

**BALDOR® • RELIANCE™**

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# Customer information packet

## DRX14124T

1HP, 3450//2875RPM, 3PH, 60HZ, 143T, XPFC, F1

Class - CLI GP C,D

Division - Division I

## Specifications

Enclosure	XPFC
Frame	143T
Frame Material	Steel
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	1.000 HP @ 60 HZ .750 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
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	1.300 A @ 380.0 V 1.400 A @ 460.0 V 2.600 A @ 190.0 V 2.800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

## Part detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGS921
Layout	35LYX081
Eff. date	06-15-2020
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	06-20-2019

Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	1.3 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3516M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.22 IN
Power Factor	82
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3450 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

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**Nameplate**

**NP1401XPSLEV**

<b>NO.</b>		<b>CC</b>	010A				
<b>S/N</b>		<b>TEMP CODE</b>	T3C				
<b>SPEC.</b>	35-0000-0192	<b>INV.TYPE</b>	PWM				
<b>CAT.NO.</b>	DRX14124T	<b>C HP FR</b>	60	<b>C HP TO</b>	90		
<b>HP</b>	1//.75	<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>	2.8/1.4//2.6/1.3	<b>MAG CUR</b>	1.4/.7				
<b>RPM</b>	3450//2875	<b>MX RPM</b>	5400				
<b>HZ</b>	60//50	<b>PH</b>	3	<b>CL</b>	F	<b>NOM.EFF.</b>	84
<b>SER.F.</b>	1.00	<b>DES</b>	B	<b>SL HZ</b>	2	<b>WK2</b>	0.036
<b>FRAME</b>	143T	<b>RATING</b>	40C AMB-CONT				
	55C AMB @ 1.0SF						
	1.15 SF SINEWAVE		NEMA MG-1 PT 5,IP55				

**AC Induction Motor Performance Data**

Record # 76574

Typical performance - not guaranteed values

<b>Winding: 35WGS921-R013</b>		<b>Type: 3516M</b>		<b>Enclosure: XPFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>		1	<b>Full Load Torque</b>		1.5 LB-FT
<b>Volts</b>		230/460//190/380	<b>Start Configuration</b>		direct on line
<b>Full Load Amps</b>		2.8/1.4//2.6/1.3	<b>Breakdown Torque</b>		6.5 LB-FT
<b>R.P.M.</b>		3450//2875	<b>Pull-up Torque</b>		4.8 LB-FT
<b>Hz</b>	60//50	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	5.7 LB-FT
<b>NEMA Design Code</b>		<b>B KVA Code</b>	L	<b>Starting Current</b>	12.1 A
<b>Service Factor (S.F.)</b>			1	<b>No-load Current</b>	0.68 A
<b>NEMA Nom. Eff.</b>	84	<b>Power Factor</b>	82	<b>Line-line Res. @ 25°C</b>	15.2 Ω
<b>Rating - Duty</b>			40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	33°C
				<b>Locked-rotor Power Factor</b>	56.1
				<b>Rotor inertia</b>	0.0443 LB-FT <sup>2</sup>

**Load Characteristics 460 V, 60 Hz, 1 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>	45	65	77	83	87	87
<b>Efficiency</b>	70.3	80.5	83.9	84.6	84.6	83.7
<b>Speed</b>	3567	3539	3510	3479	3446	3410
<b>Line amperes</b>	0.75	0.9	1.09	1.33	1.56	1.88

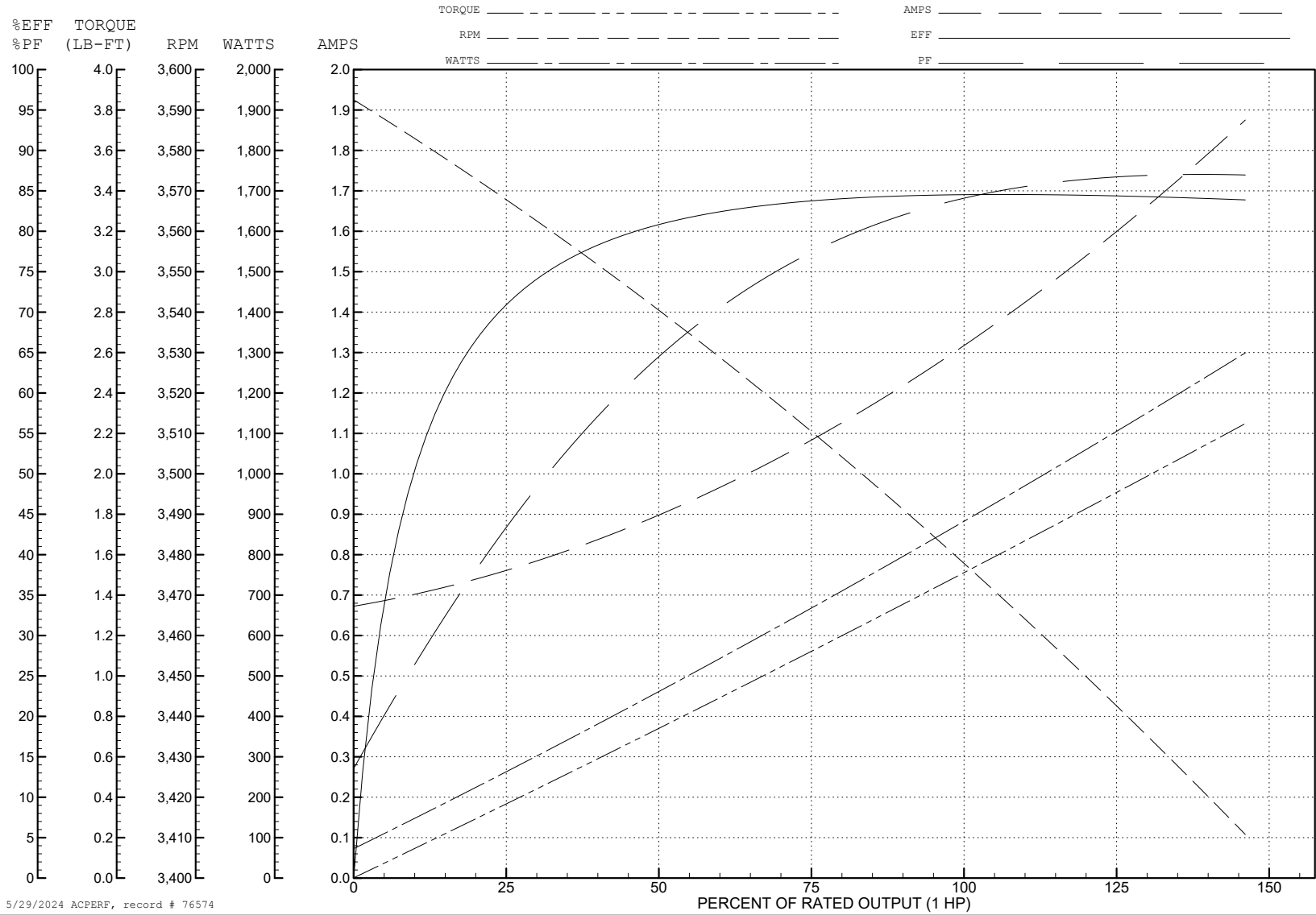
ABB Motors and Mechanical Inc.

WINDING # 35WGS921

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 3479 RPM 460 V 3516M

TORQUES (LB-FT): PO=6.5 PU=4.8 LR=5.7 LRA=12.1



**AC Induction Motor Performance Data**

Record # 76575

Typical performance - not guaranteed values

<b>Winding: 35WGS921-R013</b>		<b>Type: 3516M</b>		<b>Enclosure: XPFC</b>	
<b>Nameplate Data</b>			<b>380 V, 50 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>		1	<b>Full Load Torque</b>		1.36 LB-FT
<b>Volts</b>		230/460//190/380	<b>Start Configuration</b>		direct on line
<b>Full Load Amps</b>		2.8/1.4//2.6/1.3	<b>Breakdown Torque</b>		5.94 LB-FT
<b>R.P.M.</b>		3450//2875	<b>Pull-up Torque</b>		4.9 LB-FT
<b>Hz</b>	60//50	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	5.82 LB-FT
<b>NEMA Design Code</b>		<b>B KVA Code</b>	L	<b>Starting Current</b>	11.24 A
<b>Service Factor (S.F.)</b>			1	<b>No-load Current</b>	0.669 A
<b>NEMA Nom. Eff.</b>	84	<b>Power Factor</b>	82	<b>Line-line Res. @ 25°C</b>	15.2 Ω
<b>Rating - Duty</b>			40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	30°C
				<b>Locked-rotor Power Factor</b>	62.7
				<b>Rotor inertia</b>	0.0443 LB-FT <sup>2</sup>

**Load Characteristics 380 V, 50 Hz, 0.75 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>	45	65	76	82	87	87
<b>Efficiency</b>	65.3	76.9	80.7	82.1	82.1	81.4
<b>Speed</b>	2968	2942	2916	2887	2857	2824
<b>Line amperes</b>	0.731	0.867	1.04	1.26	1.46	1.76



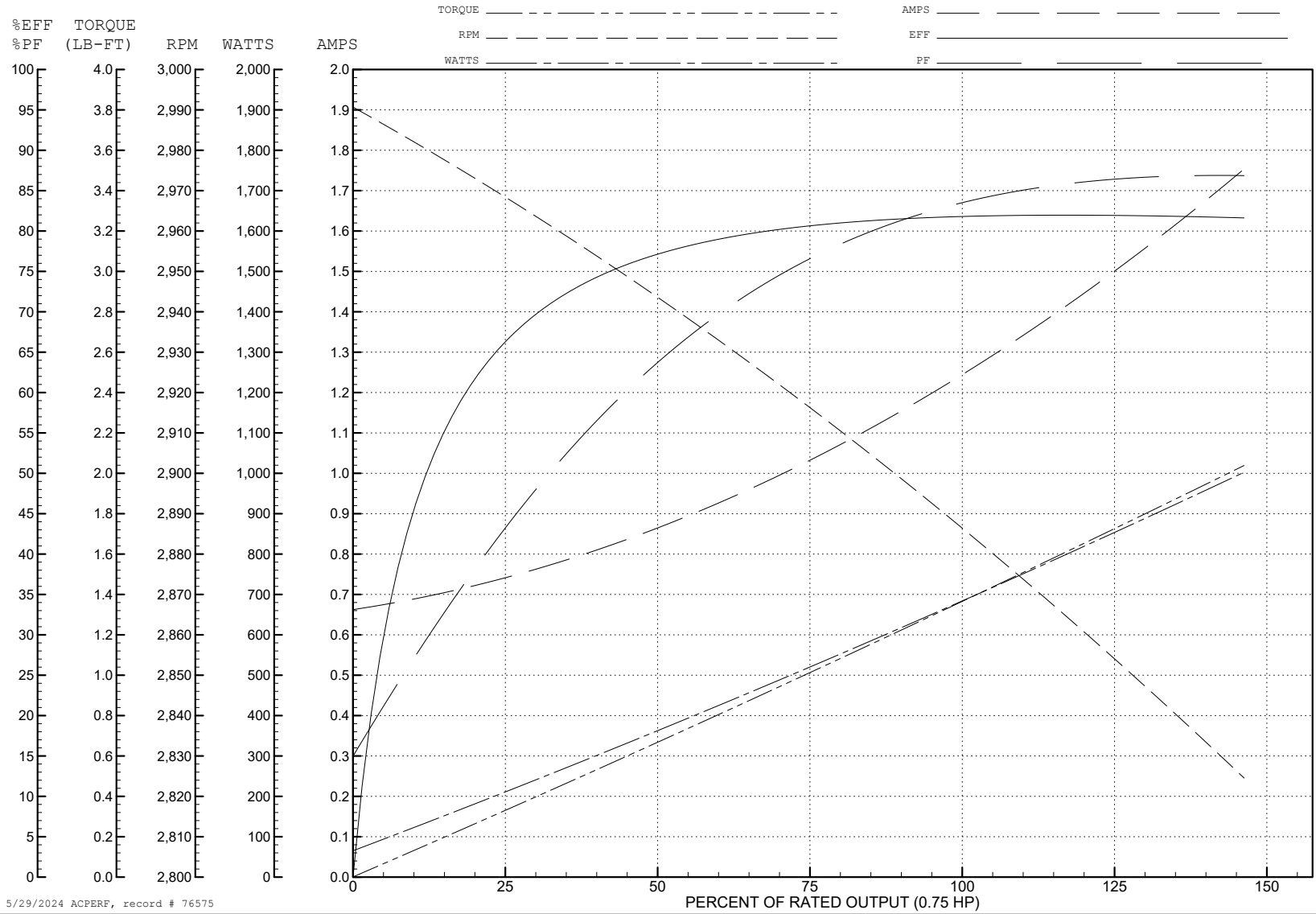
ABB Motors and Mechanical Inc.

WINDING # 35WGS921

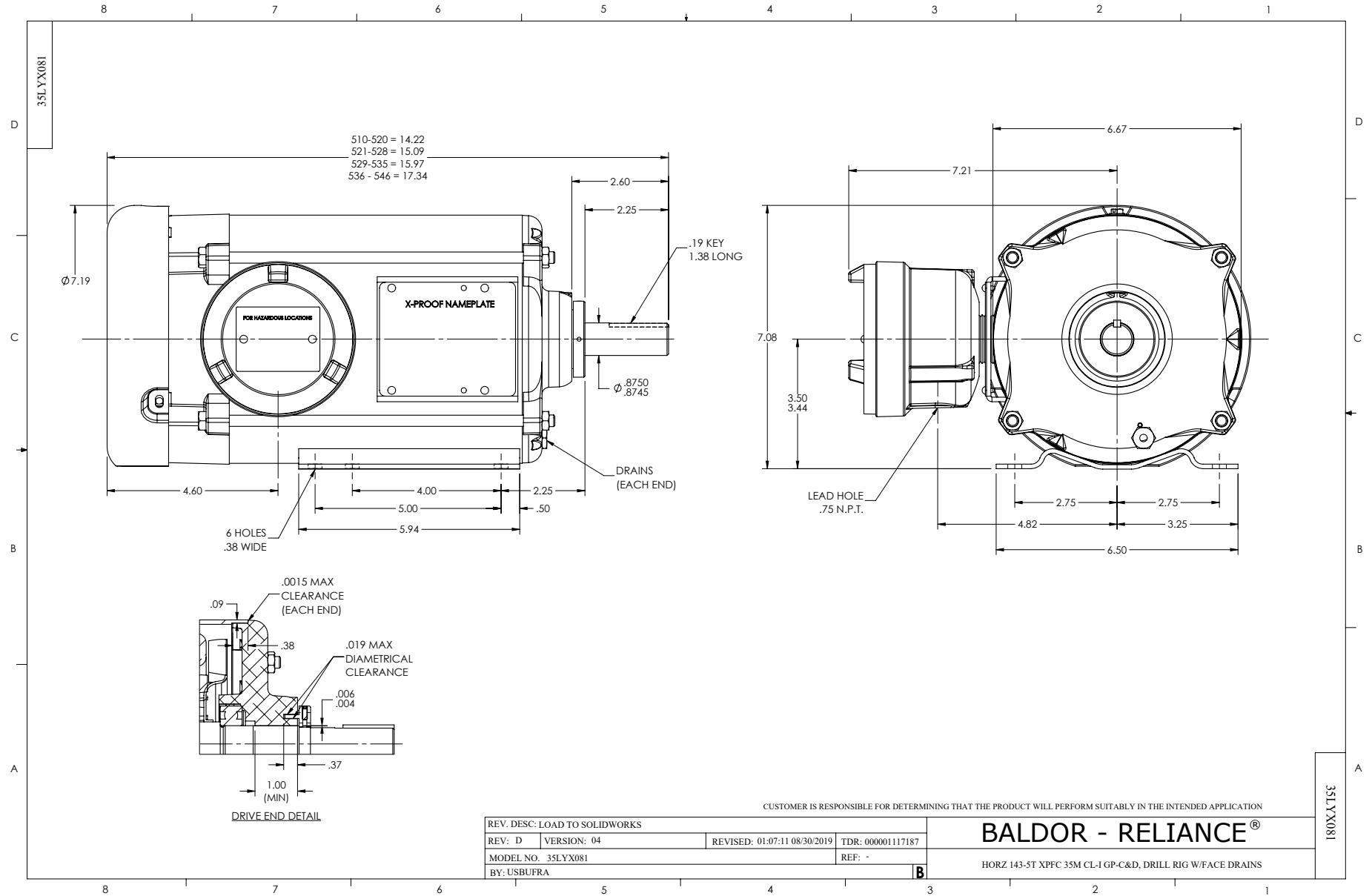
Typical performance - not guaranteed values.

0.75 HP 3 PH 50 HZ 2887 RPM 380 V 3516M

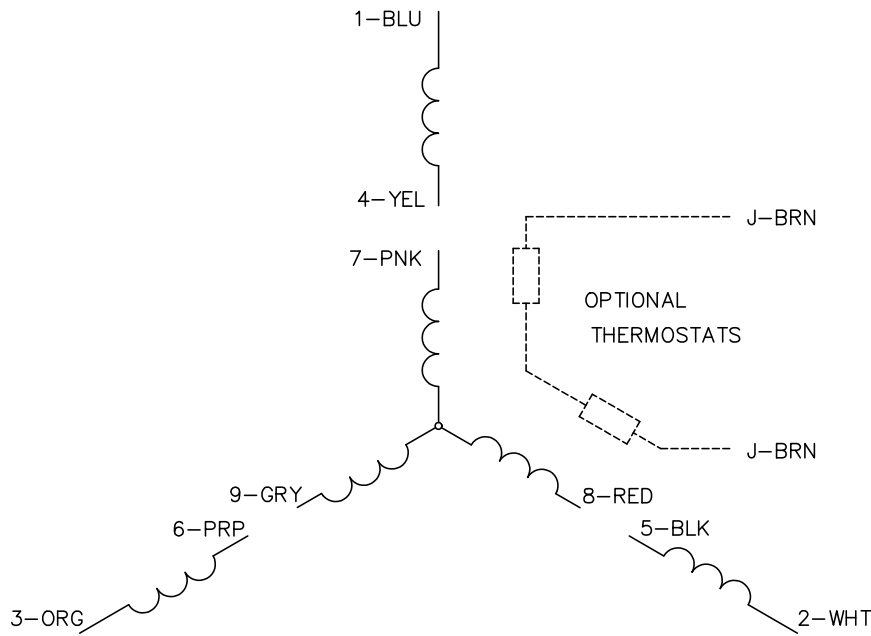
TORQUES (LB-FT): PO=5.94 PU=4.9 LR=5.82 LRA=11.24



5/29/2024 ACPERF, record # 76575



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