ABB BALDOR RELIANCE

Customer information packet

DRX14224T

2HP, 3490//2890RPM, 3PH, 60HZ, 145T, XPFC, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	145T
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	2.000 HP @ 60 HZ
	1.500 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	2.300 A @ 380.0 V
	2.500 A @ 460.0 V
	4.600 A @ 190.0 V
	5.000 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.	35WGM774
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	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3526M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.09 IN
Power Factor	88
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	3490 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.	35-0000-0191			**INV.TYPE**	PWM						
CAT.NO.	DRX14224T			**C HP FR**	60	**C HP TO**	90				
HP	2//1.5			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	5/2.5//4.6/2.3		**MAG CUR**	1.8/.9							
RPM	3490//2890		**MX RPM**	5400							
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	85.5				
SER.F.	1.00	**DES**	B	**SL HZ**	1.8	**WK2**	0.07				
FRAME	145T	**RATING**	40C AMB-CONT								
	55C AMB @ 1.0SF										
	1.15 SF SINEWAVE			NEMA MG-1 PT 5,IP55							

AC Induction Motor Performance Data
Record # 76613
Typical performance - not guaranteed values

Winding: 35WGM774-R025	**Type:** 3526M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	2.98 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			5/2.5//4.6/2.3	**Breakdown Torque**	14.2 LB-FT
R.P.M.			3490//2890	**Pull-up Torque**	6.33 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	11.2 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	25.9 A
Service Factor (S.F.)			1	**No-load Current**	0.912 A
NEMA Nom. Eff.	85.5	**Power Factor**	88	**Line-line Res. @ 25ºC**	6.88 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
				Locked-rotor Power Factor	49.9
				Rotor inertia	0.0719 LB-FT2

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	55	75	84	88	90	91
Efficiency	73.4	83.6	85.7	86.3	85.7	84.6
Speed	3572	3547	3520	3492	3461	3426
Line amperes	1.1	1.47	1.93	2.44	3	3.61

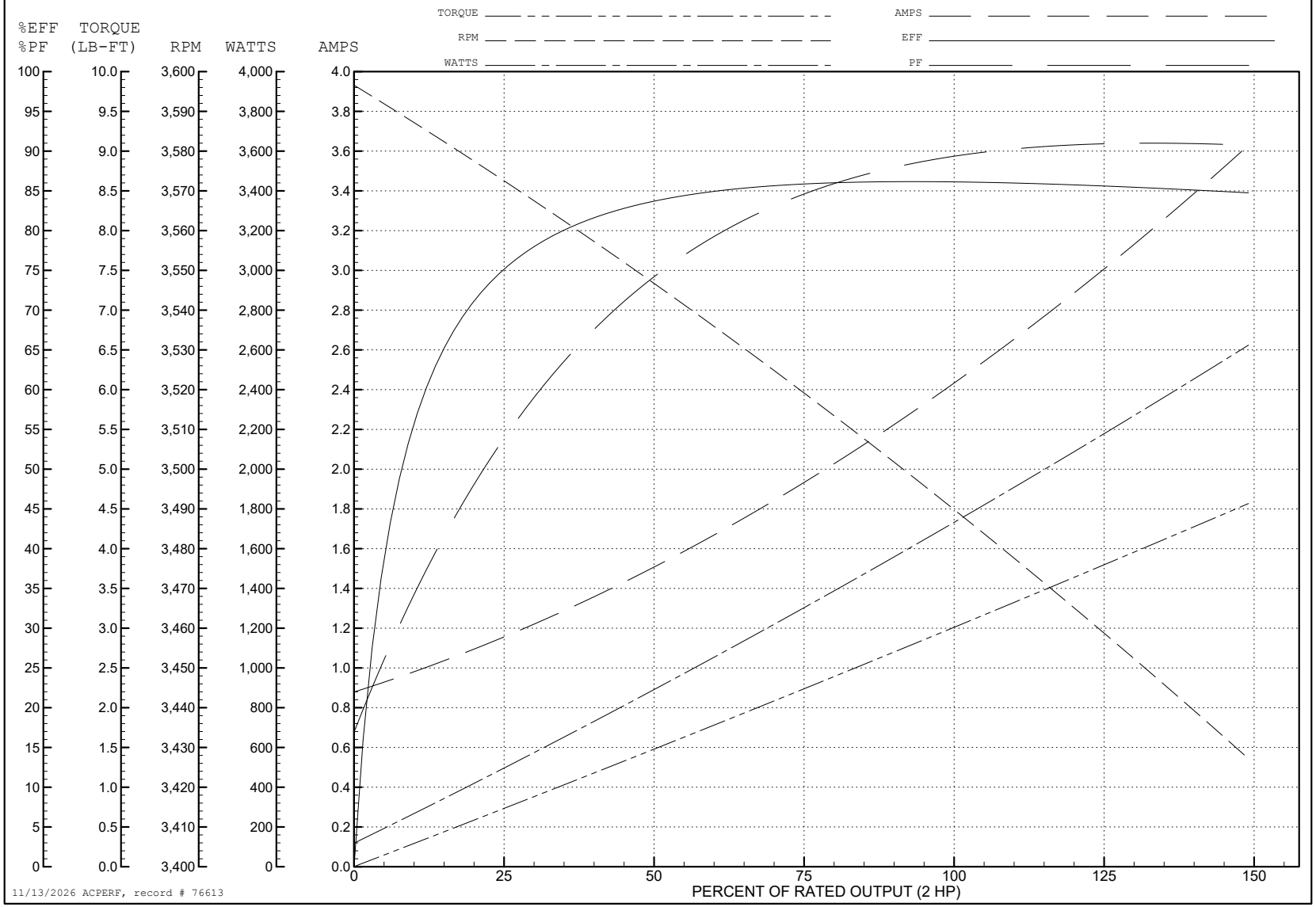
ABB Motors and Mechanical Inc.

WINDING # 35WGM774

2 HP 3 PH 60 HZ 3492 RPM 460 V 3526M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=14.2 PU=6.33 LR=11.2 LRA=25.9



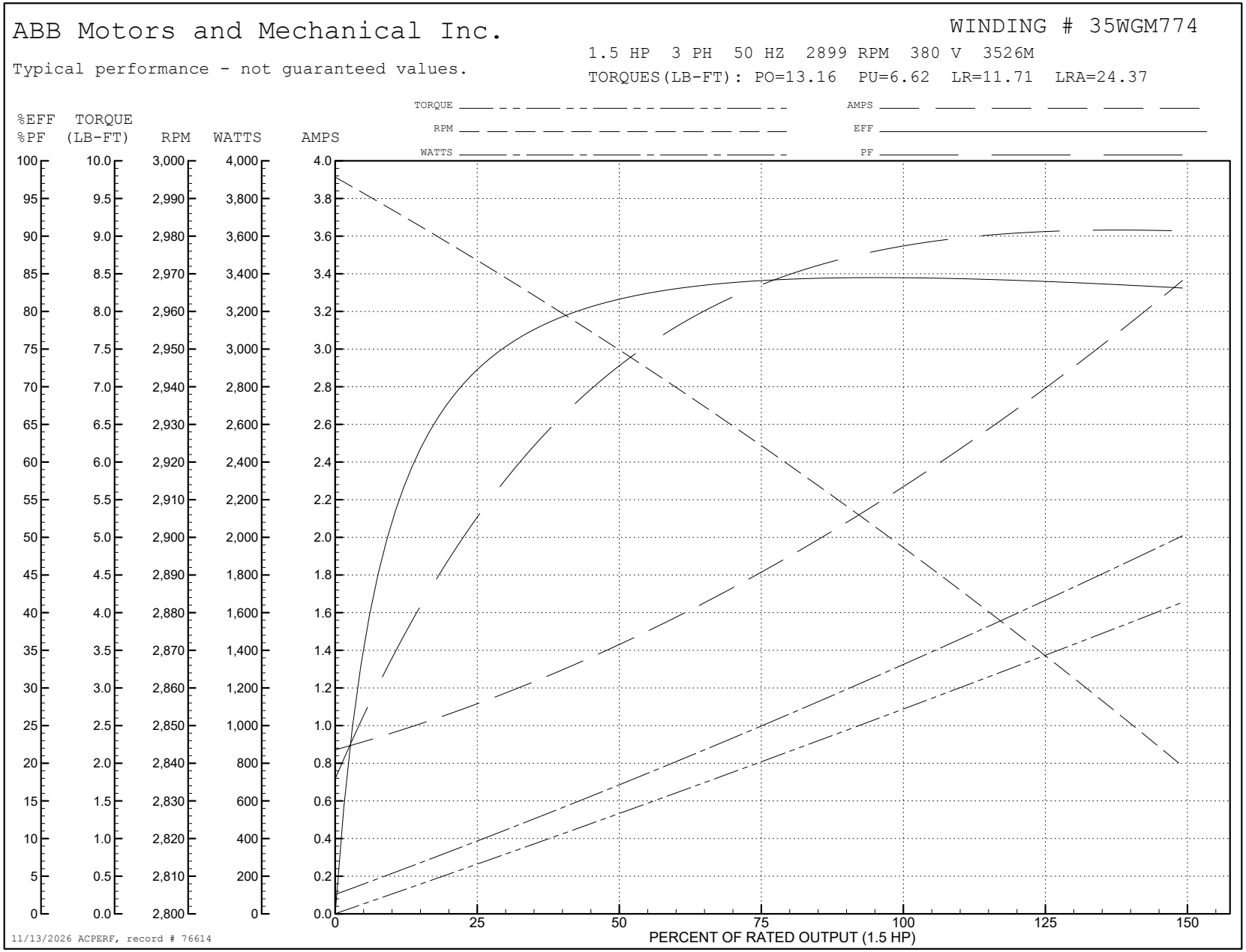
AC Induction Motor Performance Data
Record # 76614
Typical performance - not guaranteed values

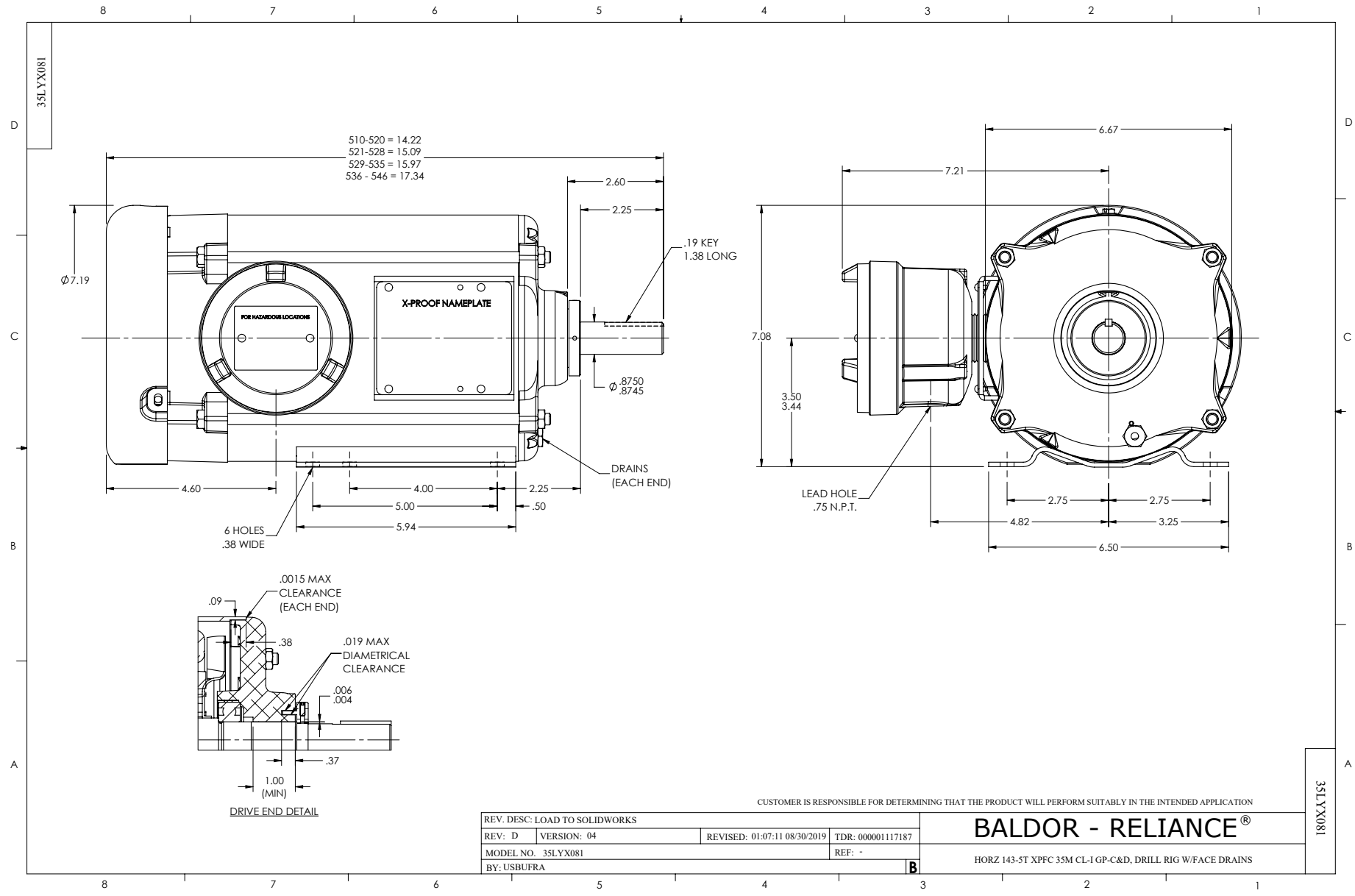
Winding: 35WGM774-R025	**Type:** 3526M	**Enclosure:** TEFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	2.69 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			5/2.5//4.6/2.3	**Breakdown Torque**	13.16 LB-FT
R.P.M.			3490//2890	**Pull-up Torque**	6.62 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	11.71 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	24.37 A
Service Factor (S.F.)			1	**No-load Current**	0.898 A
NEMA Nom. Eff.	85.5	**Power Factor**	88	**Line-line Res. @ 25ºC**	6.88 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	39°C
				Locked-rotor Power Factor	56.4
				Rotor inertia	0.0719 LB-FT2

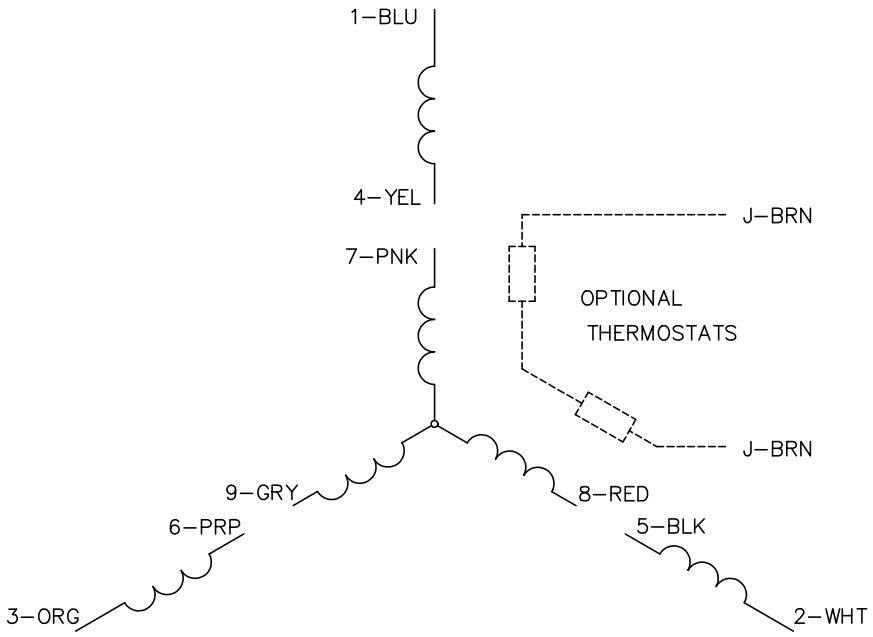
Load Characteristics 380 V, 50 Hz, 1.5 HP

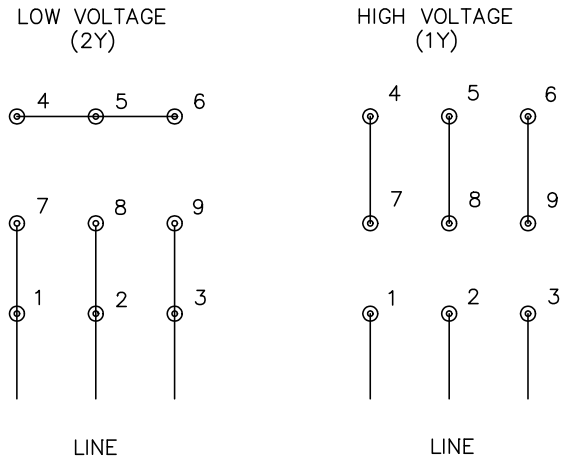
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	53	74	83	87	90	91
Efficiency	70.4	81.5	84	84.5	84.2	83
Speed	2973	2950	2925	2899	2871	2838
Line amperes	1.07	1.4	1.81	2.28	2.78	3.35


ABB Motors and Mechanical Inc.
WINDING # 35WGM774
1.5 HP 3 PH 50 HZ 2899 RPM 380 V 3526M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=13.16 PU=6.62 LR=11.71 LRA=24.37
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/13/2026 ACPERF, record # 76614


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