

# **BALDOR**® • *RELIANCE*

## Product Information Packet

# **AEM3689-4**

**2HP,1760RPM,3PH,60HZ,184,0626M,TEFC,F1,N**

Part Detail							
Revision:	F	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	06WGX252	CD Diagram:	CD0006	Mfg Plant:	
Mech. Spec:	06F062	Layout:	06LYF062	Poles:	04	Created Date:	02-25-2015
Base:	RG	Eff. Date:	12-07-2016	Leads:	3#16		

Specs			
Catalog Number:	AEM3689-4	KVA Code:	K
Enclosure:	TEFC	Lifting Lugs:	Standard Lifting Lugs
Frame:	184	Locked Bearing Indicator:	No Locked Bearing
Frame Material:	Iron	Motor Lead Quantity/Wire Size:	3 @ 16 AWG
Output @ Frequency:	2.000 HP @ 60 HZ	Motor Lead Exit:	Ko Box
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Termination:	Flying Leads
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Type:	0626M
XP Class and Group:	None	Mounting Arrangement:	F1
XP Division:	Not Applicable	Power Factor:	77
Agency Approvals:	UR	Product Family:	Automotive (Not For DC)
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	2.700 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding
Design Code:	B	Shaft Rotation:	Reversible

<b>Drip Cover:</b>	No Drip Cover	<b>Shaft Slinger Indicator:</b>	No Slinger
<b>Duty Rating:</b>	CONT	<b>Speed Code:</b>	Single Speed
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Motor Standards:</b>	NEMA
<b>Feedback Device:</b>	NO FEEDBACK	<b>Starting Method:</b>	Direct on line
<b>Front Face Code:</b>	Standard	<b>Thermal Device - Bearing:</b>	None
<b>Front Shaft Indicator:</b>	None	<b>Thermal Device - Winding:</b>	None
<b>Heater Indicator:</b>	No Heater	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Insulation Class:</b>	F	<b>Winding Thermal 1:</b>	None
<b>Inverter Code:</b>	Inverter Ready	<b>Winding Thermal 2:</b>	None

Nameplate NP1404E	
CAT.NO.	AEM3689-4
SPEC.	06F062X252G1
VOLTS	460
AMP	2.7
RPM	1760
HP	2
FRAME	184
HZ	60
PH	3
SER.F.	1.00
CODE	K
DES	B
CL	F
NEMA-NOM-EFF	88.5
PF	77
G.MIN.EFF	84.0
CC	010A
RATING	65C AMB-CONT
LUBRICATION	POLYREX EM
DE	6206
ODE	6205
ENCL	TEFC
SER. #	

**AC Induction Motor Performance Data**

Record # 50988 - Typical performance - not guaranteed values

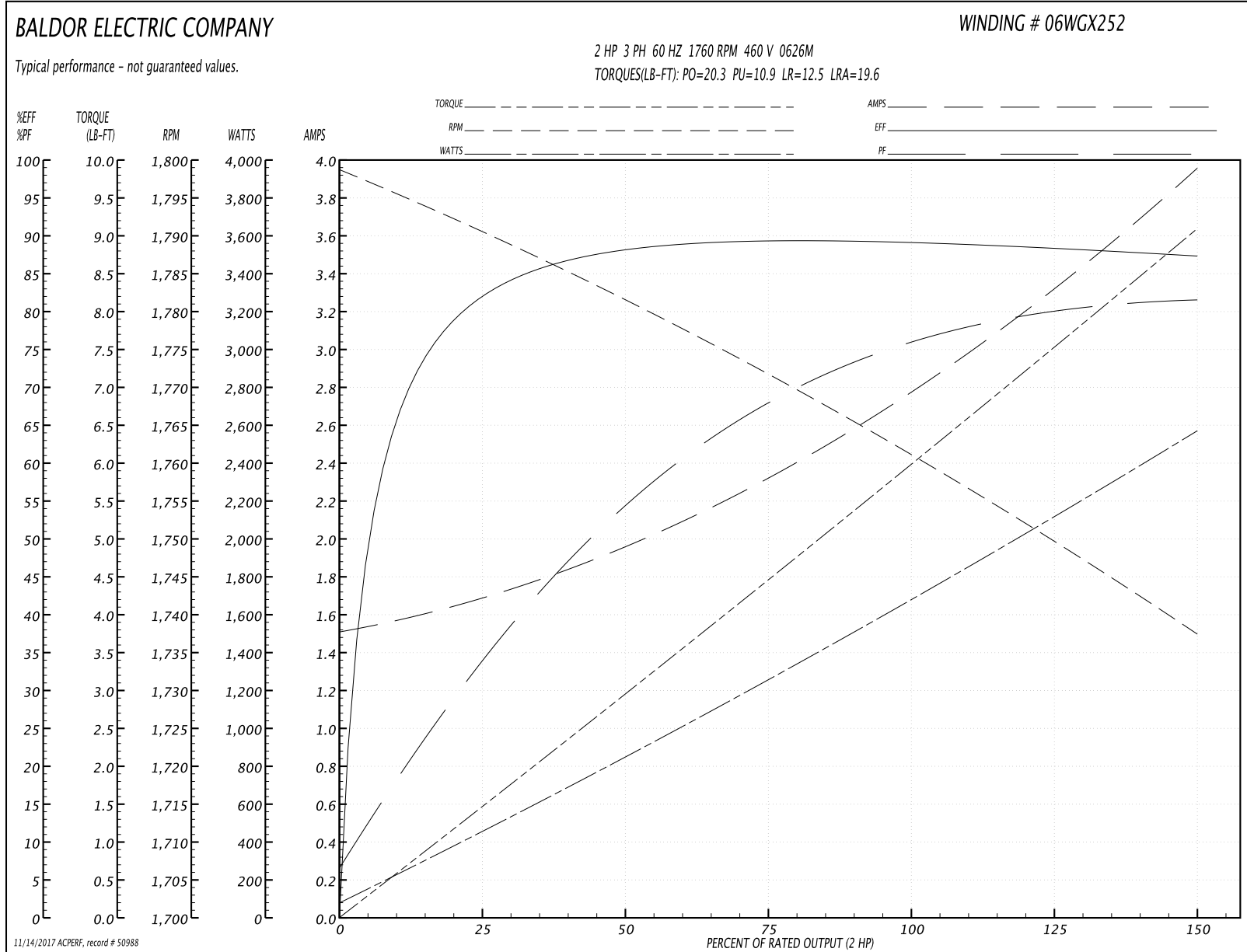
<b>Winding:</b> 06WGX252-R016	<b>Type:</b> 0626M	<b>Enclosure:</b> TEFC
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Nameplate Data				460 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	2			Full Load Torque	5.99 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	2.7			Breakdown Torque	20.3 LB-FT
R.P.M.	1760			Pull-up Torque	10.9 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	12.5 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	19.6 A
Service Factor (S.F.)	1			No-load Current	1.53 A
NEMA Nom. Eff.	88.5	Power Factor	77	Line-line Res. @ 25°C	6.7414 Ω
Rating - Duty	65C AMB-CONT			Temp. Rise @ Rated Load	24°C

Load Characteristics 460 V, 60 Hz, 2 HP

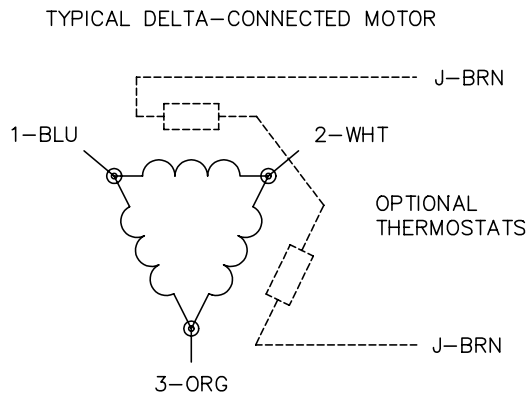
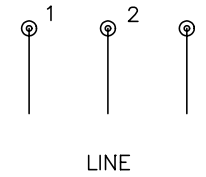
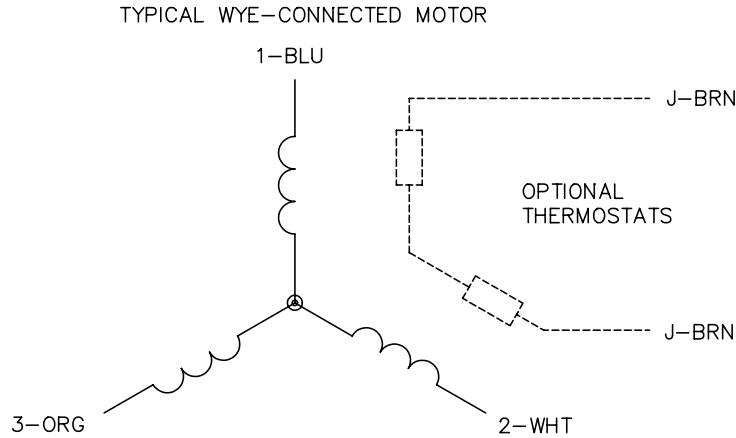
% of Rated Load	25	50	75	100	125	150
Power Factor	35	55	68	75	80	82
Efficiency	81.8	88	89.3	89.2	88.5	87.2
Speed	1790.2	1781.4	1771.7	1761.2	1750.2	1737.1
Line amperes	1.67	1.93	2.33	2.8	3.33	3.94

Performance Graph at 460V, 60Hz, 2.0HP Typical performance - Not guaranteed values





CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: D	BY: JLP	REVISED: 01/21/99 4:02	TDR: 0171435
9000D		FILE: AAA00005141	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

CD0006