ABB BALDOR RELIANCE

Customer information packet

DRX32364T

30HP, 1180//980RPM, 3PH, 60HZ, 326T, XPFC, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	326T
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	25.000 HP @ 50 HZ
	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 50 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 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	78.000 A @ 230.0 V
	39.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY812
Layout	12LY-000-234
Eff. date	11-22-2024
CD Diagram	CD0005
Poles	06
Leads	9#8
Proprietary	False
Created date	05-30-2019

Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	39.0 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	1800 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1264M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	32.00 IN
Power Factor	78
Product Family	Hazardous Location Motor
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1180 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.	12-0000-0681			**INV.TYPE**	PWM						
CAT.NO.	DRX32364T			**C HP FR**	60	**C HP TO**	90				
HP	30//25			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	78/39		**MAG CUR**	34.4/17.2							
RPM	1180//980		**MX RPM**	1800							
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	93				
SER.F.	1.00	**DES**	A	**SL HZ**	1	**WK2**	12.2				
FRAME	326T	**RATING**	40C AMB-CONT								
	55C AMB @ 1.0 SF, 60C RISE										
	1.15SF ON SINEWAVE			NEMA MG-1 PT.5,IP55							

Parts List

Part number	Description	Quantity
SA370106	SA 12-0000-0681	1.000 ea
RA359740	RA 12-0000-0681	1.000 ea
NP1401XPSLEV	SS XP INV UL CSA-EEV CC CL-I GP-C&D	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1081C	ALUM XP CAUTION LABEL (COL PLANT ONLY-	1.000 ea
14PA2000	PKGP, CTN ID 42X34X25, STD BASE	1.000 ea
12FH1001A07P	FAN COVER, MACH W/EPOXY PRIMER & SLOT FO	1.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	3.000 ea
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	3.000 ea
09FN3001B03SP	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.200 lb
10XN5013J44	1/2-13X2.75 HX HD BOLT, GR8,1.25" THD LG	4.000 ea
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	4.000 ea
HA2067A01	ALUM SLINGER 311 BRG DRILL RIG MOTOR	1.000 ea
80XN1032J07	10-32 X 7/16 SET SCREW, HEX SOC, CUP PT	2.000 ea
HW5100A13	W4627-047 WVY WSHER	1.000 ea
HA4017A03	.125 X 1.75 GREASE EXT (F/S)	1.000 ea
HA4017A08	.125 X 3.50 LGTH GREASER EXTEN.	1.000 ea
HW4019A01	PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 ea
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 ea
12EP1706A08P	EP, MACH. XPFC 312 BRG. W/DRAIN HW4505A0	1.000 ea
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	4.000 ea
10XN5013J44	1/2-13X2.75 HX HD BOLT, GR8,1.25" THD LG	4.000 ea
HA2067A02	ALUM SLINGER 312 BRG DRILL RIG MOTOR	1.000 ea

80XN1032J07	10-32 X 7/16 SET SCREW, HEX SOC, CUP PT	2.000 ea
10XN3118K40	5/16-18 X 2.75" HEX HD, GRADE 5	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 ea
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 ea
12EP1705A34LP5	FREP MACH. 312 W/EPOXY PRIMER & PAINT	1.000 ea
12CB1003A01P	KOBX,MACH 2.00 NPT GROUP C MTRS,EPOXY PR	1.000 ea
10XN3118K24	5/16-18 X 1.50" HEX HD, GRADE 5	4.000 ea
WD1000B19	TERMINAL BURNDY L250HP	1.000 ea
10XN3816K08	3/8-16 X .50 HEX HD CAP SCREW GRADE 5	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	1.000 ea
12CB1502A01P	CONDUIT BOX LID MACH. GROUP C MTRS	1.000 ea
84XN5013J32	SOCKET HD.CAP SCR,1/2-13 X 2"LG,ALLOY ST	10.000 ea
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	10.000 ea
MG1025G29	WILKOFAST, 789.229, DARK CHARCOAL GRAY	0.125 ga
HW2501H34	KEY, 1/2 SQ X 4.00	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0145B01	CONNECTION LABEL	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt

AC Induction Motor Performance Data
Record # 67041
Typical performance - not guaranteed values

Winding: 12WGY812-R015	**Type:** 1264M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			30	**Full Load Torque**	133 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			78/39	**Breakdown Torque**	370 LB-FT
R.P.M.			1180	**Pull-up Torque**	179 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	217 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	245 A
Service Factor (S.F.)			1	**No-load Current**	17.2 A
NEMA Nom. Eff.	93	**Power Factor**	78	**Line-line Res. @ 25ºC**	0.22799 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	56°C
				Locked-rotor Power Factor	27.6

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	42	63	73	78	80	80
Efficiency	89	92.7	93.4	93.1	92.4	91.4
Speed	1196.5	1191.9	1188.3	1183.2	1178.2	1171.8
Line amperes	19.2	24.1	31	38.7	47.5	57.3

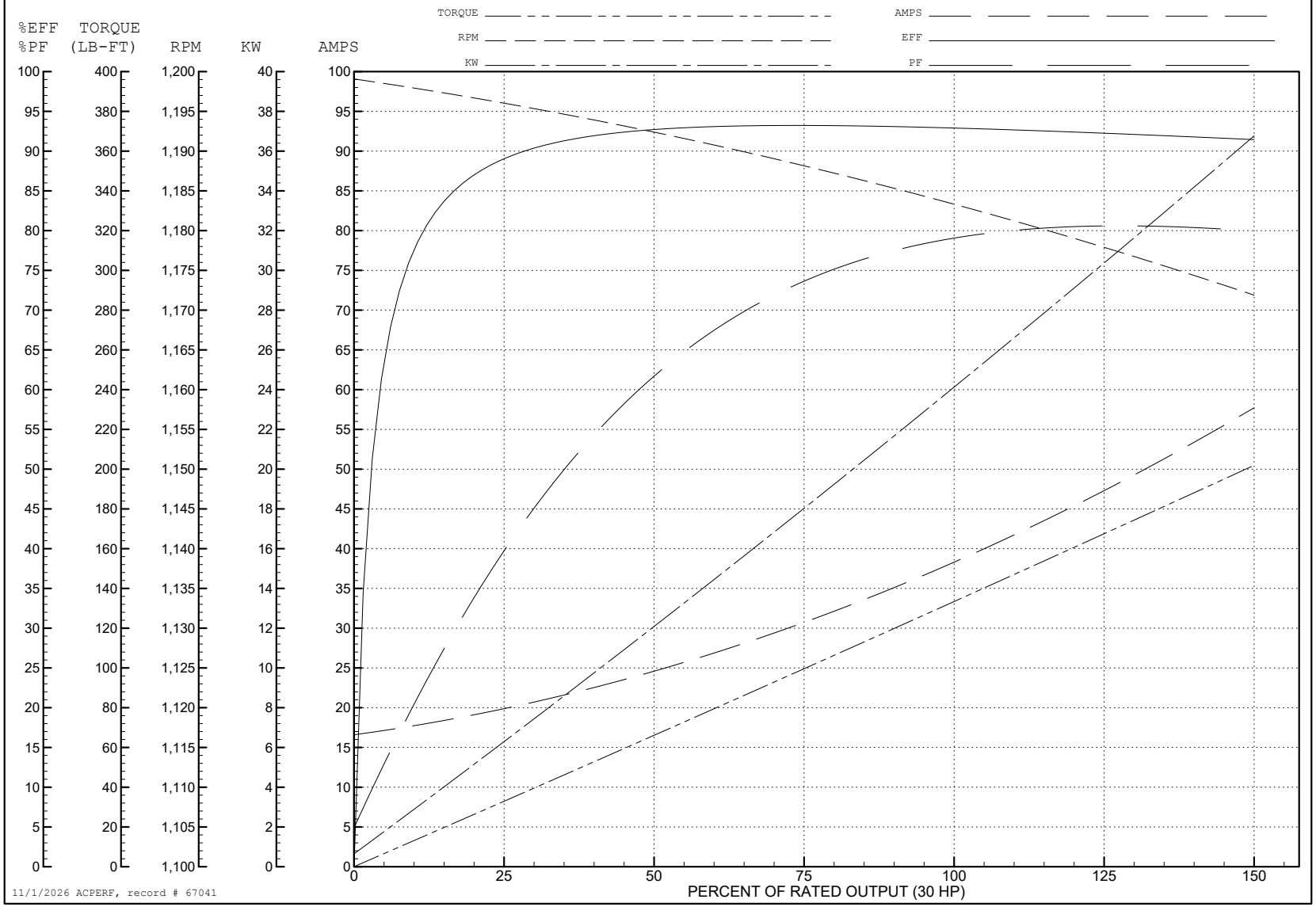
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WINDING # 12WGY812

30 HP 3 PH 60 HZ 1180 RPM 460 V 1264M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=370 PU=179 LR=217 LRA=245



AC Induction Motor Performance Data
Record # 75682
Typical performance - not guaranteed values

Winding: 12WGY812-R018	**Type:** 1264M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			30//25
Volts			230/460//190/380
Full Load Amps			78/39
R.P.M.			1180//980
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	93	**Power Factor**	78
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	133 LB-FT
Start Configuration	direct on line
Breakdown Torque	358 LB-FT
Pull-up Torque	187 LB-FT
Locked-rotor Torque	227 LB-FT
Starting Current	239 A
No-load Current	16.97 A
Line-line Res. @ 25ºC	0.222 Ω
Temp. Rise @ Rated Load	56°C
Temp. Rise @ S.F. Load	69°C
Locked-rotor Power Factor	30.7
Rotor inertia	12.2 LB-FT2

Load Characteristics 380 V, 50 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	42	64	74	79	80	81
Efficiency	89.3	92.6	93.1	92.3	91.9	90.6
Speed	996	992	988	984	979	972
Line amperes	18.98	23.98	31.07	38.94	48.02	58.14

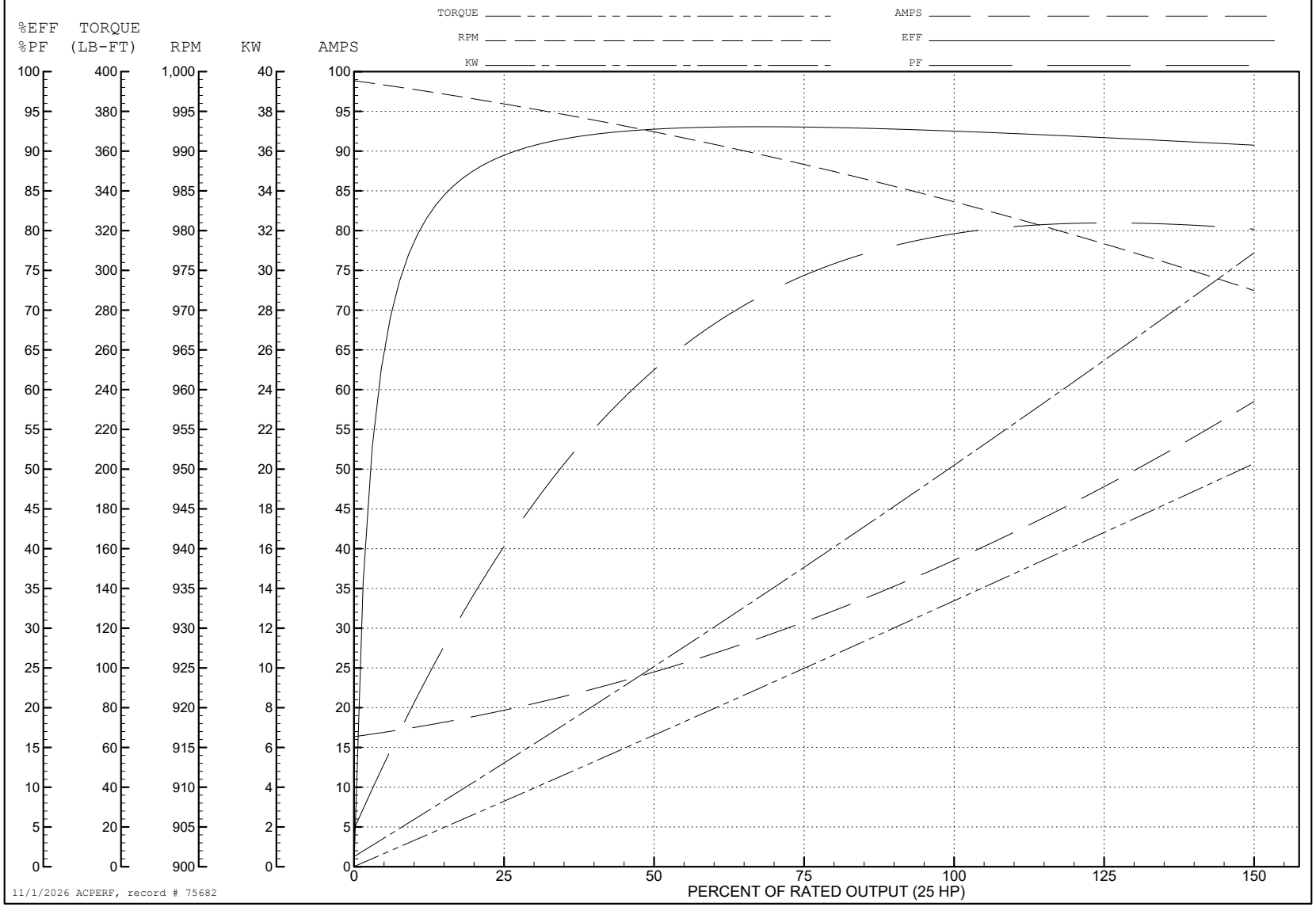
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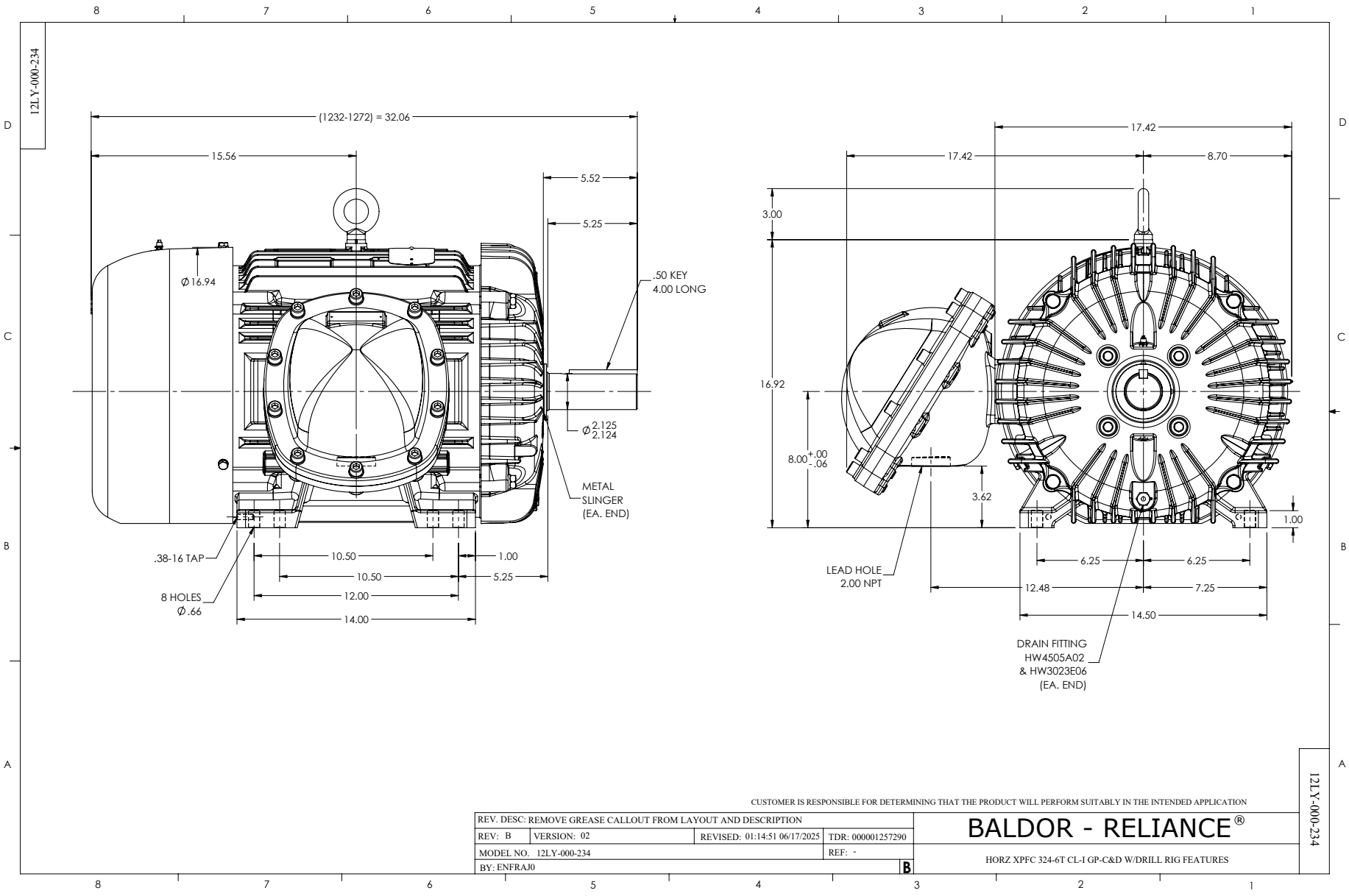
WINDING # 12WGY812

25 HP 3 PH 50 HZ 984 RPM 380 V 1264M

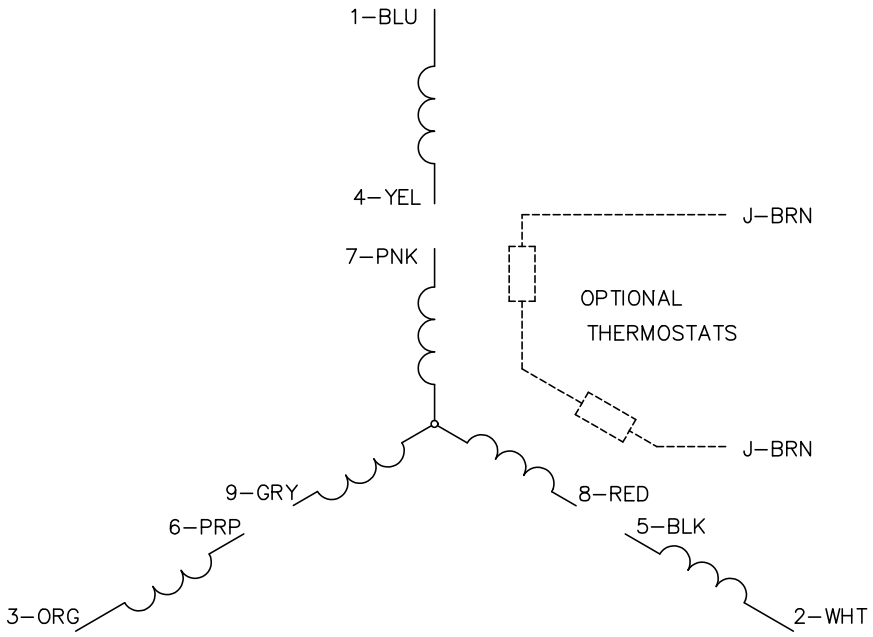
Typical performance - not guaranteed values.

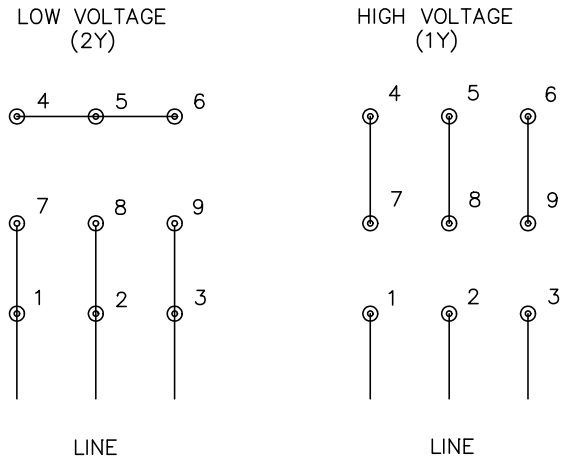
TORQUES(LB-FT): PO=358 PU=187 LR=227 LRA=239




12LY-000-234
(1232-1272) = 32.06
15.56
5.52
5.25
Ø16.94
.50 KEY
4.00 LONG
Ø2.125
2.124
METAL
SLINGER
(EA. END)
.38-16 TAP
8 HOLES
Ø.66
10.50
10.50
12.00
14.00
1.00
5.25
17.42
17.42
8.70
3.00
16.92
8.00 +.00 -.06
3.62
1.00
LEAD HOLE
2.00 NPT
6.25
6.25
12.48
7.25
14.50
DRAIN FITTING
HW4505A02
& HW3023E06
(EA. END)
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REMOVE GREASE CALLOUT FROM LAYOUT AND DESCRIPTION
REV: B
VERSION: 02
REVISED: 01:14:51 06/17/2025
TDR: 000001257290
MODEL NO. 12LY-000-234
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HORZ XPFC 324-6T CL-I GP-C&D W/DRILL RIG FEATURES
12LY-000-234

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