ABB BALDOR RELIANCE

Customer information packet

DRX21144T

10HP, 1765//1465RPM, 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	1800 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	11.600 A @ 380.0 V
	12.500 A @ 460.0 V
	23.200 A @ 190.0 V
	25.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	07WGX598
Layout	07LYJ231
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	04-01-2019

Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	11.6 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0750M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.03 IN
Power Factor	81
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	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

NP1401XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	07-0000-0053			**INV.TYPE**	PWM						
CAT.NO.	DRX21144T			**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	25/12.5//23.2/11.6		**MAG CUR**	5.6							
RPM	1765//1465		**MX RPM**	2700							
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	91.7				
SER.F.	1.00	**DES**	A	**SL HZ**	1.2	**WK2**	1.18				
FRAME	215T	**RATING**	40C AMB-CONT								
	55C AMB @ 1.0 SF										
	1.15 SF SINEWAVE			NEMA MG-1 PT 5,IP55							

AC Induction Motor Performance Data
Record # 39054
Typical performance - not guaranteed values

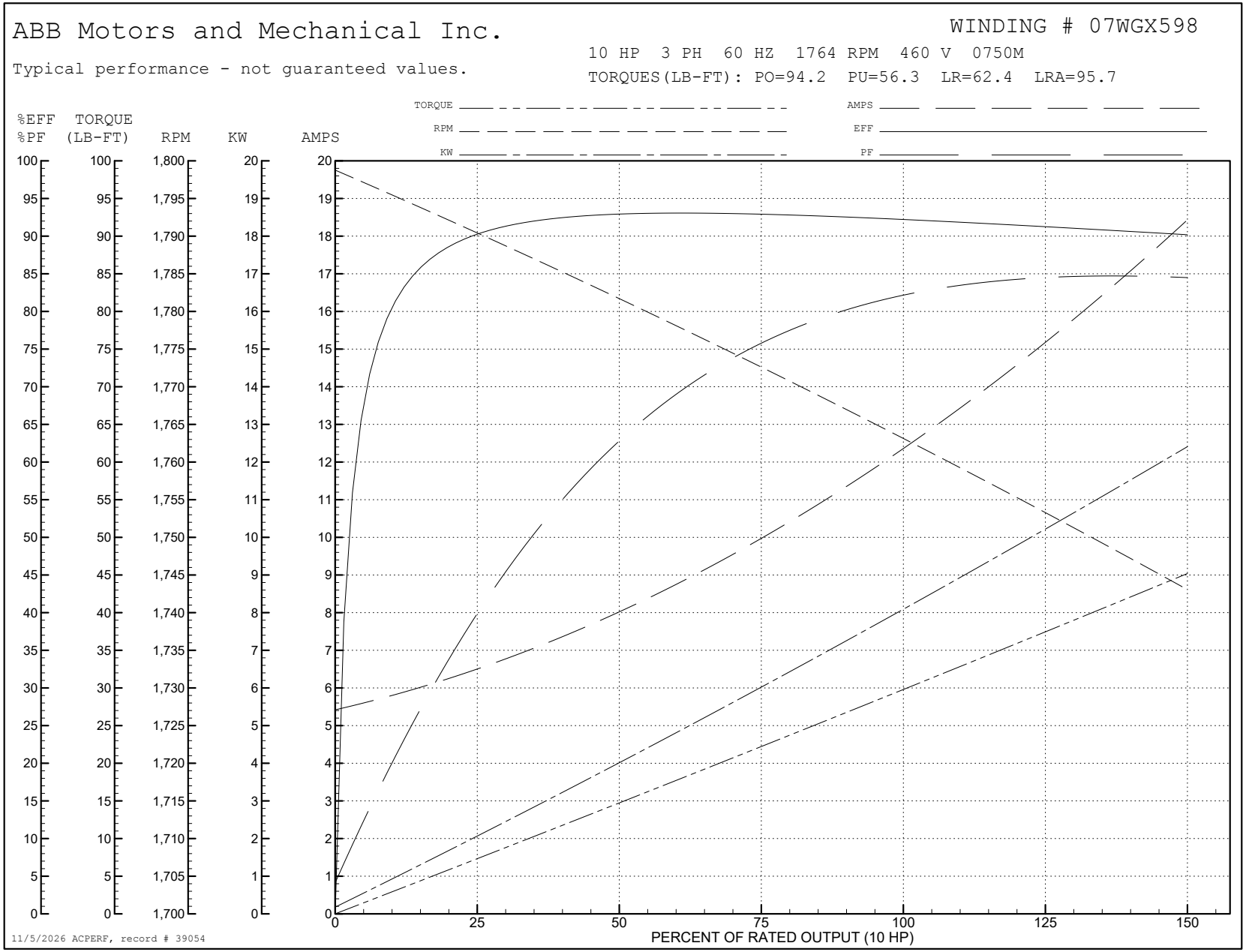
Winding: 07WGX598-R007	**Type:** 0750M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			10//7.5
Volts			230/460//190/380
Full Load Amps			24.6/12.3//23/11.5
R.P.M.			1765//1465
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	92.4	**Power Factor**	81
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	29.7 LB-FT
Start Configuration	direct on line
Breakdown Torque	94.2 LB-FT
Pull-up Torque	56.3 LB-FT
Locked-rotor Torque	62.4 LB-FT
Starting Current	95.7 A
No-load Current	5.6 A
Line-line Res. @ 25ºC	0.867 Ω
Temp. Rise @ Rated Load	55°C
Temp. Rise @ S.F. Load	70°C
Locked-rotor Power Factor	35
Rotor inertia	1.23 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	41	64	76	81	84	85	83
Efficiency	89.8	93.6	92.6	92.4	91.3	90.2	91.7
Speed	1790	1782	1772	1764	1753	1743	1757
Line amperes	6.28	7.9	10	12.5	15.3	18.3	14.2


ABB Motors and Mechanical Inc.
WINDING # 07WGX598
10 HP 3 PH 60 HZ 1764 RPM 460 V 0750M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=94.2 PU=56.3 LR=62.4 LRA=95.7
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
11/5/2026 ACPERF, record # 39054
PERCENT OF RATED OUTPUT (10 HP)

AC Induction Motor Performance Data
Record # 73683
Typical performance - not guaranteed values

Winding: 07WGX598-R015	**Type:** 0750M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			10//7.5
Volts			230/460//190/380
Full Load Amps			25/12.5//23.2/11.6
R.P.M.			1765//1465
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1
NEMA Nom. Eff.	91.7	**Power Factor**	81
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	29.7 LB-FT
Start Configuration	direct on line
Breakdown Torque	94.2 LB-FT
Pull-up Torque	56.3 LB-FT
Locked-rotor Torque	62.4 LB-FT
Starting Current	95.7 A
No-load Current	5.6 A
Line-line Res. @ 25ºC	0.866 Ω
Temp. Rise @ Rated Load	55°C
Locked-rotor Power Factor	35.2
Rotor inertia	1.23 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	41	64	76	81	84	85
Efficiency	89.8	93.5	92.5	92.2	91.3	90.1
Speed	1790	1782	1772	1764	1753	1743
Line amperes	6.28	7.9	10	12.5	15.3	18.3

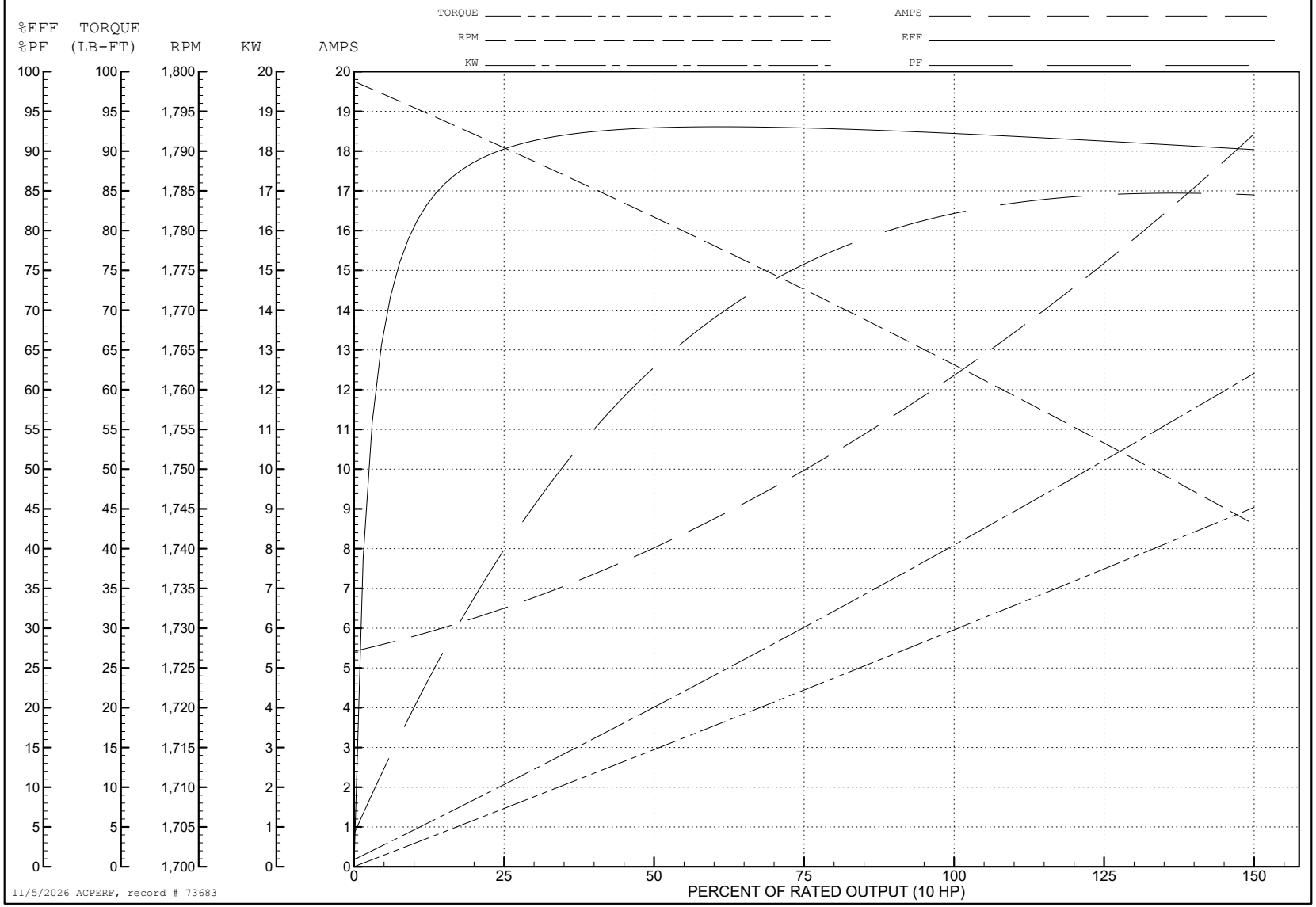
ABB Motors and Mechanical Inc.

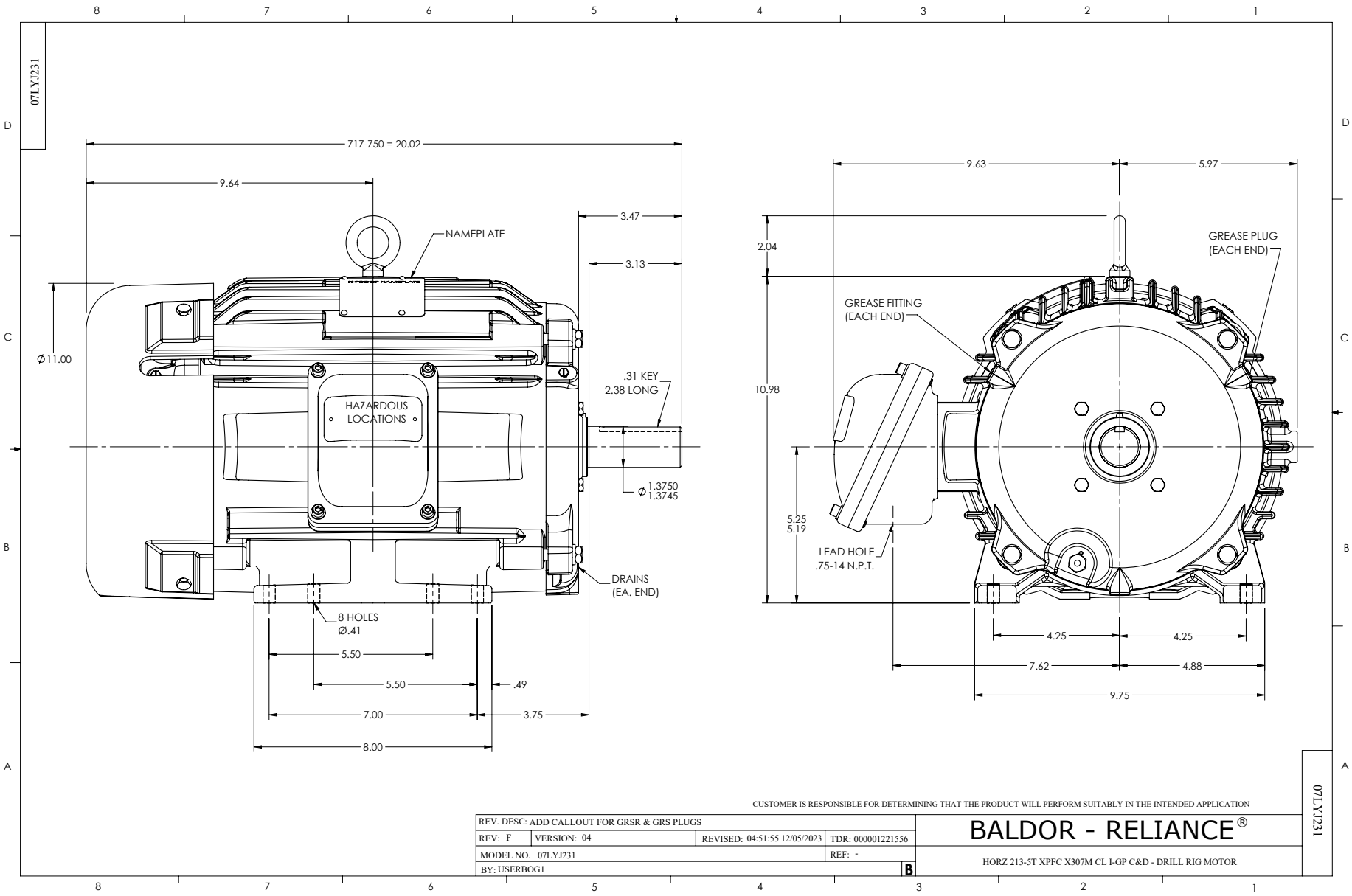
WINDING # 07WGX598

10 HP 3 PH 60 HZ 1764 RPM 460 V 0750M

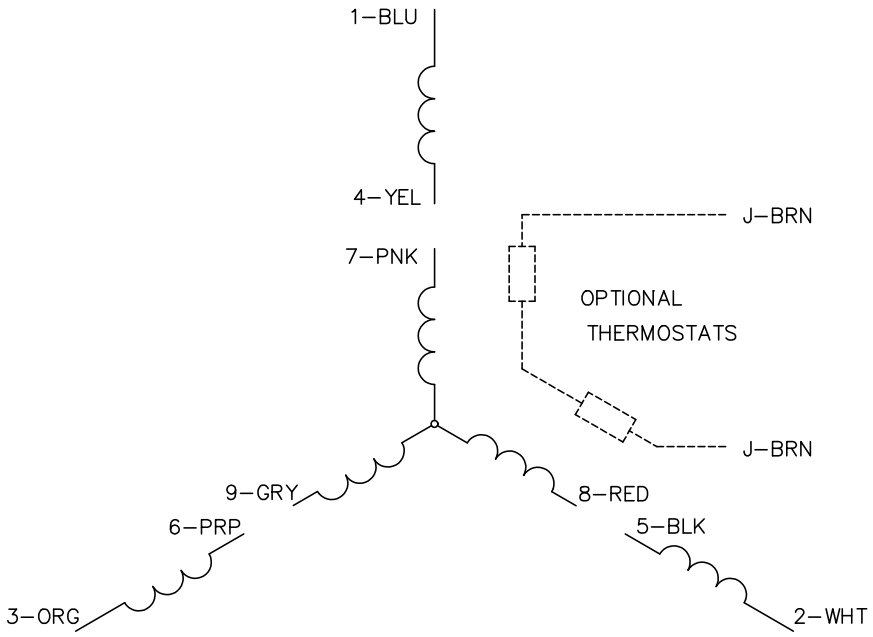
Typical performance - not guaranteed values.

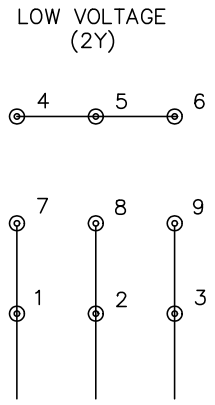
TORQUES(LB-FT): PO=94.2 PU=56.3 LR=62.4 LRA=95.7

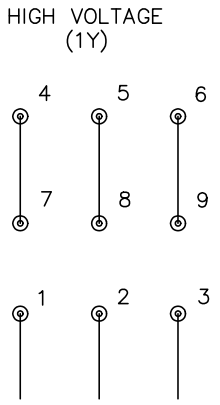



07LYJ231
717-750 = 20.02
9.64
3.47
3.13
NAMEPLATE
Ø11.00
HAZARDOUS LOCATIONS
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
DRAINS
(EA. END)
8 HOLES
Ø.41
5.50
5.50
.49
7.00
3.75
8.00
9.63
5.97
2.04
GREASE PLUG
(EACH END)
GREASE FITTING
(EACH END)
10.98
5.25
5.19
LEAD HOLE
.75-14 N.P.T.
4.25
4.25
7.62
4.88
9.75
CUSTOMER 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

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