ABB BALDOR RELIANCE

Customer information packet

EM7170T-I-5

10HP, 1765RPM, 3PH, 60HZ, 215T, 0750M, XPFC, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	215T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UL
	CSA
	CSA EEV
	UR
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	10.100 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater

Part Detail

Revision	T
Type	AC
Mech. spec.	07J231
Base	
Status	PRD/A
Elec. spec.	07WGY787
Layout	07LYJ231
Eff. date	09-25-2026
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	08-04-2010

High Voltage Full Load Amps	10.1 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	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	X0750M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.03 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
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	1765 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2	None

Nameplate

NP0977XPSLEV												
NO.						**CC**	010A					
SER.						**TEMP CODE**	T3C					
SPEC.	07J231Y787G1											
CAT.NO.	EM7170T-I-5											
HP	10											
VOLTS	575											
AMPS	10.1											
RPM	1765					**MOTOR WEIGHT**	252					
HERTZ	60	**PH**	3	**CL**	F	**DE BRG**	6307					
SER.F.	1.15	**DES**	A	**CODE**	J	**ODE BRG**	6206					
FRAME	215T	**GREASE**	POLYREX EM									
RATING	40C AMB-CONT 55C AMB AT 1.0 SF											
				NEMA-NOM-EFF		92.4	**PF**	80				
	NEMA MG-1 PT 5,IP55											

AC Induction Motor Performance Data
Record # 32082
Typical performance - not guaranteed values

Winding: 07WGY787-R001	**Type:** 0750M	**Enclosure:** XPFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			10	**Full Load Torque**	29.7 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			10.1	**Breakdown Torque**	95.8 LB-FT
R.P.M.			1765	**Pull-up Torque**	57.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	63.5 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	78 A
Service Factor (S.F.)			1.15	**No-load Current**	4.63 A
NEMA Nom. Eff.	92.4	**Power Factor**	80	**Line-line Res. @ 25ºC**	1.35 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	59°C
S.F. Amps				**Temp. Rise @ S.F. Load**	72°C
				Locked-rotor Power Factor	35
				Rotor inertia	1.23 LB-FT2

Load Characteristics 575 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	40	62	75	80	83	85	82
Efficiency	90.5	93.6	92.9	92.4	91.6	90.4	91.9
Speed	1790	1782	1772	1764	1754	1744	1758
Line amperes	5.16	6.41	8.1	10.1	12.3	14.7	11.4

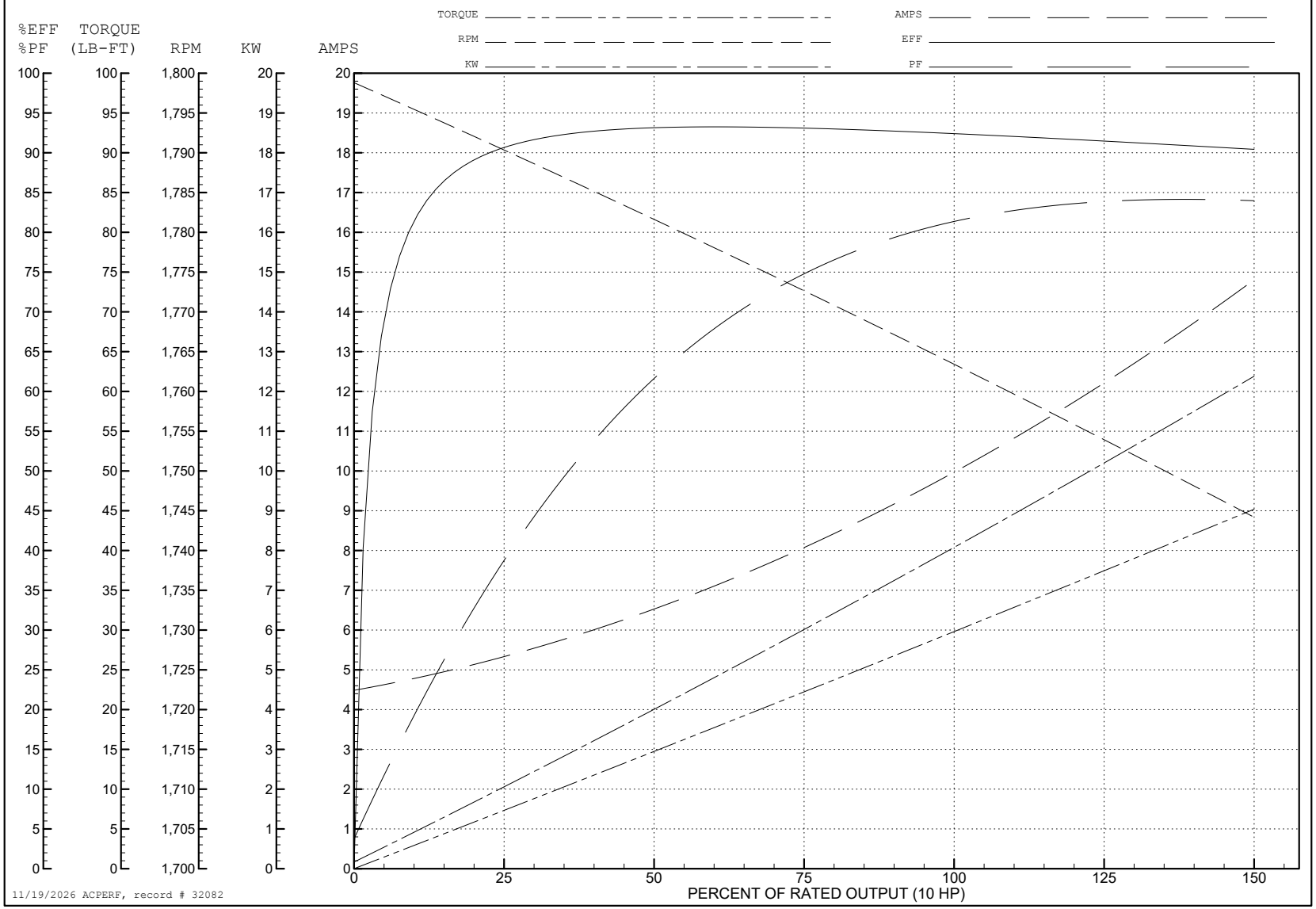
ABB Motors and Mechanical Inc.

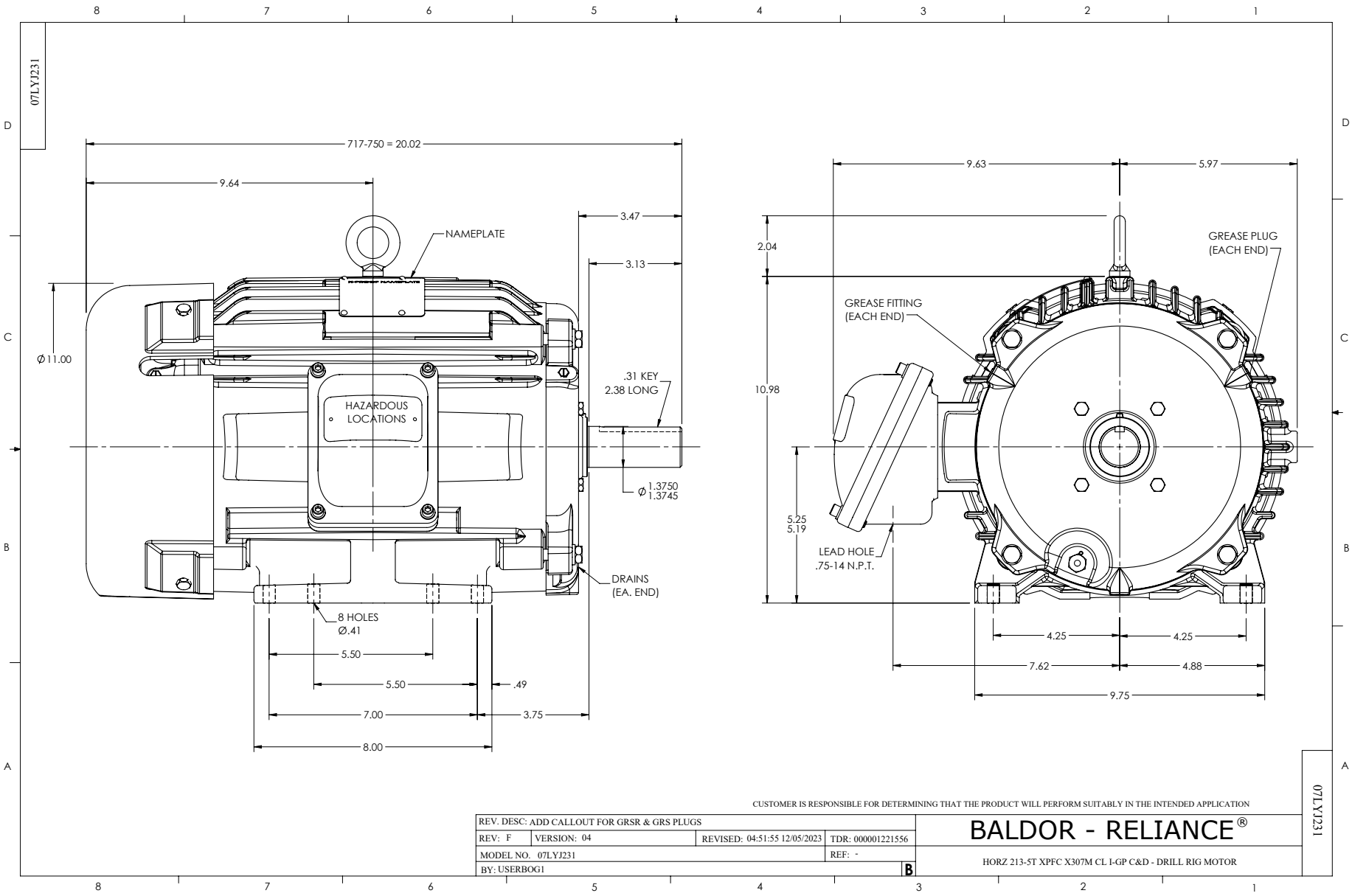
WINDING # 07WGY787

10 HP 3 PH 60 HZ 1765 RPM 575 V 0750M

Typical performance - not guaranteed values.

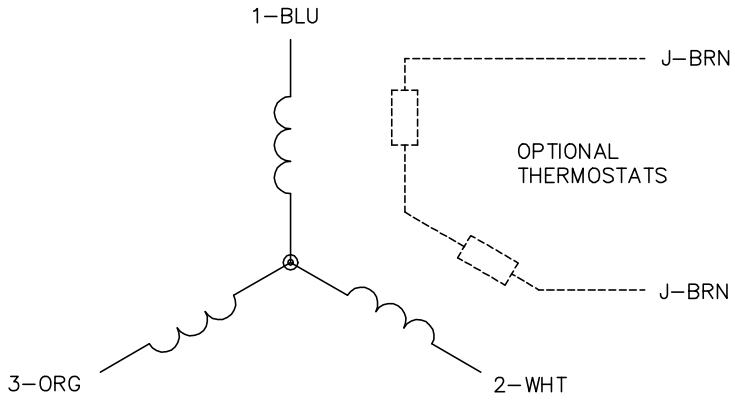
TORQUES(LB-FT): PO=95.8 PU=57.3 LR=63.5 LRA=78

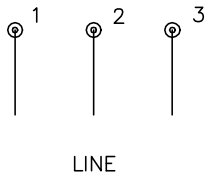



07LYJ231
717-750 = 20.02
9.64
3.47
3.13
NAMEPLATE
Ø11.00
HAZARDOUS LOCATIONS
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
DRAINS
(EA. END)
8 HOLES
Ø.41
5.50
5.50
.49
7.00
3.75
8.00
9.63
5.97
2.04
GREASE PLUG
(EACH END)
GREASE FITTING
(EACH END)
10.98
5.25
5.19
LEAD HOLE
.75-14 N.P.T.
4.25
4.25
7.62
4.88
9.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD CALLOUT FOR GRSR & GRS PLUGS
REV: F
VERSION: 04
REVISED: 04:51:55 12/05/2023
TDR: 000001221556
MODEL NO. 07LYJ231
REF: -
BY: USERBOG1
B
BALDOR - RELIANCE®
HORZ 213-5T XPFC X307M CL I-GP C&D - DRILL RIG MOTOR
07LYJ231

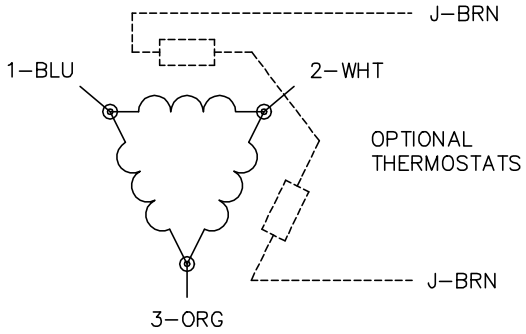
CD0006

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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