

BALDOR SUPER-E MOTORS

(575 Volt)

Premium Efficiency Inside and Out

The Baldor Super-E® premium efficient motor is standard in FANWALL® applications. Motors are balanced to vibration levels at half the allowable NEMA limits. The totally enclosed air over (TEAO) design runs quiet, is very compact and is a superior enclosure for dirty or wet environments.

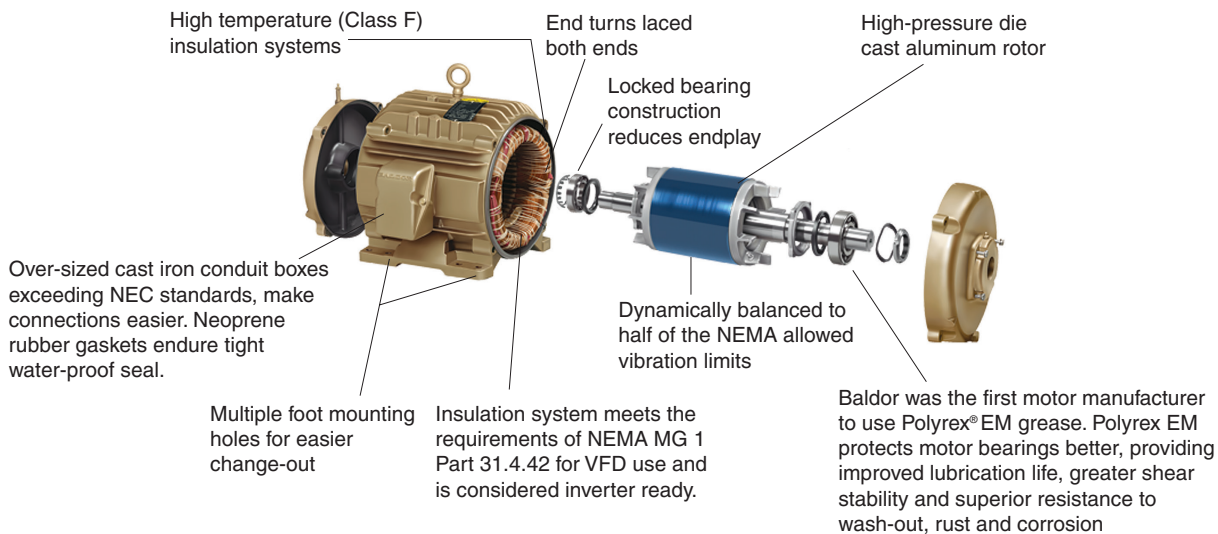
The insulation system in a motor is designed to handle the sum of three temperatures: an ambient design temperature 40° C / 104° F; the temperature rise in the motor under load; and a 10° C hot spot allowance. For example, a NEMA Class B rated motor can have a maximum motor temperature rise during operation of 80° C. This results in a total motor temperature rating of 130° C (40° C ambient temp. + 80° C motor temp. rise + 10° C hot spot temp.). A NEMA Class F rating allows for a motor temperature rise of 105° C yielding a total motor temperature rating of 155° C. A NEMA Class H ratings allows for a 125° C motor temperature rise for a total motor temperature rating of 180° C. Additionally, NEMA allows the motor temperature rating limit to increase by 10° C for motors rated with a 1.15 service factor.

Testing: Through actual testing of Baldor TEAO motors in FANWALL applications, Baldor and Nortek Air Solutions Huntair™ have determined that the temperature rise in these motors is actually very low – in some cases only 40° C. This is well below the 125° C temperature rise for the Class F rating, and adds to the safety margin over the actual ambient temperature. The increased airflow over the motor fins, produced by the Coplanar Silencer® design in FANWALL systems, helps to keep the motor windings cooler and well below a Class F 180° C (356° F) rating. This unique cooling design is what makes incremental horsepower motors possible.



Incremental horsepower motors carry a full factory warranty, maintain a 1.15 service factor, are constructed for up to 120 Hz continuous operation, and are readily available from Baldor or Nortek Air Solutions Huntair stock inventory.

Frame mounting dimensions are industry standard for readily available replacement. The motors utilize an insulation system which meets the requirements of NEMA MG1 Part 31.4.4.2 for VFD use, and is considered inverter ready. The motors are lubricated with Polyrex® EM Polyurea grease. This lubricant provides a life of up to four times that of other polyurea greases. Cast iron motor construction is rigid, durable and quiet. Motors include hybrid ceramic bearings with ceramic balls that help to reduce damage caused by electrical erosion. The bearings provide maximum protection from electric arcing and lower overall cost of ownership. Locked bearing construction reduces endplay and provides a stable bearing support system.



BALDOR TEAO MOTORS FOR FANWALL® SYSTEMS

1800 RPM Motors								
HP	Nortek Part #	Baldor Spec #	RPM @ 60Hz with Slip	Frame	Eff	FLA		Max Hz
						575V	Lbs	
1	NAS000039207	05H378X064G1	1765	143T	87.5	1.2	58	120
1.5	NAS000040076	05H378X250G1	1765		86.5	1.8	61	110
2	NAS000039213	05H378X148G1	1750	145T	86.5	2.3	62	100
2.5			1740		86.5	2.8		90
3	NAS000039215	06K103X319G1	1755	182T	89.5	3.3	105	120
3.5			1750		89.5	3.7		105
4			1740		88.5	4.1		90
4.5			1730		88.5	4.6		75
5	NAS000039216	06K103X429G1	1750	184T	89.5	5.6	115	120
5.5			1750		89.5	6		110
6			1740		88.5	6.4		100
6.5			1735		88.5	6.8		90
7			1735		86.5	7.3		75
7.5	NAS000039217	07D731X817G1	1770	213T	91.7	7.5	198	110
8			1765		91.7	8		100
8.5			1765		91	8.4		95
9			1760		91	8.8		85
9.5			1760		91	9.2		75
10	NAS000039218	07D731X493G1	1760	215T	92.4	10	231	110
10.5			1760		92.4	10.4		100
11			1760		92.4	10.8		95
11.5			1755		91.7	11.2		90
12			1755		91.7	11.7		75
15	NAS000039219	09-0000-3483	1760	254T	92.4	14.1	268	110

BALDOR TEAO MOTORS FOR FANWALL® SYSTEMS

3600 RPM Motors								
HP	Nortek Part #	Baldor Spec #	RPM @ 60Hz with Slip	Frame	Eff	FLA		Max Hz
						575V	Lbs	
1	NAS000039229	05H378W060G1	3450	143T	84.0	1.1	53	75
1.5	NAS000040077	05H378W061G1	3450		85.5	1.6	58	
2	NAS000039230	05H378W062G1	3500	145T	86.5	2.0	64	
2.5			3475		86.5	2.5		
3	NAS000039231	06K103W895G1	3500	182T	89.5	2.8	95	
3.5			3490		89.5	3.2		
4			3475		89.5	3.6		
4.5			3460		88.5	4.0		
5	NAS000039232	06K103X119G1	3490	184T	90.2	4.6	105	
5.5			3480		90.2	5.1		
6			3470		90.2	5.5		
6.5			3460		89.5	5.9		
7			3450		89.5	6.3		
7.5	NAS000039233	07D731W385G1	3525	213T	91.0	6.9	191	
8			3515		91.0	7.1		
8.5			3510		91.7	7.5		
9			3500		91.7	7.9		
9.5			3500		91.7	8.3		
10	NAS000039234	07D731Y788G1	3500	215T	92.4	8.9	215	
10.5			3500		91.7	9.3		
11			3500		91.0	9.7		
11.5			3475		91.0	10.0		
12			3475		91.0	10.5		
15	NAS000039236	09-0000-3482	3525	254T	91.7	13.8	239	



www.nortekair.com

Content created November 2021.

Specifications and illustrations subject to change
without notice and without incurring obligation.

FANWALL® and Coplanar Silencer® are registered trademarks and
Nortek Air Solutions Huntair™ is a trademark of Nortek Air Solutions, LLC.

All other trademarks are the property of their respective organizations.

© Nortek Air Solutions, LLC 2021. All Rights Reserved.

748F-1221 (Replaces 748F-0621)

