

ABB BALDOR RELIANCE III

Customer information packet

VDRX18344T

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

Class - CLI GP C,D

Division - Division I

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

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

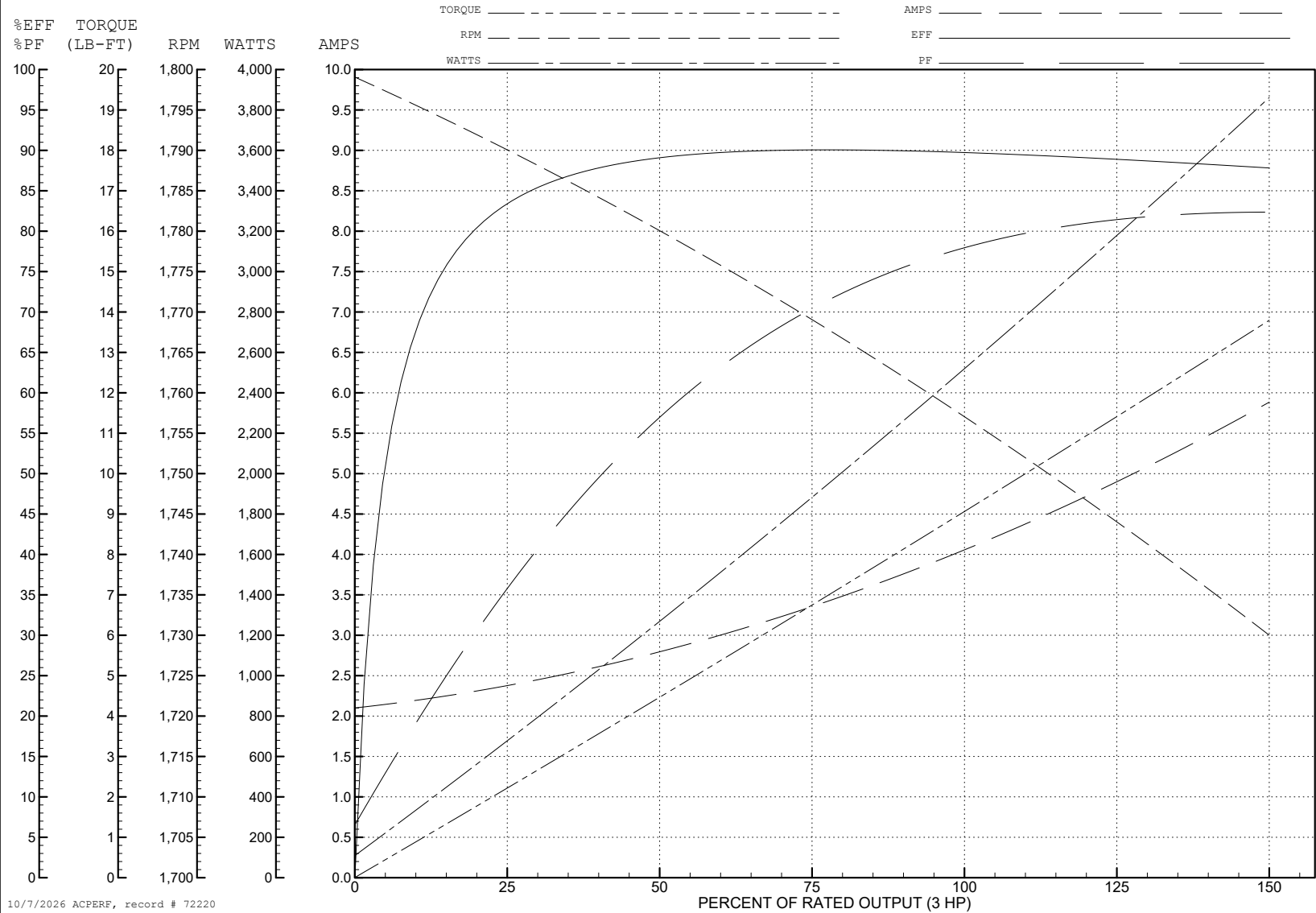
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WINDING # 06WGX181

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1757 RPM 460 V 0632M

TORQUES (LB-FT): PO=33.1 PU=18.2 LR=20.4 LRA=29.8



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	
NEMA Design Code		B		KVA Code		J	
Service Factor (S.F.)		1		No-load Current		2.11 A	
NEMA Nom. Eff.		89.5		Power Factor		77	
Rating - Duty		40C		AMB-CONT			
S.F. Amps				Temp. Rise @ Rated Load		28°C	
				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

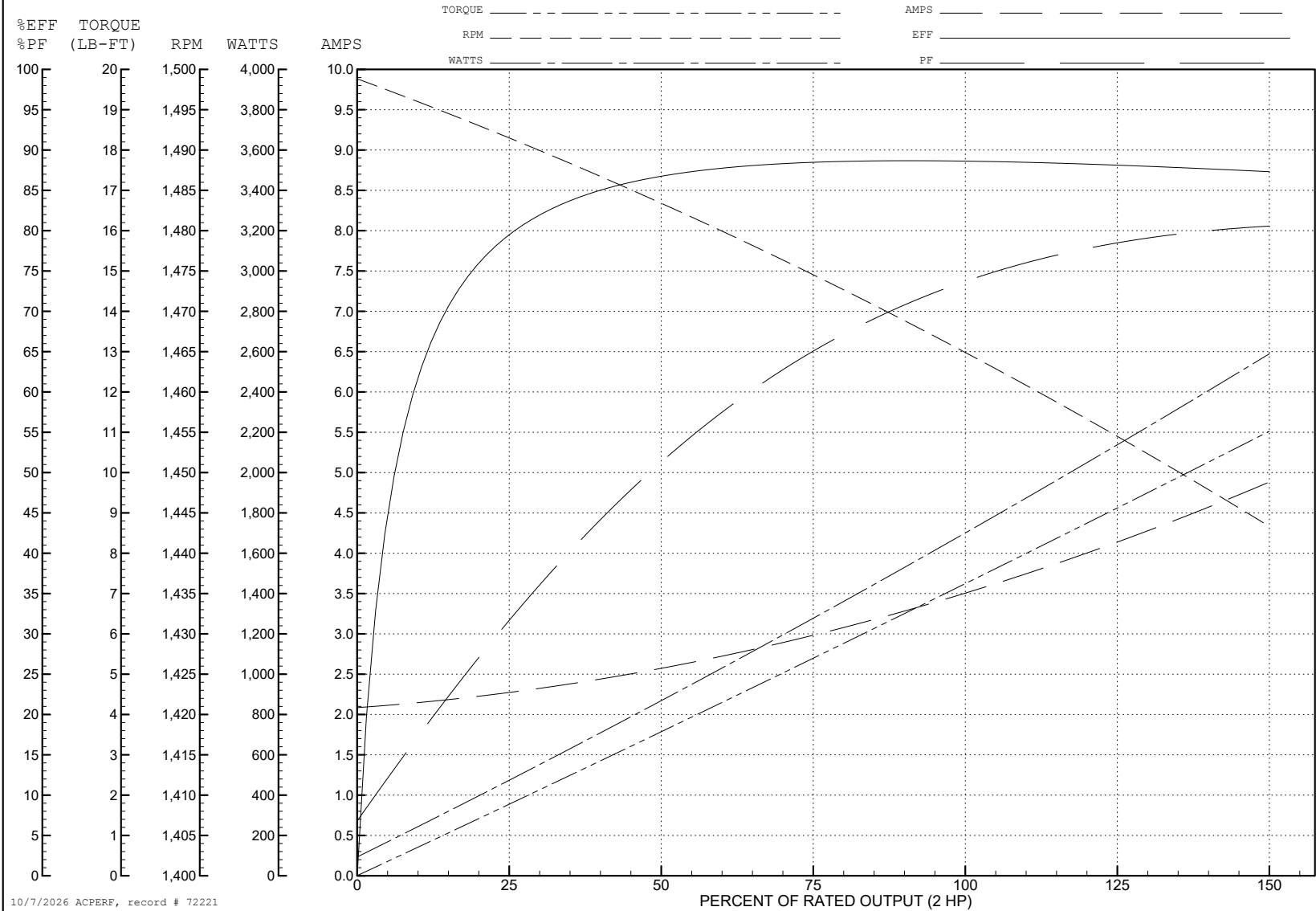
ABB Motors and Mechanical Inc.

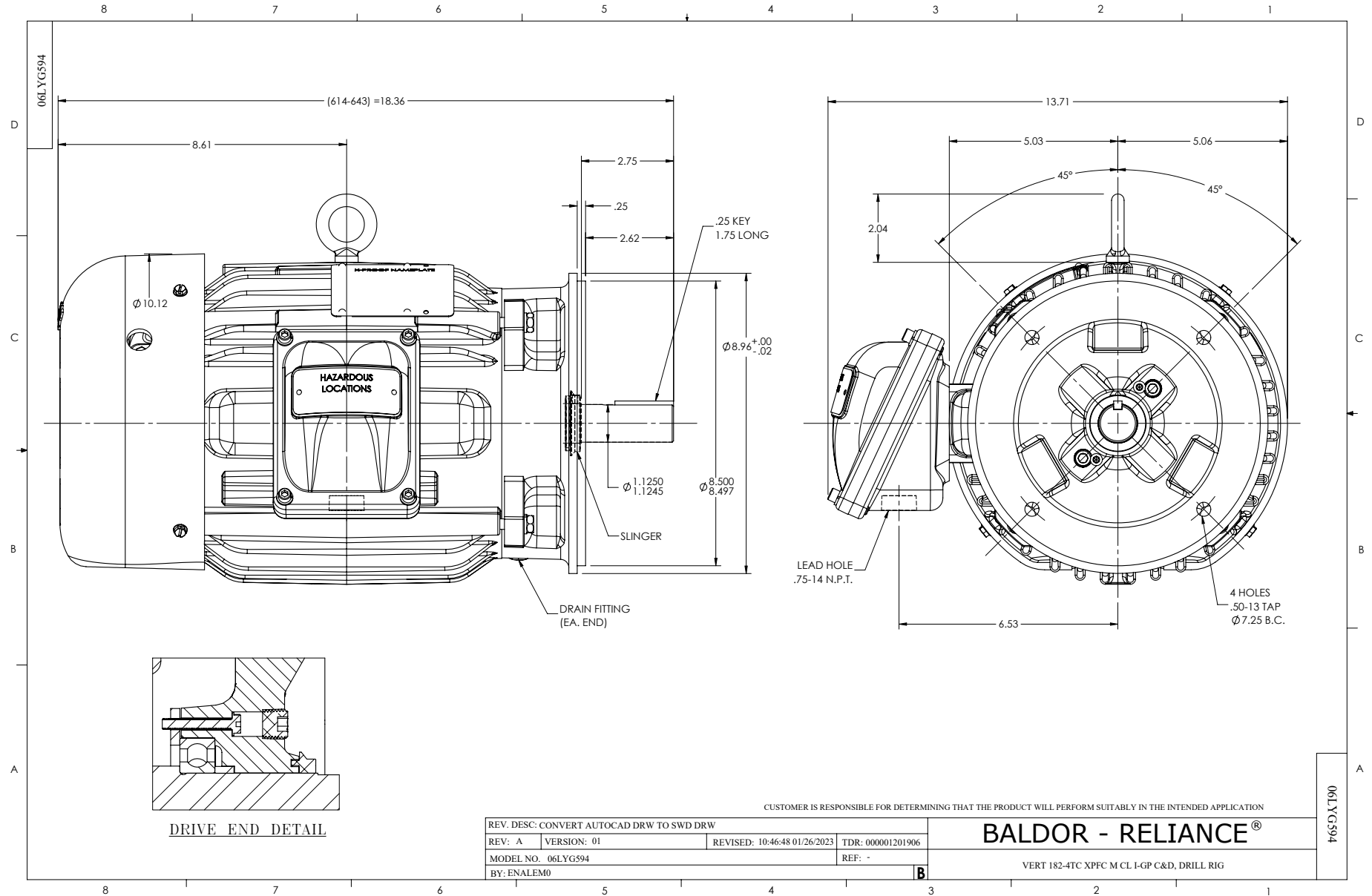
WINDING # 06WGX181

Typical performance - not guaranteed values.

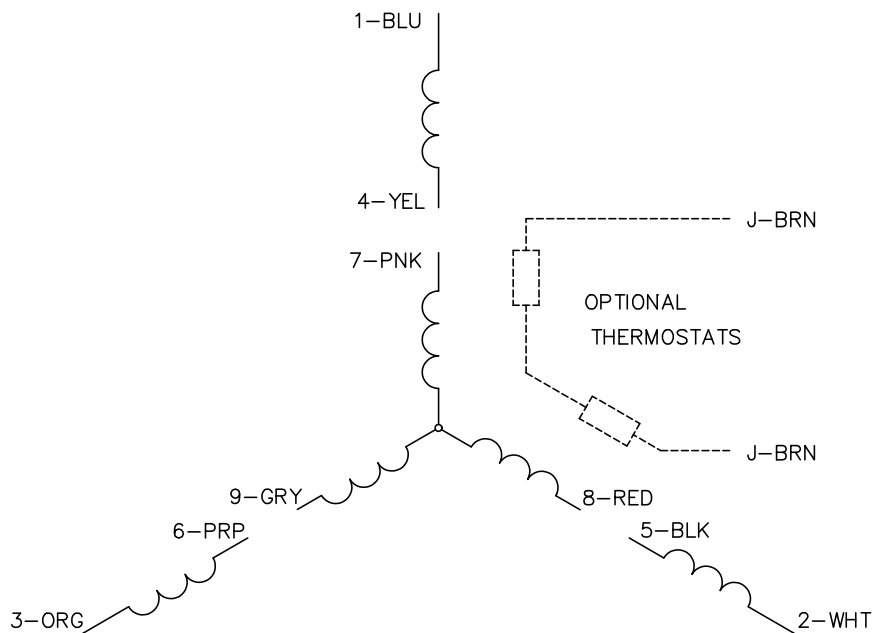
2 HP 3 PH 50 HZ 1465 RPM 380 V 0632M

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

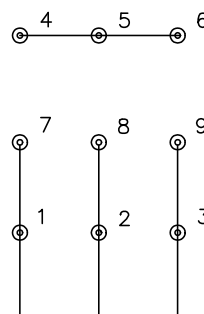




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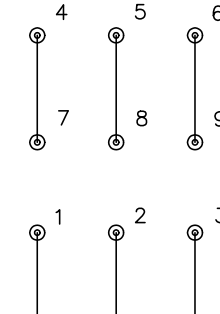


LOW VOLTAGE
(2Y)



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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: E BY: JLP REVISED: 01/19/99 10:15 TDR: 0171435

900000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005