

# 90 Series End Mount

NEMA Frame Sizes 324TC through 405TC  
Torque Ratings: 450 lb. ft.

**Installation Instructions**  
**Parts List**  
**Wiring**  
**Troubleshooting**

RoHS Compliance upon request- can be constructed to meet the requirements of the Restriction of Hazardous Substances Directive



## Specifications:

Reaction Time: 20-25 milliseconds (release and set)  
AK: 12.5" Register  
AJ: 11" Bolt Circle  
Thermal Capacity: 30 HPS/MIN  
Maximum RPM: 1800

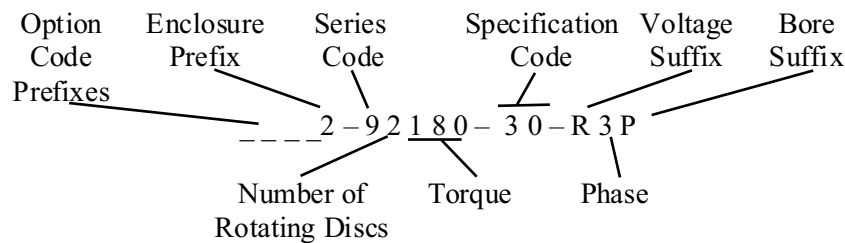
## Design Features:

Torque adjustable for specific applications  
Splined hub  
Coil insulation: Class H Standard  
Spring set, electrically released  
Lead wires for conduit connections  
Manual release, automatic reset  
CSA Approved File #LR13814

## Enclosure Types:

- ◆Dripproof Enclosure 2-90000-30
  - ◆NEMA 2, CSA 2, IP41
  - ◆Nodular iron cover and bracket
- ◆Waterproof/Dusttight Enclosure 4-90000-31  
(Model 6-90000-32 without hub seal for non-TEFC applications)
  - ◆NEMA 4, CSA 4, IP56
  - ◆Nodular iron cover and bracket

## Brake Model Number Definition



Standard Voltages (three phase only):	
Suffix	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	Size	Keyway
O	2 1/8"	1/2" x 1/4"
P	2 3/8"	5/8" x 5/16"
Q	2 7/8"	3/4" x 3/8"

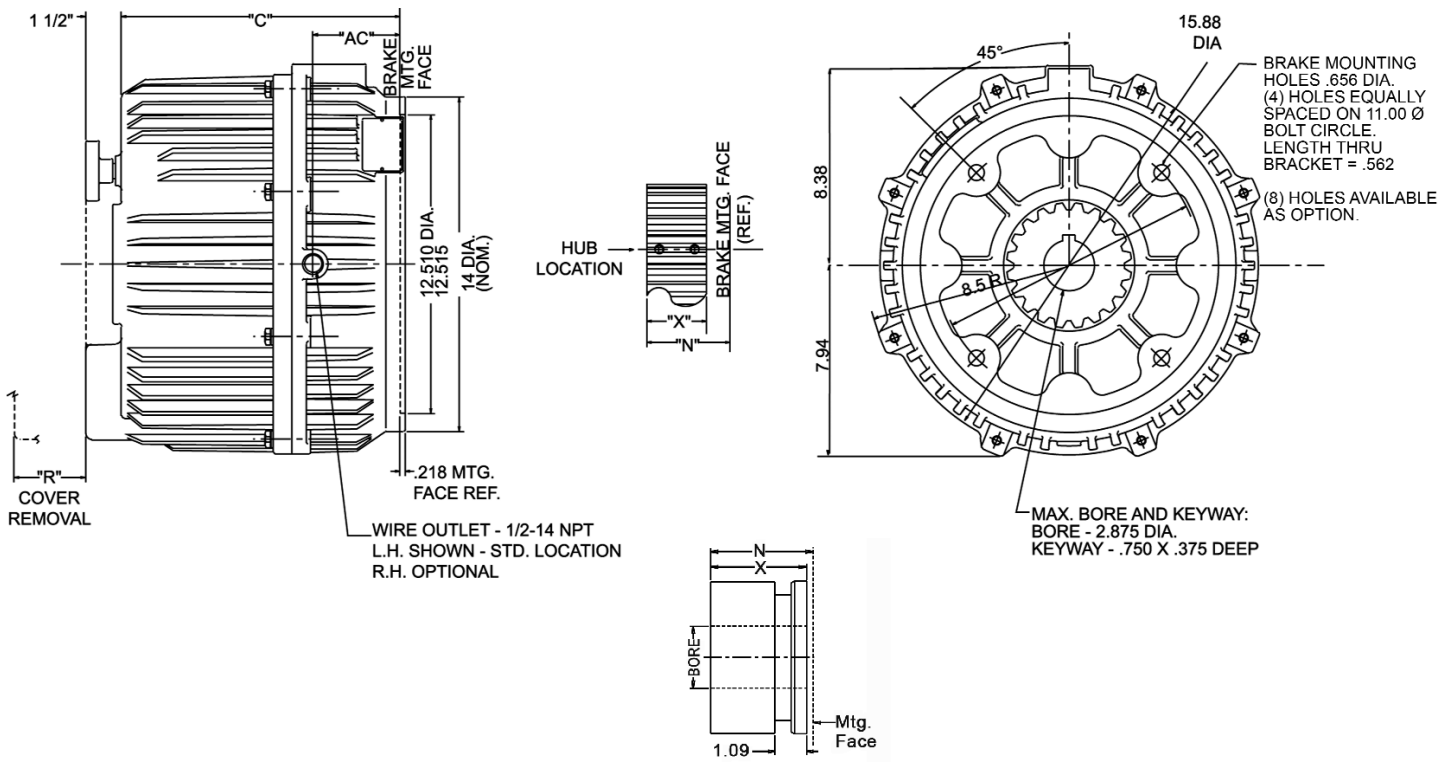
Special bore sizes available.

Available Options:	Prefix
Adapter to Larger Frame Size(s)	A
Reverse Adapter	AB
Foot Mounting Bracket	F
External Breather	K
Marine Duty (IEEE 45, CFR110.10-1)	M
Harsh Environment Protection	N
Tropical Protection	P
Internal Space Heater	R
Stainless Steel Stationary Disc	S
Through Shaft	T

Refer to pages 32-36 for option descriptions and pricing.

Torque lb-ft	Model #	Instructions and Parts Manual	Enclosure	Construction	Wt. Lbs.	Inertia Wk <sup>2</sup> Lb.Ft. <sup>2</sup>	Dimensions					List Price
							R	C	N	X	AC	
450	2-95450-30	BK4690	NEMA 2	Nodular Iron	250	2.300	7.88	11.44	5.00	3.69	3.65	\$8,700
	4-95450-31	BK4690	NEMA 4	Nodular Iron	255	2.400	7.88	11.50	5.00	4.78	3.65	\$9,700

**SEE PAGES 21-22 FOR 125 THROUGH 360 LB-FT BRAKES**



**NEMA 4 HUB WITH SEAL**