ABB BALDOR RELIANCE

Customer information packet

DRX21124T

10HP, 3490//2900RPM, 3PH, 60HZ, 215T, XPFC, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	215T
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 50 HZ
	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
Agency Approvals	UL
	CSA EEV
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
Constant Torque Speed Range	6
Current @ Voltage	11.000 A @ 380.0 V
	11.800 A @ 460.0 V
	21.600 A @ 190.0 V
	23.600 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	07WGY855
Layout	07LYJ231
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	04-01-2019

Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	11.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0730M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	20.03 IN
Power Factor	87
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3490 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

NP1401XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	07-0000-0054			**INV.TYPE**	PWM						
CAT.NO.	DRX21124T			**C HP FR**	60	**C HP TO**	90				
HP	10//7.5			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	23.6/11.8//21.6/11		**MAG CUR**	7.2/3.6							
RPM	3490//2900		**MX RPM**	5400							
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	90.2				
SER.F.	1.00	**DES**	B	**SL HZ**	1.8	**WK2**	0.273				
FRAME	215T	**RATING**	40C AMB-CONT								
	55 C AMB @ 1.0 SF										
	1.15 SF SINEWAVE			NEMA MG-1 PT 5,IP55							

AC Induction Motor Performance Data
Record # 73682
Typical performance - not guaranteed values

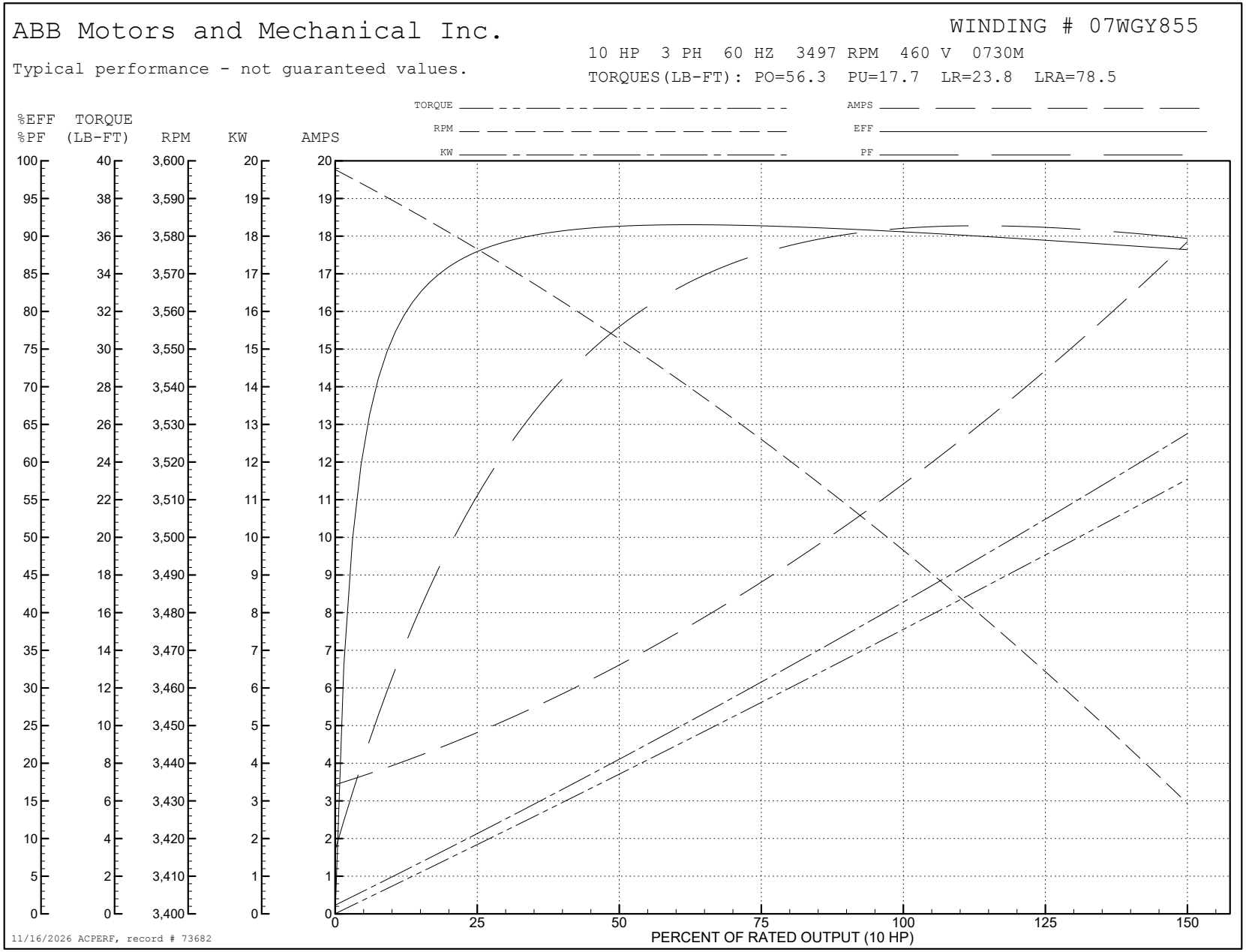
Winding: 07WGY855-R021	**Type:** 0730M	**Enclosure:** TEFC

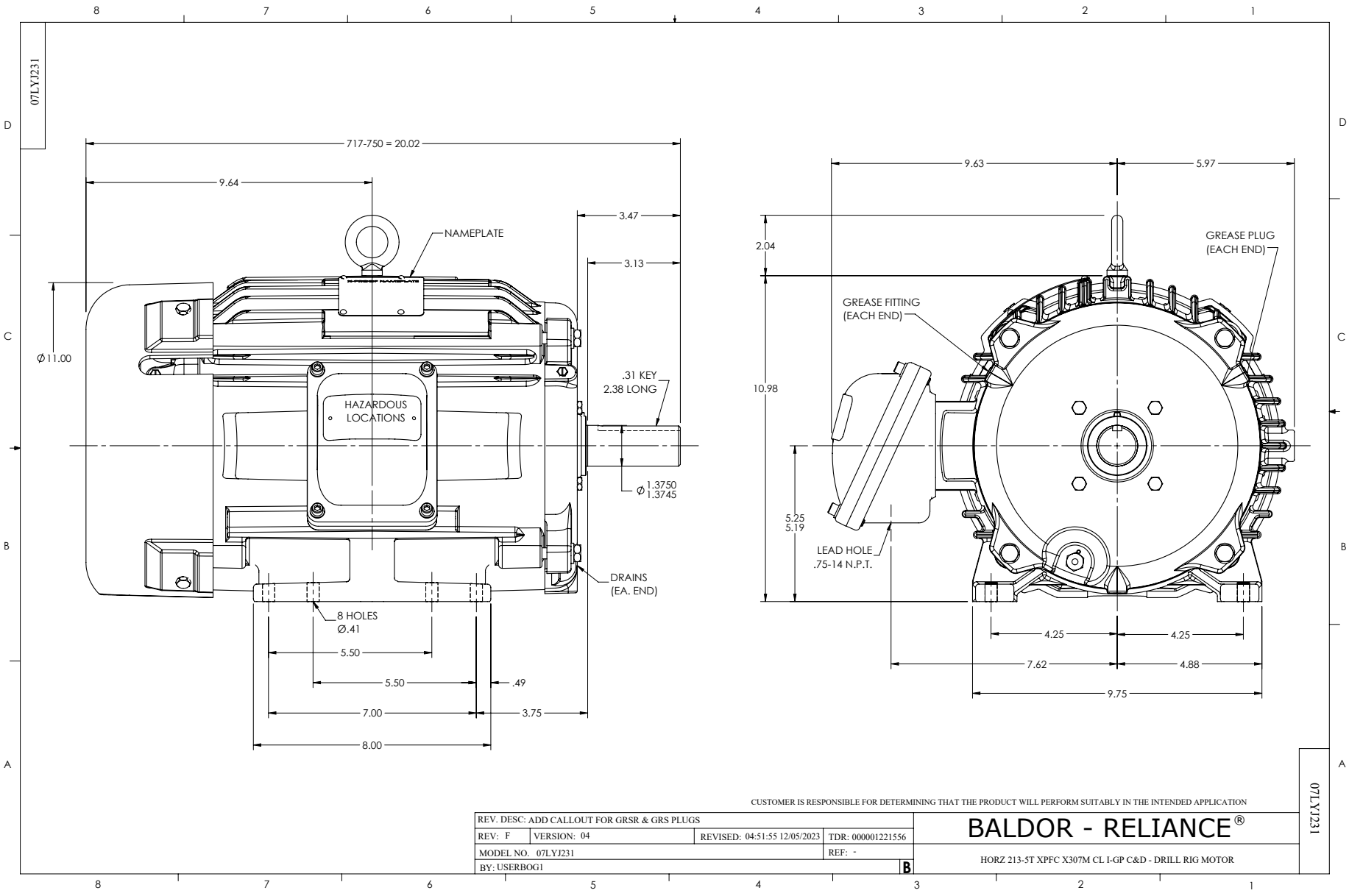
Nameplate Data			
Rated Output (HP)			10//7.5
Volts			230/460//190/380
Full Load Amps			23.6/11.8//21.6/11
R.P.M.			3490//2900
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	G
Service Factor (S.F.)			1
NEMA Nom. Eff.	90.2	**Power Factor**	87
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	15.1 LB-FT
Start Configuration	direct on line
Breakdown Torque	56.3 LB-FT
Pull-up Torque	17.7 LB-FT
Locked-rotor Torque	23.8 LB-FT
Starting Current	78.5 A
No-load Current	3.65 A
Line-line Res. @ 25ºC	1.05 Ω
Temp. Rise @ Rated Load	63°C
Temp. Rise @ S.F. Load	79°C
Locked-rotor Power Factor	33.7
Rotor inertia	0.273 lb-ft²

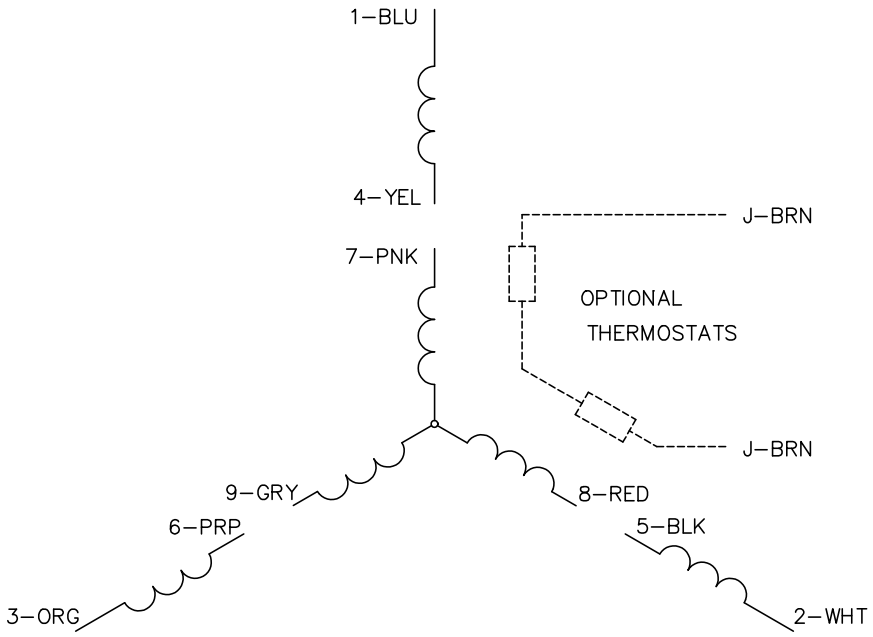
Load Characteristics 460 V, 60 Hz, 10 HP

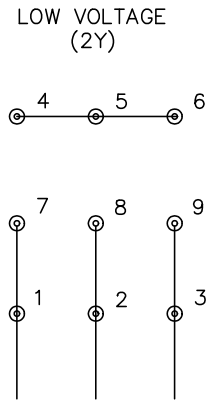
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	60	80	87	90	90	90
Efficiency	88	91.4	91.3	90.5	89.5	88.2
Speed	3576	3551	3525	3497	3465	3429
Line amperes	4.55	6.56	8.97	11.6	14.5	17.7

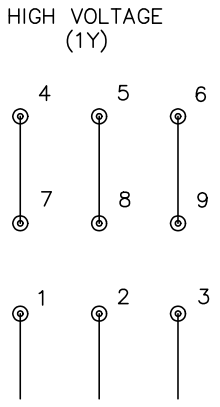

ABB Motors and Mechanical Inc.
WINDING # 07WGY855
10 HP 3 PH 60 HZ 3497 RPM 460 V 0730M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=56.3 PU=17.7 LR=23.8 LRA=78.5
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/16/2026 ACPERF, record # 73682


07LYJ231
717-750 = 20.02
9.64
3.47
3.13
NAMEPLATE
Ø11.00
.31 KEY
2.38 LONG
HAZARDOUS
LOCATIONS
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

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