ABB BALDOR RELIANCE

Customer information packet

EM2275

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
	230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
Ambient Temperature	40 °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	14.600 A @ 230.0 V
	15.800 A @ 208.0 V
	7.300 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	J
Type	AC
Mech. spec.	07H287
Base	
Status	PRD/A
Elec. spec.	07WGX823
Layout	07LYH287
Eff. date	06-24-2026
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	02-23-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	7.3 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0748M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	20.82 IN
Power Factor	72
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No 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

NP1259L											
CAT.NO.	EM2275										
SPEC.	07H287X823G2										
HP	5										
VOLTS	230/460										
AMP	14.6/7.3										
RPM	1160										
FRAME	254U	**HZ**	60				**PH**	3			
SER.F.	1.15	**CODE**	K	**DES**	A	**CL**	F				
NEMA-NOM-EFF	90.2	**PF**	72								
RATING	40C AMB-CONT										
CC	010A										
DE	6309	**ODE**	6307								
ENCL	TEFC	**SN**									

AC Induction Motor Performance Data
Record # 45035
Typical performance - not guaranteed values

Winding: 07WGX823-R001	**Type:** 0748M	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	22.8 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			14.6/7.3	**Breakdown Torque**	77.4 LB-FT
R.P.M.			1160	**Pull-up Torque**	46.7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	56.1 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	104 A
Service Factor (S.F.)			1.15	**No-load Current**	7.4 A
NEMA Nom. Eff.	90.2	**Power Factor**	72	**Line-line Res. @ 25ºC**	0.419 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	50°C
S.F. Amps				**Temp. Rise @ S.F. Load**	61°C
				Locked-rotor Power Factor	22
				Rotor inertia	1.19 LB-FT2

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	34	54	65	72	75	76	74
Efficiency	85.8	90.1	90.8	90.3	89.1	87.6	89.6
Speed	1190	1181	1173	1163	1151	1138	1156
Line amperes	8.02	9.58	11.8	14.6	17.5	20.9	16.3

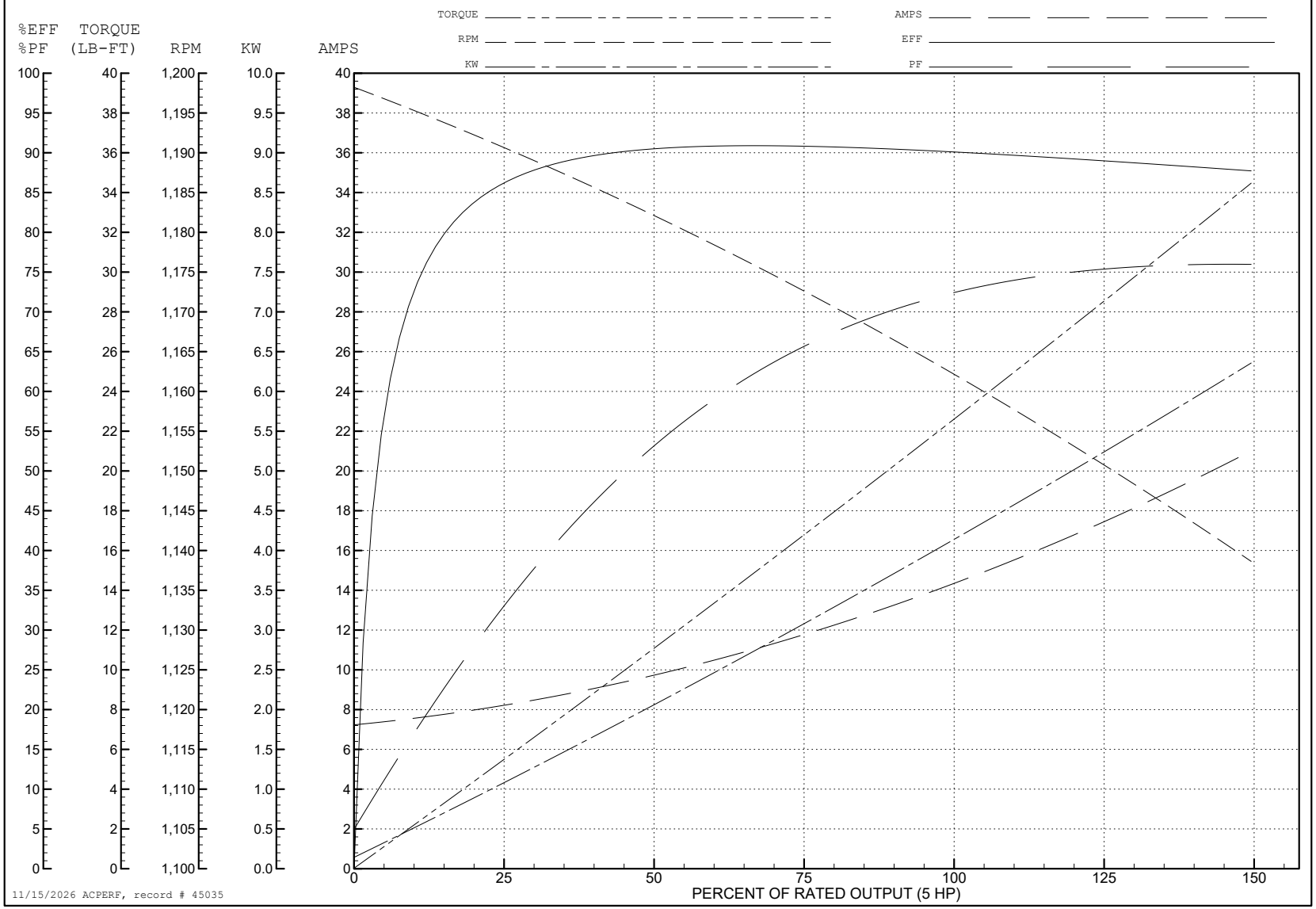
ABB Motors and Mechanical Inc.

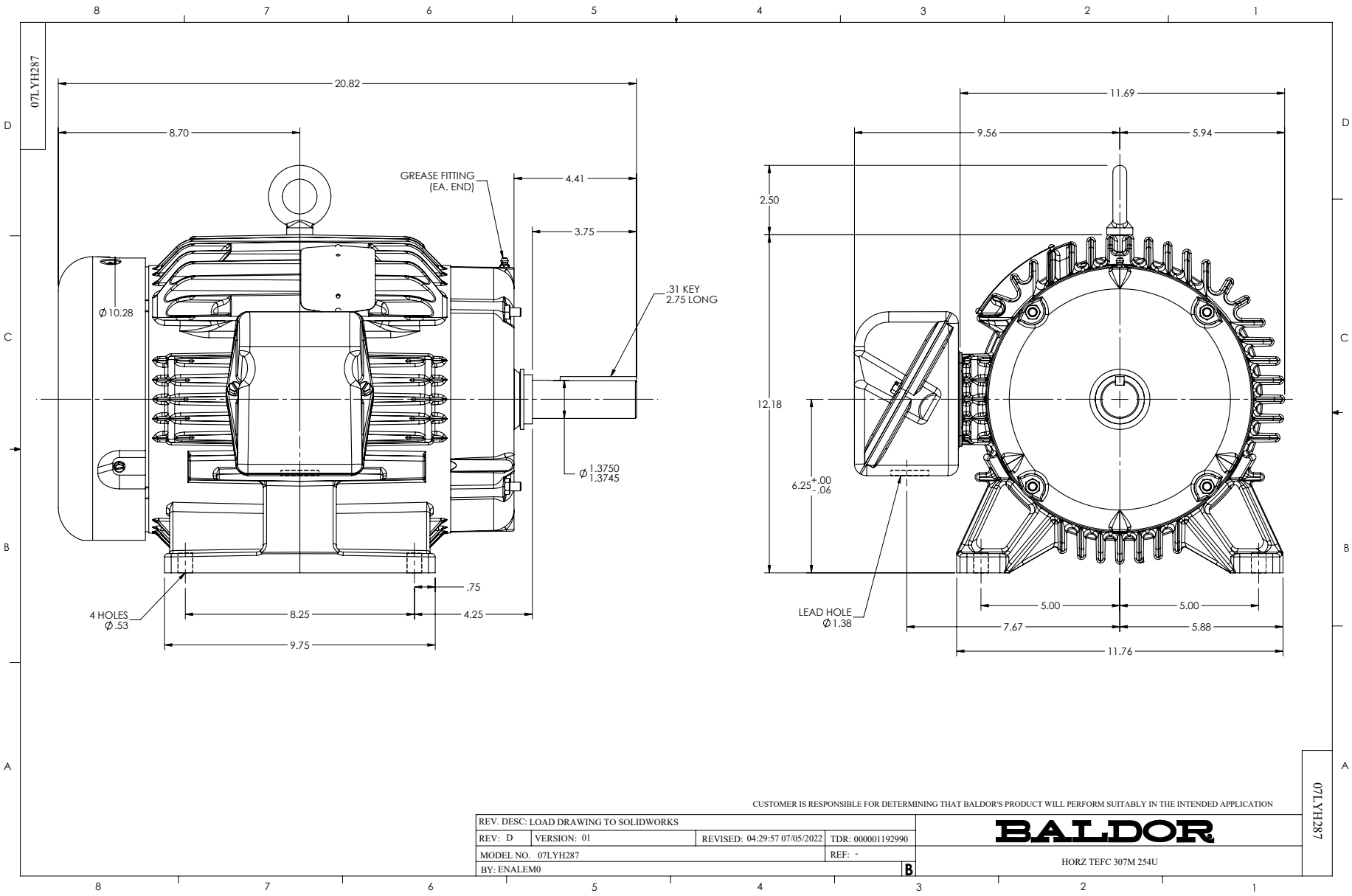
WINDING # 07WGX823

5 HP 3 PH 60 HZ 1160 RPM 230 V 0748M

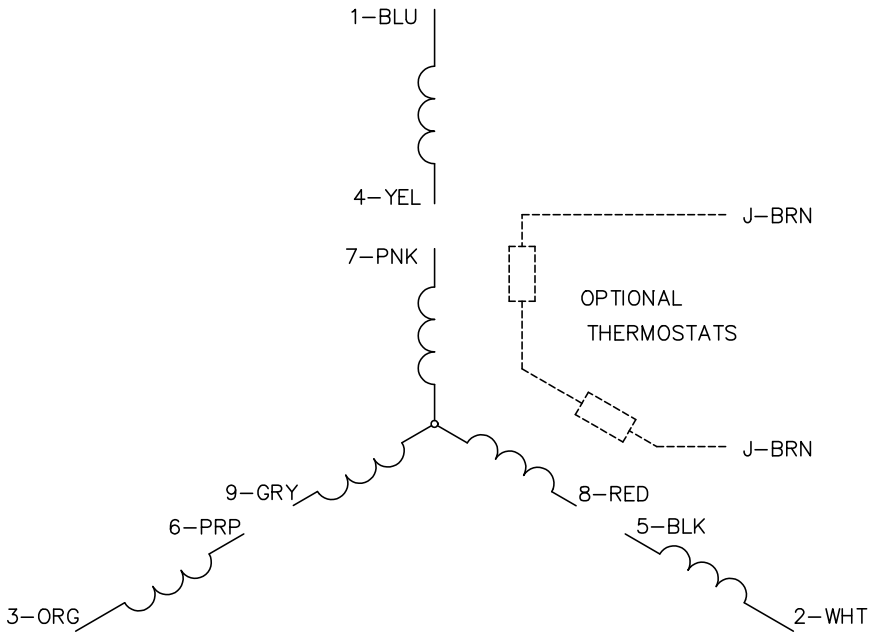
Typical performance - not guaranteed values.

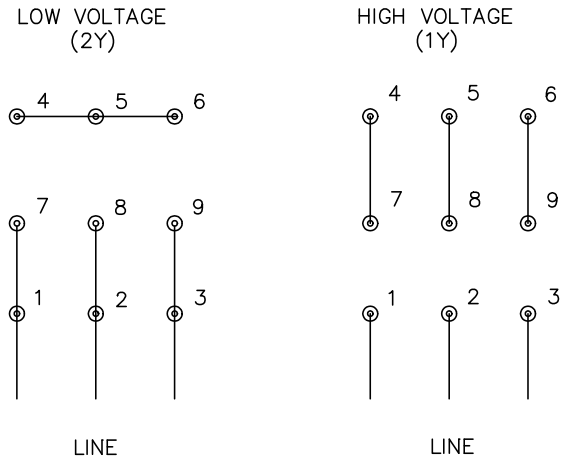
TORQUES(LB-FT): PO=77.4 PU=46.7 LR=56.1 LRA=104




07LYH287
20.82
8.70
GREASE FITTING (EA. END)
4.41
3.75
.31 KEY 2.75 LONG
Ø10.28
Ø1.3750 1.3745
.75
4 HOLES Ø.53
8.25
4.25
9.75
11.69
9.56
5.94
2.50
12.18
6.25 +.00 -.06
LEAD HOLE Ø1.38
5.00
5.00
7.67
5.88
11.76
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: D
VERSION: 01
REVISED: 04:29:57 07/05/2022
TDR: 000001192990
MODEL NO. 07LYH287
REF: -
BY: ENALEM0
B
BALDOR
HORZ TEFC 307M 254U
07LYH287

CD0005





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS