

ABB BALDOR RELIANCE III

Customer information packet

AEM3787-4

5HP, 1760RPM, 3PH, 60HZ, 215, 0728M, TEFC, F1, N

Class - None

Division - Not Applicable

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. @ 25°C		2.14 Ω	
Rating - Duty		65C		AMB-CONT		Temp. Rise @ Rated Load		38°C			
						Locked-rotor Power Factor		41			
						Rotor inertia		0.689 LB-FT ²			

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

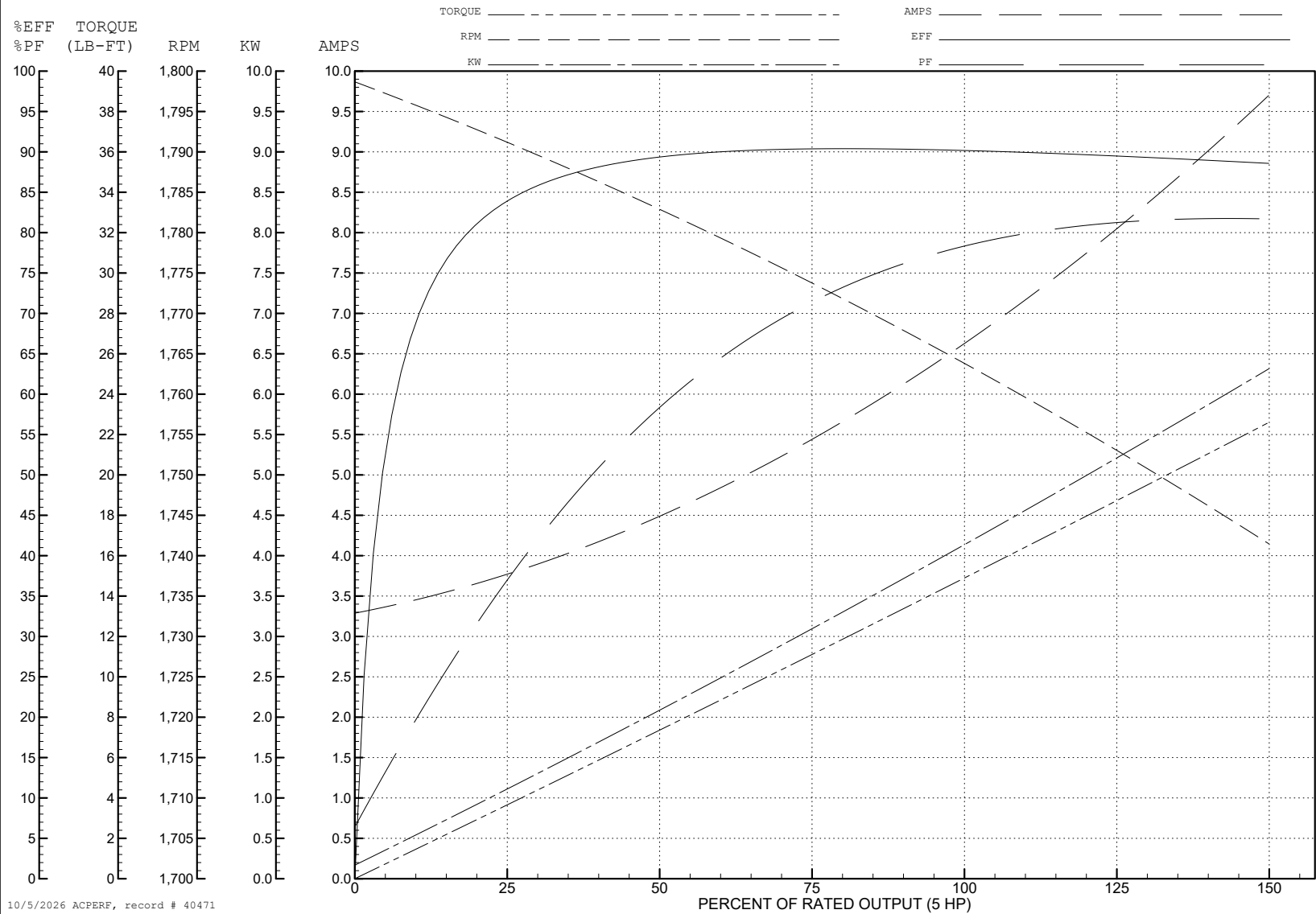
ABB Motors and Mechanical Inc.

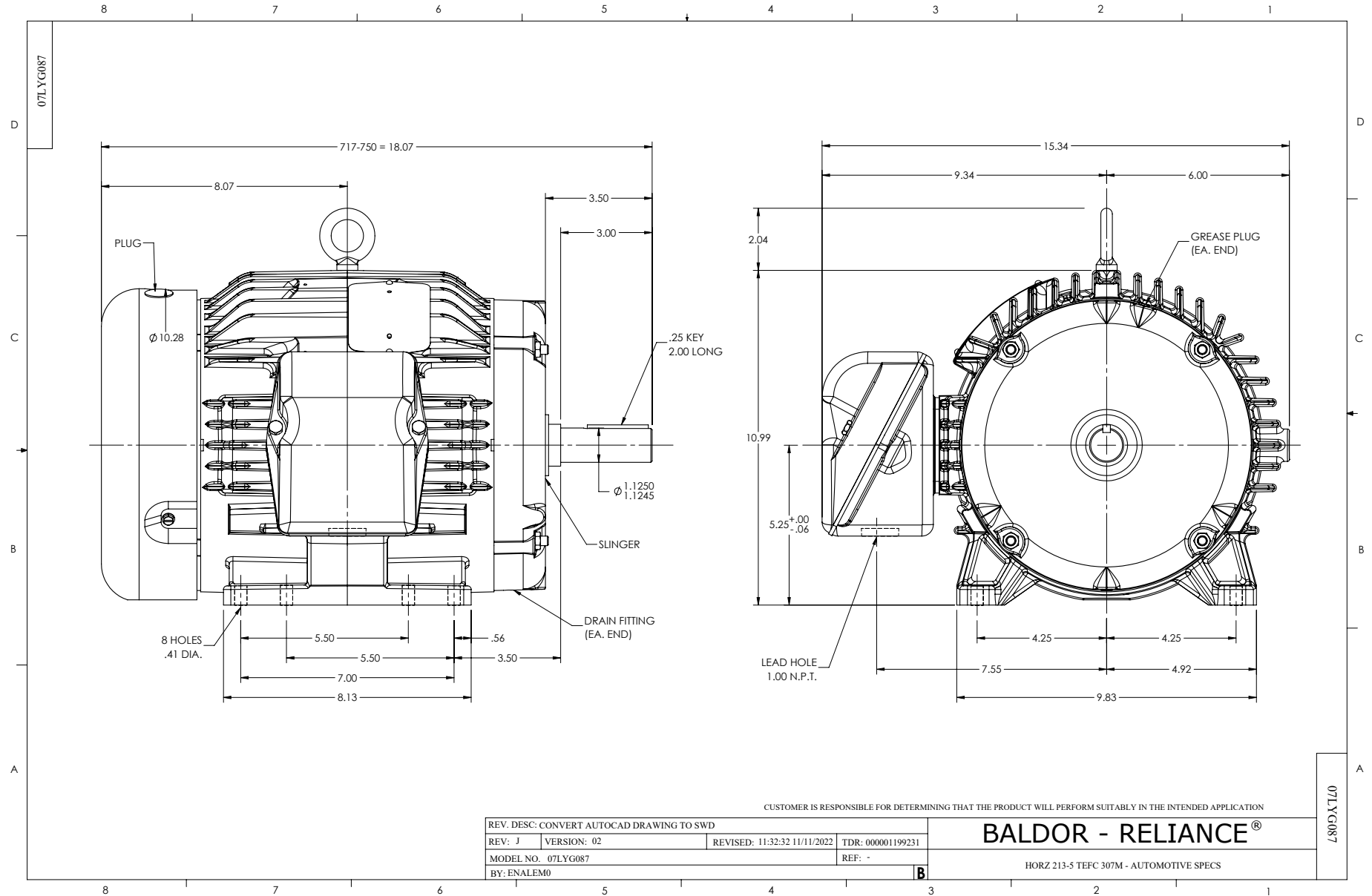
WINDING # 07WGY968

Typical performance - not guaranteed values.

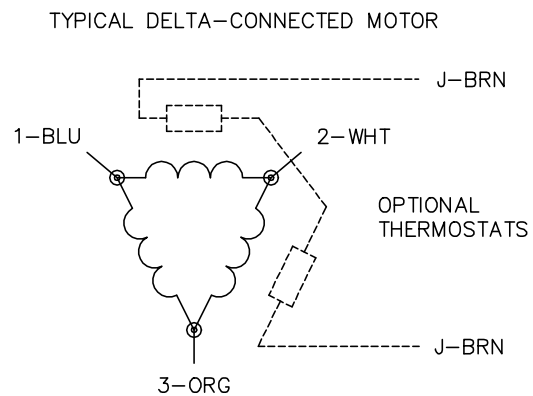
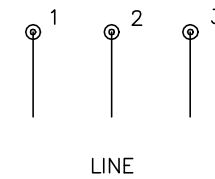
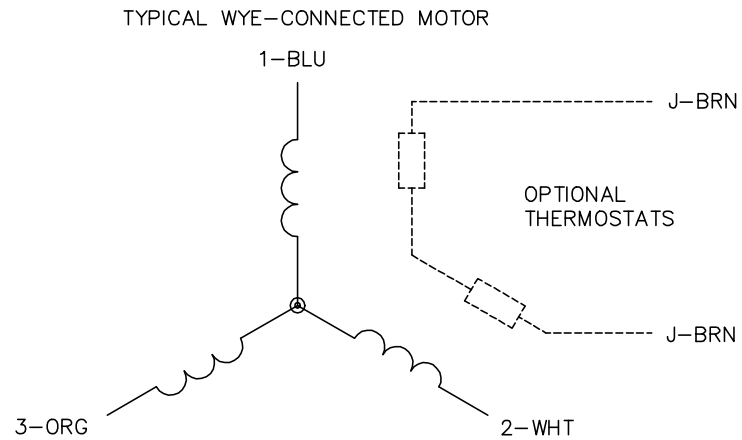
5 HP 3 PH 60 HZ 1760 RPM 460 V 0728M

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





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: —


BALDOR - RELIANCE®

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

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