ABB BALDOR RELIANCE

Customer information packet

DRX181564T

1.5HP, 1170//970RPM, 3PH, 60HZ, 182T, XPFC, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	182T
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	1.500 HP @ 60 HZ
	1.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	2.297 A @ 380.0 V
	2.500 A @ 460.0 V
	4.400 A @ 190.0 V
	5.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGW969
Layout	06LY-000-044
Eff. date	02-28-2024
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	05-01-2019

Efficiency @ 100% Load	87.5 %
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	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0630M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	17.56 IN
Power Factor	65
Product Family	General Purpose
Pulley Face Code	Standard
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	1170 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.	06-0000-0118			**INV.TYPE**	PWM						
CAT.NO.	DRX181564T			**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	5/2.5//4.4/2.297			**MAG CUR**	3/1.5						
RPM	1170//970			**MX RPM**	1800						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	87.5				
SER.F.	1.00	**DES**	B	**SL HZ**	1.5	**WK2**	0.282				
FRAME	182T	**RATING**	40C AMB-CONT								
	55C AMB @1.0SF										
	1.15SF SINEWAVE				NEMA MG-1 PT 5,IP55						

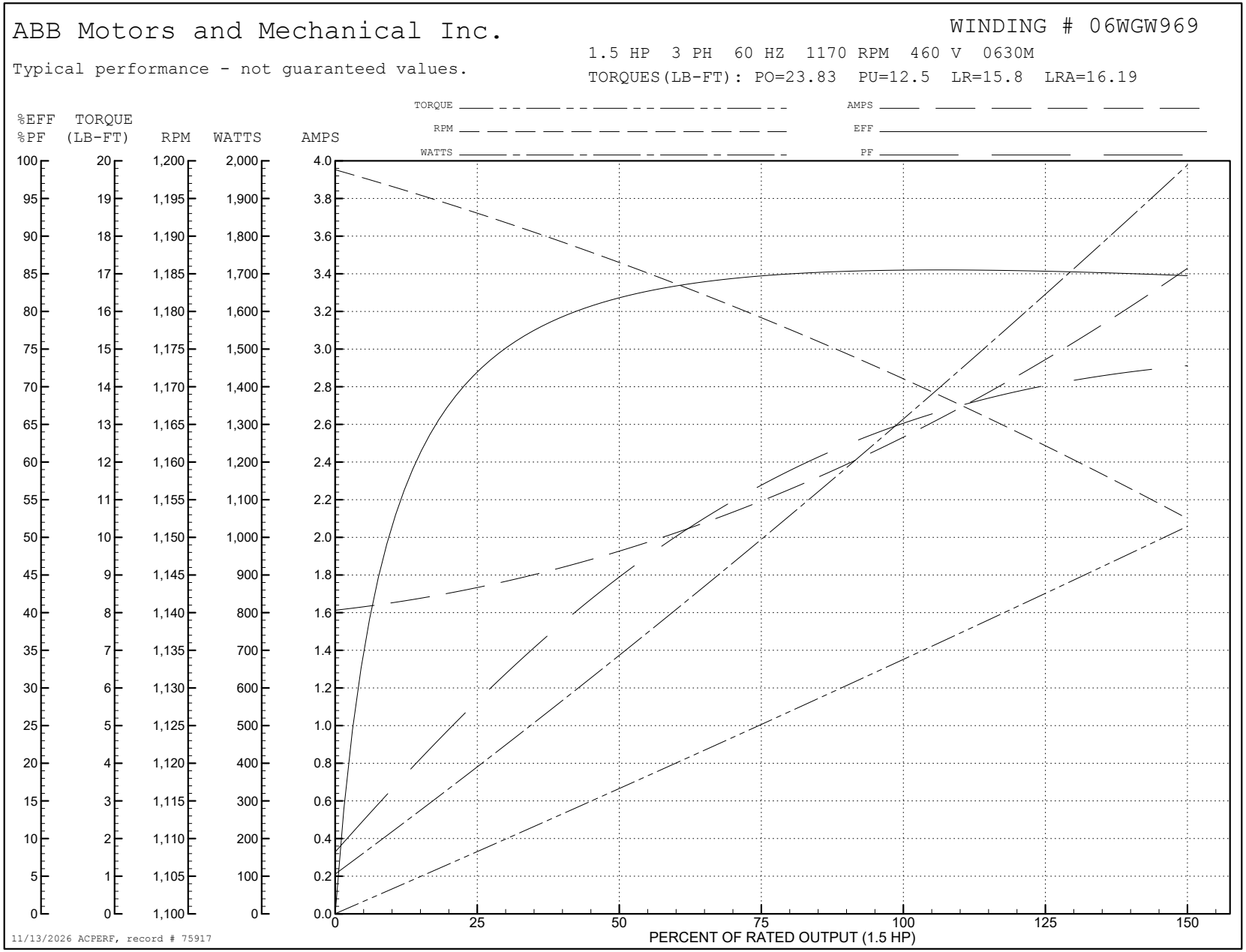
AC Induction Motor Performance Data
Record # 75917
Typical performance - not guaranteed values

Winding: 06WGW969-R007	**Type:** 0630M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Speed Connection**	
Rated Output (HP)			1.5//1	**Full Load Torque**	6.76 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			5/2.5//4.4/2.2970	**Breakdown Torque**	23.83 LB-FT
R.P.M.			1170	**Pull-up Torque**	12.5 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	15.8 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	16.19 A
Service Factor (S.F.)			1	**No-load Current**	1.63 A
NEMA Nom. Eff.	87.5	**Power Factor**	65	**Line-line Res. @ 25ºC**	7.01 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	27°C
S.F. Amps				**Temp. Rise @ S.F. Load**	31°C
				Locked-rotor Power Factor	30.4
				Rotor inertia	0.282 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	29	45	57	65	70	73
Efficiency	71.5	81.5	84.5	85.7	85.6	84.5
Speed	1193	1186	1179	1171	1163	1152
Line amperes	1.71	1.92	2.21	2.54	2.95	3.42


ABB Motors and Mechanical Inc.
WINDING # 06WGW969
1.5 HP 3 PH 60 HZ 1170 RPM 460 V 0630M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=23.83 PU=12.5 LR=15.8 LRA=16.19
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 # 75917

AC Induction Motor Performance Data
Record # 75918
Typical performance - not guaranteed values

Winding: 06WGW969-R007	**Type:** 0630M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			1.5//1
Volts			230/460//190/380
Full Load Amps			5/2.5//4.4/2.2970
R.P.M.			1170
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1
NEMA Nom. Eff.	87.5	**Power Factor**	65
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	5.42 LB-FT
Start Configuration	direct on line
Breakdown Torque	22.86 LB-FT
Pull-up Torque	13.14 LB-FT
Locked-rotor Torque	16.61 LB-FT
Starting Current	15.76 A
No-load Current	1.61 A
Line-line Res. @ 25ºC	7.01 Ω
Temp. Rise @ Rated Load	21°C
Locked-rotor Power Factor	34.4
Rotor inertia	0.282 LB-FT2

Load Characteristics 380 V, 50 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	25	40	51	60	66	71
Efficiency	68.3	79.4	83.2	84.8	84.9	84.1
Speed	994	989	983	977	970	962
Line amperes	1.66	1.81	2.01	2.24	2.54	2.87

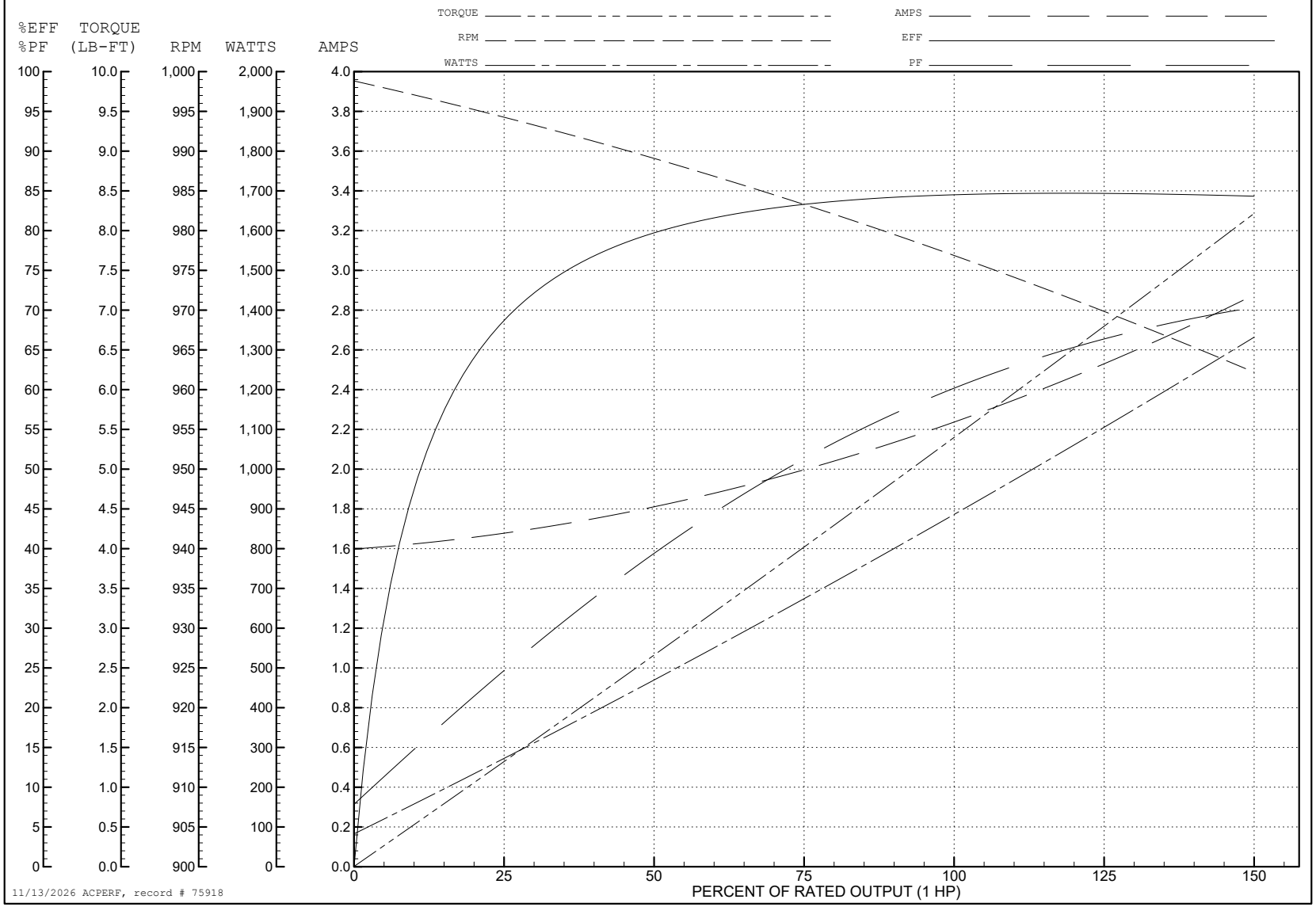
ABB Motors and Mechanical Inc.

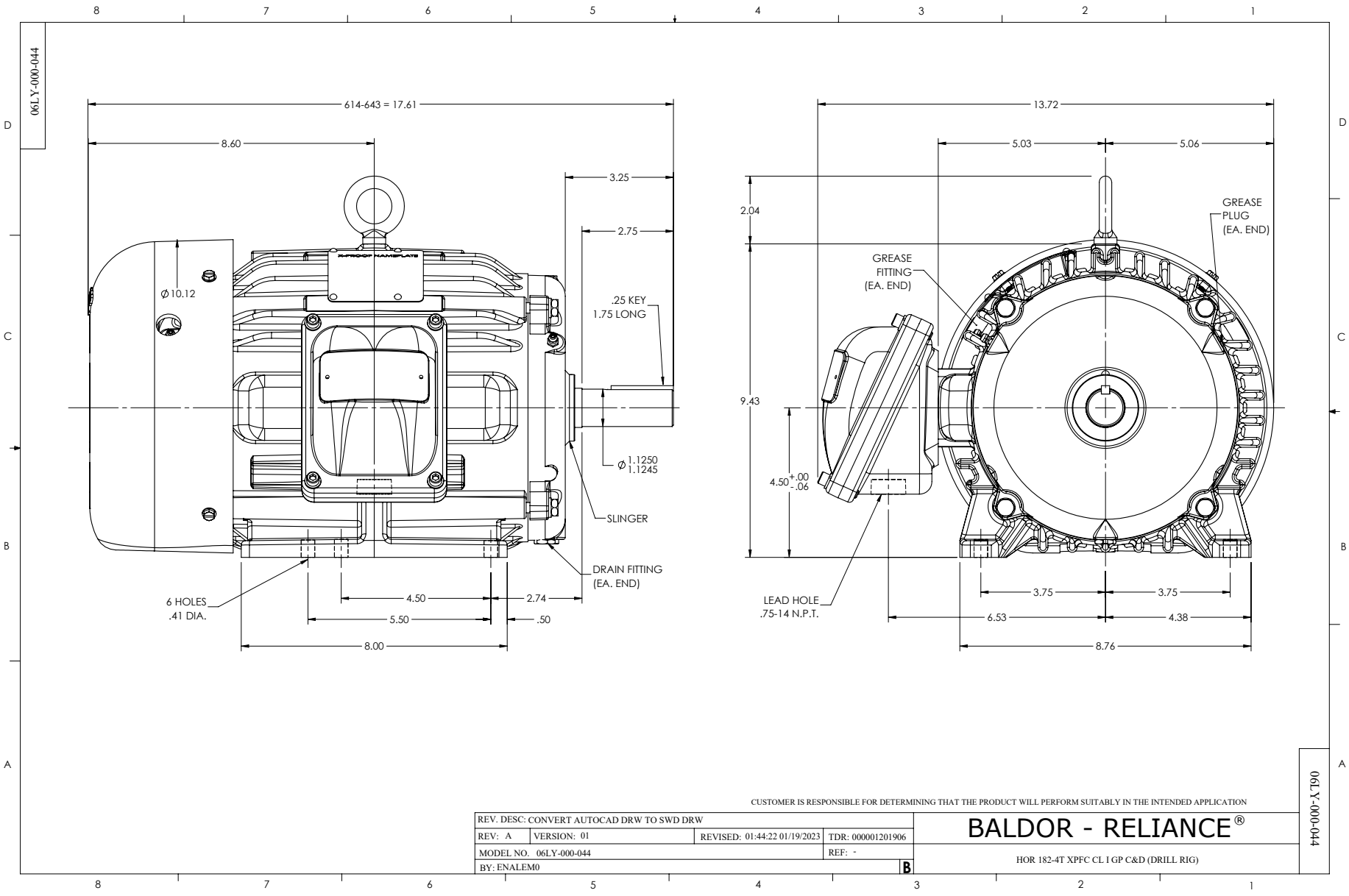
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1 HP 3 PH 50 HZ 1170 RPM 380 V 0630M

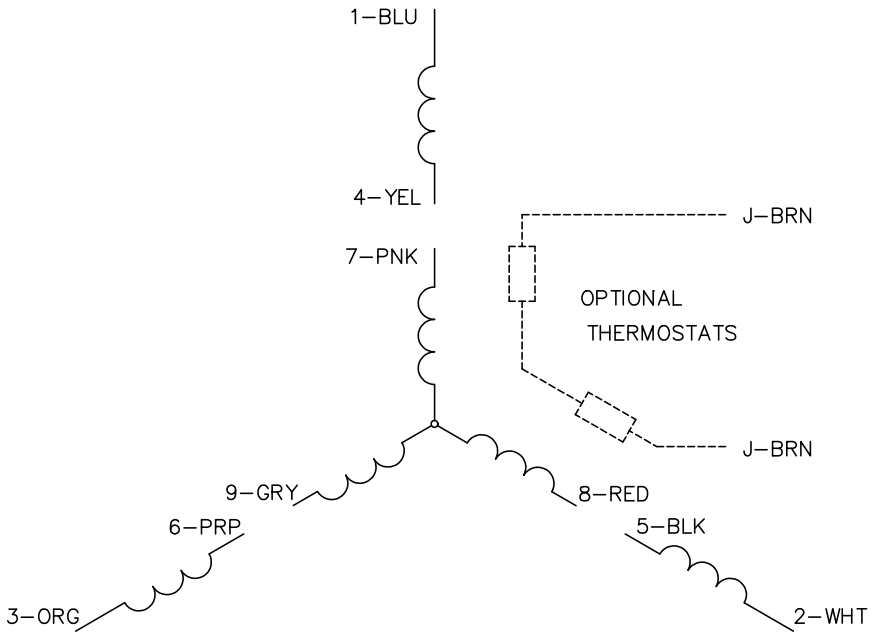
Typical performance - not guaranteed values.

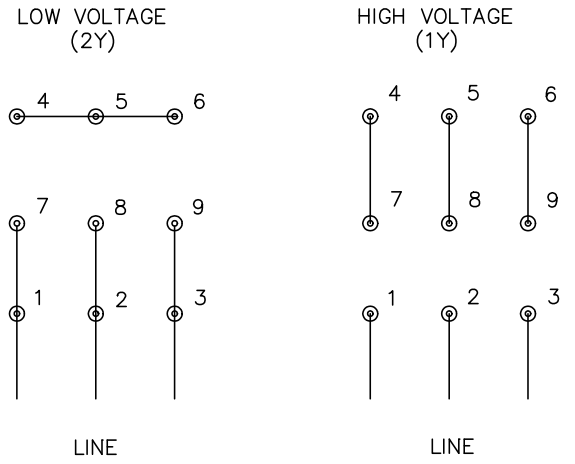
TORQUES(LB-FT): PO=22.86 PU=13.14 LR=16.61 LRA=15.76




06LY-000-044
614-643 = 17.61
8.60
3.25
2.75
Ø10.12
.25 KEY
1.75 LONG
Ø 1.1250
1.1245
SLINGER
DRAIN FITTING
(EA. END)
6 HOLES
.41 DIA.
4.50
2.74
5.50
.50
8.00
13.72
5.03
5.06
2.04
GREASE
PLUG
(EA. END)
GREASE
FITTING
(EA. END)
9.43
4.50 +.00 -.06
LEAD HOLE
.75-14 N.P.T.
3.75
3.75
6.53
4.38
8.76
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: 01:44:22 01/19/2023
TDR: 000001201906
MODEL NO. 06LY-000-044
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 182-4T XPFC CL I GP C&D (DRILL RIG)
06LY-000-044

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