

BALDOR SUPER-E MOTORS

(208, 230, 460 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.

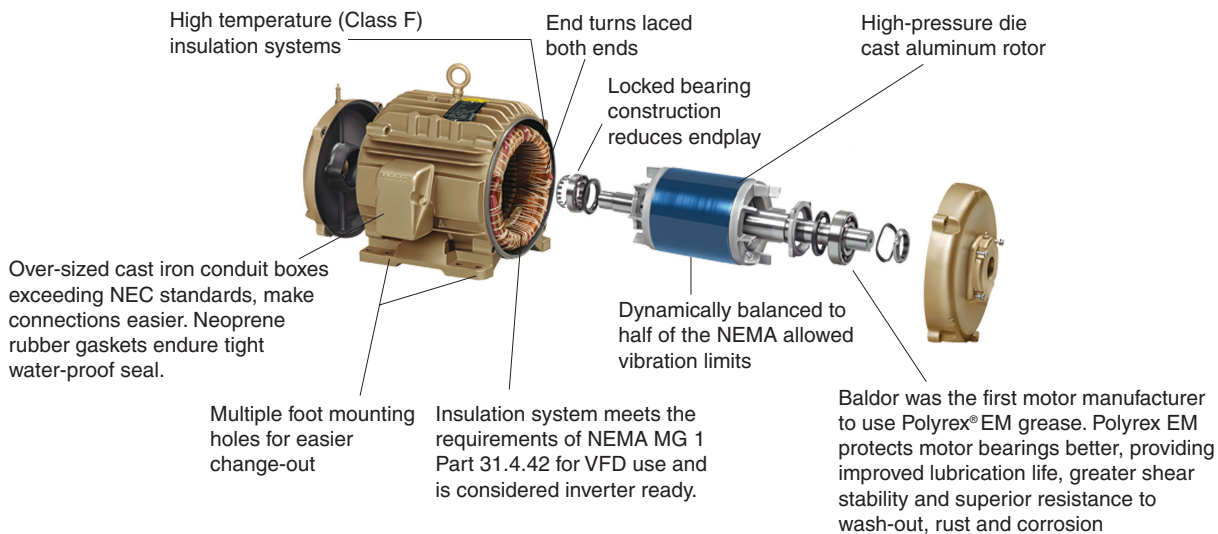
The insulation system in a motor is designed to handle the sum of three temperatures: an ambient design temperature 40° C / 104° F; the temperature rise in the motor under load; and a 10° C hot spot allowance. For example, a NEMA Class B rated motor can have a maximum motor temperature rise during operation 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 120Hz 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 a hybrid ceramic bearing with a ceramic ball that helps to reduce damage caused by electrical erosion. The bearing provides 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			Lbs	Max Hz
						460V	230V	208V		
1	NAS000037513	05H189W052G1	1750	143T	86.5	1.4	2.8	2.9	58	120
1.5			1725		85.9	1.9	3.8	4		110
2	NAS000037686	05H189W649G1	1725	145T	86.5	2.7	5.4	5.7	64	100
2.5			1725		85.5	3.2	6.4	6.8		90
3	NAS000037719	06K933W356G1	1760	182T	89.5	4	8	8.4	100	120
3.5			1750		87.5	4.7	9.4	9.8		105
4			1740		86.5	5	10	11		90
4.5			1725		84	5.9	11.8	12		75
5	NAS000037721	06K933W567G1	1750	184T	90.2	6.5	13	13.7	120	120
5.5			1750		88.5	7	14	14.7		110
6			1740		88.5	7.5	15	15.8		100
6.5			1735		87.5	8	16	16.8		90
7			1735		86.5	8.5	17	18.5		75
7.5	NAS000037732	07D097X790G1	1770	213T	91.7	9.5	19	19.8	198	110
8			1765		91	10	20	21		100
8.5			1765		91	10.5	21	22		95
9			1760		90.2	11	22	23.6		85
9.5			1755		89.5	11.5	23	25		75
10	NAS000037734	07D097X776G1	1760	215T	92.4	12.5	25	26.3	231	110
10.5			1760		92.4	12.8	25.6	28		100
11			1760		92.4	13.4	26.8	29		95
11.5			1755		91.7	13.9	27.8	30		90
12			1755		91.7	14.5	29	31		75
15	NAS000037753	09M871Z910G1	1765	254T	92.4	18.1	36.2	38	268	110

BALDOR TEAO MOTORS FOR FANWALL® SYSTEMS

3600 RPM Motors										
HP	Nortek Part #	Baldor Spec #	RPM @ 60Hz with Slip	Frame	Eff	FLA			Lbs	Max Hz
						460V	230V	208V		
1	NAS000037537	05H189W546G1	3450	143T	84.0	1.4	2.8	3.0	53	75
1.5			3420		85.5	1.9	3.8	4.1		
2	NAS000037713	05H189W115G1	3450	145T	86.5	2.5	5.0	5.4	64	
2.5			3450		87.1	3.0	6.0	6.7		
3	NAS000037720	06K933W727G1	3500	182T	89.5	3.5	7.0	7.5	95	
3.5			3490		89.9	4.0	8.0	8.6		
4			3475		89.5	4.5	9.0	9.9		
4.5			3460		88.5	5.0	10.0	11.0		
5	NAS000037728	06K933W730G1	3490	184T	90.2	5.7	11.4	12.0	105	
5.5			3480		90.2	6.3	12.6	13.0		
6			3470		90.2	6.8	13.6	15.0		
6.5			3460		89.5	7.4	14.8	16.0		
7			3450		89.5	7.9	15.8	17.0		
7.5	NAS000037733	07M778W280G2	3525	213T	91.0	8.6	17.2	19.0	173	
8			3515		91.0	9.1	18.2	20.0		
8.5			3500		91.0	9.6	19.2	21.0		
9			3500		91.0	10.1	20.2	22.0		
9.5			3475		91.0	10.6	21.2	23.0		
10	NAS000037735	07D097W723G1	3500	215T	91.7	11.2	22.4	24.0	203	
10.5			3500		91.7	11.6	23.2	25.0		
11			3500		91.7	12.1	24.2	26.0		
11.5			3500		91.7	12.6	25.2	28.0		
12			3475		91.7	13.1	26.2	29.0		
15	NAS000037754	09M871Y599G1	3525	254T	91.7	17.2	34.4	36.5	239	



www.nortekair.com

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