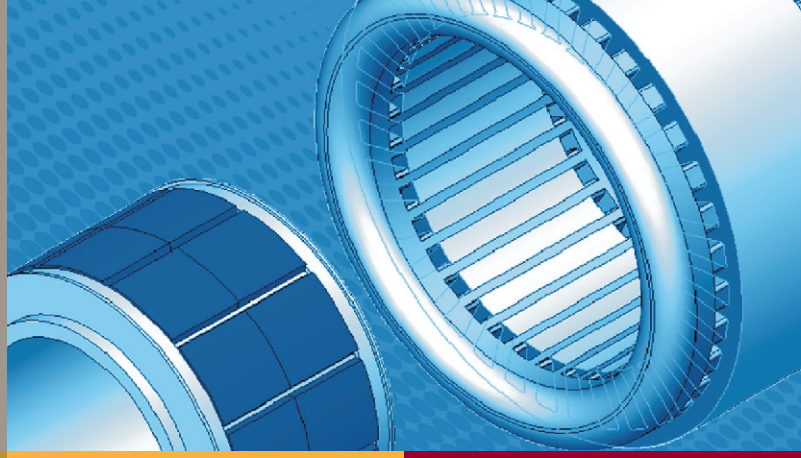
AME & AFE BUILT-IN SERVO MOTORS

Moog's built-in servo motors offer great flexibility and a wide range of customizable options



The AME (6 poles) and AFE (12 poles) servo motors use the same active parts (rotor and stator) as the AM and AF series and feature entirely customizable motor components, such as the motor frame, bearings, feedback sensors, shafts and special cooling (see data sheet for standard dimensions).
The performance of the AME and AFE built-in motors depends on the selected cooling methods and the operating environment. Therefore, their specific parameters will vary and are accurately calculated based on each end user's specific application.

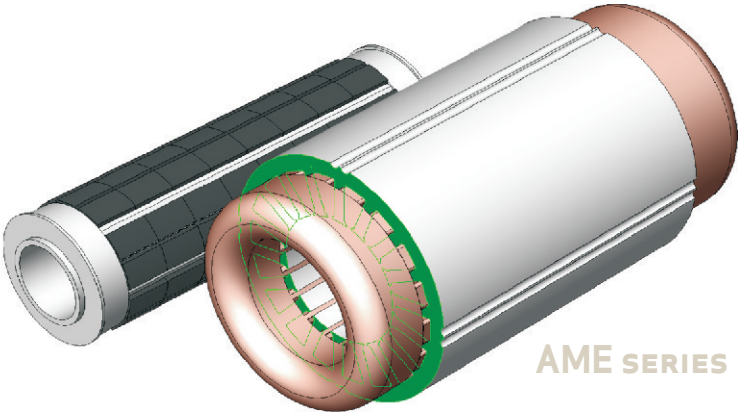
Moog engineers can design custom-made solutions according to specification requirements given by the customer, such as windings designed for different voltage constants (from about 1 to 500 V.min/1,000) or for different intermediate circuit voltages (12 V, 24 V, 48 V, 330 V, 560 V and 700 V DC). Additional modifications include special rotors for high speed applications with multiple bandages, different active lengths and non-standard mechanical interfaces.

BENEFITS

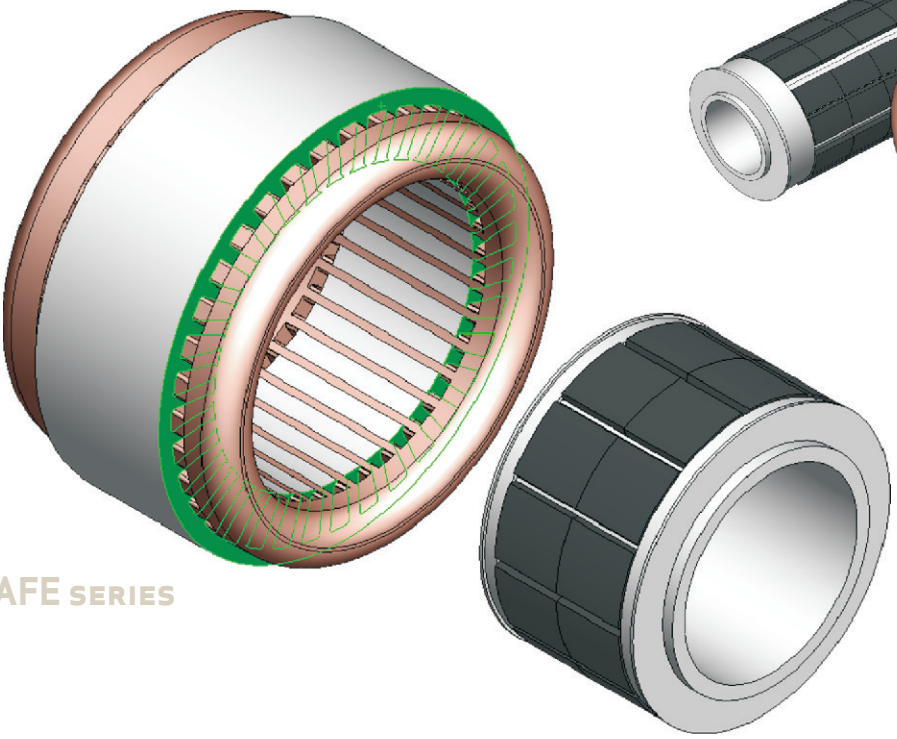
- Compact dimensions
- High power density
- Highly customizable

TYPICAL APPLICATIONS

- Industrial automation
- Machine tooling
- E-mobility (small boat propulsion, custom e-cars, etc.)
- Aerospace applications
- Measurement equipment



AME SERIES



AFE SERIES

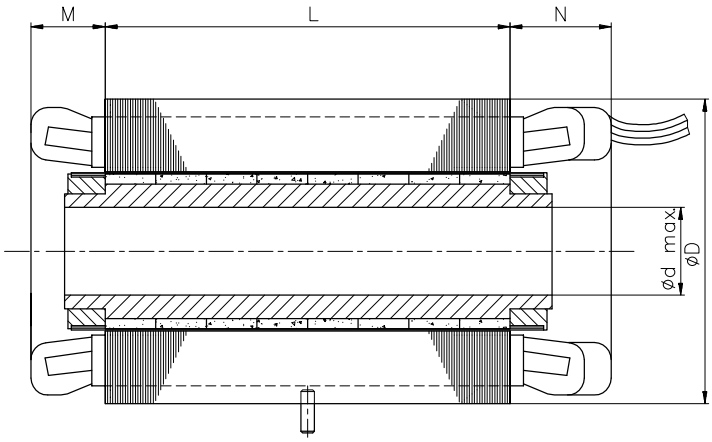
WHAT MOVES YOUR WORLD

MOOG

DIMENSIONAL DETAILS

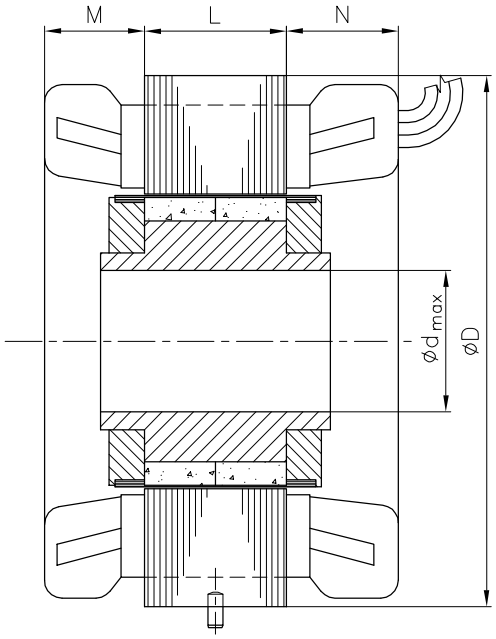
AME SERIES

TYPE	d_{max}	D	L	M	N
	mm				
AME254	10	44.3k7	30	15	18
AME256			45		
AME258			75		
AME404	22	68.3k7	36	16	20
AME406			72		
AME408			99		
AME504	26	90.5k7	75	22	30
AME506			120		
AME508			165		
AME713	36	126k7	75	35	45
AME714			125		
AME716			175		
AME718			225		
AME904	58	180 $^{-0.01}_{-0.05}$	125	45	60
AME906			200		



AFE SERIES

TYPE	d_{max}	D	L	M	N
	mm				
AFE502	30	90h7	25	17	19
AFE503			50		
AFE504			75		
AFE632	50	120h7	25	18	20
AFE633			50		
AFE634			75		
AFE802	70	150h7	25	20	23
AFE803			50		
AFE804			75		
AFE1002	80	180h7	25	25	30
AFE1003			50		
AFE1004			75		



Note:
The technical characteristics of the AME and AFE frameless servo motors depend on the chosen cooling method.
We recommend verifying these parameters with Moog, based on your application and cooling conditions.

E-mail: info-vsm@moog.com

www.moog.com/industrial

Built-In Servo Motors, Moog Brno, Czech Republic
Rev. January 2020

This technical data is based on current available information and is subject to change at any time. Specifications for specific systems or applications may vary.

MOOG