ABB BALDOR RELIANCE

Customer information packet

AEM3787-4

5HP, 1760RPM, 3PH, 60HZ, 215, 0728M, TEFC, F1, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	215
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	5.000 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	6.700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
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	6.7 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	W
Type	AC
Mech. spec.	07G087
Base	
Status	PRD/A
Elec. spec.	07WGY968
Layout	07LYG087
Eff. date	04-21-2021
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	11-16-2012

KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
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	77
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	1.125 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.	AEM3787-4								
SPEC.	07G087Y968G1								
VOLTS	460								
AMP	6.7								
RPM	1760		**HP**	5					
FRAME	213	**HZ**	60		**PH**	3			
SER.F.	1.00	**CODE**	J	**DES**	B		**CL**	F	
NEMA-NOM-EFF	90.2	**PF**	77						
G.MIN.EFF	88.5	**CC**	010A						
RATING	65C AMB-CONT								
LUBRICATION	POLYREX EM								
DE	6307	**ODE**	6206						
ENCL	TEFC	**SER. #**							

AC Induction Motor Performance Data
Record # 40471
Typical performance - not guaranteed values

Winding: 07WGY968-R001	**Type:** 0728M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	14.9 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			6.7	**Breakdown Torque**	48.7 LB-FT
R.P.M.			1760	**Pull-up Torque**	26.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	31.1 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	46.2 A
Service Factor (S.F.)			1	**No-load Current**	3.37 A
NEMA Nom. Eff.	90.2	**Power Factor**	77	**Line-line Res. @ 25ºC**	2.14 Ω
Rating - Duty			65C AMB-CONT	**Temp. Rise @ Rated Load**	38°C
				Locked-rotor Power Factor	41
				Rotor inertia	0.689 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	38	60	71	77	80	82
Efficiency	83.8	89.5	90.4	90.2	89.5	88.6
Speed	1792	1783	1774	1763	1753	1742
Line amperes	3.69	4.42	5.45	6.7	8.08	9.62

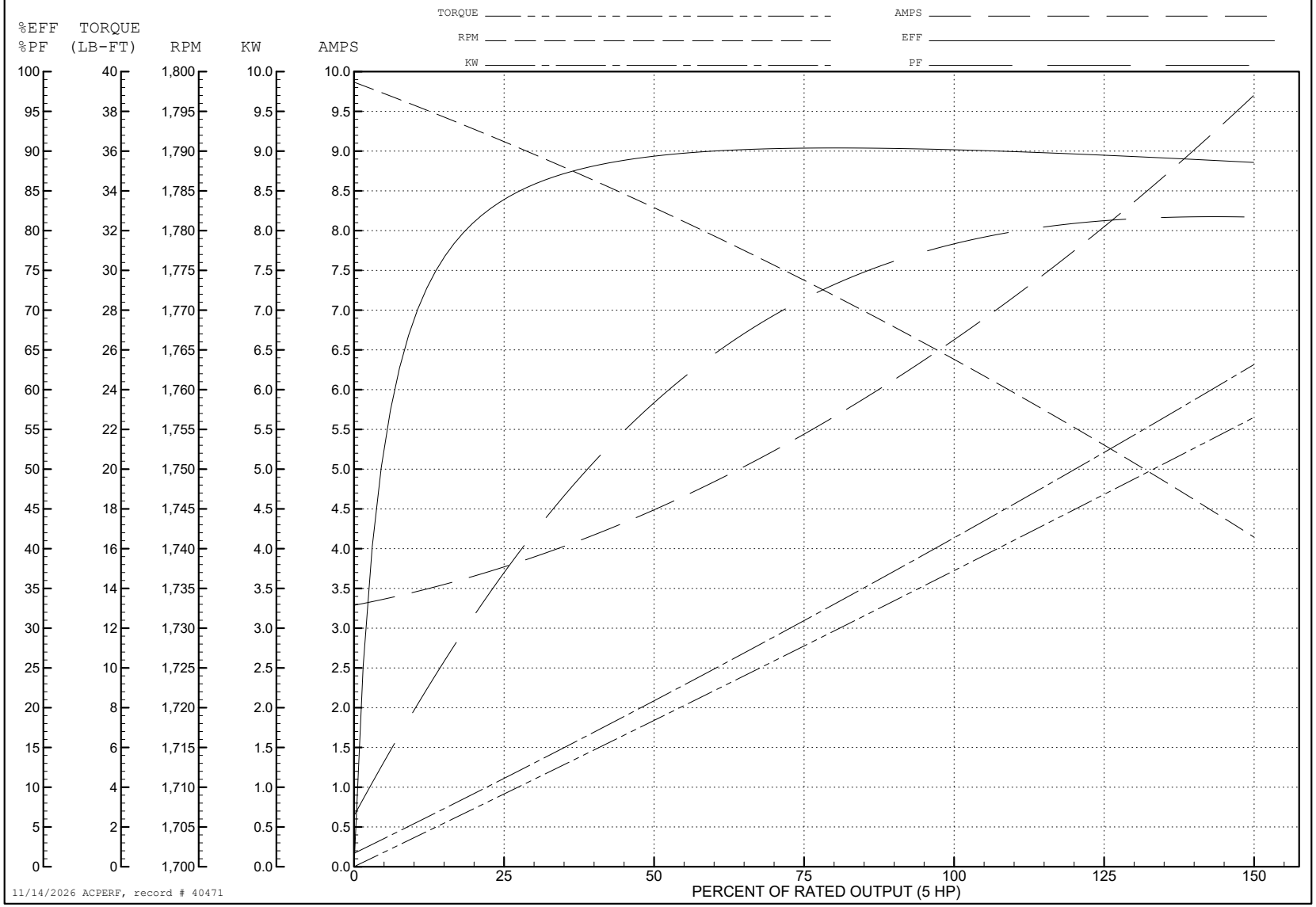
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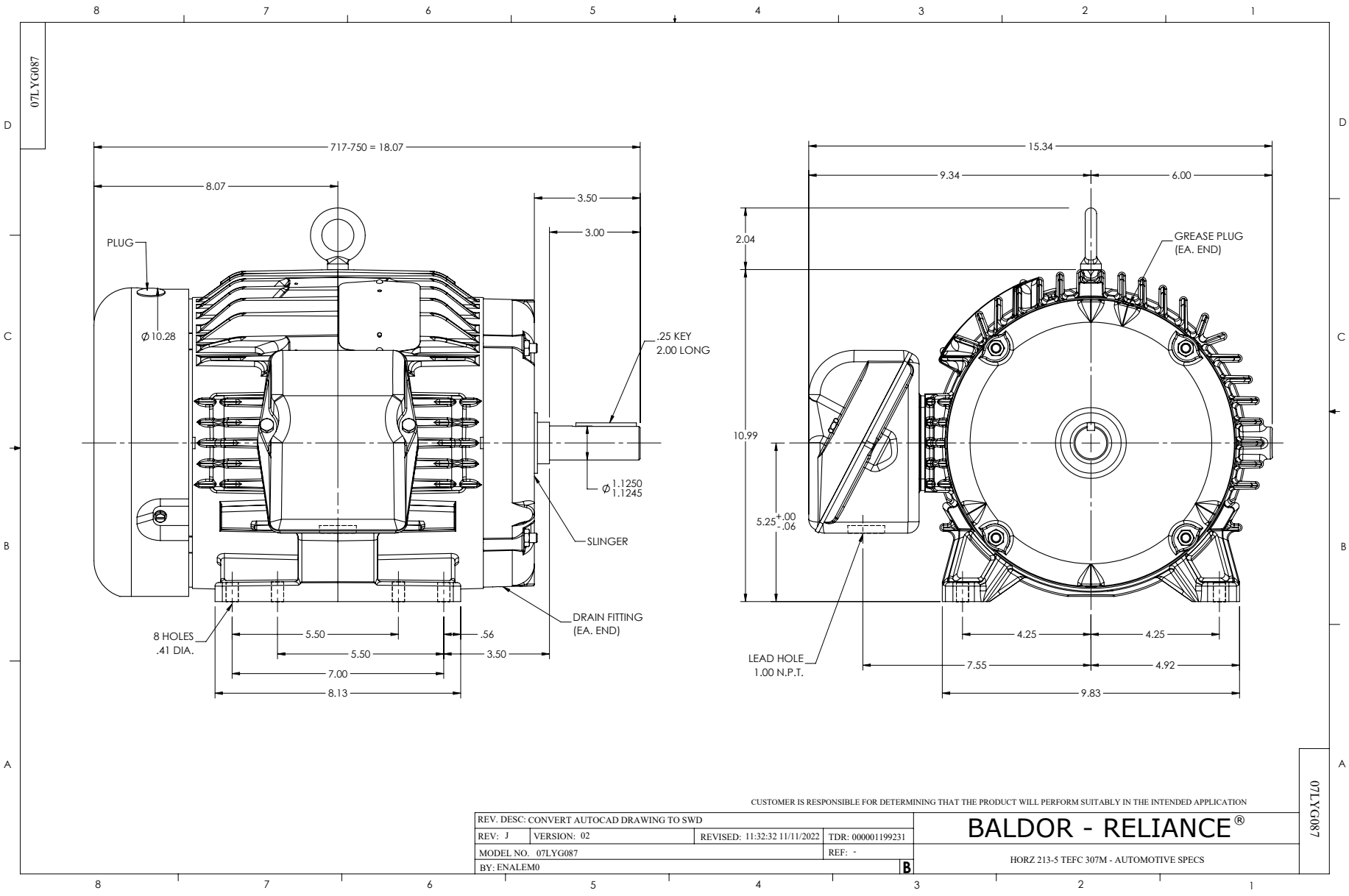
WINDING # 07WGY968

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

Typical performance - not guaranteed values.

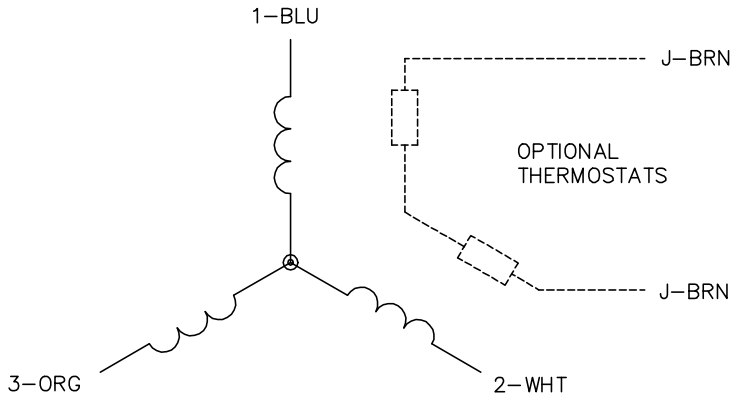
TORQUES(LB-FT): PO=48.7 PU=26.6 LR=31.1 LRA=46.2

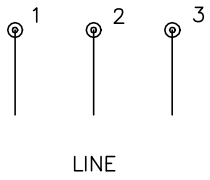



07LYG087
717-750 = 18.07
8.07
3.50
3.00
PLUG
Ø 10.28
.25 KEY
2.00 LONG
Ø 1.1250
1.1245
SLINGER
DRAIN FITTING
(EA. END)
8 HOLES
.41 DIA.
5.50
.56
5.50
3.50
7.00
8.13
15.34
9.34
6.00
2.04
GREASE PLUG
(EA. END)
10.99
5.25 +.00 -.06
LEAD HOLE
1.00 N.P.T.
4.25
4.25
7.55
4.92
9.83
CUSTOMER IS RESPONSIBLE FOR 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

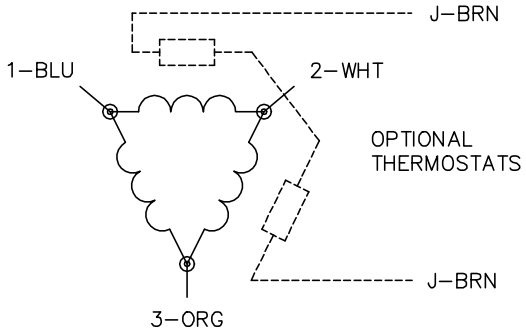
CD0006

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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