

ABB BALDOR RELIANCE III

Customer information packet

DRX18324T

3HP, 3470//2890RPM, 3PH, 60/50HZ, 182T, XPFC,

Class - CLI GP C,D

Division - Division I

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	3.000 HP @ 60 HZ 2.000 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	3.200 A @ 380.0 V 3.800 A @ 460.0 V 6.400 A @ 190.0 V 7.600 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGY471
Layout	06LY-000-044
Eff. date	02-28-2024
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	08-05-2019

Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.2 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	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0618M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	17.56 IN
Power Factor	89
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	3470 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.	06-0000-0200						INV.TYPE		PWM			
CAT.NO.	DRX18324T						C HP FR	60	C HP TO	90		
HP	3//2						CT HZ FROM		6	CT HZ TO		60
VOLTS	230/460//190/380						VT HZ FROM		6	VT HZ TO		60
AMPS	7.6/3.8//6.4/3.2						MAG CUR		3.2/1.6			
RPM	3470//2890						MX RPM		5400			
HZ	60//50	PH	3	CL	F	NOM.EFF.		86.5				
SER.F.	1.00	DES	B	SL HZ	2.2	WK2		0.079				
FRAME	182T	RATING		40C AMB-CONT								
	55C AMB @1.0SF											
	1.15SF SINEWAVE						NEMA MG-1 PT 5,IP55					

Parts List

Part number	Description	Quantity
SA372720	SA 06-0000-0200	1.000 ea
RA362473	RA 06-0000-0200	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0145B01	CONNECTION LABEL	1.000 ea
NP1401XPSLEV	SS XP INV UL CSA-EEV CC CL-I GP-C&D	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1081F	ALUM XP CAUTION LABEL (FS PLANT ONLY-	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
06FH1003A06	FH, XP W/GRSR	1.000 ea
51XN1032A14	10-32 X 0.875 HX WS SL SR	4.000 ea
34FN3002A02	EXTERNAL FAN, PLASTIC, .905/.907 HUB W/	1.000 ea
51XB0818A12	8-18X3/4 HXWSSLD SERTYB	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
06EP1709A08	FRONT XPFC 205 BRG GRP C W/ DRAIN (HW450	1.000 ea
10XN3118K20	5/16-18 X 1 1/4 GRADE 5 STEEL ZC PLATED	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
HW4506A02	BREATHER/DRAIN-EXP PROOF-.125-27 NPTF AI	1.000 ea
HW3022E05	.125 DIA X .500 ROLLED SPRING PIN	1.000 ea
36EP1718A16	PULLEY 206 BRG GROUP C W/GRSR, DRAIN & S	1.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
10XN3118K20	5/16-18 X 1 1/4 GRADE 5 STEEL ZC PLATED	4.000 ea
HA2065A01	ALUM SLINGER 206 BRGS DRILL RIG MOTOR	1.000 ea
80XN1032J07	10-32 X 7/16 SET SCREW, HEX SOC, CUP PT	2.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
HW4506A02	BREATHER/DRAIN-EXP PROOF-.125-27 NPTF AI	1.000 ea
HW3022E05	.125 DIA X .500 ROLLED SPRING PIN	1.000 ea

07CB1000A02	CONDUIT BOX, MODEL 306,EXP. PROOF	1.000 ea
10XN2520A14	1/4 20X7/8 HX HD CAP	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
WD1000B17	T&B CX35TN OR L35P TERMINAL LUG	1.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
07CB1502A01	CONDUIT BOX LID MACH (DUCTILE IRON)	1.000 ea
10XN2520K16	1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
MG1500Y02	WILKOPON PRIMER YELLOW	0.022 ga
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.022 ga
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea

AC Induction Motor Performance Data

Record # 77882

Typical performance - not guaranteed values

Winding: 06WGY471-R020		Type: 0618M	Enclosure: XPFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	3	Full Load Torque	4.51 LB-FT
Volts	230/460//190/380	Start Configuration	direct on line
Full Load Amps	7.6/3.8//6.4/3.2	Breakdown Torque	25.5 LB-FT
R.P.M.	3470//2890	Pull-up Torque	9.08 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	11.9 LB-FT
NEMA Design Code	B KVA Code	Starting Current	29.3 A
Service Factor (S.F.)	1	No-load Current	1.64 A
NEMA Nom. Eff.	86.5 Power Factor	Line-line Res. @ 25°C	6.24 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	45°C
		Locked-rotor Power Factor	59.2
		Rotor inertia	0.0795 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	47	70	81	87	90	91
Efficiency	81.1	86.6	87.4	86.6	85.2	83.1
Speed	3568	3538	3505	3468	3430	3382
Line amperes	1.82	2.29	2.94	3.71	4.53	5.5

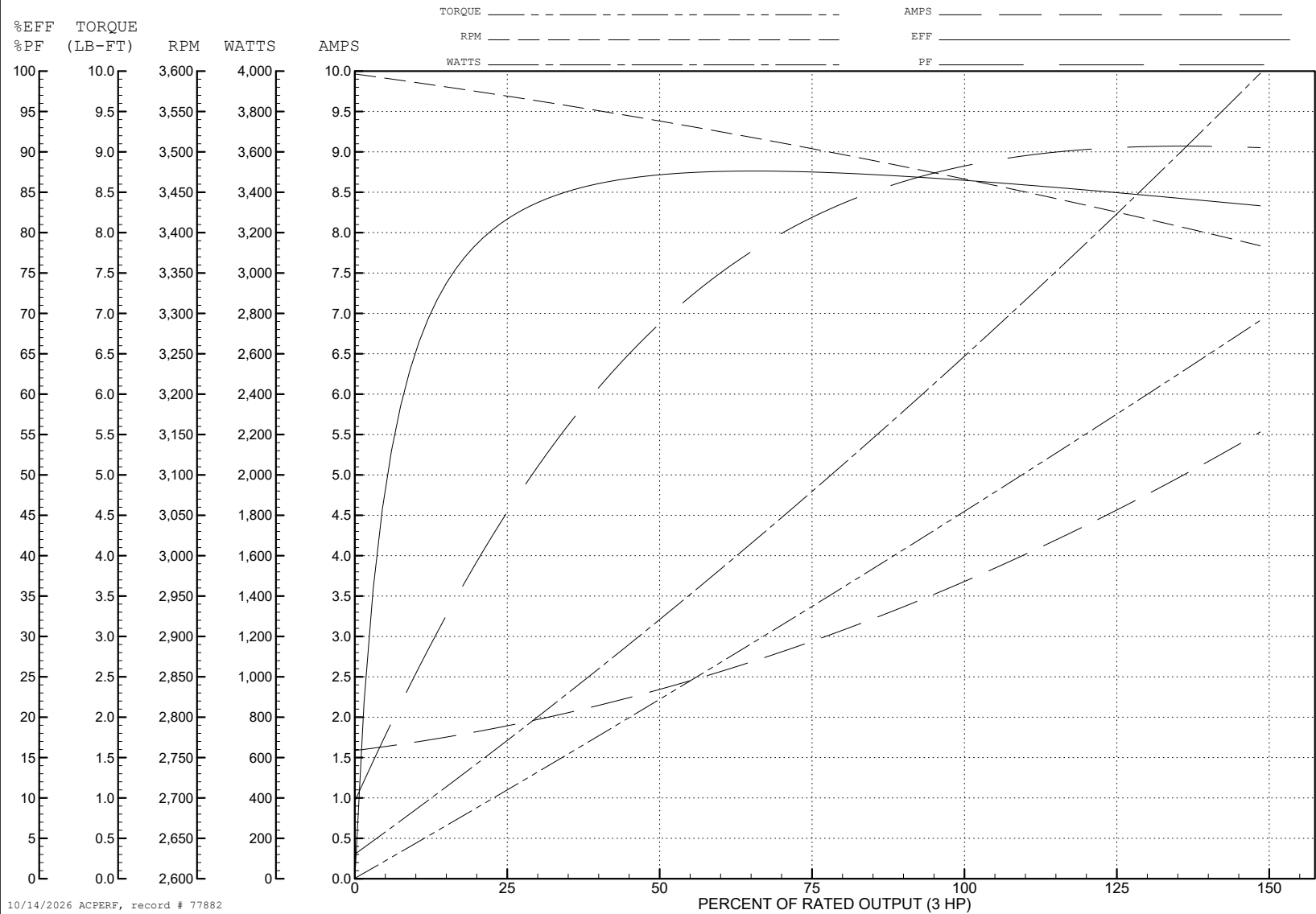
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WINDING # 06WGY471

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3468 RPM 460 V 0618M

TORQUES (LB-FT): PO=25.5 PU=9.08 LR=11.9 LRA=29.3



AC Induction Motor Performance Data

Record # 77883

Typical performance - not guaranteed values

Winding: 06WGY471-R020		Type: 0618M	Enclosure: XPFC
Nameplate Data		380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	3	Full Load Torque	3.61 LB-FT
Volts	230/460//190/380	Start Configuration	direct on line
Full Load Amps	7.6/3.8//6.4/3.2	Breakdown Torque	23.13 LB-FT
R.P.M.	3470//2890	Pull-up Torque	9.15 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	11.99 LB-FT
NEMA Design Code	B KVA Code	Starting Current	27.03 A
Service Factor (S.F.)	1	No-load Current	1.6 A
NEMA Nom. Eff.	86.5 Power Factor	Line-line Res. @ 25°C	6.24 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	36°C
		Locked-rotor Power Factor	65.7
		Rotor inertia	0.0795 LB-FT ²

Load Characteristics 380 V, 50 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	44	65	78	84	88	90
Efficiency	73.4	81.5	84.1	84.1	83.2	81.7
Speed	2972	2947	2921	2890	2860	2821
Line amperes	1.73	2.09	2.58	3.18	3.82	4.57

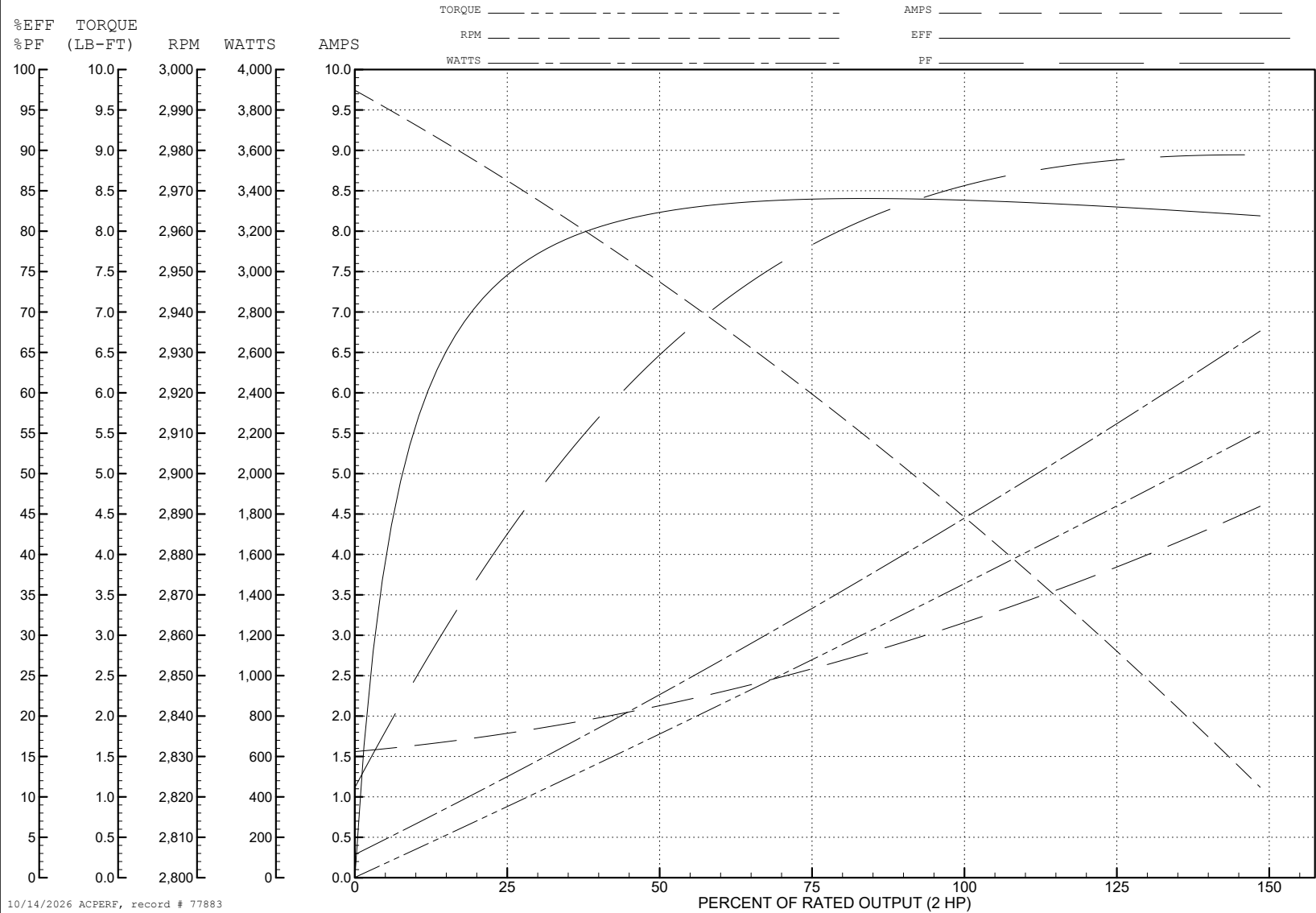
ABB Motors and Mechanical Inc.

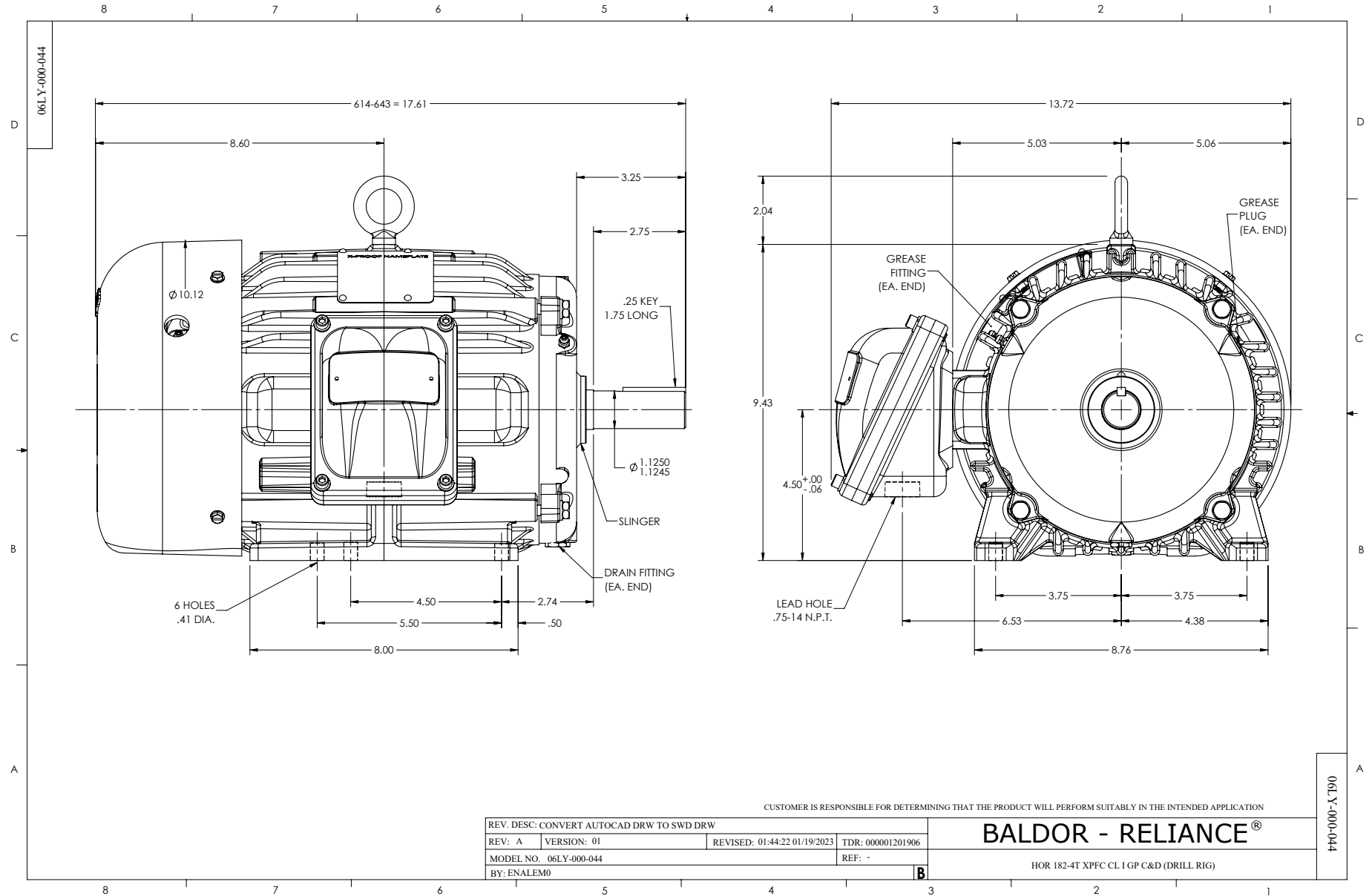
WINDING # 06WGY471

Typical performance - not guaranteed values.

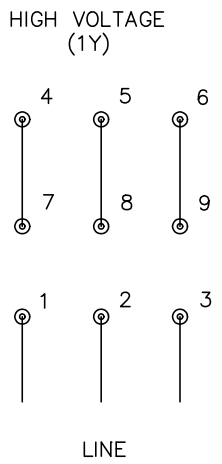
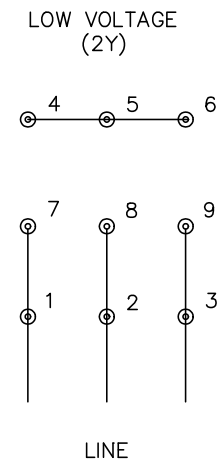
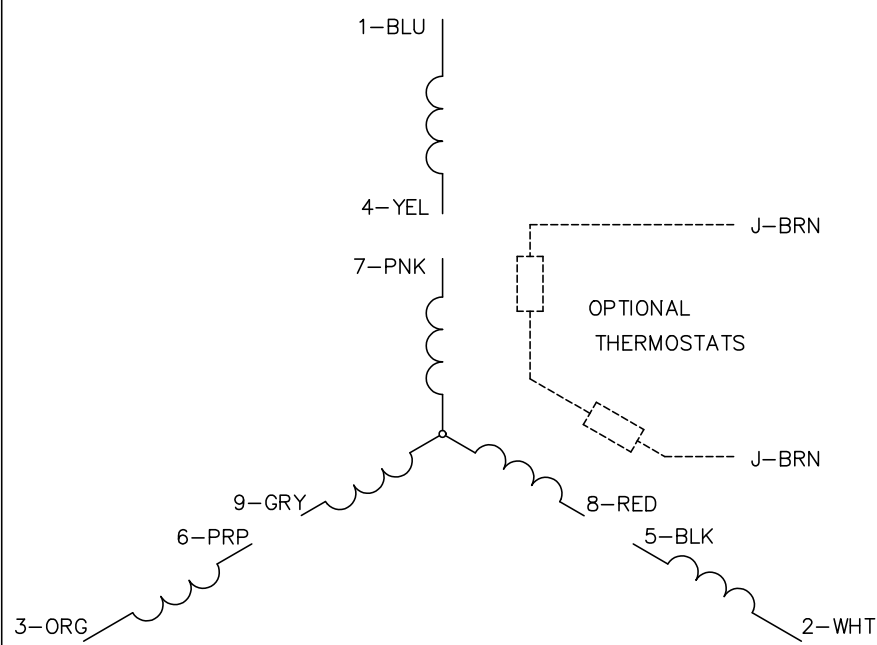
2 HP 3 PH 50 HZ 2890 RPM 380 V 0618M

TORQUES (LB-FT) : PO=23.13 PU=9.15 LR=11.99 LRA=27.03





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
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		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

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