

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 keyless shaft combined with a compression fan mounting system allows for easier assembly and maintenance and contributes to a more balanced system.

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 F 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.

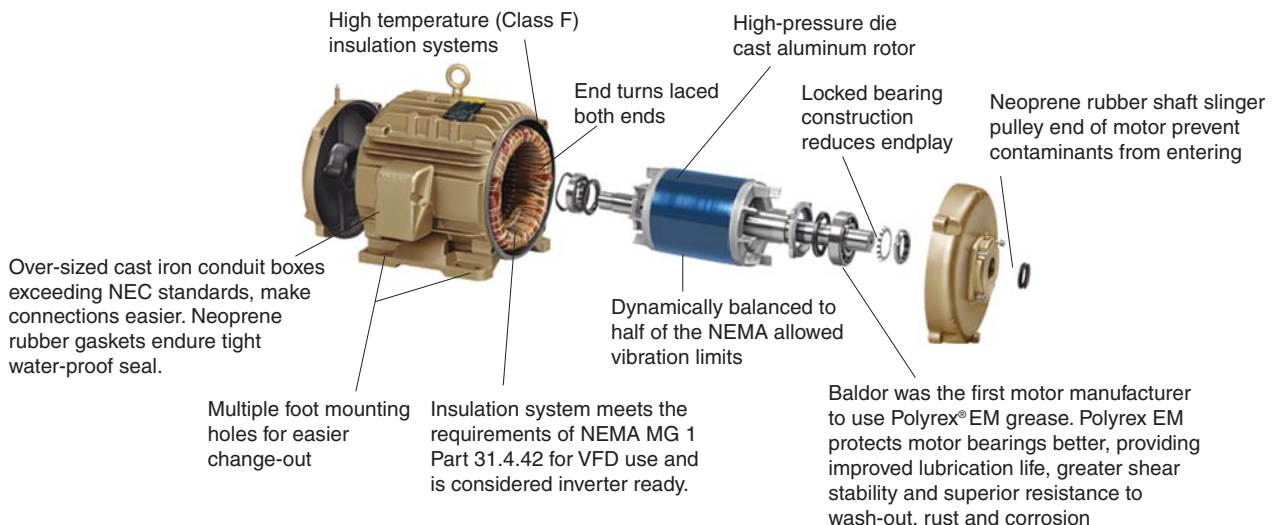
Testing: Through actual testing of Baldor TEAO motors in FANWALL applications, Baldor and Nortek Air Solutions Huntair™ have determined that the temperature rise in these motors is actually very low – in some cases only 40° C. This is well below the 125° C temperature rise for the Class F rating, and 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 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 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	Part #	Baldor Spec #	RPM @ 60Hz with slip	FRAME	EFF	FLA			LBS	Max Hz
						460V	230V	208V		
1	200.0671	05G660W052G2	1750	143T	86.5	1.4	2.8	2.9	45	120
1.5	200.0703	05G660W659G4	1740	145T	86.5	2.0	4.0	4.2	54	110
2	200.0672	05G660W649G3	1725		86.5	2.7	5.4	5.7	58	100
2.5			1715		3.2	6.4	6.8	90		
3	200.0673	06K111W356G5	1760	182T	89.5	4.0	8.0	8.4	85	120
3.5			1750		87.5	4.7	9.4	9.8		105
4			1740		86.5	5.0	10.0	11.0		90
4.5			1725		84.0	5.9	11.8	12.0		75
5	200.0674	06K111W567G9	1750	184T	90.2	6.5	13.0	13.7	150	120
5.5			1750		88.5	7.0	14.0	14.7		110
6			1740		88.5	7.5	15.0	15.8		100
6.5			1735		87.5	8.0	16.0	16.8		90
7			1725		86.5	8.5	17.0	17.9		75
7.5	200.0675	07M267X790G6	1770	213T	91.7	9.5	19.0	19.8	147	110
8			1765		91.0	10.0	20.0	21.0		100
8.5			1765		91.0	10.5	21.0	22.0		95
9			1760		90.2	11.0	22.0	23.6		85
9.5			1755		89.5	11.5	23.0	25.0		75
10	200.0676	07M267X776G6	1760	215T	92.4	12.5	25.0	26.3	169	110
10.5			1760		92.4	12.8	25.6	28.0		100
11			1760		92.4	13.4	26.8	29.0		95
11.5			1755		91.7	13.9	27.8	30.0		90
12			1755		91.7	14.5	29.0	31.0		75
15	200.0705	09K443Z910G1	1765	254T	92.4	18.1	36.2	38.0	238	110

BALDOR TEAO MOTORS FOR FANWALL® SYSTEMS

3600 RPM Motors										
HP	Ventrol Part #	Baldor Spec #	RPM @ 60Hz with slip	FRAME	EFF	FLA			LBS	Max Hz
						460V	230V	208V		
1	200.0677	05G660W546G2	3450	143T	84.0	1.4	2.8	3.0	43	75
1.5	200.0704	05G660W116G2	3450		85.5	2.0	4.0	4.3	50	75
2	200.0678	05G660W115G3	3450		86.5	2.5	5.0	5.4	56	75
2.5			3450		86.5	3.1	6.2	6.7		75
3	200.0679	06K111W727G5	3500	182T	89.5	3.5	7.0	7.5	81	75
3.5			3490		89.5	4.0	8.0	8.6		75
4			3475		89.5	4.5	9.0	9.9		75
4.5			3460		88.5	5.0	10.0	11.0		75
5	200.0680	06K111W730G6	3490	184T	90.2	5.7	11.4	12.2	92	75
5.5			3480		90.2	6.3	12.6	13.0		75
6			3470		90.2	6.8	13.6	15.0		75
6.5			3460		89.5	7.4	14.8	16.0		75
7			3450		89.5	7.9	15.8	17.0		75
7.5	200.0681	07M267W280G4	3525	213T	91.0	8.6	17.2	19.0	154	75
8			3515		91.0	9.1	18.2	20.0		75
8.5			3510		91.0	9.6	19.2	21.0		75
9			3500		91.0	10.1	20.2	22.0		75
9.5			3500		91.0	10.6	21.2	23.0		75
10	200.0682	07M267W723G6	3500	215T	91.7	11.2	22.4	24.4	238	75
10.5			3500		91.7	11.6	23.2	25.0		75
11			3500		91.5	12.1	24.2	26.0		75
11.5			3500		91.5	12.6	25.2	28.0		75
12			3450		91.5	13.1	26.2	29.0		75
15	200.0706	09K443Y599G1	3525	254T	91.7	17.2	34.4	36.5	238	75

Specifications and illustrations subject to change
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