ABB BALDOR RELIANCE

Customer information packet

AM3683-4

1HP, 1725RPM, 3PH, 60HZ, 182, 0614M, TEFC, F1
Class -
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	182
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA
	UR
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	1.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
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	1.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	U
Type	AC
Mech. spec.	06F062
Base	
Status	NLA/A
Elec. spec.	06WGX081
Layout	06LYF062
Eff. date	02-28-2008
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	01-01-0001

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	0614M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.74 IN
Power Factor	78
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	1725 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.										
SPEC.	06F62X81									
VOLTS	460									
AMP	1.5									
RPM	1725		**HP**	1						
FRAME	182	**HZ**	60		**PH**	3				
SER.F.	1.00	**CODE**	J	**DES**	B		**CL**	F		
PF	78									
CC										
RATING	65C AMB-CONT									
LUBRICATION	POLYREX EM									
DE	6206	**ODE**	6205							
ENCL	TEFC	**SER. #**								
	MEETS GM-7EQ									

Accessories

Part number	Description	Multiplier
36-1037	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 586
Typical performance - not guaranteed values

Winding: 06WGX081-R001	**Type:** 0614M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			1	**Full Load Torque**	3 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			1.5	**Breakdown Torque**	10.5 LB-FT
R.P.M.			1725	**Pull-up Torque**	7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	8.4 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	10.2 A
Service Factor (S.F.)			1	**No-load Current**	0.75 A
NEMA Nom. Eff.	82.5	**Power Factor**	78	**Line-line Res. @ 25ºC**	17.95 Ω
Rating - Duty			65C AMB-CONT	**Temp. Rise @ Rated Load**	47°C
				Locked-rotor Power Factor	64
				Rotor inertia	0.131 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	38	60	70	78	83	85
Efficiency	74.7	82.5	83.8	83.4	82.4	80.4
Speed	1781	1764	1748	1729	1711	1688
Line amperes	0.95	1.05	1.25	1.5	1.73	2.06

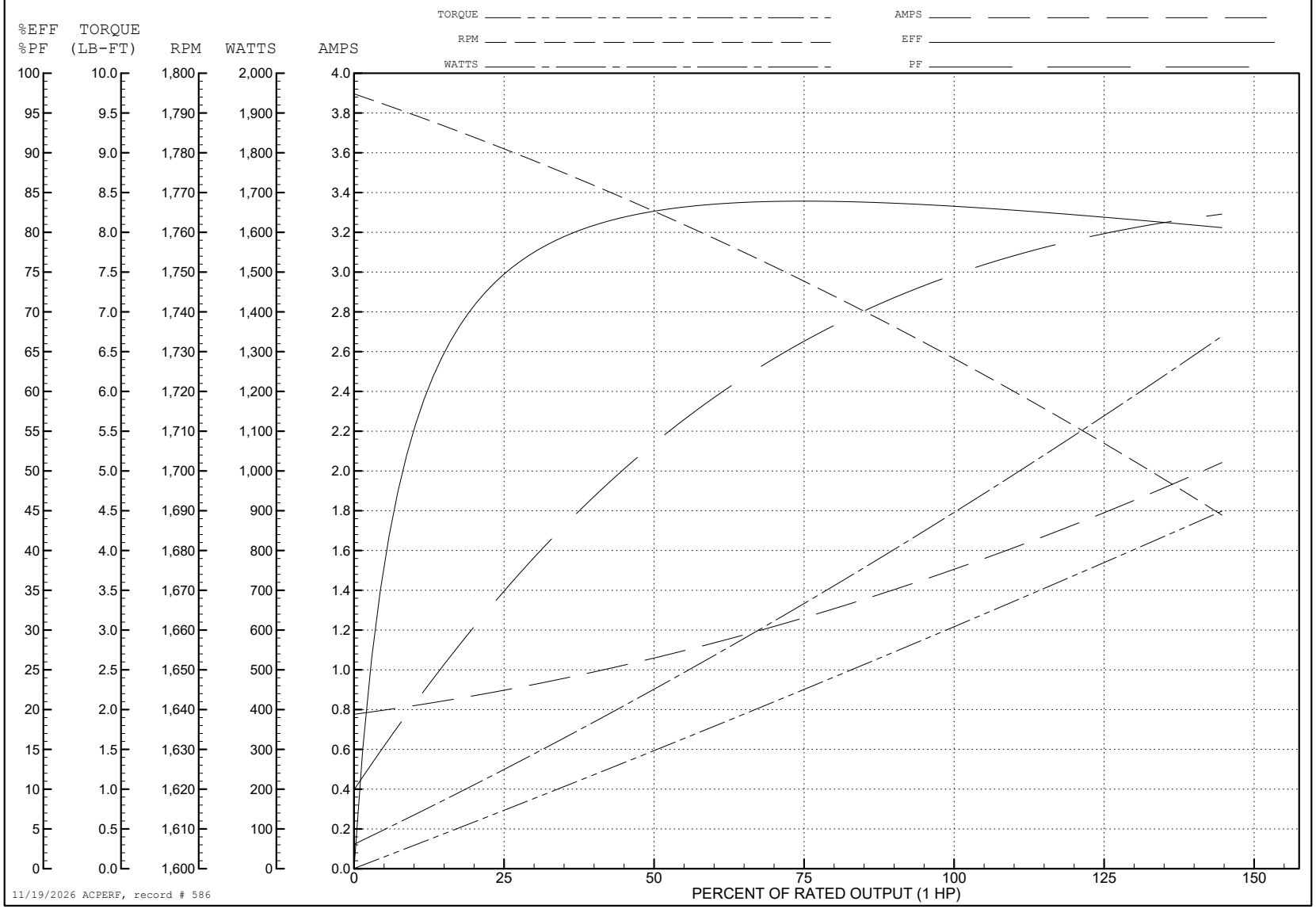
ABB Motors and Mechanical Inc.

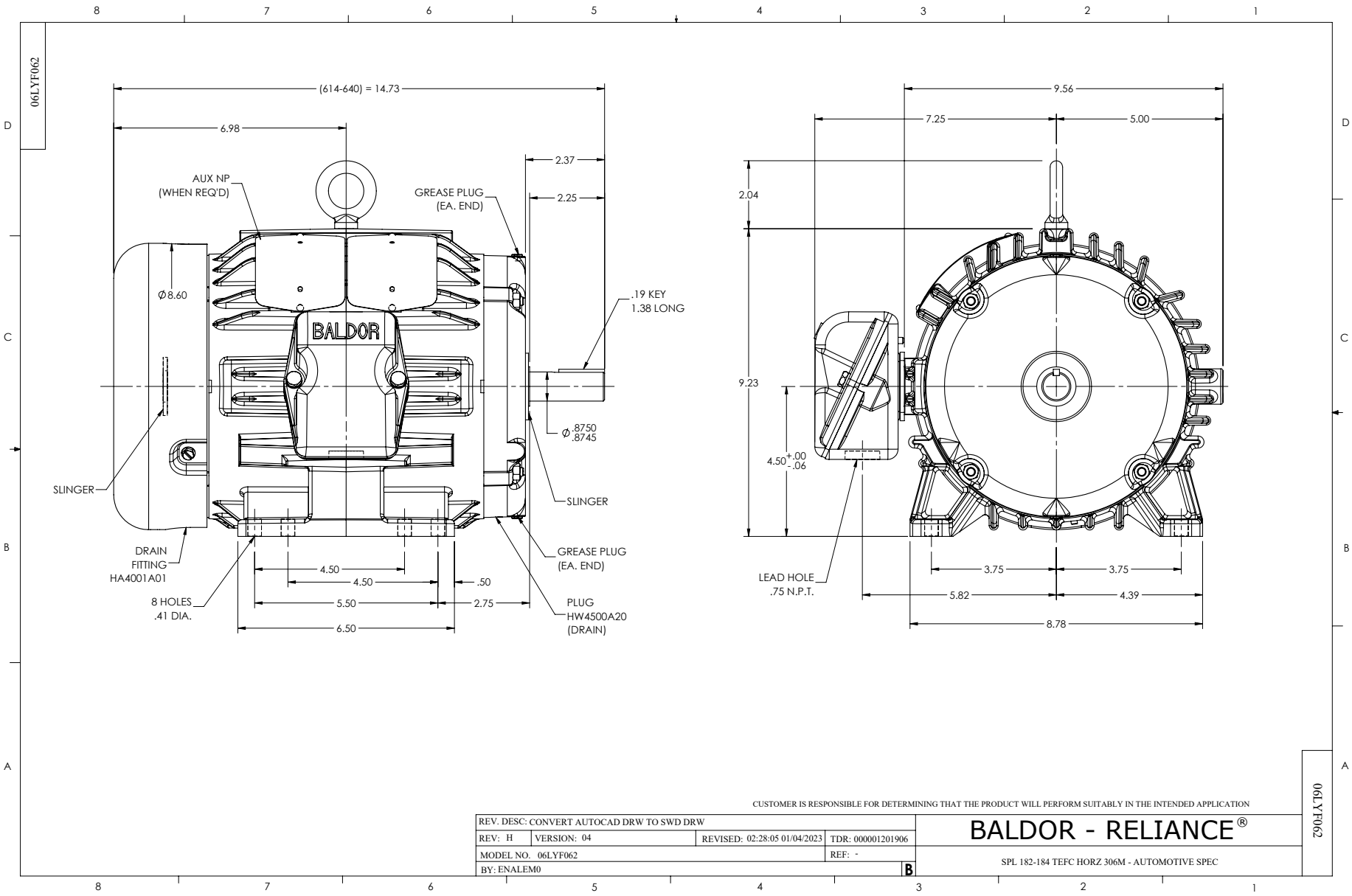
WINDING # 06WGX081

1 HP 3 PH 60 HZ 1725 RPM 460 V 0614M

Typical performance - not guaranteed values.

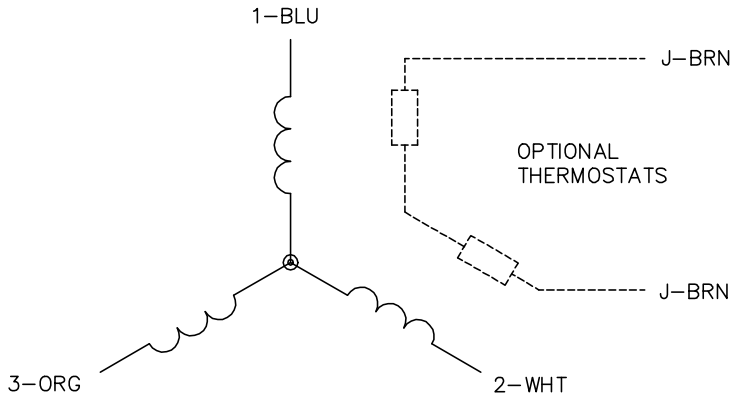
TORQUES(LB-FT): PO=10.5 PU=7 LR=8.4 LRA=10.2

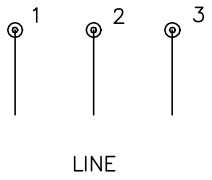



06LYF062
(614-640) = 14.73
6.98
2.37
2.25
AUX NP
(WHEN REQ'D)
GREASE PLUG
(EA. END)
Ø8.60
BALDOR
.19 KEY
1.38 LONG
Ø.8750
.8745
SLINGER
SLINGER
DRAIN
FITTING
HA4001A01
GREASE PLUG
(EA. END)
4.50
4.50
.50
8 HOLES
.41 DIA.
5.50
2.75
PLUG
HW4500A20
(DRAIN)
6.50
9.56
7.25
5.00
2.04
9.23
4.50 +.00 -.06
LEAD 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

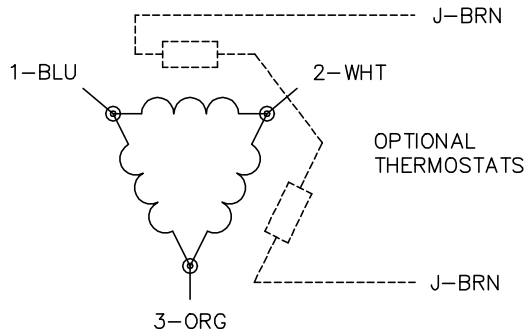
CD0006

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			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1