ABB BALDOR RELIANCE

Customer information packet

CEM7044T-I

5//3HP, 1750//1450RPM, 3PH, 60//50HZ, 182TC
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	184TC
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	3.000 HP @ 50 HZ
	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
Agency Approvals	CSA
	UL
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
Current @ Voltage	6.500 A @ 460.0 V
	5.200 A @ 380.0 V
	13.600 A @ 208.0 V
	13.000 A @ 230.0 V
	10.400 A @ 190.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	Q
Type	AC
Mech. spec.	36N864
Base	
Status	PRD/A
Elec. spec.	36WGT031
Layout	36LYN864
Eff. date	10-07-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	01-15-2013

Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	5.2 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3644M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.84 IN
Power Factor	80
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger

Speed	1450 rpm
	1750 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

NP0977XPSL									
NO.					**CC**	010A			
SER.					**TEMP CODE**	T3C			
SPEC.	36N864T031G1								
CAT.NO.	CEM7044T-I								
HP	5//3								
VOLTS	230/460//190/380								
AMPS	13/6.5//10.4/5.2								
RPM	1750//1450			**MOTOR WEIGHT**		136			
HERTZ	60//50	**PH**	3	**CL**	F	**DE BRG**	6206		
SER.F.	1.15	**DES**	B	**CODE**	K	**ODE BRG**	6205		
FRAME	184TC	**GREASE**	POLYREX EM						
RATING	40C AMB-CONT 55C AMB @ 1.0 SF								
				NEMA-NOM-EFF		89.5	**PF**	80	
	NEMA MG-1 PT 5,IP55								

AC Induction Motor Performance Data
Record # 32376
Typical performance - not guaranteed values

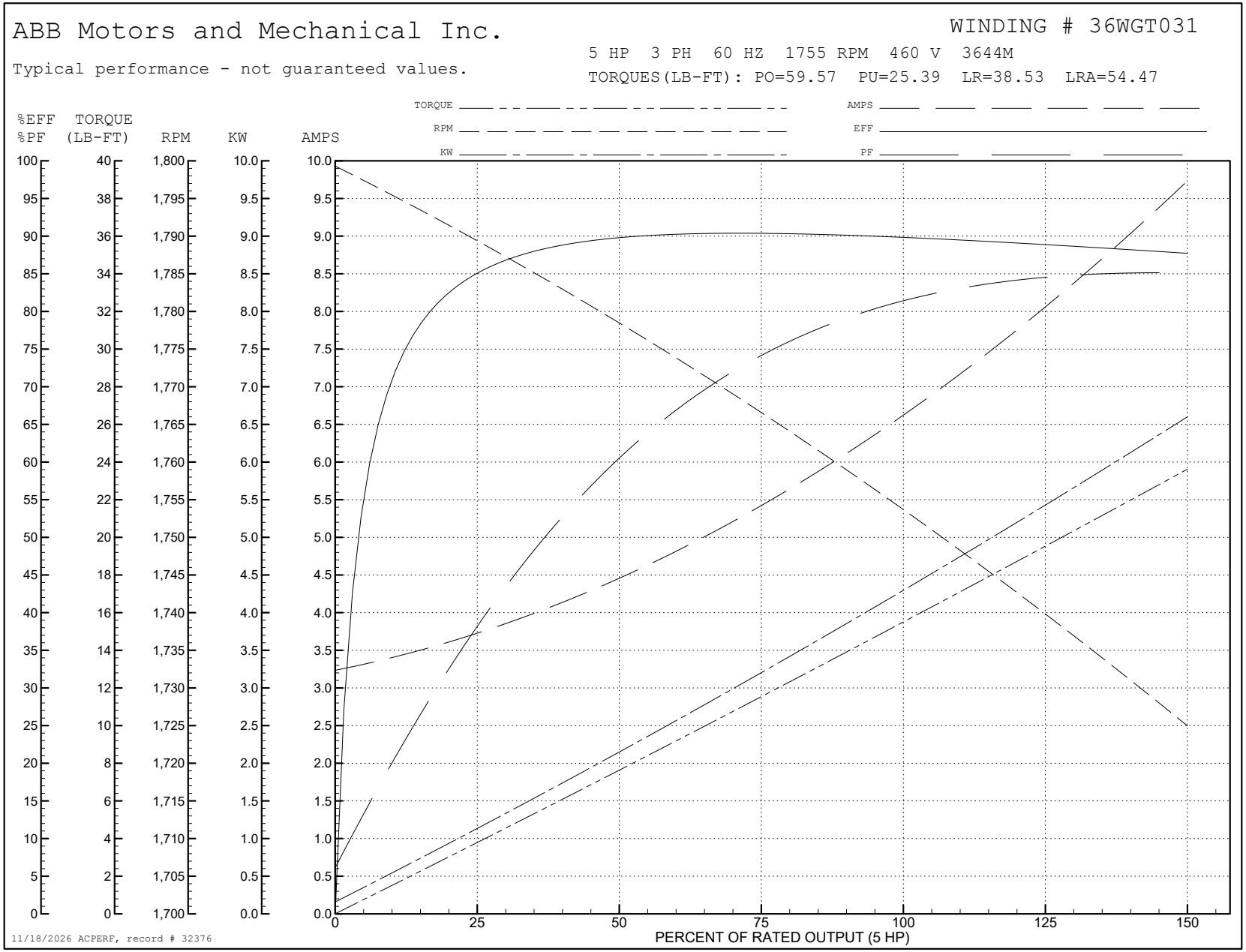
Winding: 36WGT031-R071	**Type:** 3644M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			5//3
Volts			230/460//190/380
Full Load Amps			13/6.5//10.4/5.2
R.P.M.			1750//1450
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	89.5	**Power Factor**	80
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	15.1 LB-FT
Start Configuration	direct on line
Breakdown Torque	59.57 LB-FT
Pull-up Torque	25.39 LB-FT
Locked-rotor Torque	38.53 LB-FT
Starting Current	54.47 A
No-load Current	3.32 A
Line-line Res. @ 25ºC	2.26 Ω
Temp. Rise @ Rated Load	54°C
Temp. Rise @ S.F. Load	65°C
Locked-rotor Power Factor	51.7
Rotor inertia	0.409 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	39	61	73	80	84	86	82
Efficiency	84.8	89.6	90.3	90.2	88.9	87.7	90
Speed	1790	1779	1767	1755	1742	1725	1746
Line amperes	3.62	4.36	5.37	6.55	7.9	9.67	7.3


ABB Motors and Mechanical Inc.
WINDING # 36WGT031
Typical performance - not guaranteed values.
5 HP 3 PH 60 HZ 1755 RPM 460 V 3644M
TORQUES(LB-FT): PO=59.57 PU=25.39 LR=38.53 LRA=54.47
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/18/2026 ACPERF, record # 32376

AC Induction Motor Performance Data
Record # 38923
Typical performance - not guaranteed values

Winding: 36WGT031-R071	**Type:** 3644M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			5//3
Volts			230/460//190/380
Full Load Amps			13/6.5//10.4/5.2
R.P.M.			1750//1450
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	89.5	**Power Factor**	80
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	10.84 LB-FT
Start Configuration	direct on line
Breakdown Torque	55.83 LB-FT
Pull-up Torque	25.63 LB-FT
Locked-rotor Torque	38.89 LB-FT
Starting Current	51.63 A
No-load Current	3.28 A
Line-line Res. @ 25ºC	2.26 Ω
Temp. Rise @ Rated Load	38°C
Temp. Rise @ S.F. Load	44°C
Locked-rotor Power Factor	57.1
Rotor inertia	0.409 LB-FT2

Load Characteristics 380 V, 50 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	51	64	73	78	82	76
Efficiency	81	87.8	89.3	89.7	88.7	87.9	89.2
Speed	1492	1484	1475	1467	1457	1444	1467
Line amperes	3.46	3.9	4.52	5.26	6.15	7.34	5.8

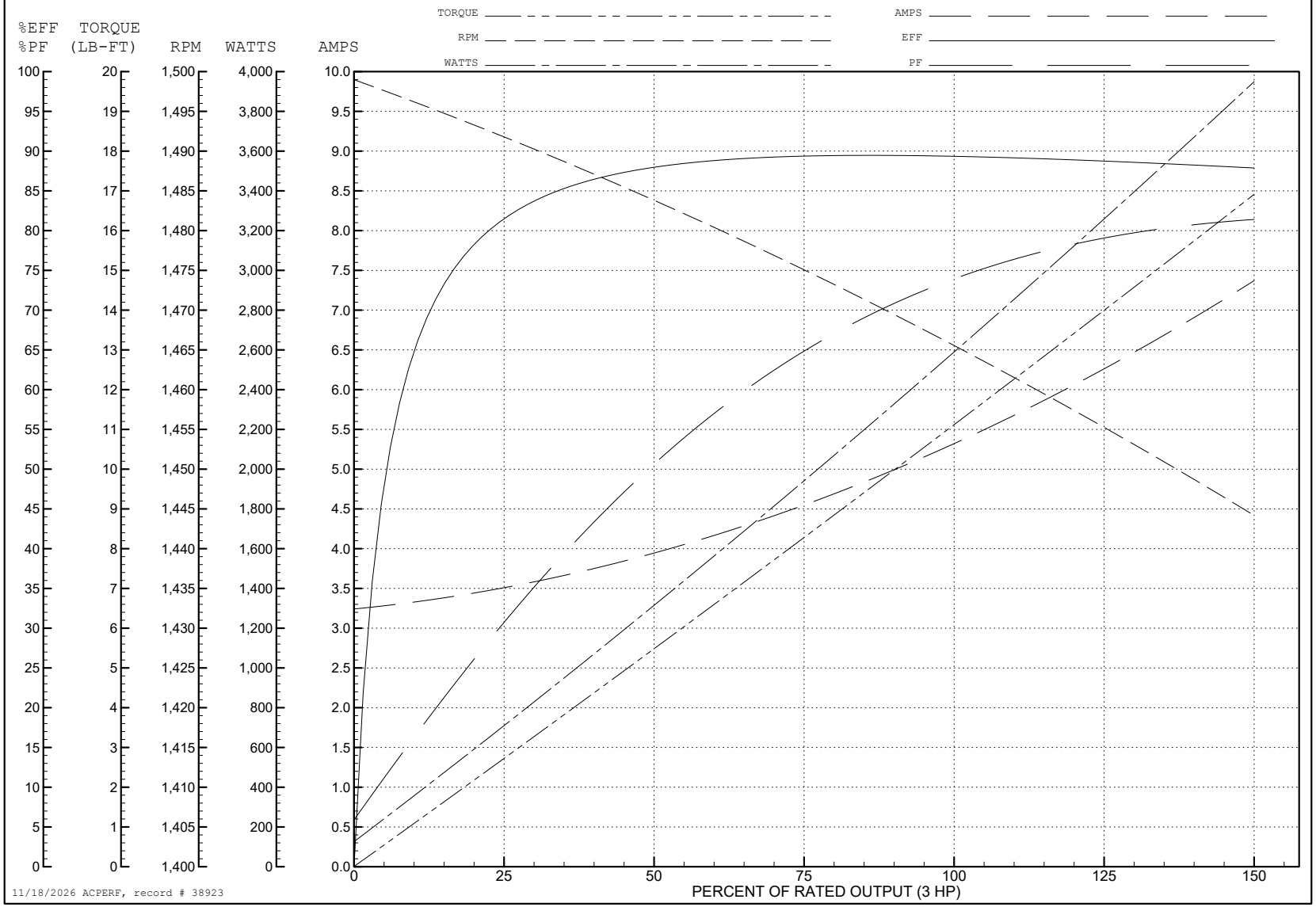
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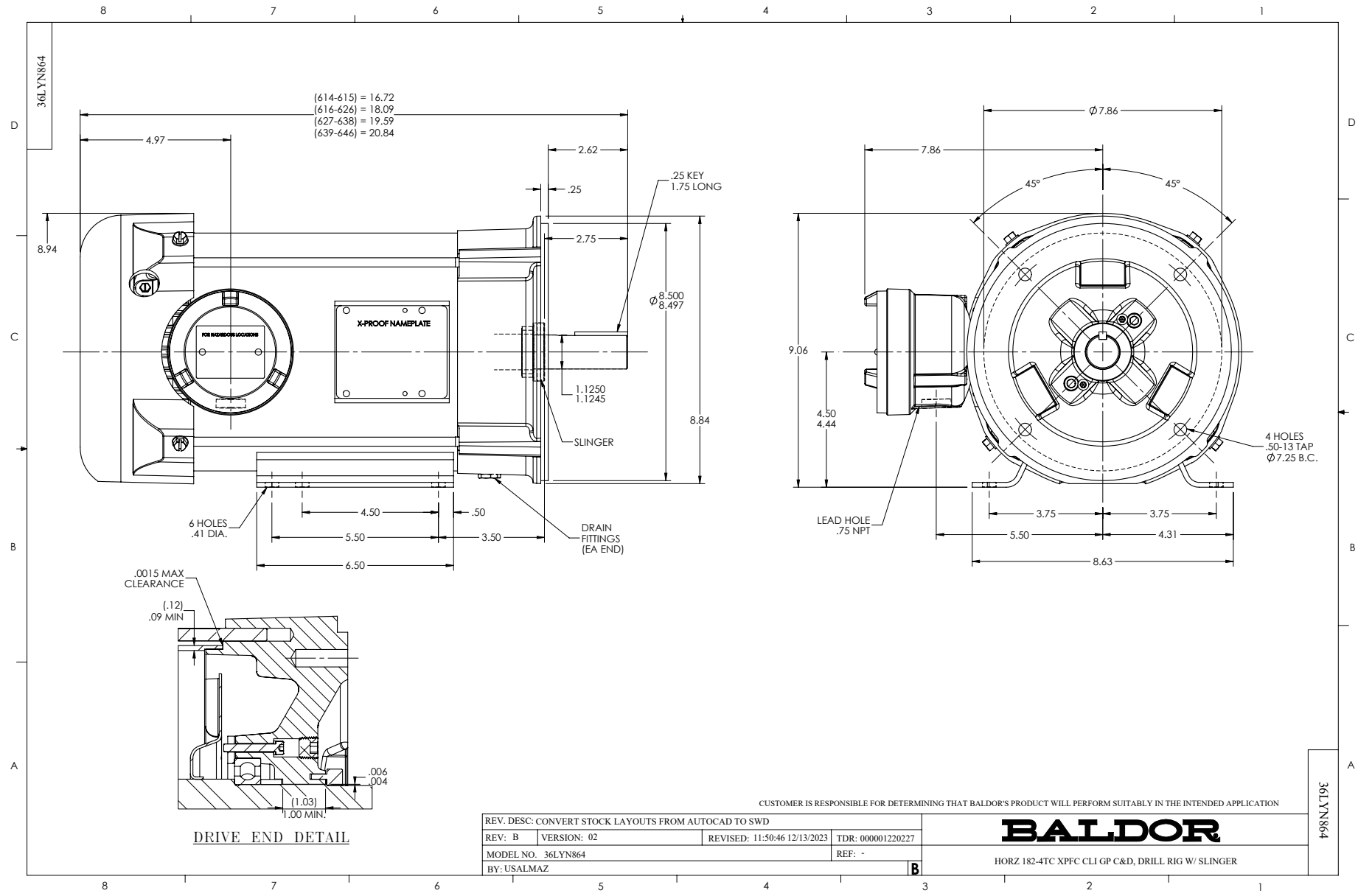
WINDING # 36WGT031

3 HP 3 PH 50 HZ 1467 RPM 380 V 3644M

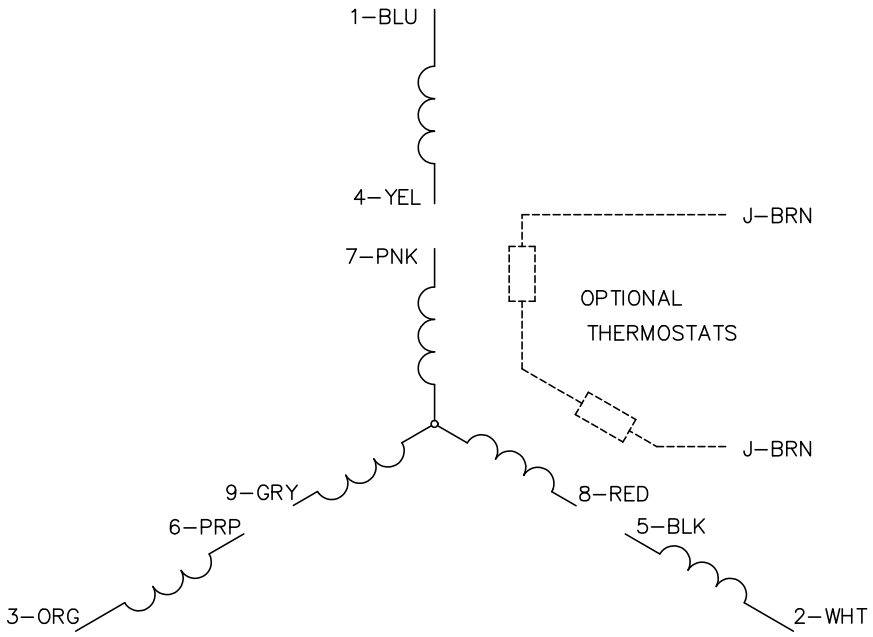
Typical performance - not guaranteed values.

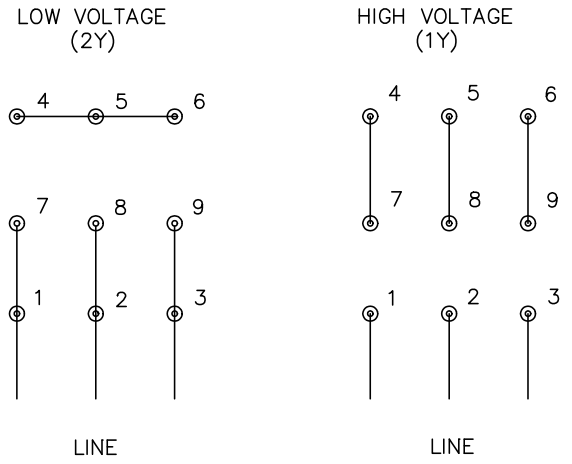
TORQUES(LB-FT): PO=55.83 PU=25.63 LR=38.89 LRA=51.63




36LYN864
(614-615) = 16.72
(616-626) = 18.09
(627-638) = 19.59
(639-646) = 20.84
4.97
2.62
.25
.25 KEY
1.75 LONG
2.75
8.94
Ø8.500
8.497
8.84
1.1250
1.1245
SLINGER
X-PROOF NAMEPLATE
FOR HAZARDOUS LOCATIONS
6 HOLES
.41 DIA.
4.50
.50
5.50
3.50
6.50
DRAIN
FITTINGS
(EA END)
Ø7.86
7.86
45°
45°
9.06
4.50
4.44
4 HOLES
.50-13 TAP
Ø7.25 B.C.
LEAD HOLE
.75 NPT
3.75
3.75
5.50
4.31
8.63
.0015 MAX
CLEARANCE
(.12)
.09 MIN
.006
.004
(1.03)
1.00 MIN.
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: B
VERSION: 02
REVISED: 11:50:46 12/13/2023
TDR: 000001220227
MODEL NO. 36LYN864
REF: -
BY: USALMAZ
B
BALDOR
HORZ 182-4TC XPFC CLI GP C&D, DRILL RIG W/ SLINGER
36LYN864

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