

**BALDOR • RELIANCE**

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# Customer information packet

## DRX21124T

10HP, 3490//2900RPM, 3PH, 60HZ, 215T, XPFC, F1

Class - CLI GP C,D

Division - Division I

## 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
Auxillary Box	No Auxillary Box
Auxillary 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**

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**Winding Thermal 2**

**None**

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**Nameplate**

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

**AC Induction Motor Performance Data**

Record # 73682

Typical performance - not guaranteed values

Winding: 07WGY855-R021		Type: 0730M	Enclosure: TEFC			
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>			
Rated Output (HP)	10//7.5		Full Load Torque	15.1 LB-FT		
Volts	230/460//190/380		Start Configuration	direct on line		
Full Load Amps	23.6/11.8//21.6/11		Breakdown Torque	56.3 LB-FT		
R.P.M.	3490//2900		Pull-up Torque	17.7 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque	23.8 LB-FT	
NEMA Design Code	B		KVA Code	G	Starting Current	78.5 A
Service Factor (S.F.)	1				No-load Current	3.65 A
NEMA Nom. Eff.	90.2	Power Factor	87		Line-line Res. @ 25°C	1.05 Ω
Rating - Duty	40C		AMB-CONT		Temp. Rise @ Rated Load	63°C
S.F. Amps					Temp. Rise @ S.F. Load	79°C
					Locked-rotor Power Factor	33.7
					Rotor inertia	0.273 lb-ft <sup>2</sup>

**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

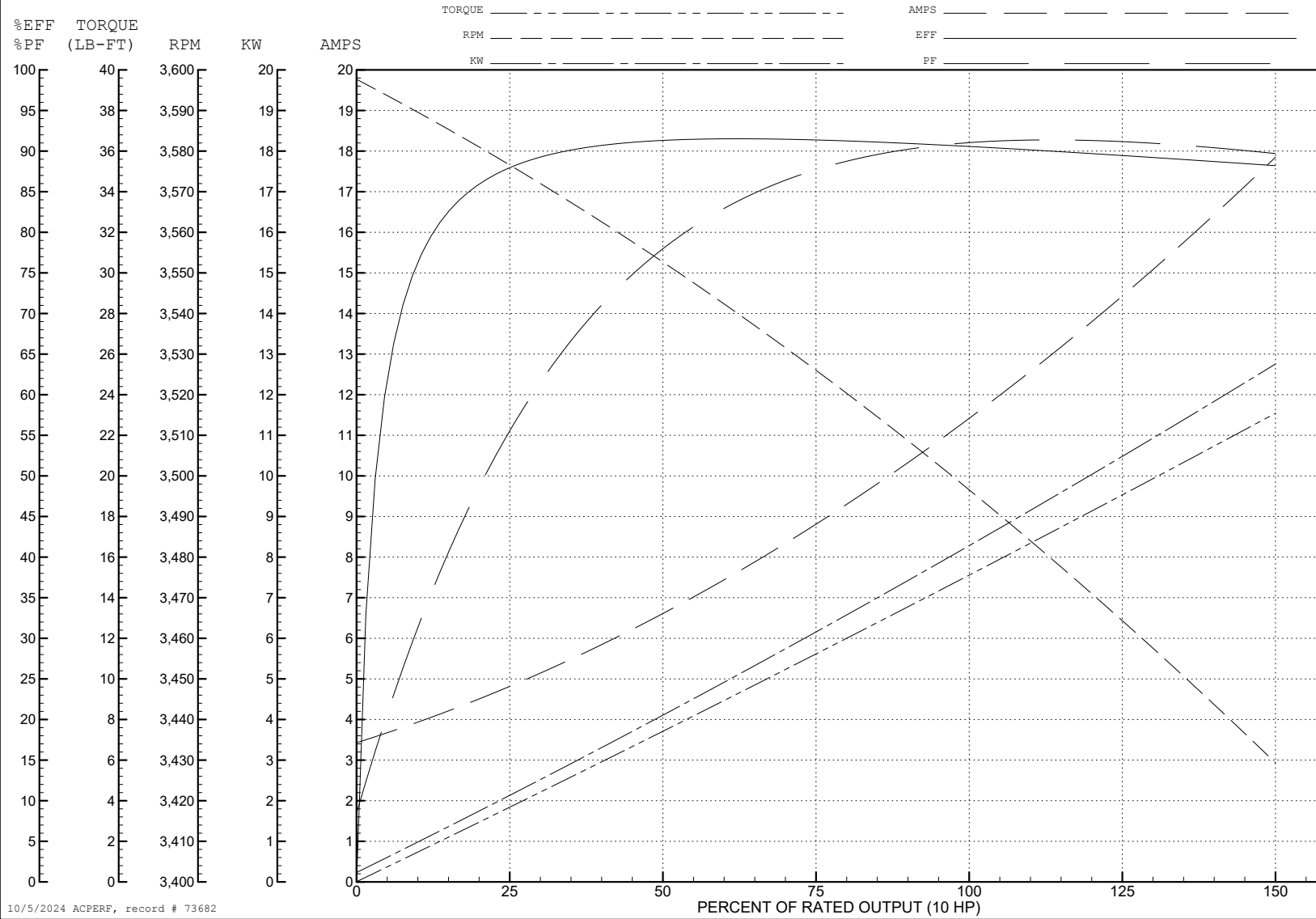
ABB Motors and Mechanical Inc.

WINDING # 07WGY855

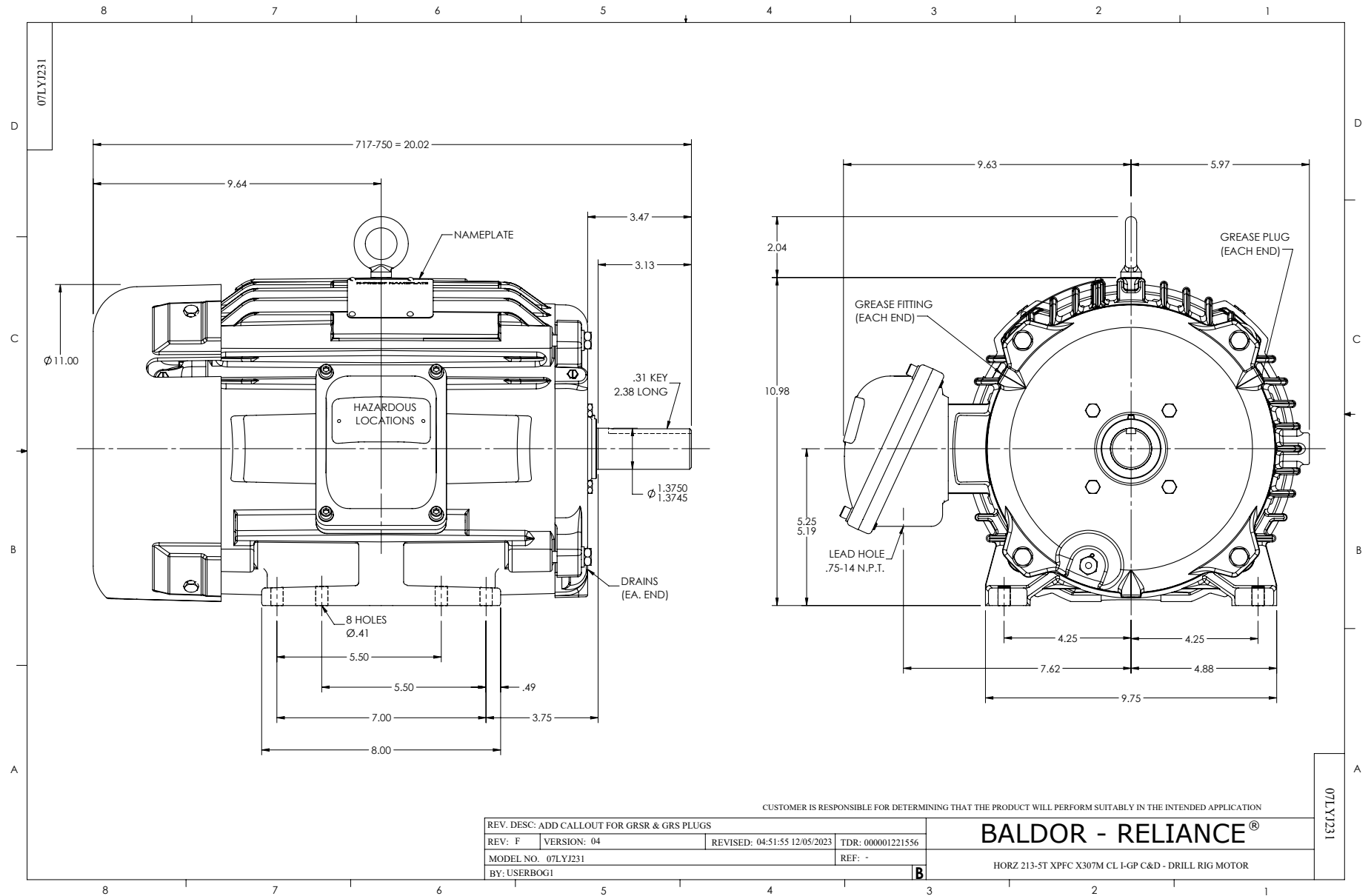
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3497 RPM 460 V 0730M

TORQUES (LB-FT): PO=56.3 PU=17.7 LR=23.8 LRA=78.5

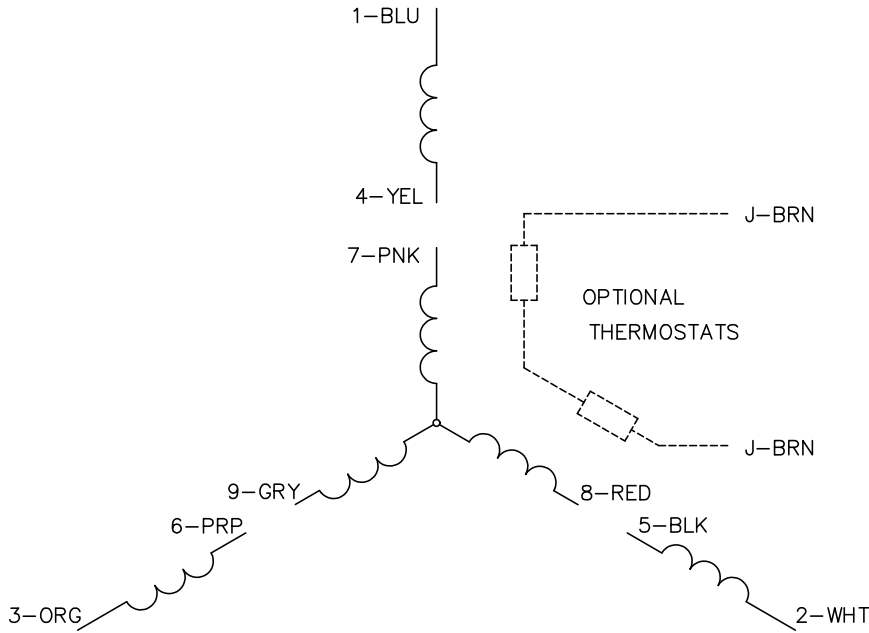


10/5/2024 ACPERF, record # 73682

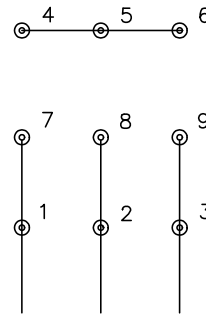




CD0005

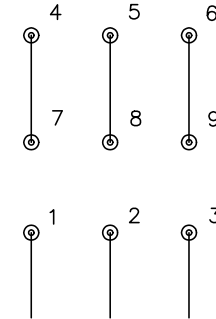


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

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

REV. LTR: E BY: JLP REVISED: 01/19/99 10:15 TDR: 0171435

500000

FILE: AAA00005140

MDL: -

MTL: -

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS