

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 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.

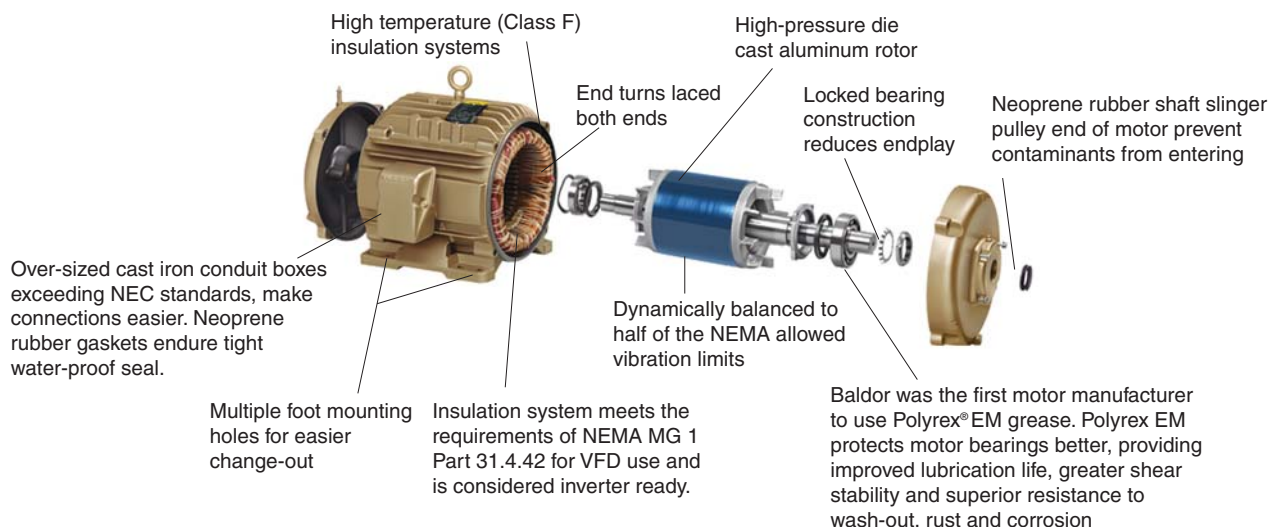
Testing: Through actual testing of Baldor TEAO motors in FANWALL applications, Baldor and Nortek Air Solutions Huntair™ have determined that the temperature rise in these motors is actually very low – in some cases only 40° C. This is well below the 125° C temperature rise for the Class F rating, and 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							
						FLA	
HP	Part #	Baldor Spec #	RPM @ 60Hz with slip	FRAME	EFF	575V	Max Hz
1	200.0707	05G660X064G2	1765	143T	87.5	1.2	120
1.5	200.0708	05G660X250G1	1765	145T	86.5	1.8	110
2	200.0709	05G660X148G1	1750		86.5	2.3	100
2.5			1740		86.5	2.8	90
3	200.0710	06K111X319G2	1755	182T	89.5	3.3	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	200.0711	06K111X429G1	1750	184T	89.5	5.6	120
5.5			1750		89.5	6.0	110
6			1740		88.5	6.4	100
6.5			1735		87.5	6.8	90
7			1735		86.5	7.3	75
7.5	200.0712	07M267X817G4	1770	213T	91.7	7.5	110
8			1765		91.7	8.0	100
8.5			1765		91.0	8.4	95
9			1760		91.0	8.8	85
9.5			1760		91.0	9.2	75
10	200.0713	07M267X493G4	1760	215T	92.4	10.0	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	200.0717	09K443X130G1	1760	254T	92.4	14.5	110

BALDOR TEAO MOTORS FOR FANWALL® SYSTEMS

3600 RPM Motors							FLA	
HP	Part #	Baldor Spec #	RPM @ 60Hz with slip	FRAME	EFF	575V	Max Hz	
1	200.0715	05G660W060G2	3450	143T	84.0	1.1	75	
1.5	200.0716	05G660W061G2	3450		85.5	1.6	75	
2	200.0717	05G660W062G1	3500	145T	86.5	2.0	75	
2.5			3475		86.5	2.5	75	
3	200.0718	06K111W895G3	3500	182T	89.5	2.8	75	
3.5			3490		89.5	3.2	75	
4			3475		89.5	3.6	75	
4.5			3460		88.5	4.0	75	
5	200.0719	06K111WX119G6	3490	184T	90.2	4.6	75	
5.5			3480		90.2	5.1	75	
6			3470		90.2	5.5	75	
6.5			3460		89.5	5.9	75	
7			3450		89.5	6.3	75	
7.5	200.072	07M267W385G5	3525	213T	91.0	6.9	75	
8			3515		91.0	7.1	75	
8.5			3510		91.7	7.5	75	
9			3500		91.7	7.9	75	
9.5			3500		91.7	8.3	75	
10	200.0721	07M267Y788G6	3500	215T	92.4	8.9	75	
10.5			3500		91.7	9.3	75	
11			3500		91.0	9.7	75	
11.5			3475		91.0	10.0	75	
12			3475		91.0	10.5	75	
15	200.0722	09KK443Y615G1	3525	254T	91.7	13.8	75	

Specifications and illustrations subject to change
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