ABB BALDOR RELIANCE

Customer information packet

AEM2275-4

5HP, 1160RPM, 3PH, 60HZ, 254U, 0748M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	254U
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	1200 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	7.100 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 Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.1 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	G
Type	AC
Mech. spec.	07J558
Base	
Status	PRD/A
Elec. spec.	07WGX815
Layout	07LYJ558
Eff. date	07-10-2019
CD Diagram	CD0006
Poles	06
Leads	3#14
Proprietary	False
Created date	02-27-2015

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	0748M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	20.81 IN
Power Factor	73
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1160 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.	07J558X815G2								
VOLTS	460								
AMP	7.1								
RPM	1160		**HP**	5					
FRAME	254U	**HZ**	60		**PH**	3			
SER.F.	1.00	**CODE**	J	**DES**	B	**CL**	F		
NEMA-NOM-EFF	89.5	**PF**	73						
G.MIN.EFF	87.5	**CC**	010A						
RATING	65C AMB-CONT								
LUBRICATION	POLYREX EM								
DE	6309	**ODE**	6307						
ENCL	TEFC	**SER. #**							

Accessories

Part number	Description	Multiplier
37-1302	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 50240
Typical performance - not guaranteed values

Winding: 07WGX815-R026	**Type:** 0748M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	22.4 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			7.1	**Breakdown Torque**	64 LB-FT
R.P.M.			1160	**Pull-up Torque**	44 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	56 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	46 A
Service Factor (S.F.)			1	**No-load Current**	3.47 A
NEMA Nom. Eff.	89.5	**Power Factor**	73	**Line-line Res. @ 25ºC**	1.73 Ω
Rating - Duty			65C AMB-CONT	**Temp. Rise @ Rated Load**	50°C
				Locked-rotor Power Factor	21.4
				Rotor inertia	1.19 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	35	56	67	73	75	77
Efficiency	84.6	89.9	90.5	89.7	88.5	86.3
Speed	1192	1182	1172	1161	1148	1133
Line amperes	3.78	4.65	5.82	7.12	8.72	10.6

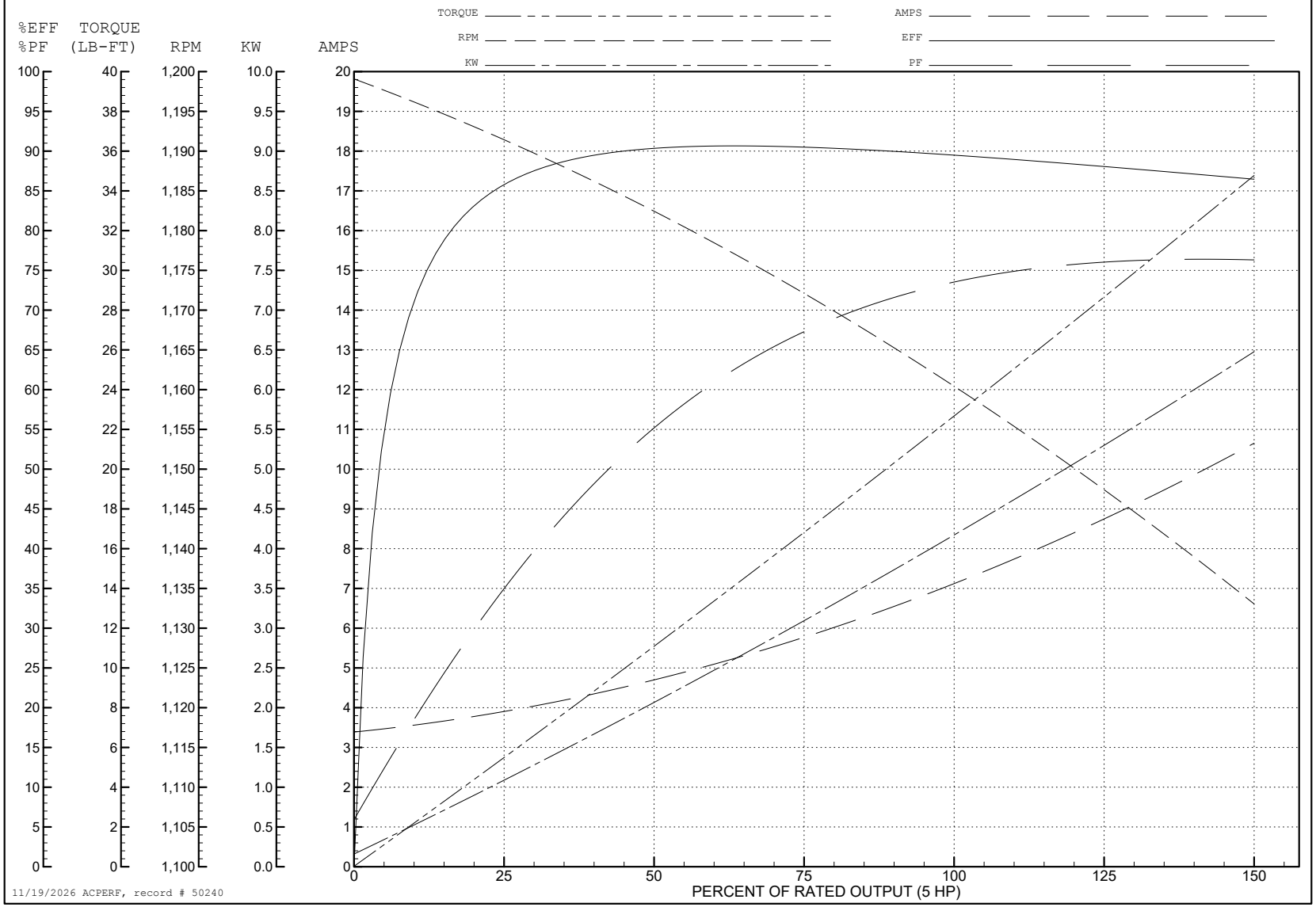
ABB Motors and Mechanical Inc.

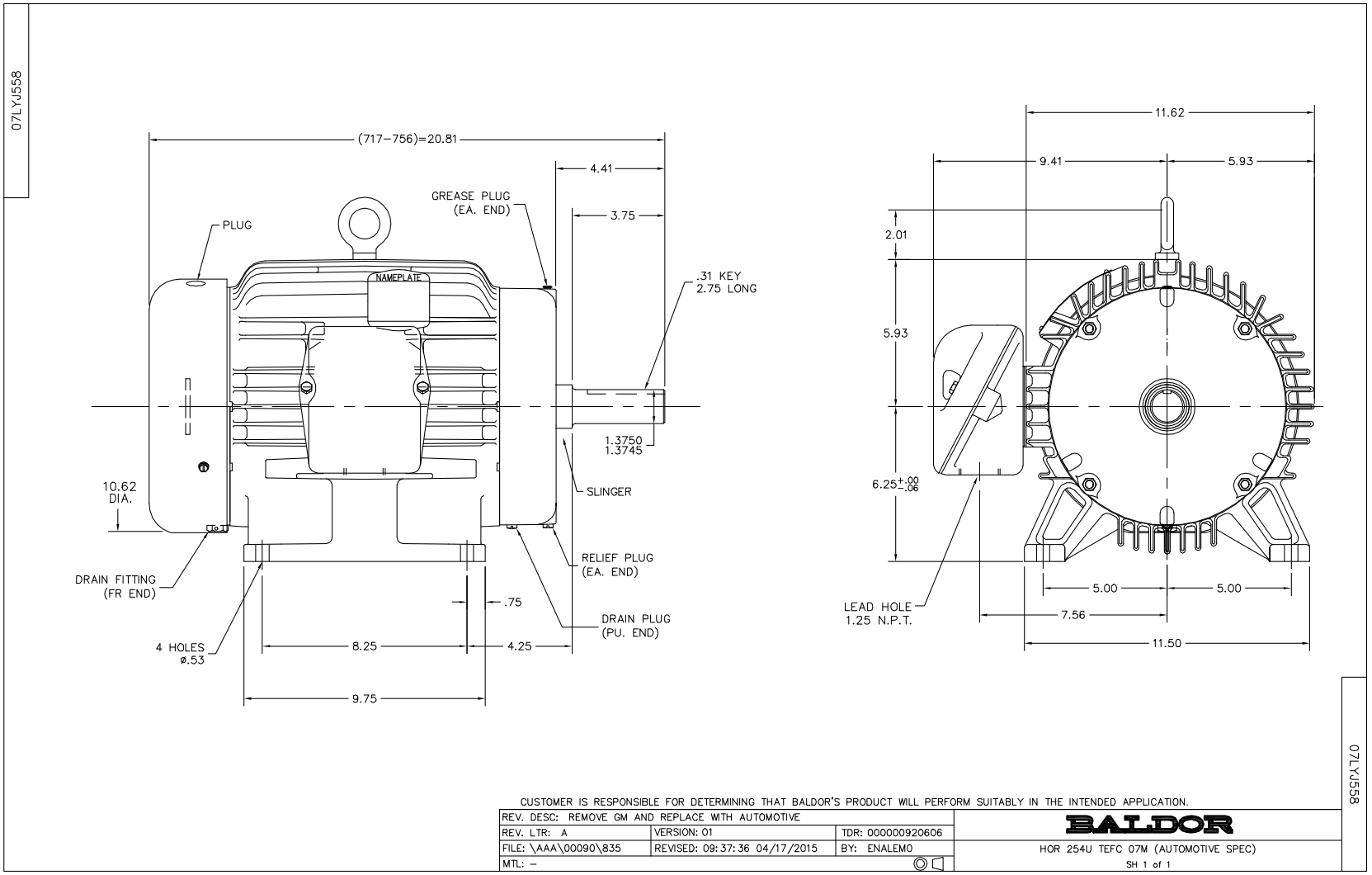
WINDING # 07WGX815

5 HP 3 PH 60 HZ 1160 RPM 460 V 0748M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=64 PU=44 LR=56 LRA=46





CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

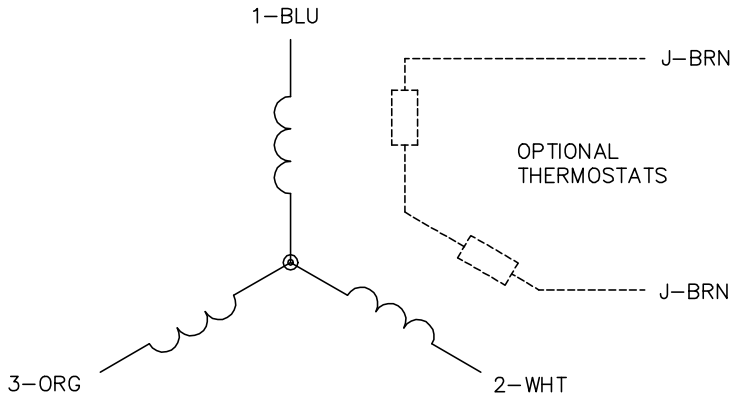
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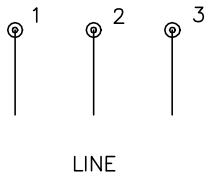
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HOR 254U TEFC 07M (AUTOMOTIVE SPEC)
SH 1 of 1

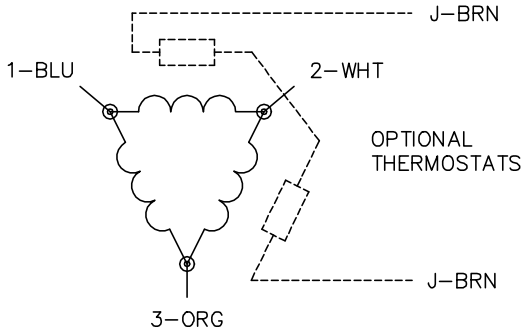
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TYPICAL WYE–CONNECTED MOTOR





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

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BALDOR - RELIANCE®

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

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