ABB BALDOR RELIANCE

Customer information packet

CDRX21724T-5

7.5HP, 3510RPM, 3PH, 60HZ, 213TC, XPFC, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	213TC
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	07LYJ232
Eff. date	02-14-2024
CD Diagram	CD0006
Poles	02
Leads	3#14
Proprietary	False
Created date	07-22-2019

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	20.78 IN
Power Factor	86
Product Family	General Purpose
Pulley Face Code	C-Face
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.	07-0000-0208			**INV.TYPE**	PWM							
CAT.NO.	CDRX21724T-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	213TC	**RATING**	40C AMB-CONT									
	1.15 SF SINEWAVE											
	55C AMB @ 1.0SF				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	**Starting Current**	49.7 A
Service Factor (S.F.)			1	**No-load Current**	2.94 A
NEMA Nom. Eff.	89.5	**Power Factor**	86	**Line-line Res. @ 25ºC**	1.86 Ω
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

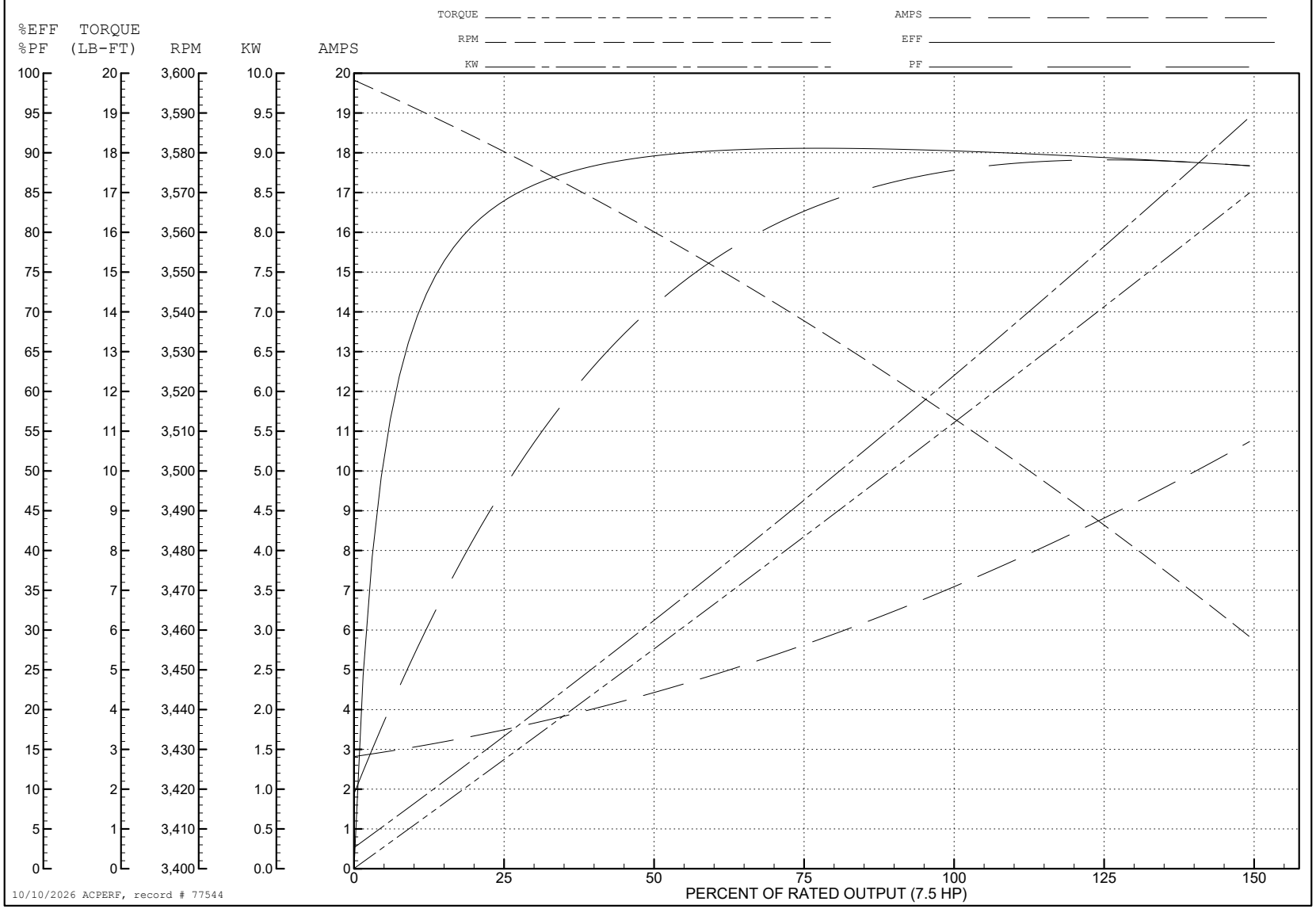
ABB Motors and Mechanical Inc.

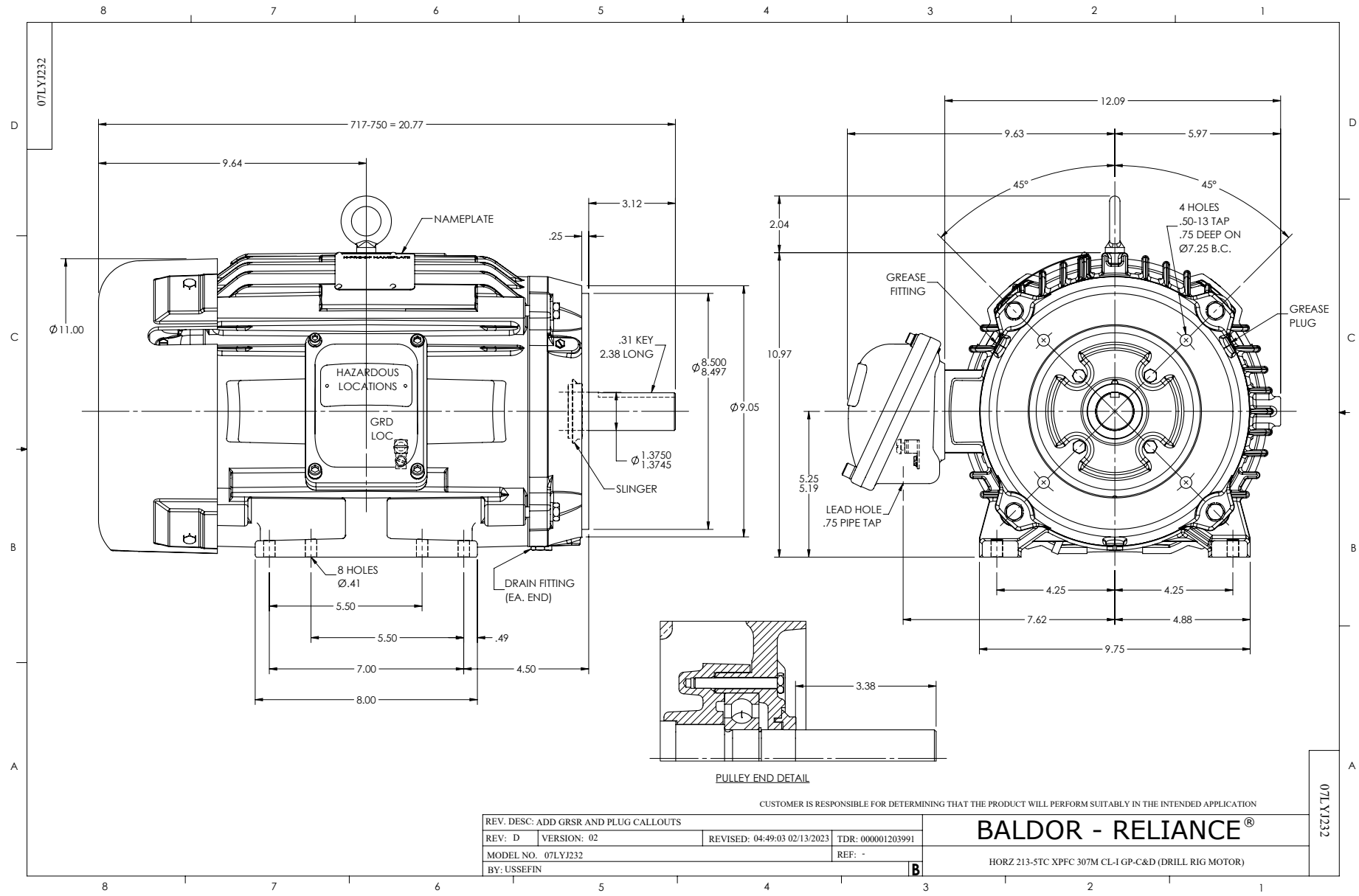
WINDING # 07WGR535

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

Typical performance - not guaranteed values.

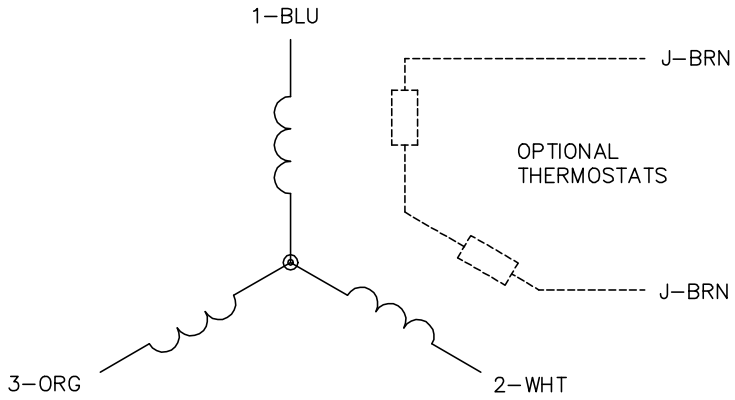
TORQUES(LB-FT): PO=39.4 PU=20.8 LR=23.9 LRA=49.7

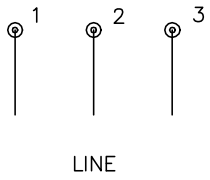



07LYJ232
717-750 = 20.77
9.64
NAMEPLATE
3.12
.25
Ø11.00
.31 KEY
2.38 LONG
Ø8.500
Ø8.497
Ø9.05
HAZARDOUS
LOCATIONS
GRD
LOC
Ø1.3750
1.3745
SLINGER
8 HOLES
Ø.41
DRAIN FITTING
(EA. END)
5.50
5.50
.49
7.00
4.50
8.00
12.09
9.63
5.97
45°
45°
4 HOLES
.50-13 TAP
.75 DEEP ON
Ø7.25 B.C.
2.04
GREASE
FITTING
GREASE
PLUG
10.97
5.25
5.19
LEAD HOLE
.75 PIPE TAP
4.25
4.25
7.62
4.88
9.75
3.38
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD GRSR AND PLUG CALLOUTS
REV: D
VERSION: 02
REVISED: 04:49:03 02/13/2023
TDR: 000001203991
MODEL NO. 07LYJ232
REF: -
BY: USSEFIN
B
BALDOR - RELIANCE®
HORZ 213-5TC XPFC 307M CL-I GP-C&D (DRILL RIG MOTOR)
07LYJ232

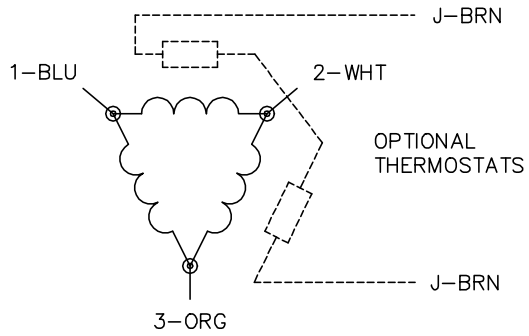
CD0006

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

SH 1 of 1