ABB BALDOR RELIANCE

Customer information packet

CDRX21724T

7.5HP, 3510//2910RPM, 3PH, 60/50HZ, 213TC, XP
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	213TC
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 @ 60 HZ
	5.000 HP @ 50 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	15.200 A @ 190.0 V
	18.000 A @ 230.0 V
	7.600 A @ 380.0 V
	9.000 A @ 460.0 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.	07WGY328
Layout	07LYJ232
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	06-21-2019

Efficiency @ 100% Load	90.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	7.6 a
Insulation Class	F
Inverter Code	Inverter Duty
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	87
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.	07-0000-0152			**INV.TYPE**	PWM						
CAT.NO.	CDRX21724T			**C HP FR**	60	**C HP TO**	90				
HP	7.5//5			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	18/9//15.2/7.6		**MAG CUR**	9.2/4.6							
RPM	3510//2910		**MX RPM**	5400							
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	90.7				
SER.F.	1.00	**DES**	B	**SL HZ**	1.5	**WK2**	0.25				
FRAME	213TC	**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 # 74891
Typical performance - not guaranteed values

Winding: 07WGY328	**Type:** 0726M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			7.5//5
Volts			230/460//190/380
Full Load Amps			18/9//15.2/7.6
R.P.M.			3510//2910
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	90.7	**Power Factor**	87
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	8.95 LB-FT
Start Configuration	direct on line
Breakdown Torque	36.93 LB-FT
Pull-up Torque	21.54 LB-FT
Locked-rotor Torque	24.82 LB-FT
Starting Current	59.17 A
No-load Current	3.44 A
Line-line Res. @ 25ºC	1.19 Ω
Temp. Rise @ Rated Load	34°C
Locked-rotor Power Factor	38.2
Rotor inertia	0.237 lb-ft²

Load Characteristics 380 V, 50 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	48	69	78	84	88	88
Efficiency	76.9	85.1	87.4	88.3	87.7	86.8
Speed	2983	2966	2947	2928	2906	2882
Line amperes	3.83	4.82	6.18	7.62	9.17	11.03

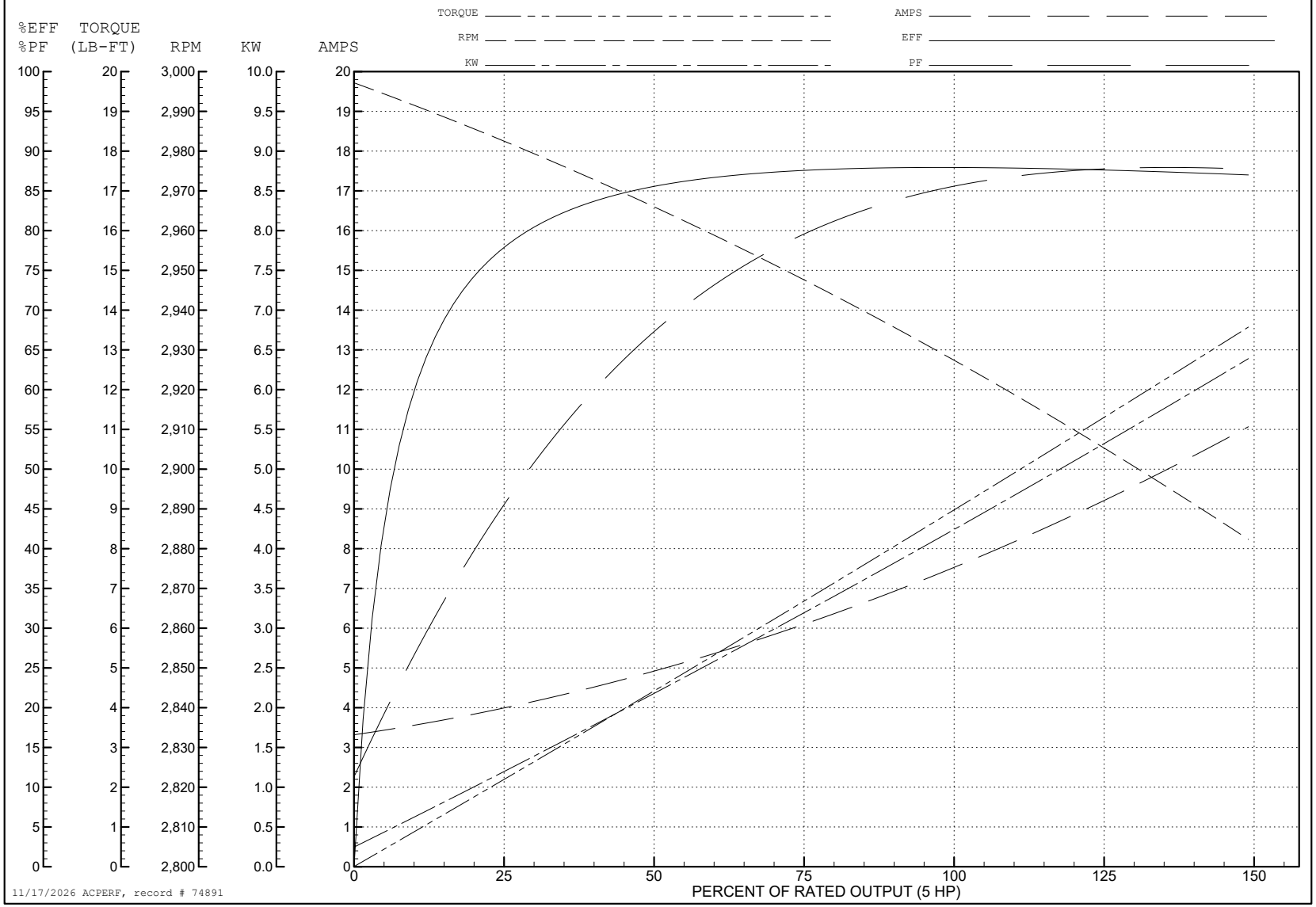
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WINDING # 07WGY328

5 HP 3 PH 50 HZ 2928 RPM 380 V 0726M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=36.93 PU=21.54 LR=24.82 LRA=59.17



AC Induction Motor Performance Data
Record # 74892
Typical performance - not guaranteed values

Winding: 07WGY328	**Type:** 0726M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5//5	**Full Load Torque**	11.2 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			18/9//15.2/7.6	**Breakdown Torque**	38.8 LB-FT
R.P.M.			3510//2910	**Pull-up Torque**	20.4 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	23.5 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	61.1 A
Service Factor (S.F.)			1	**No-load Current**	3.54 A
NEMA Nom. Eff.	90.7	**Power Factor**	87	**Line-line Res. @ 25ºC**	1.19 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
S.F. Amps				**Temp. Rise @ S.F. Load**	54°C
				Locked-rotor Power Factor	33.8
				Rotor inertia	0.237 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	52	74	82	87	90	89
Efficiency	83.7	89.3	90.4	90.7	89.5	88.2
Speed	3581	3559	3537	3512	3486	3456
Line amperes	4.04	5.31	7.04	8.9	10.9	13.3

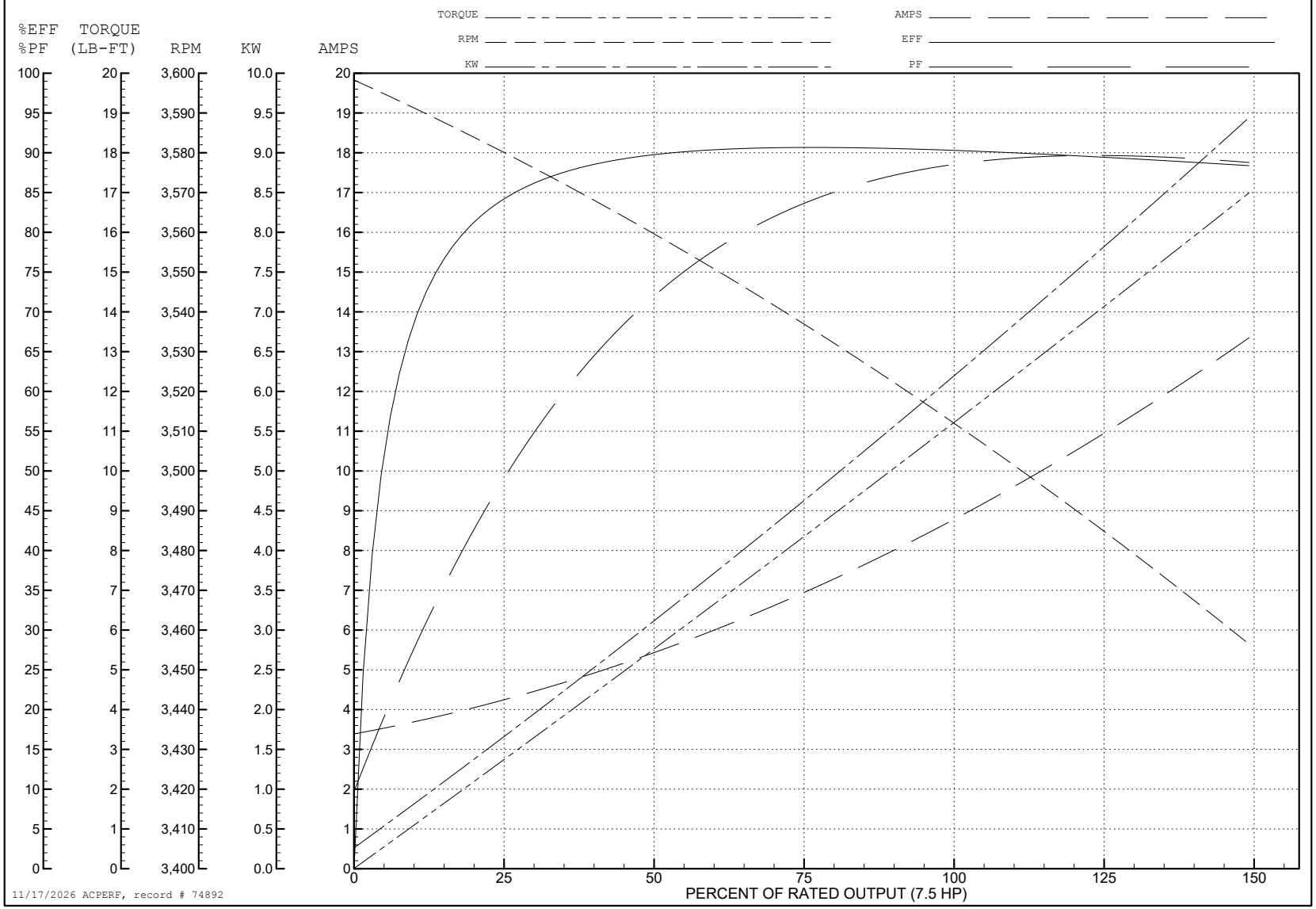
ABB Motors and Mechanical Inc.

WINDING # 07WGY328

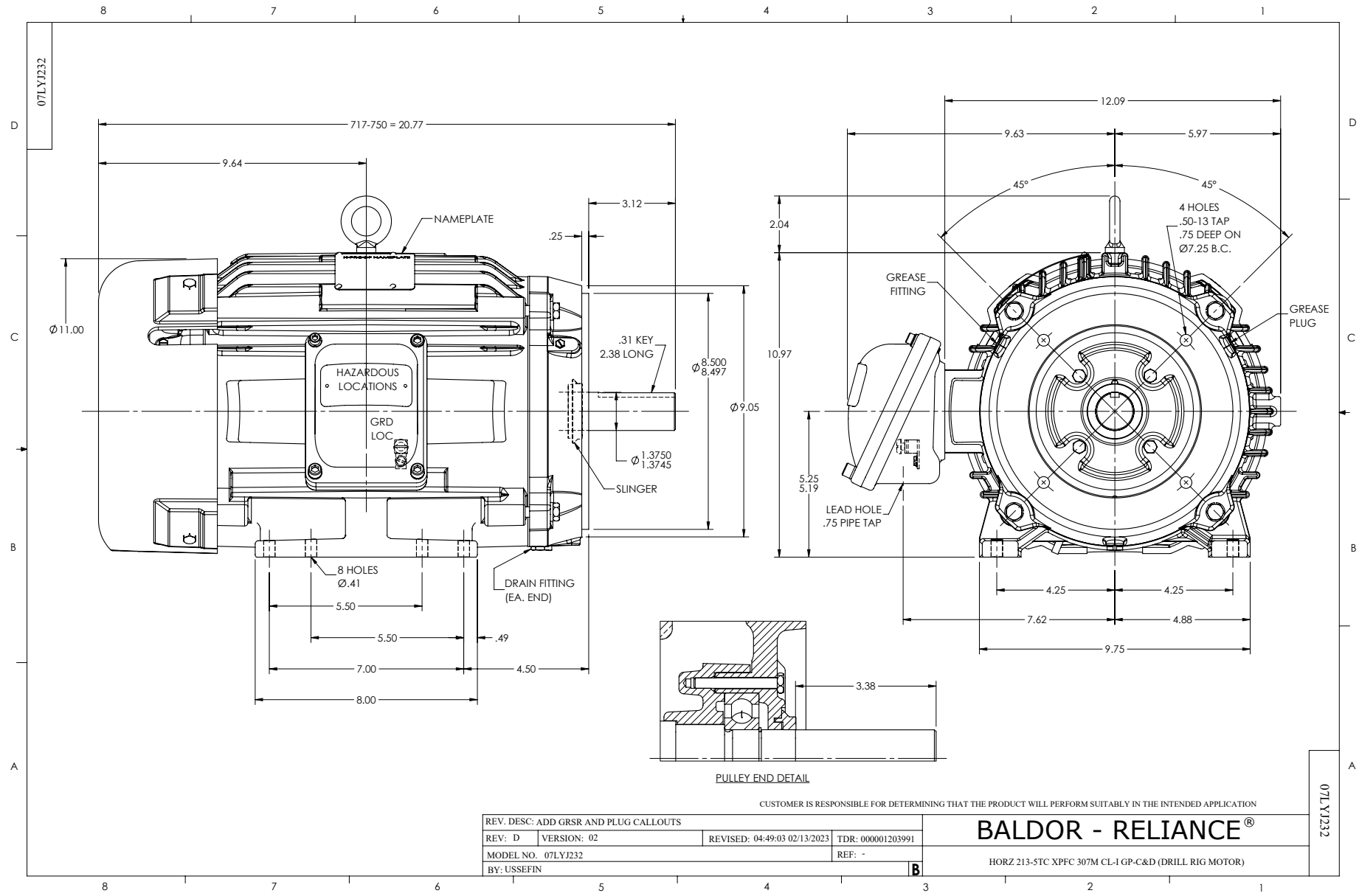
7.5 HP 3 PH 60 HZ 3512 RPM 460 V 0726M

Typical performance - not guaranteed values.

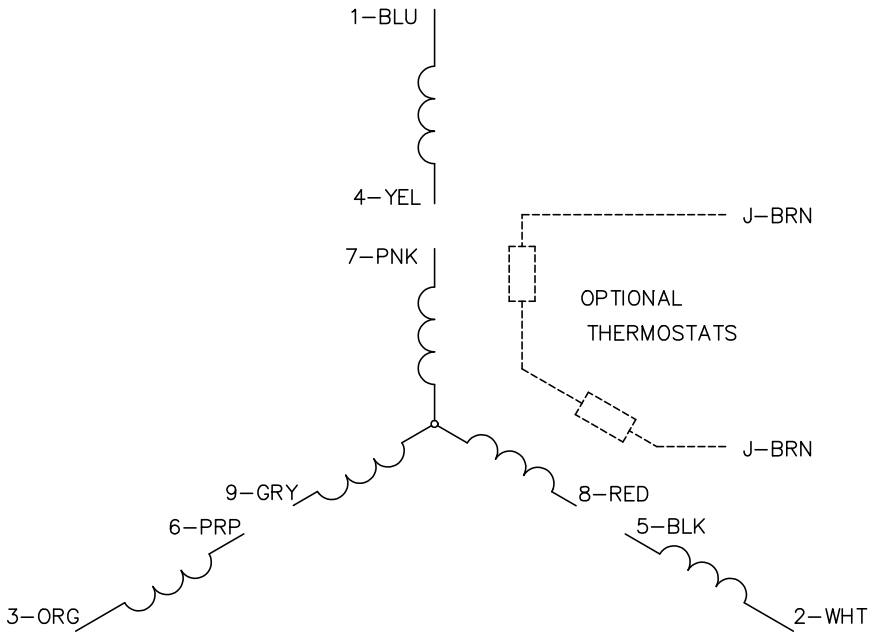
TORQUES(LB-FT): PO=38.8 PU=20.4 LR=23.5 LRA=61.1

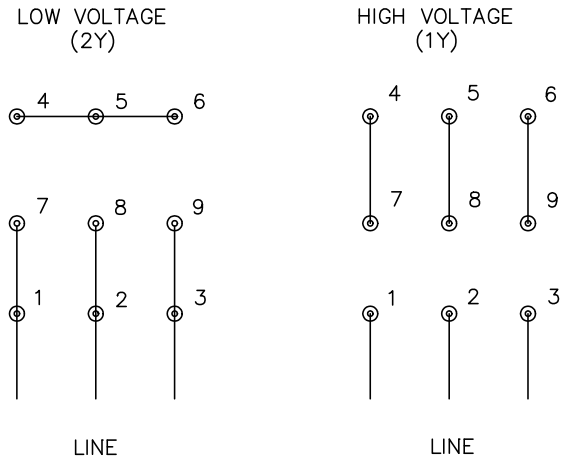


11/17/2026 ACPERF, record # 74892


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

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