ABB BALDOR RELIANCE

Customer information packet

AEM3686-4

1.5HP, 1760RPM, 3PH, 60HZ, 184, 0626M, TEFC, F1
Class - None
Division - Not Applicable

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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
Auxiliary Box	NO AUXILLARY BOX
Auxiliary 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	H
Type	AC
Mech. spec.	06F062
Base	
Status	PRD/A
Elec. spec.	06WGY443
Layout	06LYF062
Eff. date	02-26-2025
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	02-23-2015

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

Nameplate

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

Accessories

Part number	Description	Multiplier
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

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
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. @ 25ºC**	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-FT2

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

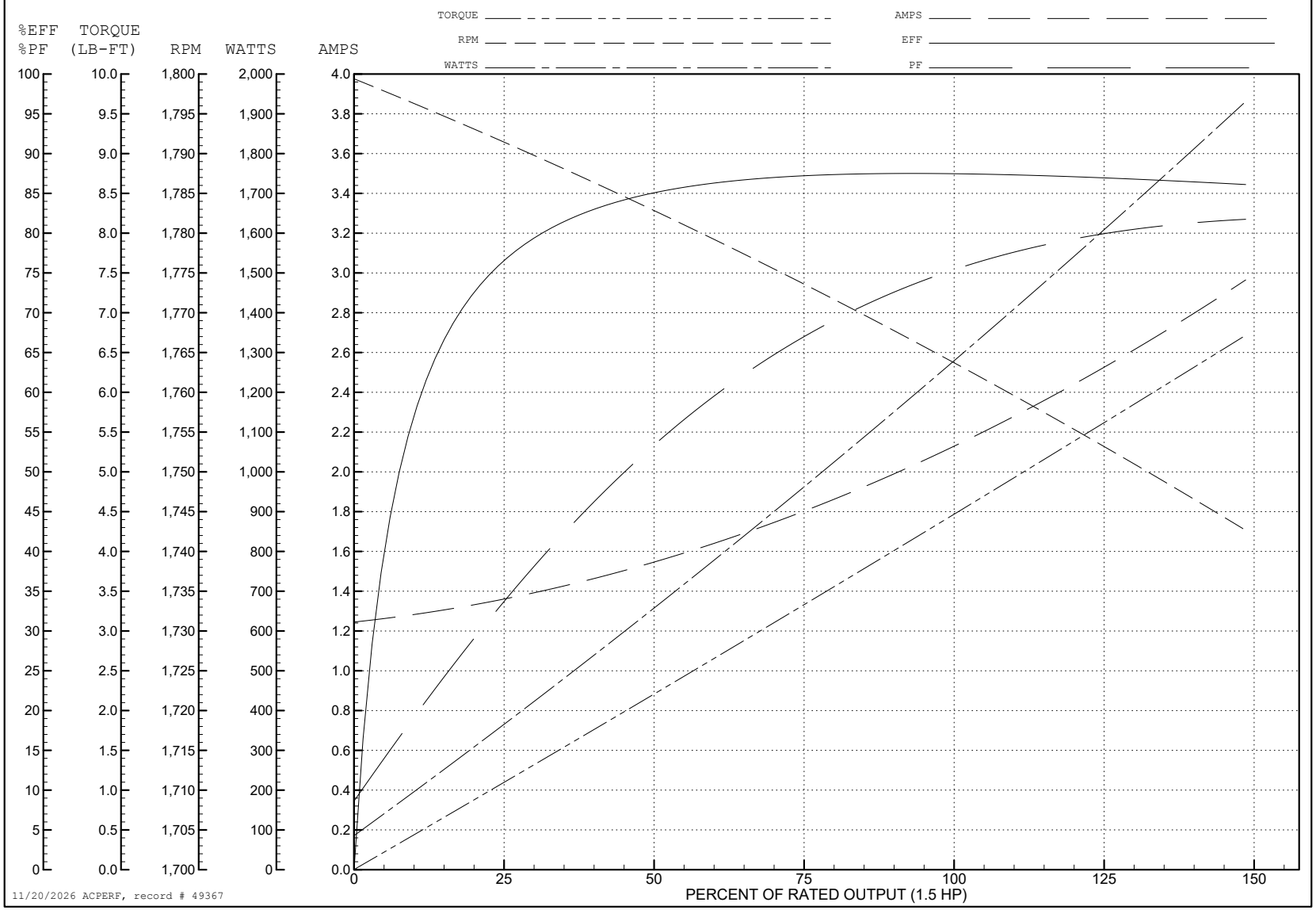
ABB Motors and Mechanical Inc.

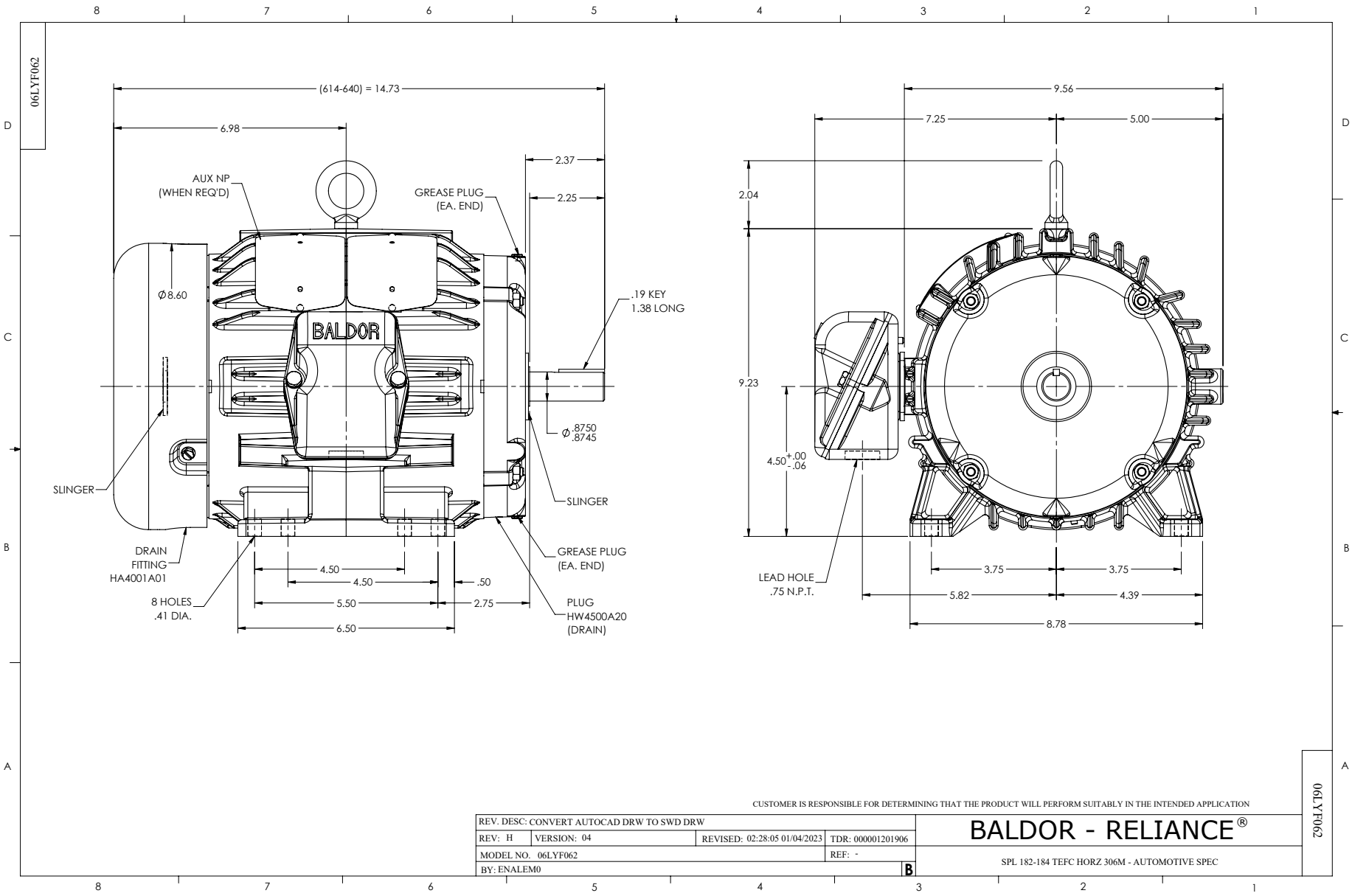
WINDING # 06WGY443

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

Typical performance - not guaranteed values.

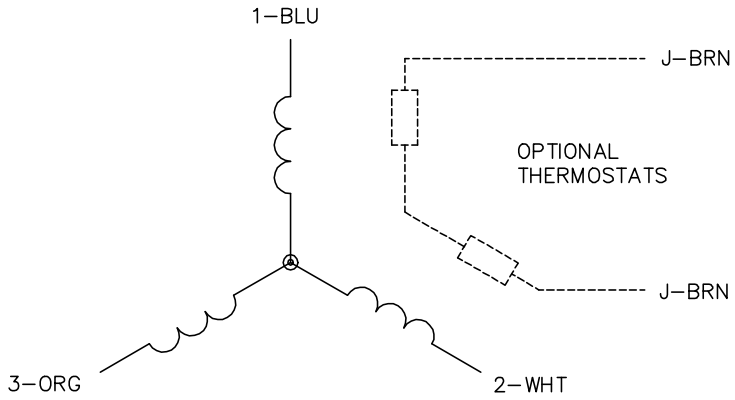
TORQUES(LB-FT): PO=17.6 PU=10.1 LR=11.8 LRA=17.5

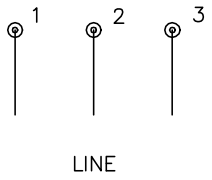



06LYF062
(614-640) = 14.73
6.98
2.37
2.25
AUX NP
(WHEN REQ'D)
GREASE PLUG
(EA. END)
Ø8.60
BALDOR
.19 KEY
1.38 LONG
Ø.8750
.8745
SLINGER
SLINGER
DRAIN
FITTING
HA4001A01
GREASE PLUG
(EA. END)
4.50
4.50
.50
8 HOLES
.41 DIA.
5.50
2.75
PLUG
HW4500A20
(DRAIN)
6.50
9.56
7.25
5.00
2.04
9.23
4.50 +.00 -.06
LEAD HOLE
.75 N.P.T.
3.75
3.75
5.82
4.39
8.78
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: H
VERSION: 04
REVISED: 02:28:05 01/04/2023
TDR: 000001201906
MODEL NO. 06LYF062
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
SPL 182-184 TEFC HORZ 306M - AUTOMOTIVE SPEC
06LYF062

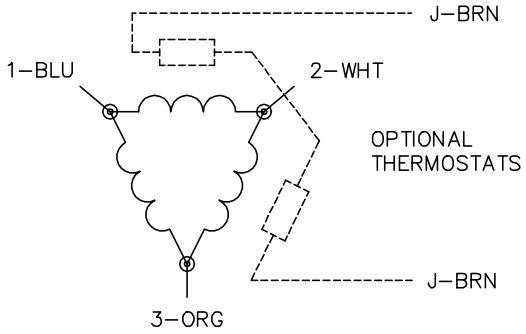
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

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

SH 1 of 1