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# Customer information packet

## AEM3686-4

1.5HP, 1760RPM, 3PH, 60HZ, 184, 0626M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	184
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	65 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.100 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.1 a
Insulation Class	F
Inverter Code	Inverter Ready

## Part detail

Revision	G
Type	AC
Mech. spec.	06F062
Base	
Status	PRD/A
Elec. spec.	06WGY443
Layout	06LYF062
Eff. date	03-26-2021
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	02-23-2015

<b>KVA Code</b>	L
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	3 @ 16 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	0626M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	14.74 IN
<b>Power Factor</b>	74
<b>Product Family</b>	Automotive (Not For DC)
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.00
<b>Shaft Diameter</b>	0.875 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1760 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP1404</b>									
<b>CAT.NO.</b>	AEM3686-4								
<b>SPEC.</b>	06F062Y443G1								
<b>VOLTS</b>	460								
<b>AMP</b>	2.1								
<b>RPM</b>	1760		<b>HP</b>	1.5					
<b>FRAME</b>	184	<b>HZ</b>	60	<b>PH</b>	3				
<b>SER.F.</b>	1.00	<b>CODE</b>	L	<b>DES</b>	B	<b>CL</b>	F		
<b>NEMA-NOM-EFF</b>	87.5	<b>PF</b>	74						
<b>G.MIN.EFF</b>	86.5	<b>CC</b>	010A						
<b>RATING</b>	65C AMB-CONT								
<b>LUBRICATION</b>	POLYREX EM								
<b>DE</b>	6206	<b>ODE</b>	6205						
<b>ENCL</b>	TEFC	<b>SER. #</b>							

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
36-1037	C FACE KIT	A8

**AC Induction Motor Performance Data**

Record # 49367

Typical performance - not guaranteed values

Winding: 06WGY443-R001		Type: 0626M		Enclosure: TEFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: Single Voltage Motor</b>		
Rated Output (HP)	1.5	Full Load Torque	4.44 LB-FT		
Volts	460	Start Configuration	direct on line		
Full Load Amps	2.1	Breakdown Torque	17.6 LB-FT		
R.P.M.	1760	Pull-up Torque	10.1 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	11.8 LB-FT	
NEMA Design Code	B	KVA Code	L	Starting Current	17.5 A
Service Factor (S.F.)	1	No-load Current	1.26 A		
NEMA Nom. Eff.	87.5	Power Factor	74	Line-line Res. @ 25°C	9.18 Ω
Rating - Duty	65C AMB-CONT		Temp. Rise @ Rated Load	22°C	
			Locked-rotor Power Factor	47.5	
			Rotor inertia	0.242 LB-FT <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 1.5 HP**

% of Rated Load	25	50	75	100	125	150
Power Factor	34	54	67	74	79	82
Efficiency	75.4	84.6	87.1	87.7	87.2	86
Speed	1791	1783	1773	1765	1754	1742
Line amperes	1.34	1.53	1.79	2.14	2.53	2.95

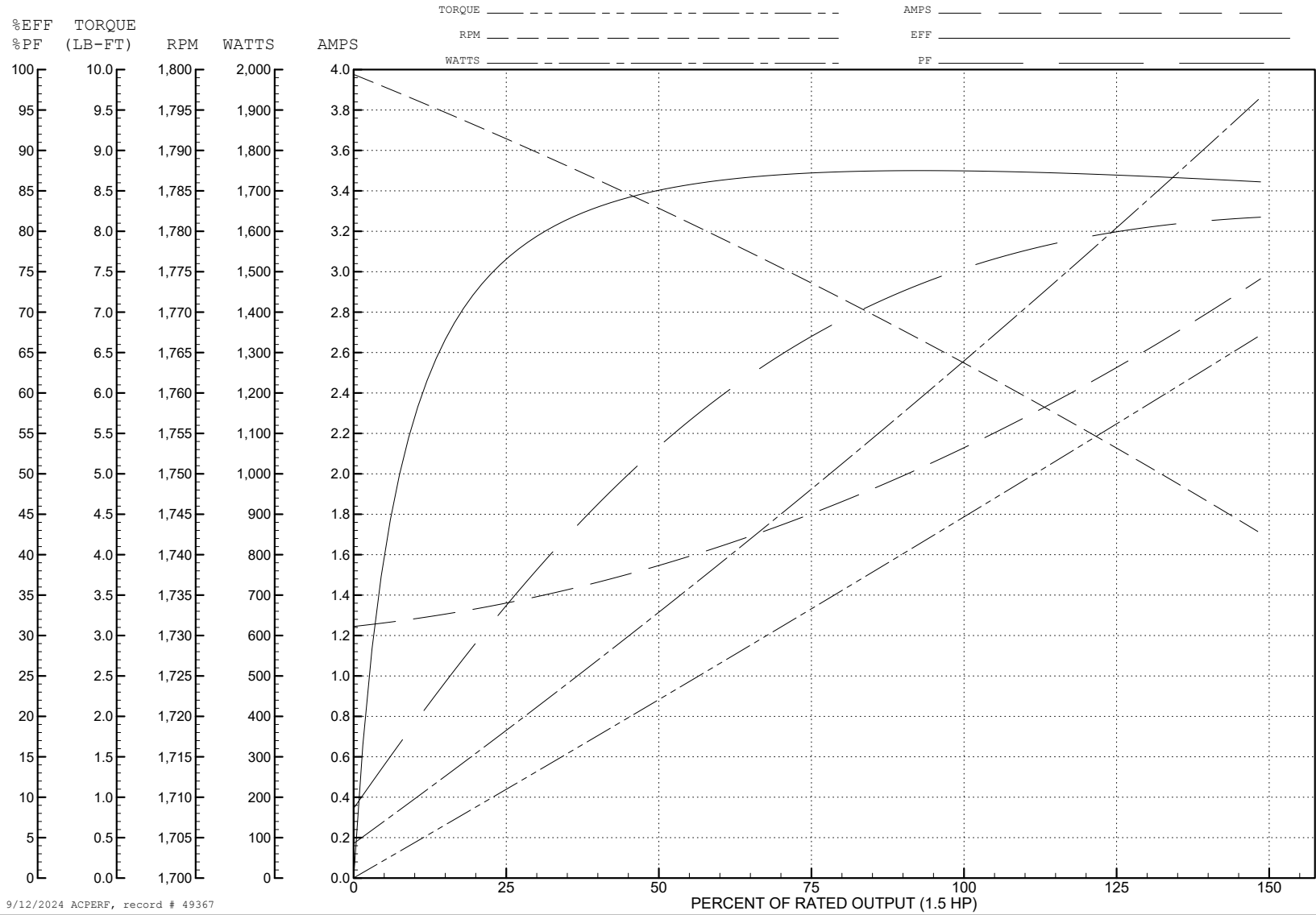
ABB Motors and Mechanical Inc.

WINDING # 06WGY443

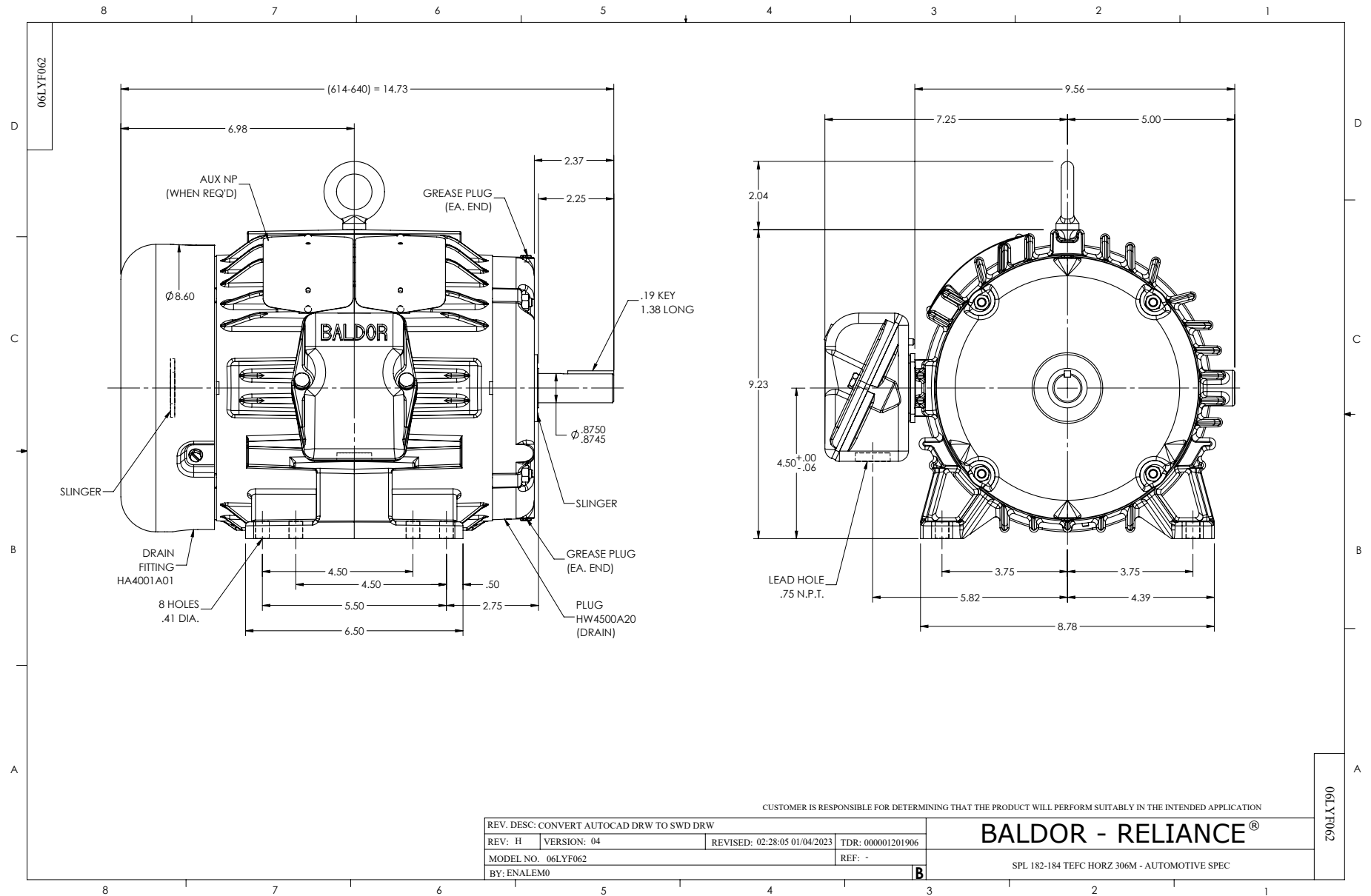
1.5 HP 3 PH 60 HZ 1760 RPM 460 V 0626M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=17.6 PU=10.1 LR=11.8 LRA=17.5

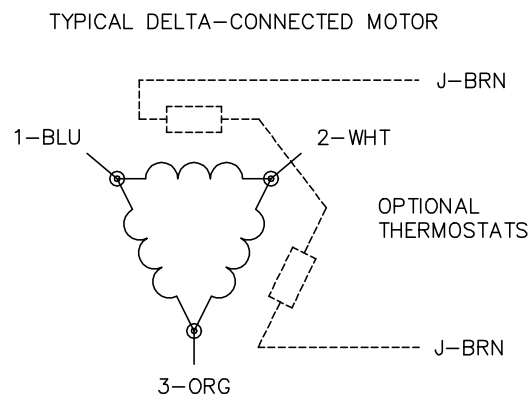
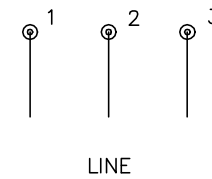
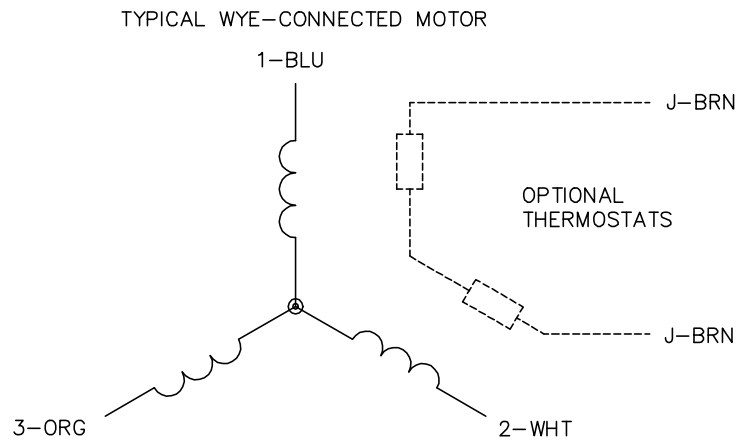


9/12/2024 ACPERF, record # 49367





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.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIRO
MTL: -		© □

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

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