

ABB BALDOR RELIANCE III

Customer information packet

DRX21724T-5

7.5HP, 3510RPM, 3PH, 60HZ, 213T, XPFC, F1

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	213T
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV UL
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	7.200 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	7.2 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	07WGR535
Layout	07LYJ231
Eff. date	02-14-2024
CD Diagram	CD0006
Poles	02
Leads	3#14
Proprietary	False
Created date	07-18-2019

IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0726M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	20.03 IN
Power Factor	86
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	3510 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.	07-0000-0197					INV.TYPE		PWM			
CAT.NO.	DRX21724T-5					C HP FR	60	C HP TO	90		
HP	7.5					CT HZ FROM	6	CT HZ TO	60		
VOLTS	575					VT HZ FROM	6	VT HZ TO	60		
AMPS	7.2				MAG CUR	2.9					
RPM	3510				MX RPM	5400					
HZ	60	PH	3	CL	F	NOM.EFF.	89.5				
SER.F.	1.00	DES	B	SL HZ	1.5	WK2	0.25				
FRAME	213T	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 # 77544

Typical performance - not guaranteed values

Winding: 07WGR535-R001			Type: 0726M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		7.5	Full Load Torque		11.2 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		7.2	Breakdown Torque		39.4 LB-FT		
R.P.M.		3510	Pull-up Torque		20.8 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		23.9 LB-FT	
NEMA Design Code		B	KVA Code		H		
Service Factor (S.F.)		1	Starting Current		49.7 A		
NEMA Nom. Eff.		89.5	Power Factor		86		
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		44°C
					Locked-rotor Power Factor		34.1
					Rotor inertia		0.237 LB-FT2

Load Characteristics 575 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	50	73	81	86	89	89
Efficiency	83.6	89.2	90.3	90.7	89.4	88.2
Speed	3581	3560	3537	3514	3487	3458
Line amperes	3.33	4.33	5.71	7.18	8.78	10.7

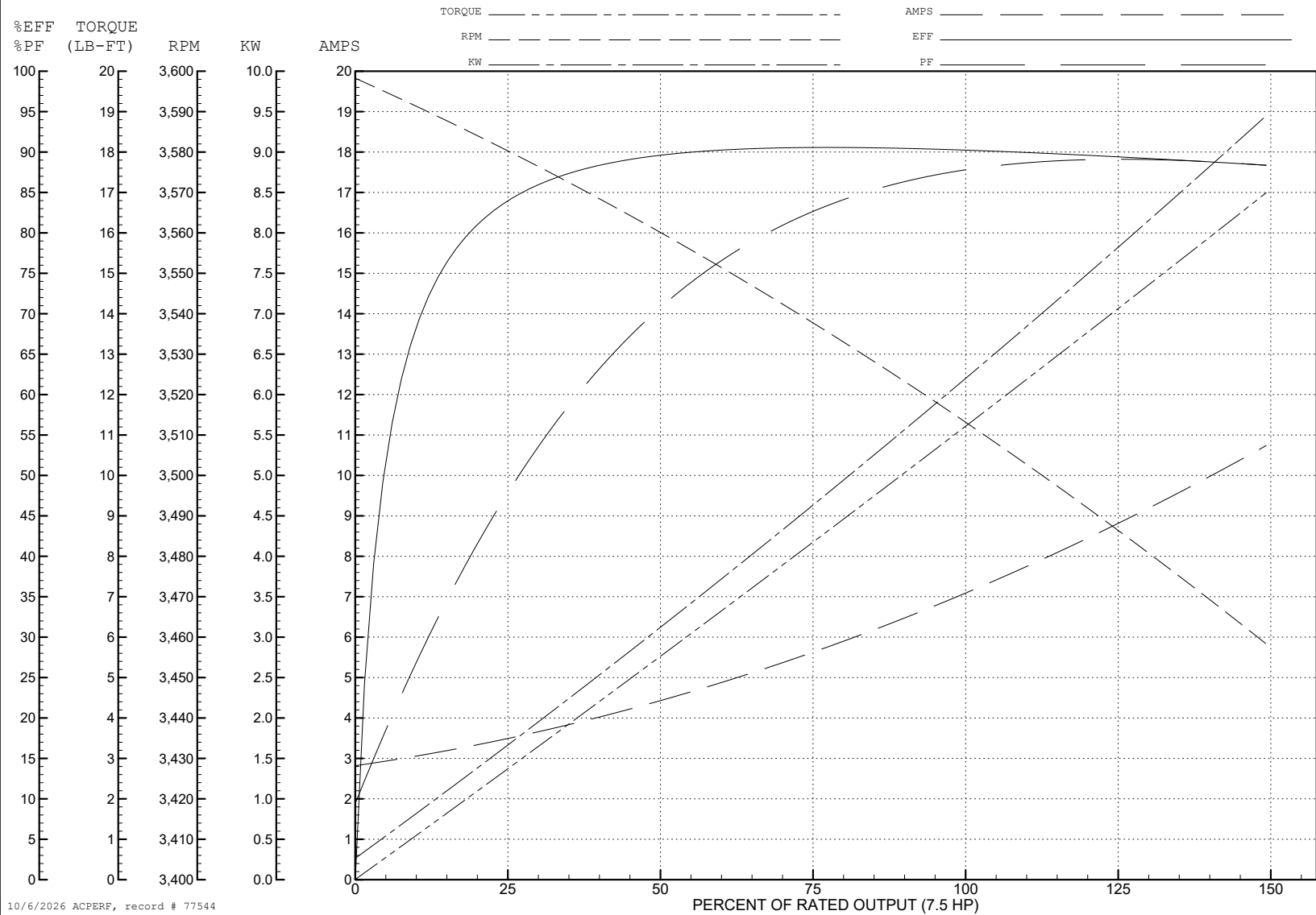
ABB Motors and Mechanical Inc.

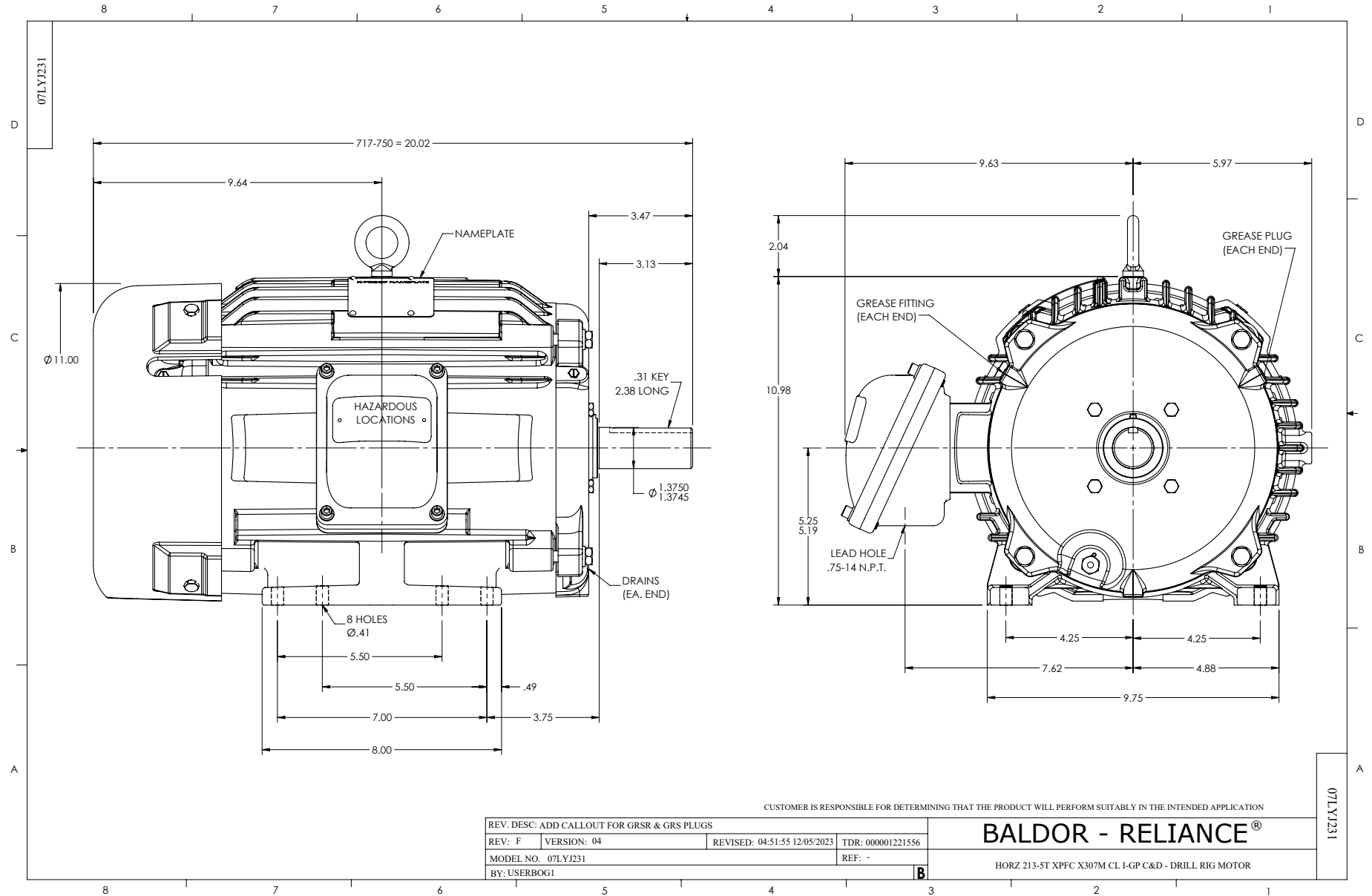
WINDING # 07WGR535

Typical performance - not guaranteed values.

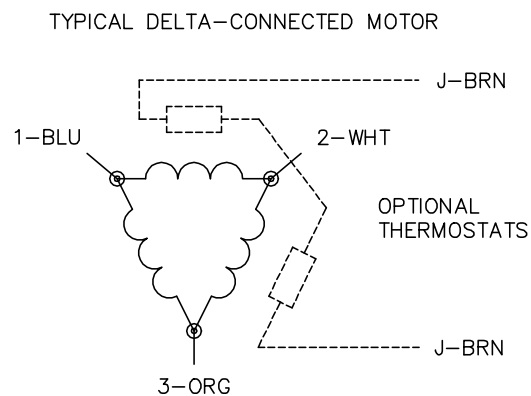
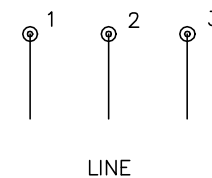
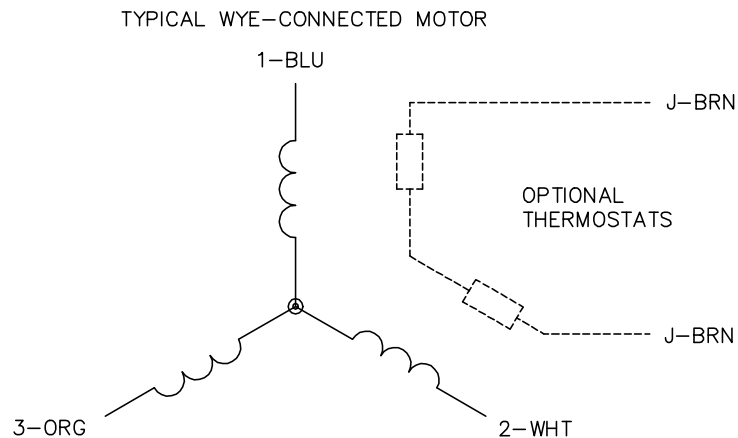
7.5 HP 3 PH 60 HZ 3510 RPM 575 V 0726M

TORQUES (LB-FT): PO=39.4 PU=20.8 LR=23.9 LRA=49.7





CD0006


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: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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