ABB BALDOR RELIANCE

Customer information packet

DRX141524T

1.5HP, 3500//2900RPM, 3PH, 60HZ, 143T, XPFC, F
Class - CLI GP C,D
Division - Division I

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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	1.500 HP @ 60 HZ
	1.000 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	1.700 A @ 380.0 V
	1.900 A @ 460.0 V
	3.400 A @ 190.0 V
	3.800 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.	35WGM760
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	1.7 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	3520M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.22 IN
Power Factor	85
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	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.	35-0000-0190			**INV.TYPE**	PWM							
CAT.NO.	DRX141524T			**C HP FR**	60	**C HP TO**	90					
HP	1.5//1			**CT HZ FROM**	6			**CT HZ TO**	60			
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60			
AMPS	3.8/1.9//3.4/1.7		**MAG CUR**	1.8/.9								
RPM	3500//2900		**MX RPM**	5400								
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	84					
SER.F.	1.00	**DES**	B	**SL HZ**	1.7	**WK2**	0.06					
FRAME	143T	**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 # 76578
Typical performance - not guaranteed values

Winding: 35WGM760-R019	**Type:** 3520M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			1.5
Volts			230/460//190/380
Full Load Amps			3.8/1.9//3.4/1.7
R.P.M.			3500//2900
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	L
Service Factor (S.F.)			1
NEMA Nom. Eff.	84	**Power Factor**	85
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	1.78 LB-FT
Start Configuration	direct on line
Breakdown Torque	8.7 LB-FT
Pull-up Torque	3.69 LB-FT
Locked-rotor Torque	7.52 LB-FT
Starting Current	16.65 A
No-load Current	0.909 A
Line-line Res. @ 25ºC	9.66 Ω
Temp. Rise @ Rated Load	34°C
Locked-rotor Power Factor	61.4
Rotor inertia	0.0553 LB-FT2

Load Characteristics 380 V, 50 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	42	62	75	83	87	89
Efficiency	65.1	77.1	80.7	82.1	82	81
Speed	2977	2958	2937	2915	2889	2862
Line amperes	0.981	1.15	1.37	1.65	1.96	2.34

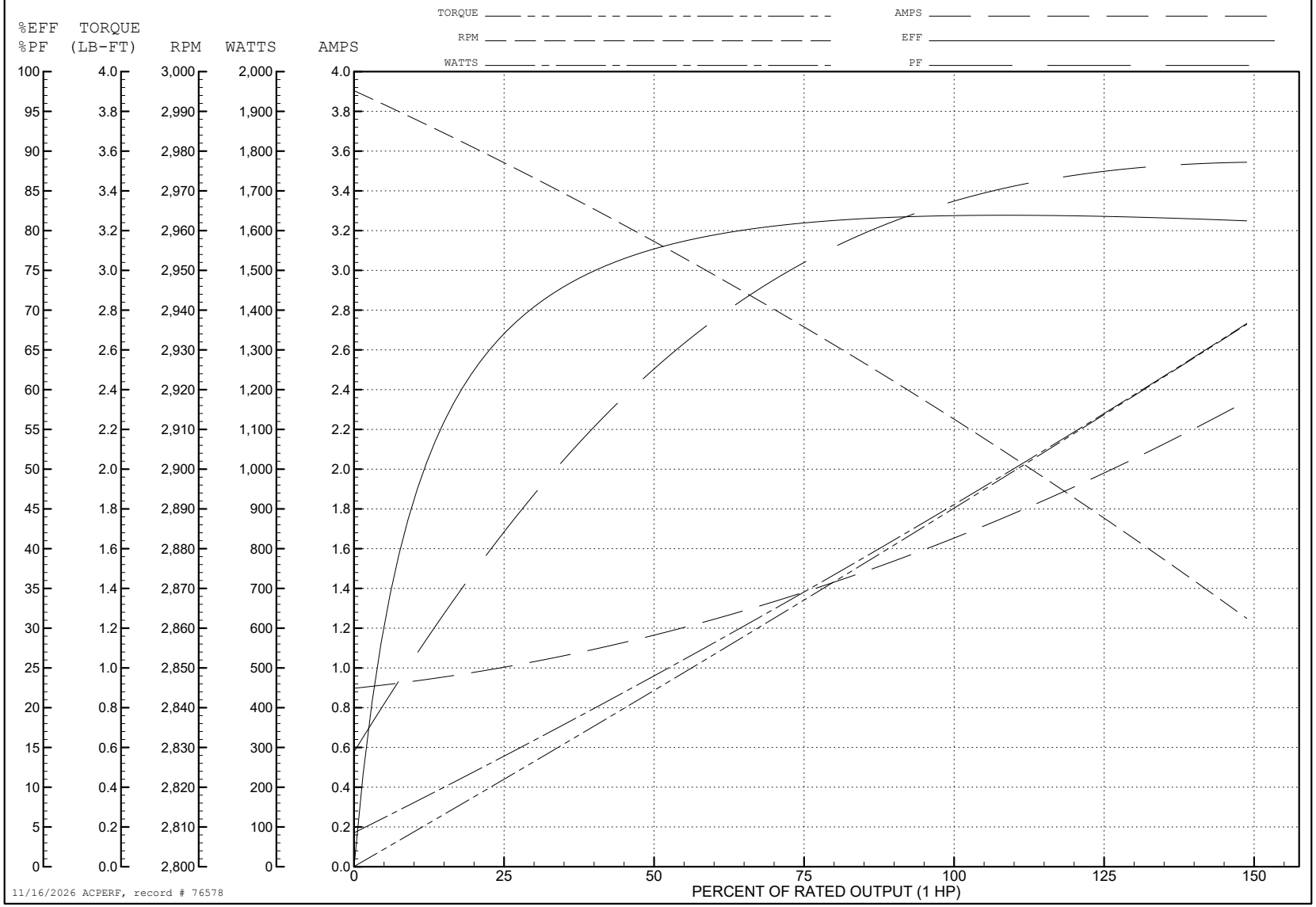
ABB Motors and Mechanical Inc.

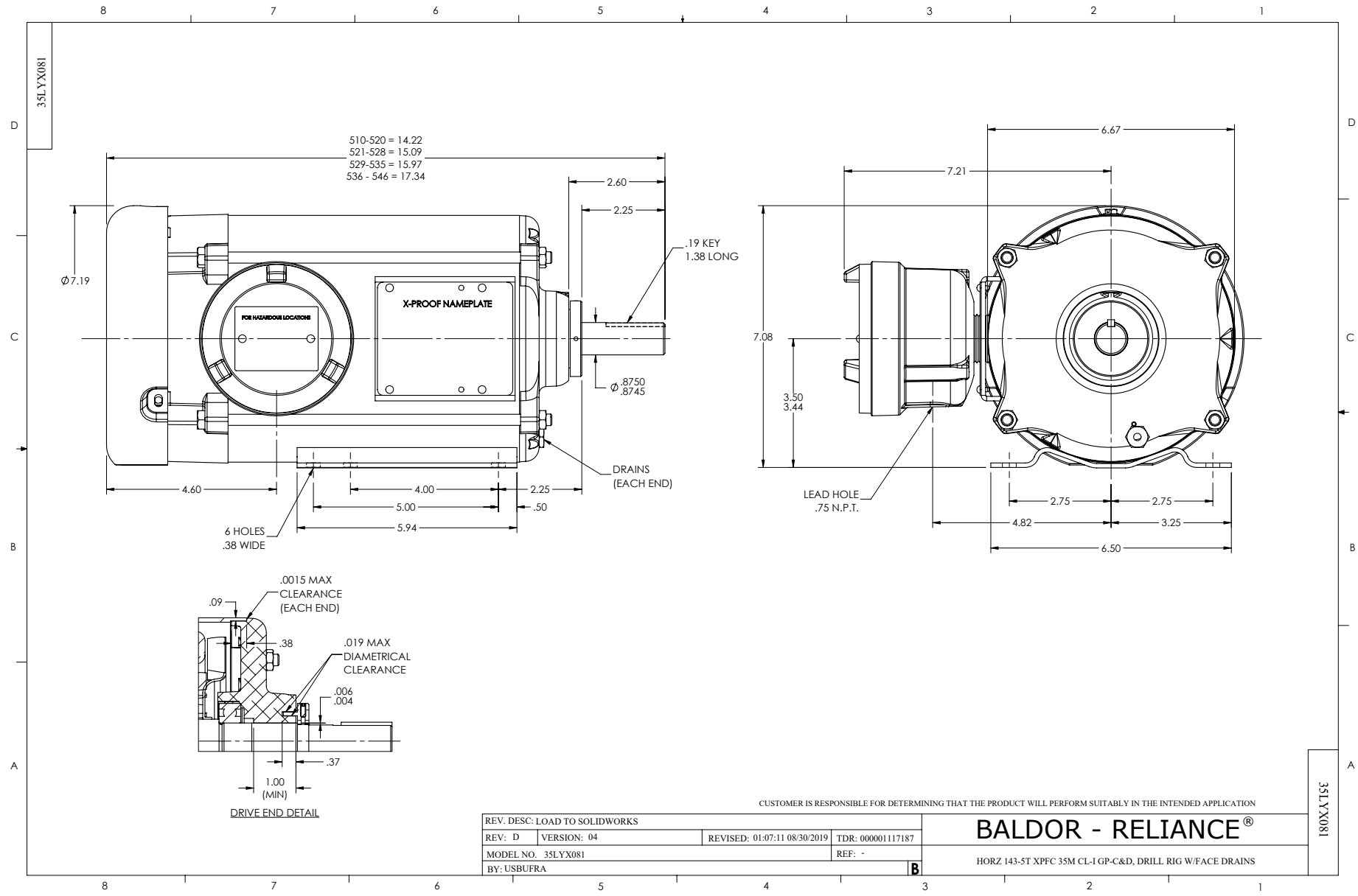
WINDING # 35WGM760

1 HP 3 PH 50 HZ 2915 RPM 380 V 3520M

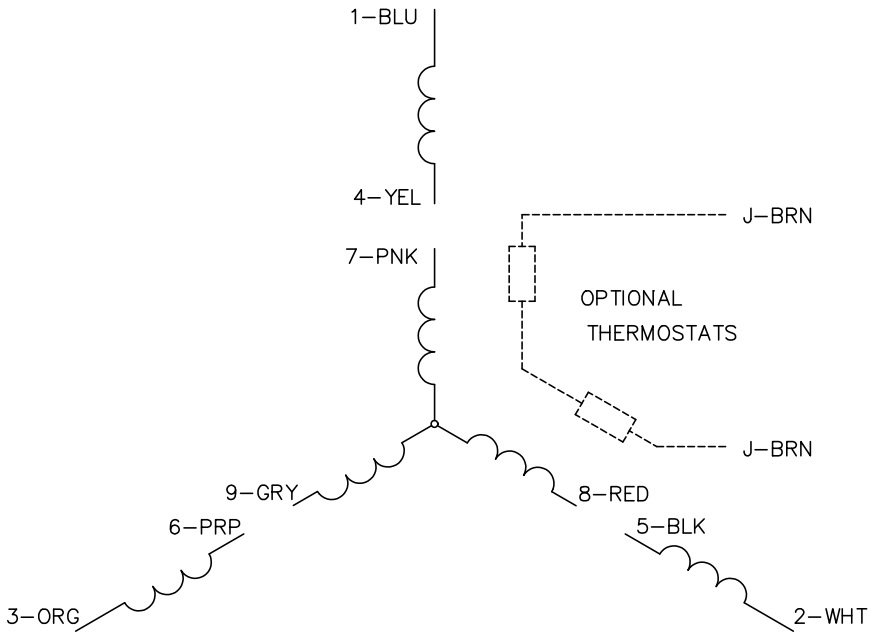
Typical performance - not guaranteed values.

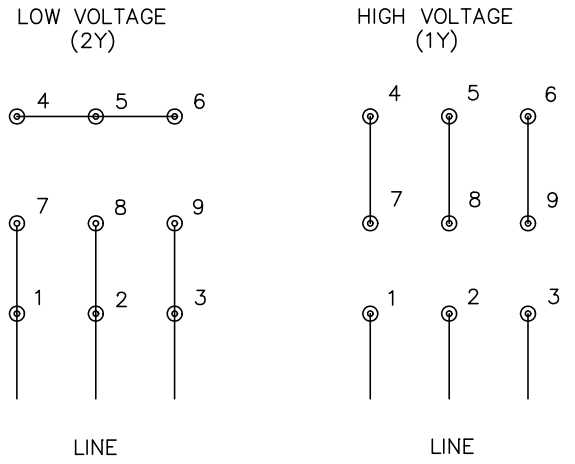
TORQUES(LB-FT): PO=8.7 PU=3.69 LR=7.52 LRA=16.65




35LYX081
510-520 = 14.22
521-528 = 15.09
529-535 = 15.97
536 - 546 = 17.34
2.60
2.25
.19 KEY
1.38 LONG
Ø7.19
X-PROOF NAMEPLATE
FOR HAZARDOUS LOCATIONS
Ø .8750
.8745
DRAINS
(EACH END)
4.60
4.00
2.25
5.00
.50
5.94
6 HOLES
.38 WIDE
6.67
7.21
7.08
3.50
3.44
LEAD HOLE
.75 N.P.T.
2.75
2.75
4.82
3.25
6.50
.0015 MAX
CLEARANCE
(EACH END)
.09
.38
.019 MAX
DIAMETRICAL
CLEARANCE
.006
.004
.37
1.00
(MIN)
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD TO SOLIDWORKS
REV: D
VERSION: 04
REVISED: 01:07:11 08/30/2019
TDR: 000001117187
MODEL NO. 35LYX081
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ 143-5T XPFC 35M CL-I GP-C&D, DRILL RIG W/FACE DRAINS
35LYX081

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