ABB BALDOR RELIANCE

Customer information packet

VDRX18344T

3HP, 1755//1465RPM, 3PH, 60/50HZ, 182TC, XPFC
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	182TC
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	3.000 HP @ 60 HZ
	2.000 HP @ 50 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	3.500 A @ 380.0 V
	4.100 A @ 460.0 V
	7.000 A @ 190.0 V
	8.200 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGX181
Layout	06LYG594
Eff. date	05-23-2023
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	06-20-2019

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	3.5 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	0632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.31 IN
Power Factor	77
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1755 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.	06-0000-0144			**INV.TYPE**	PWM						
CAT.NO.	VDRX18344T			**C HP FR**	60	**C HP TO**	90				
HP	3//2			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	8.2/4.1//7/3.5			**MAG CUR**	4.2/2.1						
RPM	1755//1465			**MX RPM**	2700						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	89.5				
SER.F.	1.00	**DES**	B	**SL HZ**	1.5	**WK2**	0.3				
FRAME	182TC	**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 # 72220
Typical performance - not guaranteed values

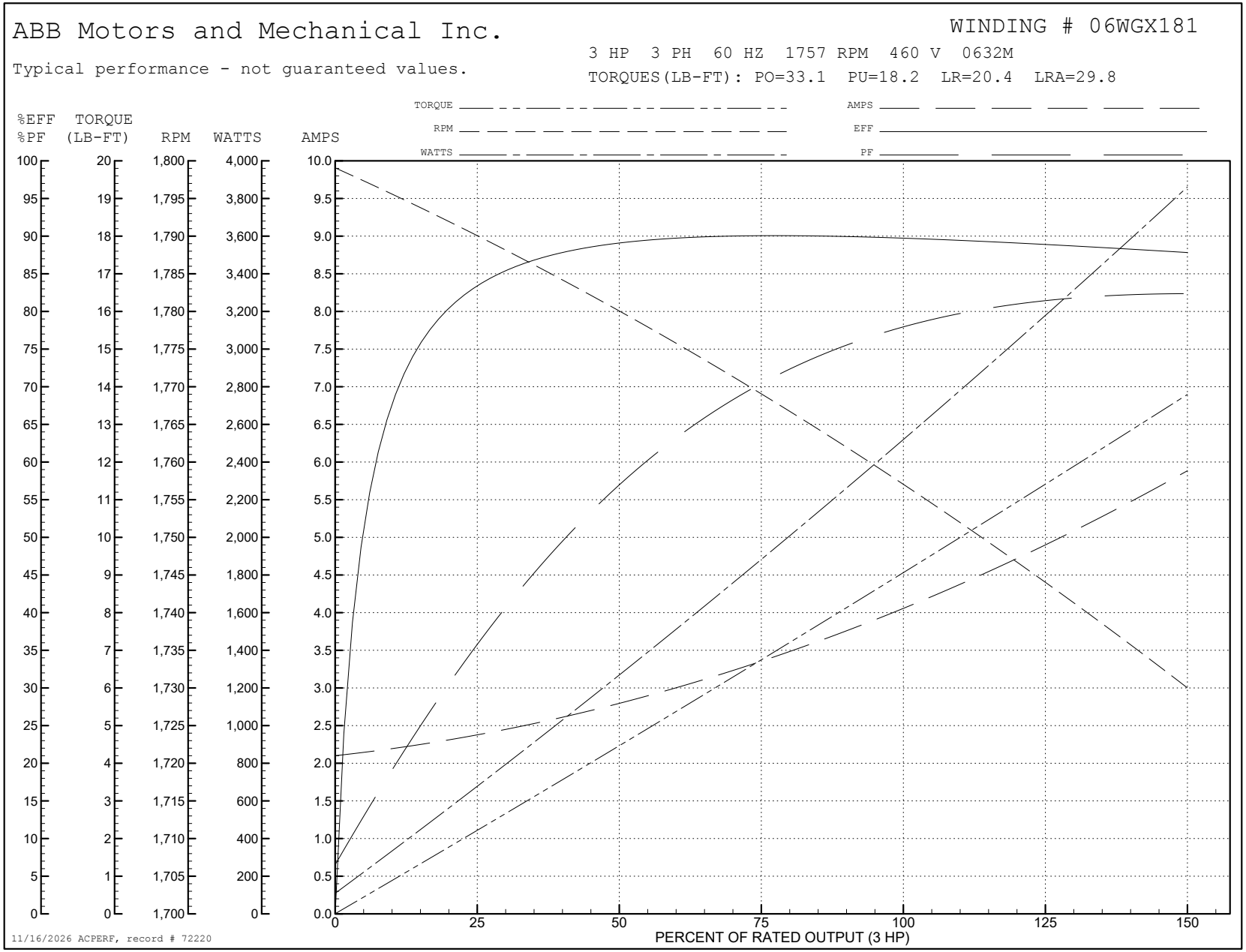
Winding: 06WGX181-R087	**Type:** 0632M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			3//2
Volts			230/460//190/380
Full Load Amps			8.2/4.1//7/3.5
R.P.M.			1755//1465
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	J
Service Factor (S.F.)			1
NEMA Nom. Eff.	89.5	**Power Factor**	77
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	9.08 LB-FT
Start Configuration	direct on line
Breakdown Torque	33.1 LB-FT
Pull-up Torque	18.2 LB-FT
Locked-rotor Torque	20.4 LB-FT
Starting Current	29.8 A
No-load Current	2.14 A
Line-line Res. @ 25ºC	3.93 Ω
Temp. Rise @ Rated Load	35°C
Temp. Rise @ S.F. Load	42°C
Locked-rotor Power Factor	41.4
Rotor inertia	0.298 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	38	58	70	77	81	83
Efficiency	83.5	88.9	90	89.8	89.1	87.7
Speed	1790	1779	1769	1757	1744	1730
Line amperes	2.34	2.79	3.39	4.1	4.91	5.86


ABB Motors and Mechanical Inc.
WINDING # 06WGX181
3 HP 3 PH 60 HZ 1757 RPM 460 V 0632M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=33.1 PU=18.2 LR=20.4 LRA=29.8
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/16/2026 ACPERF, record # 72220

AC Induction Motor Performance Data
Record # 72221
Typical performance - not guaranteed values

Winding: 06WGX181-R087	**Type:** 0632M	**Enclosure:** XPFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			3//2	**Full Load Torque**	7.25 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			8.2/4.1//7/3.5	**Breakdown Torque**	31.25 LB-FT
R.P.M.			1755//1465	**Pull-up Torque**	18.55 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	20.79 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	28.72 A
Service Factor (S.F.)			1	**No-load Current**	2.11 A
NEMA Nom. Eff.	89.5	**Power Factor**	77	**Line-line Res. @ 25ºC**	3.93 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	28°C
S.F. Amps				**Temp. Rise @ S.F. Load**	32°C
				Locked-rotor Power Factor	46.1
				Rotor inertia	0.298 LB-FT2

Load Characteristics 380 V, 50 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	33	52	65	73	78	81
Efficiency	79.7	86.5	88.4	88.7	88.4	87.1
Speed	1491	1483	1474	1465	1455	1443
Line amperes	2.25	2.57	3.01	3.53	4.14	4.87

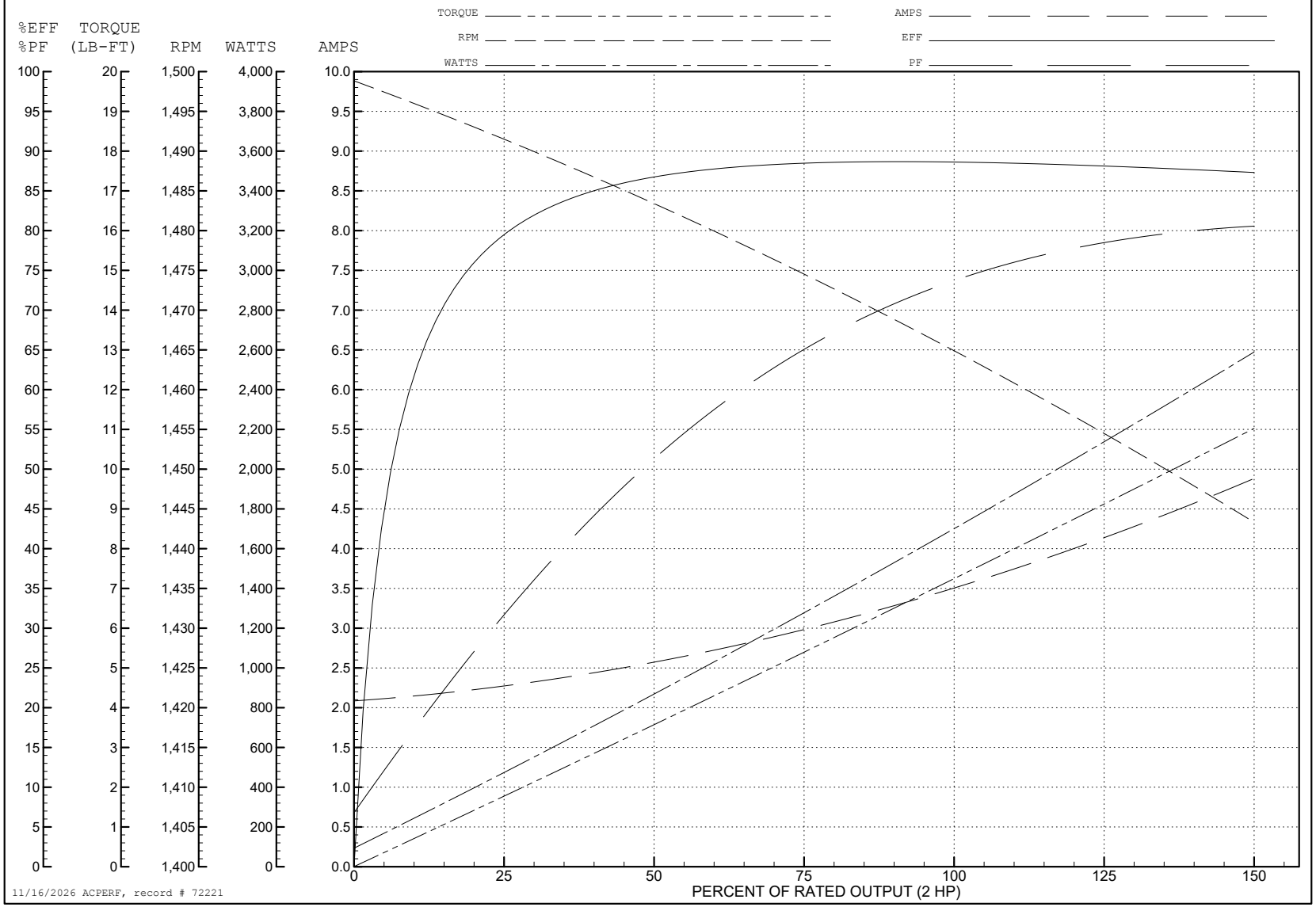
ABB Motors and Mechanical Inc.

WINDING # 06WGX181

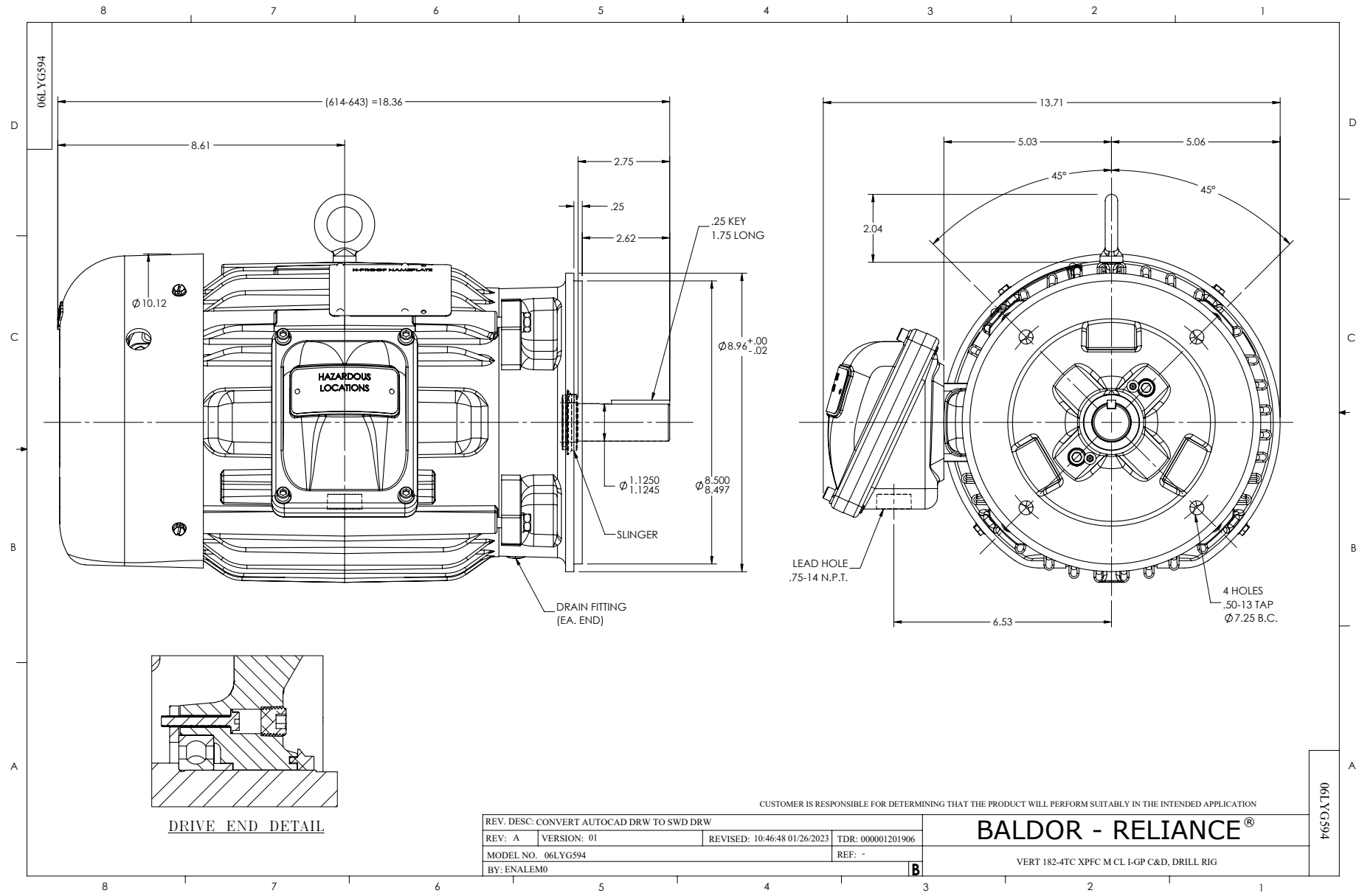
2 HP 3 PH 50 HZ 1465 RPM 380 V 0632M

Typical performance - not guaranteed values.

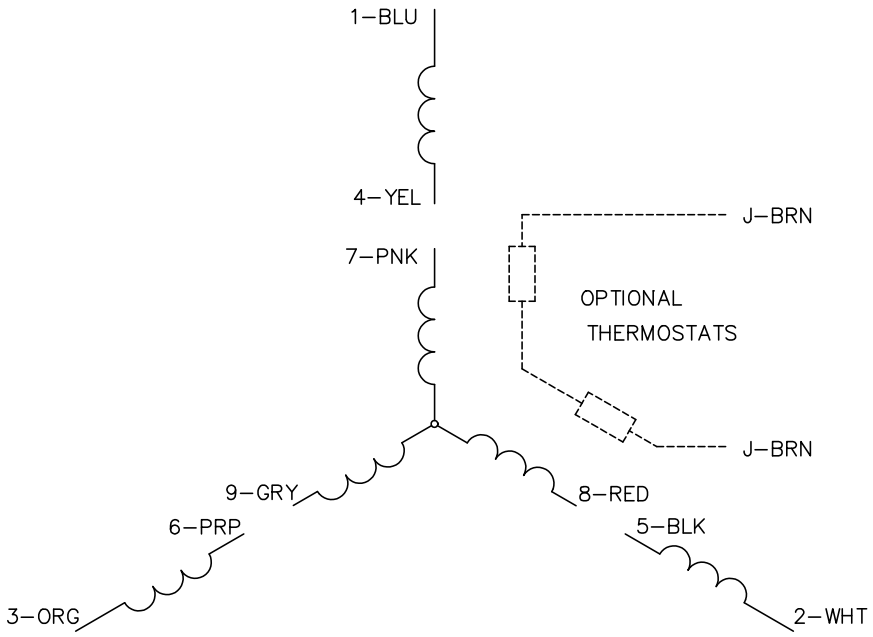
TORQUES(LB-FT): PO=31.25 PU=18.55 LR=20.79 LRA=28.72

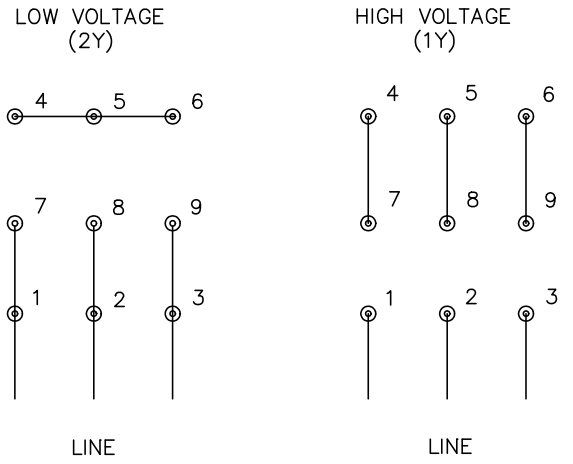


11/16/2026 ACPERF, record # 72221


06LYG594
(614-643) =18.36
8.61
2.75
.25
2.62
.25 KEY
1.75 LONG
Ø10.12
HAZARDOUS LOCATIONS
Ø8.96 +.00 -.02
Ø 1.1250 1.1245
Ø 8.500 8.497
SLINGER
DRAIN FITTING
(EA. END)
13.71
5.03
5.06
45°
45°
2.04
LEAD HOLE
.75-14 N.P.T.
4 HOLES
.50-13 TAP
Ø7.25 B.C.
6.53
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: A
VERSION: 01
REVISED: 10:46:48 01/26/2023
TDR: 000001201906
MODEL NO. 06LYG594
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT 182-4TC XPFC M CL I-GP C&D, DRILL RIG
06LYG594

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