ABB BALDOR RELIANCE

Customer information packet

AEM3783-4

3HP, 1760RPM, 3PH, 60HZ, 213, 0728M, TEFC, F1, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	213
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	3.000 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	3.900 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.9 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K

Part Detail

Revision	B
Type	AC
Mech. spec.	07G087
Base	
Status	PRD/A
Elec. spec.	07WGR447
Layout	07LYG087
Eff. date	04-21-2021
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	11-19-2020

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0728M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.07 IN
Power Factor	81
Product Family	Automotive (Not For DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	1.125 IN
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.	AEM3783-4							
SPEC.	07G087R447G1							
VOLTS	460							
AMP	3.9							
RPM	1760		**HP**	3				
FRAME	213	**HZ**	60		**PH**	3		
SER.F.	1.00	**CODE**	K	**DES**	B	**CL**	F	
NEMA-NOM-EFF	89.5	**PF**	81					
G.MIN.EFF	87.5	**CC**	010A					
RATING	65C AMB-CONT							
LUBRICATION	POLYREX EM							
DE	6307	**ODE**	6206					
ENCL	TEFC	**SER. #**						

AC Induction Motor Performance Data
Record # 60452
Typical performance - not guaranteed values

Winding: 07WGR447-R006	**Type:** 0728M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			3	**Full Load Torque**	8.92 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			3.9	**Breakdown Torque**	31.5 LB-FT
R.P.M.			1760	**Pull-up Torque**	16.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	20.7 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	32.6 A
Service Factor (S.F.)			1	**No-load Current**	1.94 A
NEMA Nom. Eff.	89.5	**Power Factor**	81	**Line-line Res. @ 25ºC**	3.38 Ω
Rating - Duty			65C AMB-CONT	**Temp. Rise @ Rated Load**	23°C
				Locked-rotor Power Factor	40.6
				Rotor inertia	0.689 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	39	61	74	81	84	84
Efficiency	82	88.3	90	90.1	89.5	89
Speed	1792	1784	1775	1766	1756	1746
Line amperes	2.21	2.6	3.18	3.87	4.69	5.64

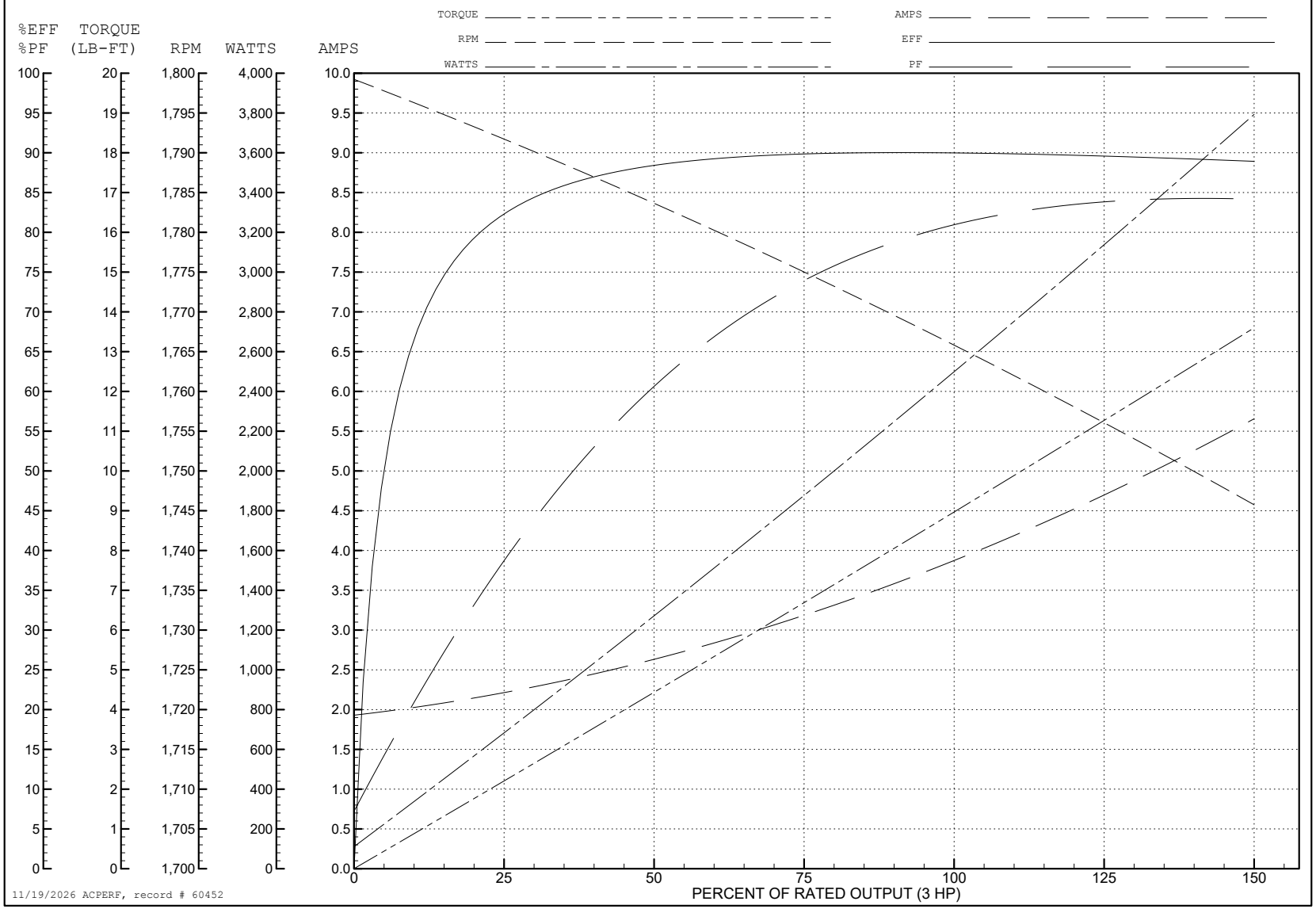
ABB Motors and Mechanical Inc.

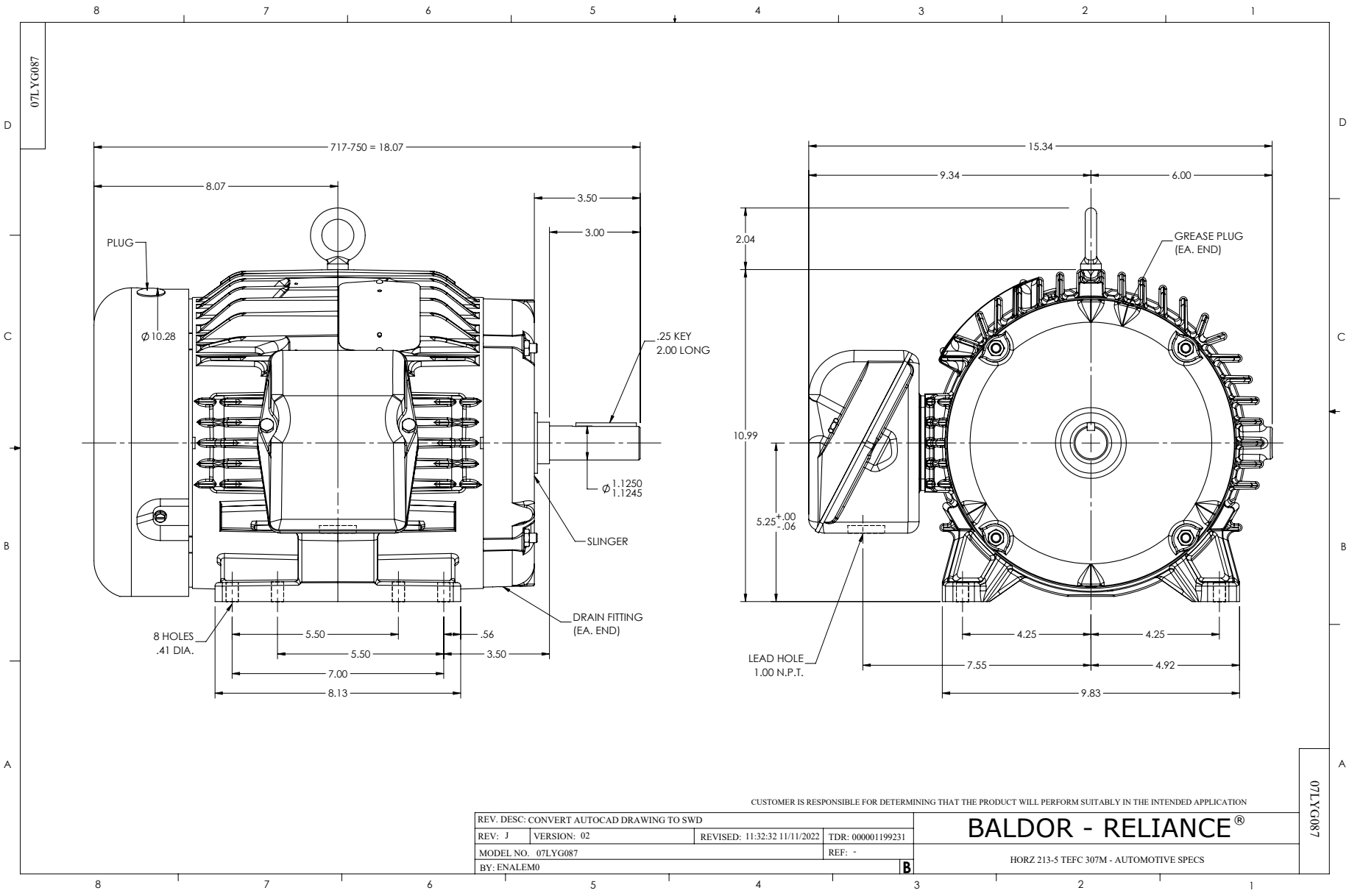
WINDING # 07WGR447

3 HP 3 PH 60 HZ 1760 RPM 460 V 0728M

Typical performance - not guaranteed values.

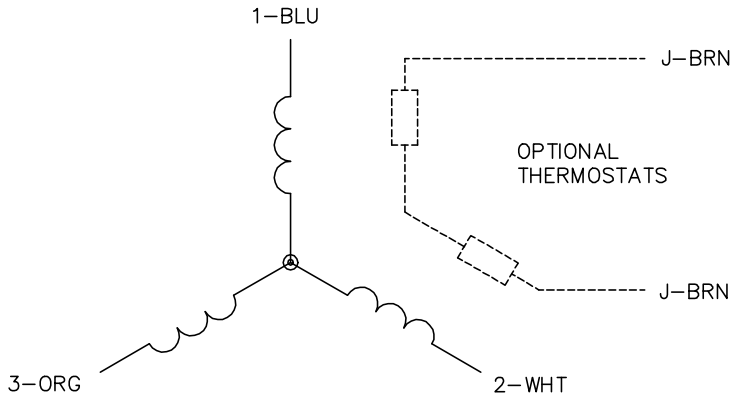
TORQUES(LB-FT): PO=31.5 PU=16.4 LR=20.7 LRA=32.6

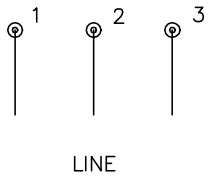



07LYG087
717-750 = 18.07
8.07
3.50
3.00
PLUG
Ø 10.28
.25 KEY
2.00 LONG
Ø 1.1250
1.1245
SLINGER
DRAIN FITTING
(EA. END)
8 HOLES
.41 DIA.
5.50
.56
5.50
3.50
7.00
8.13
15.34
9.34
6.00
2.04
GREASE PLUG
(EA. END)
10.99
5.25 +.00 -.06
LEAD HOLE
1.00 N.P.T.
4.25
4.25
7.55
4.92
9.83
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRAWING TO SWD
REV: J
VERSION: 02
REVISED: 11:32:32 11/11/2022
TDR: 000001199231
MODEL NO. 07LYG087
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 213-5 TEFC 307M - AUTOMOTIVE SPECS
07LYG087

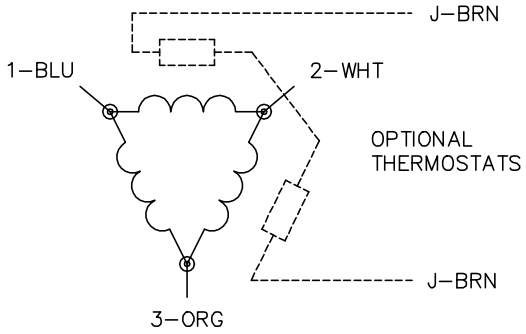
CD0006

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

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