”
  - 5/8” x 5/16”
  - 3/4” x 3/8”

Special bore sizes available.

Available Options:
- Adapter to Larger Frame Size(s) A
- Reverse Adapter AB
- Foot Mounting Bracket F
- Heavy-Duty Rotating Friction Disc with Hardened Steel Hub H
- External Breather K
- Marine/Maritime Duty with MIL-SPEC paint per TT-P-645 & MIL-DTL-15090 M
- Marine/Maritime Duty N
- Tropical Protection P
- Internal Space Heater R
- Stainless Steel Stationary Disc S
- Through Shaft T
- Vertical Mounting
  - Vertical Over, or above motor VO
  - Vertical Under, or below motor VU
- Micro-Switch Warning XS

Refer to pages 53-58 for option descriptions & pricing.
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<tr>
<th>Torque lb-ft</th>
<th>Model #</th>
<th>Replacement for Stearns® Model</th>
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<th>Construction</th>
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*Specify requirement for Stearns replacement at time of order  
Stearns® is a registered trademark of Rexnord Corporation.

**OUTLINE DRAWING, NEMA 2 ENCLOSURE**

**OUTLINE DRAWING, NEMA 4 ENCLOSURE**