

**BALDOR® • RELIANCE™**

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# Customer information packet

## VDRX18344T

3HP, 1755//1465RPM, 3PH, 60/50HZ, 182TC, XPFC

Class - CLI GP C,D

Division - Division I

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11/6/2024 6:18:05 PM

## 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
Auxillary Box	No Auxillary Box
Auxillary 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										
<b>NO.</b>		<b>CC</b>	010A							
<b>S/N</b>		<b>TEMP CODE</b>	T3C							
<b>SPEC.</b>	06-0000-0144		<b>INV.TYPE</b>	PWM						
<b>CAT.NO.</b>	VDRX18344T		<b>C HP FR</b>	60	<b>C HP TO</b>	90				
<b>HP</b>	3//2		<b>CT HZ FROM</b>	6	<b>CT HZ TO</b>	60				
<b>VOLTS</b>	230/460//190/380		<b>VT HZ FROM</b>	6	<b>VT HZ TO</b>	60				
<b>AMPS</b>	8.2/4.1//7/3.5		<b>MAG CUR</b>	4.2/2.1						
<b>RPM</b>	1755//1465		<b>MX RPM</b>	2700						
<b>HZ</b>	60//50	<b>PH</b>	3	<b>CL</b>	F	<b>NOM.EFF.</b>	89.5			
<b>SER.F.</b>	1.00	<b>DES</b>	B	<b>SL HZ</b>	1.5	<b>WK2</b>	0.3			
<b>FRAME</b>	182TC	<b>RATING</b>	40C AMB-CONT							
	55C AMB @ 1.0 SF									
	1.15 SF SINEWAVE									

**AC Induction Motor Performance Data**

Record # 72220

Typical performance - not guaranteed values

<b>Winding: 06WGX181-R087</b>		<b>Type: 0632M</b>		<b>Enclosure: XPFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	3//2		<b>Full Load Torque</b>	9.08 LB-FT	
<b>Volts</b>	230/460//190/380		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	8.2/4.1//7/3.5		<b>Breakdown Torque</b>	33.1 LB-FT	
<b>R.P.M.</b>	1755//1465		<b>Pull-up Torque</b>	18.2 LB-FT	
<b>Hz</b>	60//50	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	20.4 LB-FT
<b>NEMA Design Code</b>	<b>B KVA Code</b>		J	<b>Starting Current</b>	29.8 A
<b>Service Factor (S.F.)</b>			1	<b>No-load Current</b>	2.14 A
<b>NEMA Nom. Eff.</b>	89.5	<b>Power Factor</b>	77	<b>Line-line Res. @ 25°C</b>	3.93 Ω
<b>Rating - Duty</b>	40C AMB-CONT			<b>Temp. Rise @ Rated Load</b>	35°C
<b>S.F. Amps</b>				<b>Temp. Rise @ S.F. Load</b>	42°C
				<b>Locked-rotor Power Factor</b>	41.4
				<b>Rotor inertia</b>	0.298 LB-FT <sup>2</sup>

**Load Characteristics 460 V, 60 Hz, 3 HP**

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

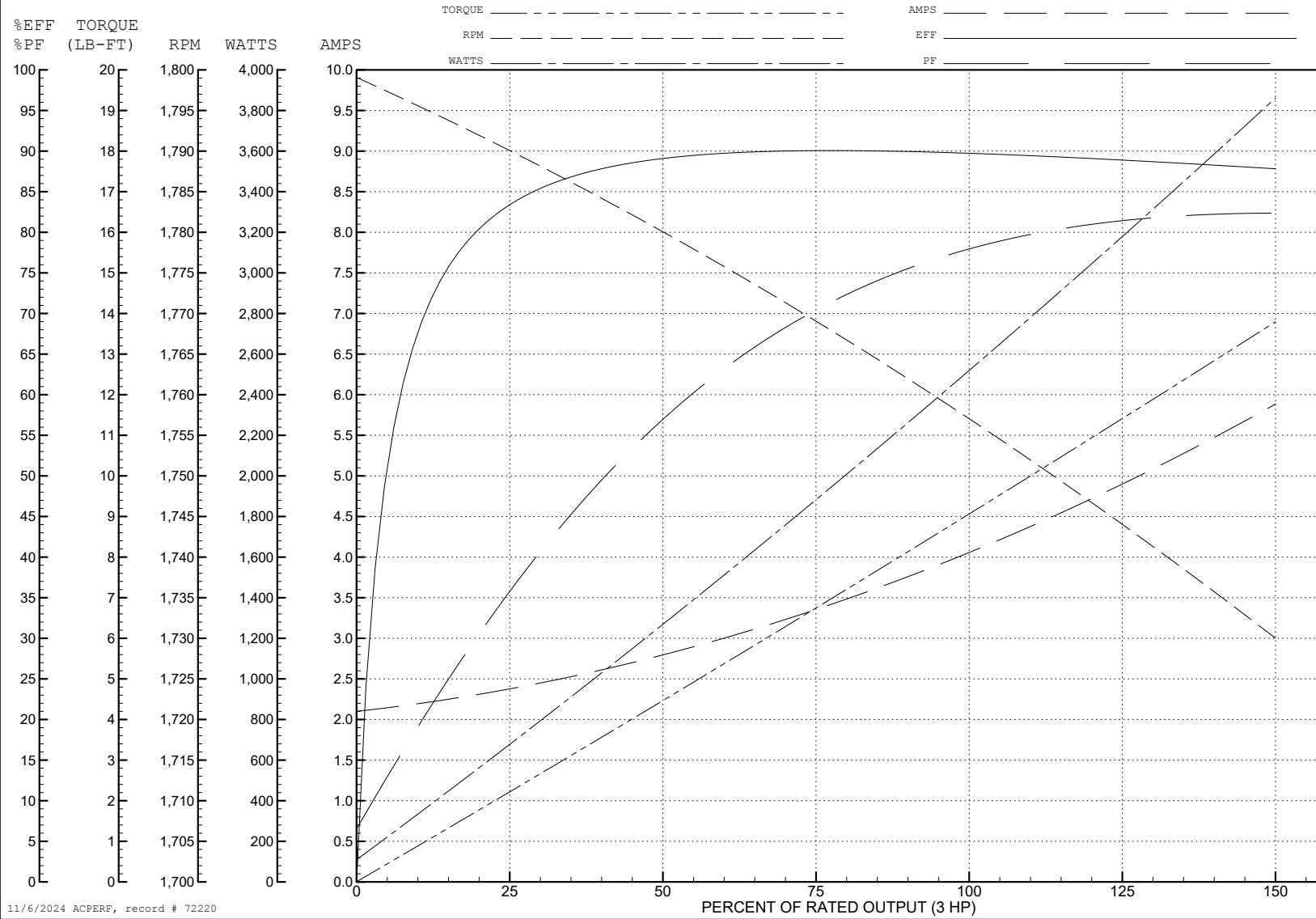
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WINDING # 06WGX181

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



11/6/2024 ACPERF, record # 72220

**AC Induction Motor Performance Data**

Record # 72221

Typical performance - not guaranteed values

<b>Winding: 06WGX181-R087</b>		<b>Type: 0632M</b>		<b>Enclosure: XPFC</b>	
<b>Nameplate Data</b>			<b>380 V, 50 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	3//2		<b>Full Load Torque</b>	7.25 LB-FT	
<b>Volts</b>	230/460//190/380		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	8.2/4.1//7/3.5		<b>Breakdown Torque</b>	31.25 LB-FT	
<b>R.P.M.</b>	1755//1465		<b>Pull-up Torque</b>	18.55 LB-FT	
<b>Hz</b>	60//50	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	20.79 LB-FT
<b>NEMA Design Code</b>	<b>B KVA Code</b>		J	<b>Starting Current</b>	28.72 A
<b>Service Factor (S.F.)</b>			1	<b>No-load Current</b>	2.11 A
<b>NEMA Nom. Eff.</b>	89.5	<b>Power Factor</b>	77	<b>Line-line Res. @ 25°C</b>	3.93 Ω
<b>Rating - Duty</b>	40C AMB-CONT			<b>Temp. Rise @ Rated Load</b>	28°C
<b>S.F. Amps</b>				<b>Temp. Rise @ S.F. Load</b>	32°C
				<b>Locked-rotor Power Factor</b>	46.1
				<b>Rotor inertia</b>	0.298 LB-FT <sup>2</sup>

**Load Characteristics 380 V, 50 Hz, 2 HP**

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



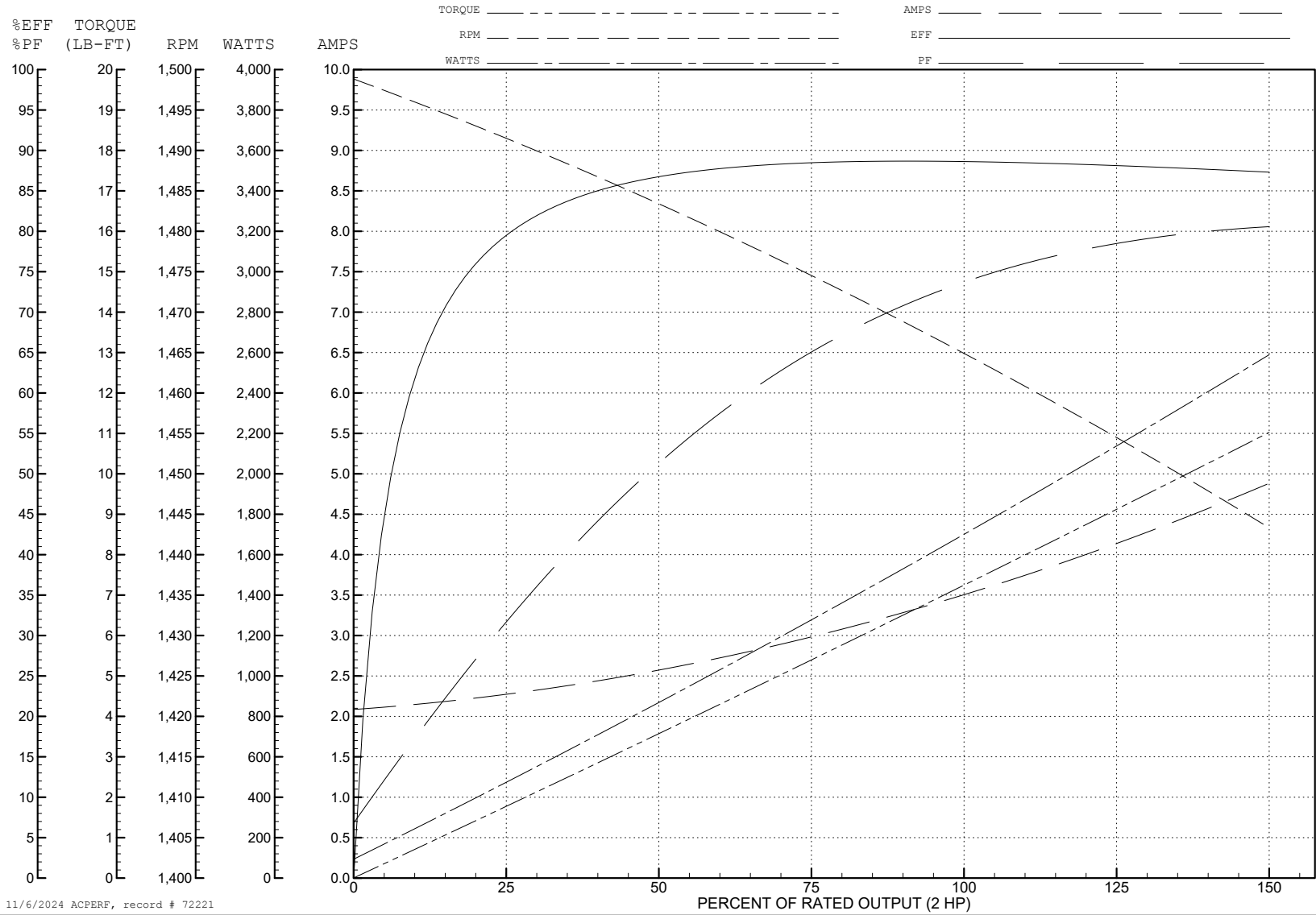
ABB Motors and Mechanical Inc.

WINDING # 06WGX181

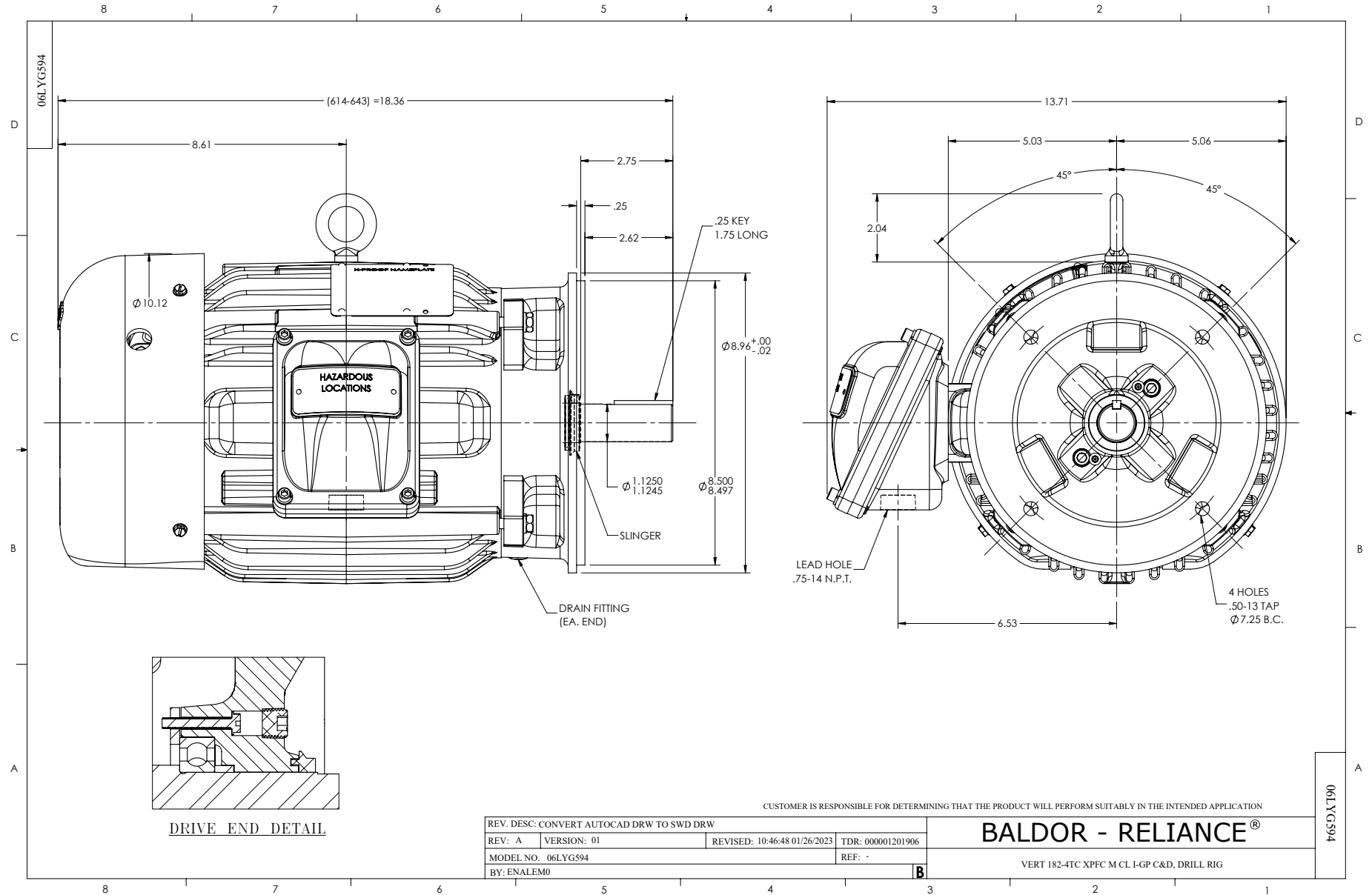
Typical performance - not guaranteed values.

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

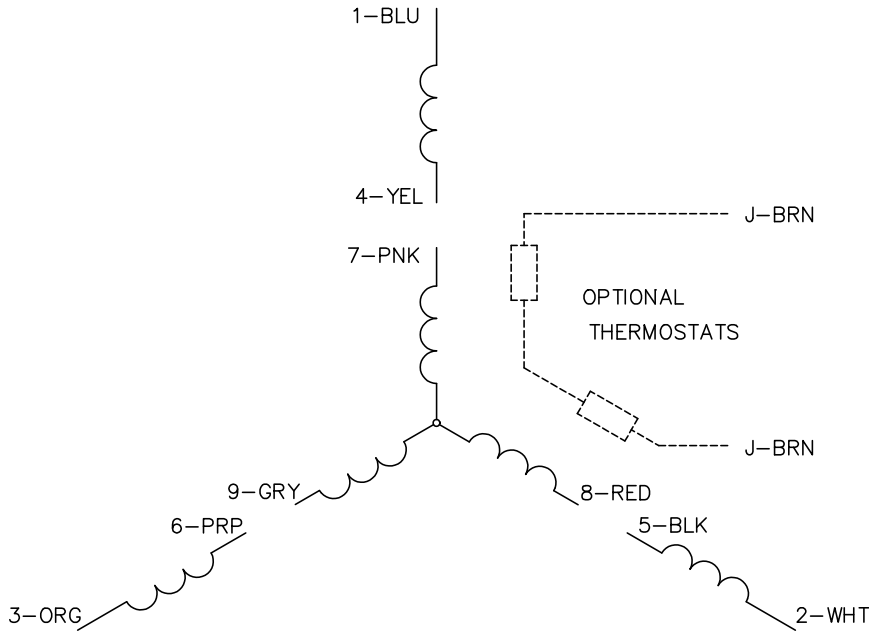
TORQUES (LB-FT): PO=31.25 PU=18.55 LR=20.79 LRA=28.72



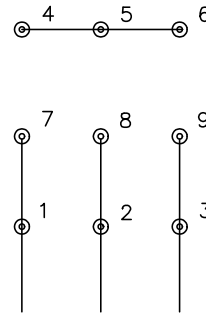
11/6/2024 ACPERF, record # 72221



CD0005

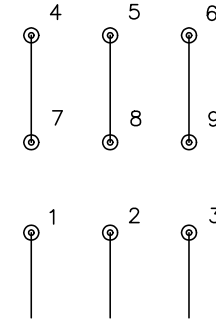


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

**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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS