ABB BALDOR RELIANCE

Customer information packet

CDRX18524T

5HP, 3500//2900RPM, 3PH, 60HZ, 184TC, XPFC, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	184TC
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	5.000 HP @ 60 HZ
	3.000 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
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	11.000 A @ 230.0 V
	4.200 A @ 380.0 V
	5.500 A @ 460.0 V
	8.400 A @ 190.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGW431
Layout	06LYH515
Eff. date	07-27-2020
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	05-29-2019

Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0640M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.31 IN
Power Factor	96
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	3500 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.	06-0000-0131			**INV.TYPE**	PWM						
CAT.NO.	CDRX18524T			**C HP FR**	60	**C HP TO**	90				
HP	5//3			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	11/5.5//8.4/4.2			**MAG CUR**	3/1.5						
RPM	3500//2900			**MX RPM**	5400						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	88.5				
SER.F.	1.00	**DES**	A	**SL HZ**	1.7	**WK2**	0.18				
FRAME	184TC	**RATING**	40C AMB-CONT								
	1.15 SF SINEWAVE										
	55C AMB @ 1.0SF				NEMA MG-1 PT 5,IP55						

AC Induction Motor Performance Data
Record # 72833
Typical performance - not guaranteed values

Winding: 06WGW431-R028	**Type:** 0640M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			5//3
Volts			230/460//190/380
Full Load Amps			11/5.5//8.4/4.2
R.P.M.			3500//2900
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	L
Service Factor (S.F.)			1
NEMA Nom. Eff.	88.5	**Power Factor**	96
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	7.61 LB-FT
Start Configuration	direct on line
Breakdown Torque	35.64 LB-FT
Pull-up Torque	26.7 LB-FT
Locked-rotor Torque	30.8 LB-FT
Starting Current	62.3 A
No-load Current	1.55 A
Line-line Res. @ 25ºC	2.12 Ω
Temp. Rise @ Rated Load	49°C
Locked-rotor Power Factor	43
Rotor inertia	0.179 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	75	88	95	96	96	93
Efficiency	75.1	83.3	85.8	86.2	85.7	84.8
Speed	3562	3533	3503	3470	3435	3398
Line amperes	2.14	3.27	4.38	5.7	7.1	8.72

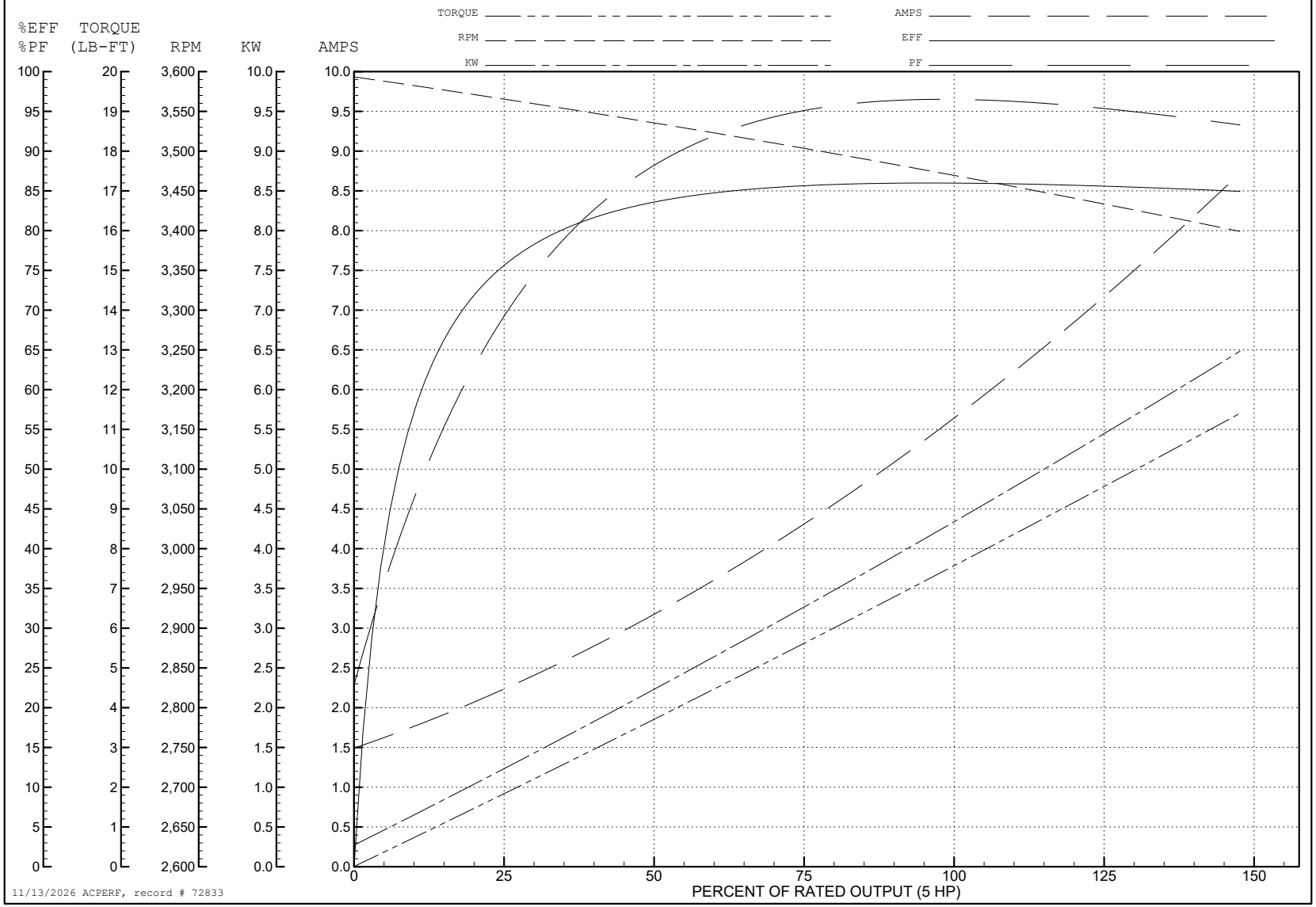
ABB Motors and Mechanical Inc.

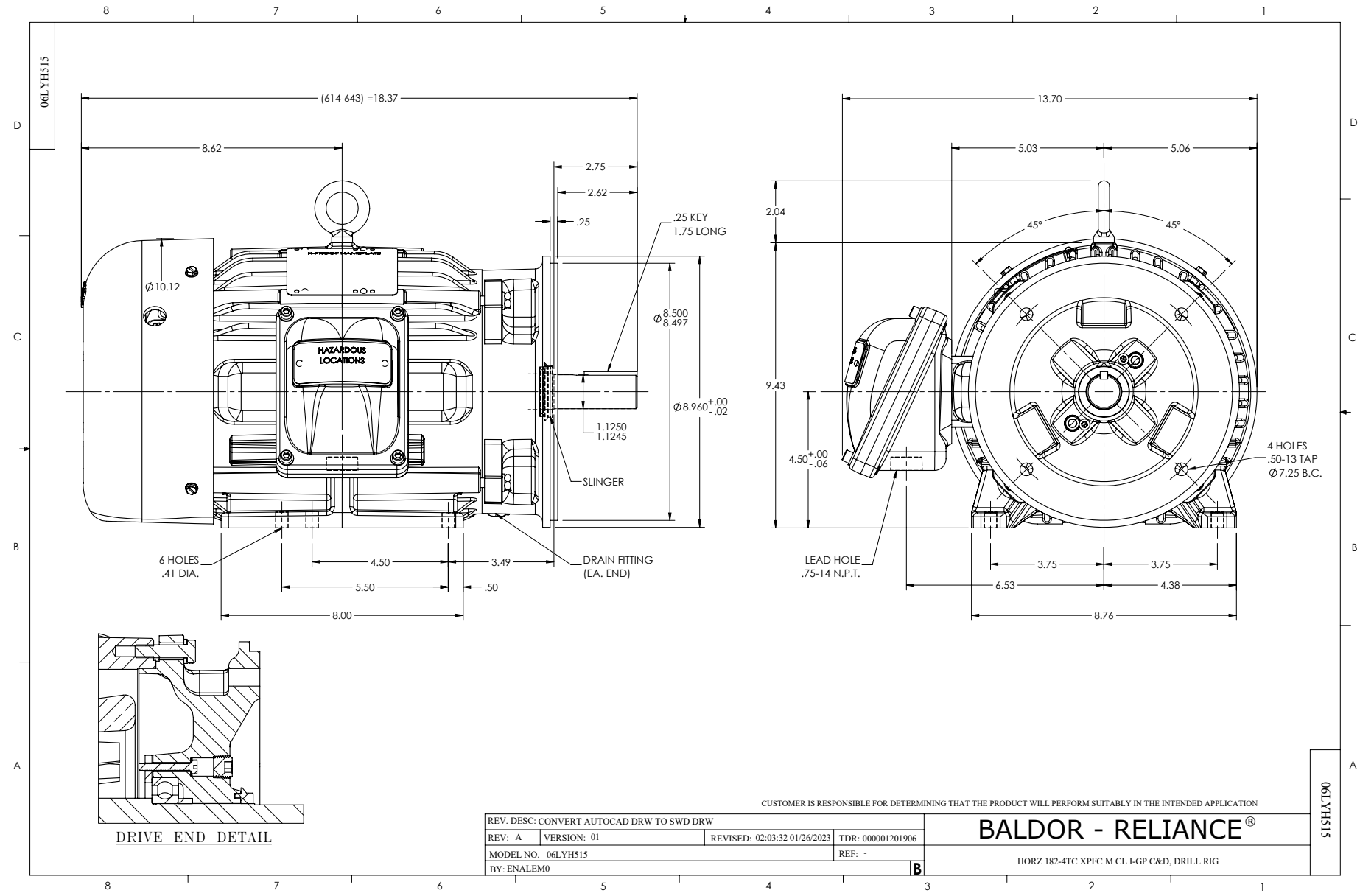
WINDING # 06WGW431

5 HP 3 PH 60 HZ 3470 RPM 460 V 0640M

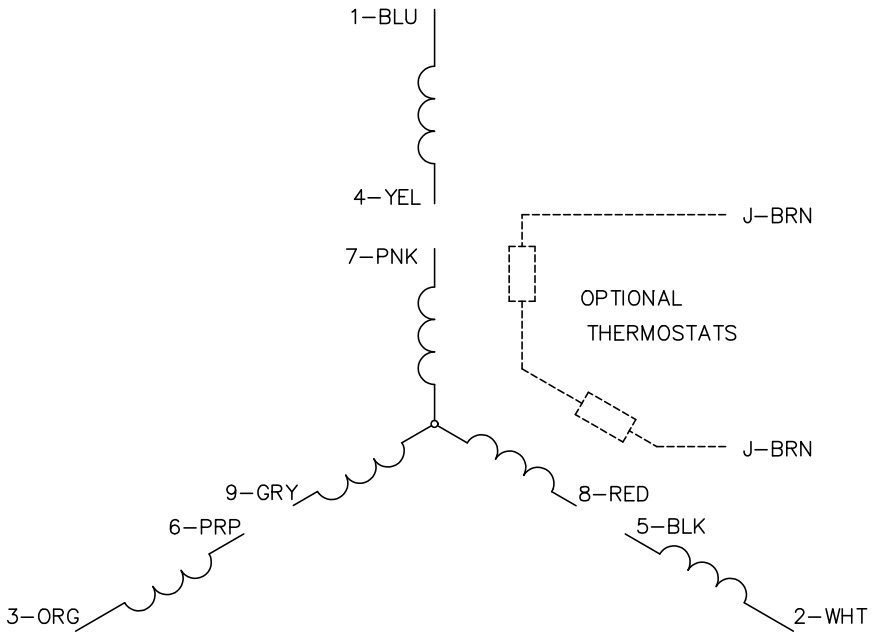
Typical performance - not guaranteed values.

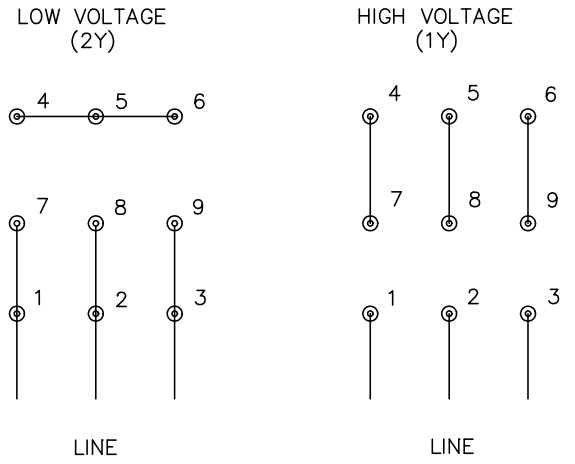
TORQUES(LB-FT): PO=35.64 PU=26.7 LR=30.8 LRA=62.3




06LYH515
(614-643) =18.37
8.62
2.75
2.62
.25
.25 KEY
1.75 LONG
Ø10.12
Ø8.500
8.497
HAZARDOUS
LOCATIONS
Ø8.960 +.00 -.02
1.1250
1.1245
SLINGER
6 HOLES
.41 DIA.
4.50
3.49
5.50
.50
8.00
DRAIN FITTING
(EA. END)
13.70
5.03
5.06
2.04
45°
45°
9.43
4.50 +.00 -.06
4 HOLES
.50-13 TAP
Ø7.25 B.C.
LEAD HOLE
.75-14 N.P.T.
3.75
3.75
6.53
4.38
8.76
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: 02:03:32 01/26/2023
TDR: 000001201906
MODEL NO. 06LYH515
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 182-4TC XPFC M CL I-GP C&D, DRILL RIG
06LYH515

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