ABB BALDOR RELIANCE

Customer information packet

CEM7042T-I

3//2HP, 1760//1460RPM, 3PH, 60//50HZ, 182TC
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	182TC
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 @ 50 HZ
	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 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	9.000 A @ 208.0 V
	8.400 A @ 230.0 V
	7.200 A @ 190.0 V
	4.200 A @ 460.0 V
	3.600 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	V
Type	AC
Mech. spec.	36N864
Base	
Status	PRD/A
Elec. spec.	36WGS266
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	3.6 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	3632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.59 IN
Power Factor	75
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	1460 rpm
	1760 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.	36N864S266G1										
CAT.NO.											
HP	3//2 55C @ 1.0 SF / 75C RISE										
VOLTS	230/460//190/380										
AMPS	8.4/4.2//7.2/3.6										
RPM	1760//1460				**MOTOR WEIGHT**		117				
HERTZ	60//50	**PH**	3	**CL**	F	**DE BRG**	6206				
SER.F.	1.15	**DES**	B	**CODE**	K	**ODE BRG**	6205				
FRAME	182TC	**GREASE**	POLYREX EM								
RATING	40C AMB-CONT										
				NEMA-NOM-EFF			89.5	**PF**	75		
	NEMA MG-1 PT 5,IP55										

AC Induction Motor Performance Data
Record # 32662
Typical performance - not guaranteed values

Winding: 36WGS266-R004	**Type:** 3632M	**Enclosure:** XPFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			3//2	**Full Load Torque**	7.04 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			8.4/4.2//7.2/3.6	**Breakdown Torque**	35.4 LB-FT
R.P.M.			1760//1460	**Pull-up Torque**	15.4 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	22 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	31.5 A
Service Factor (S.F.)			1.15	**No-load Current**	2.26 A
NEMA Nom. Eff.	89.5	**Power Factor**	75	**Line-line Res. @ 25ºC**	3.81 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	35°C
S.F. Amps				**Temp. Rise @ S.F. Load**	41°C
				Locked-rotor Power Factor	46.9
				Rotor inertia	0.298 LB-FT2

Load Characteristics 380 V, 50 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	49	63	71	77	80	74
Efficiency	76.9	85.4	88.1	88.7	88.9	87.7	88.6
Speed	1493	1486	1478	1471	1462	1452	1463
Line amperes	2.38	2.65	3.07	3.55	4.16	4.83	3.96

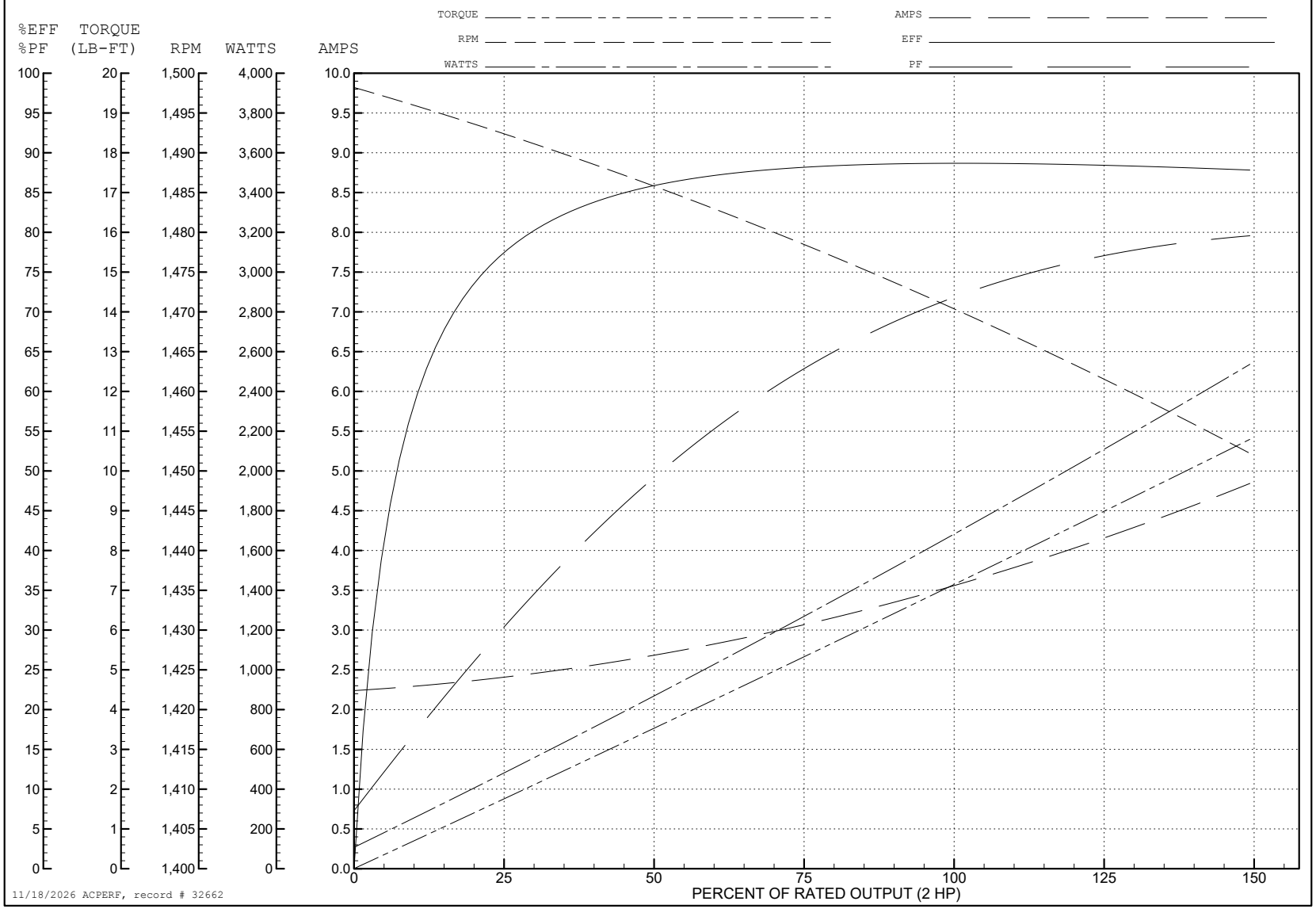
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WINDING # 36WGS266

2 HP 3 PH 50 HZ 1471 RPM 380 V 3632M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=35.4 PU=15.4 LR=22 LRA=31.5



AC Induction Motor Performance Data
Record # 33191
Typical performance - not guaranteed values

Winding: 36WGS266-R004	**Type:** 3632M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3//2	**Full Load Torque**	8.8 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			8.4/4.2//7.2/3.6	**Breakdown Torque**	37.6 LB-FT
R.P.M.			1760//1460	**Pull-up Torque**	15.2 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	21.7 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	32.7 A
Service Factor (S.F.)			1.15	**No-load Current**	2.3 A
NEMA Nom. Eff.	89.5	**Power Factor**	75	**Line-line Res. @ 25ºC**	3.81 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
S.F. Amps				**Temp. Rise @ S.F. Load**	52°C
				Locked-rotor Power Factor	42.2
				Rotor inertia	0.298 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	35	55	68	75	80	82	77
Efficiency	81.1	87.8	89.6	89.8	89.7	88.2	89.2
Speed	1791	1783	1773	1764	1753	1741	1754
Line amperes	2.47	2.85	3.43	4.09	4.89	5.78	4.63

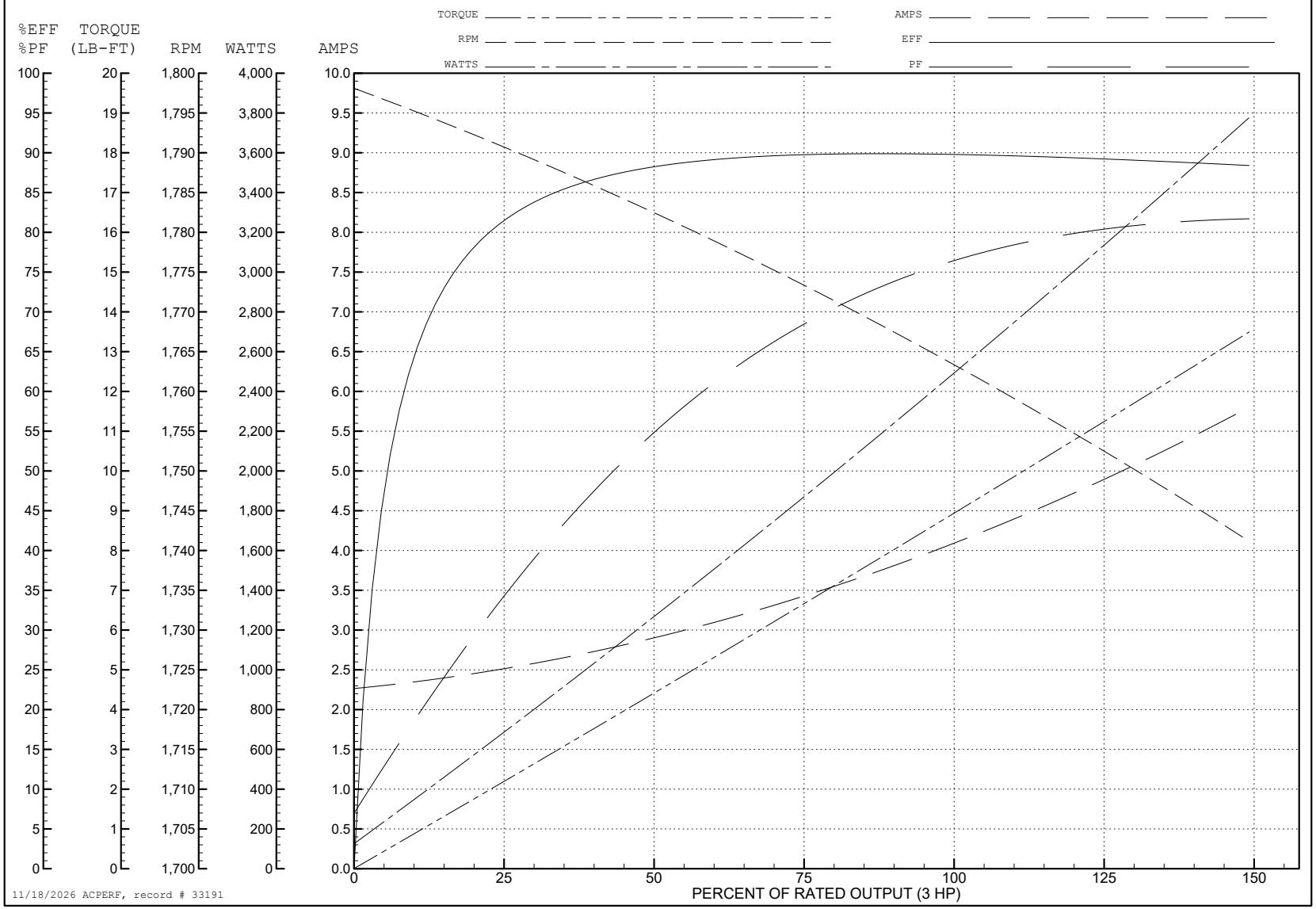
ABB Motors and Mechanical Inc.

WINDING # 36WGS266

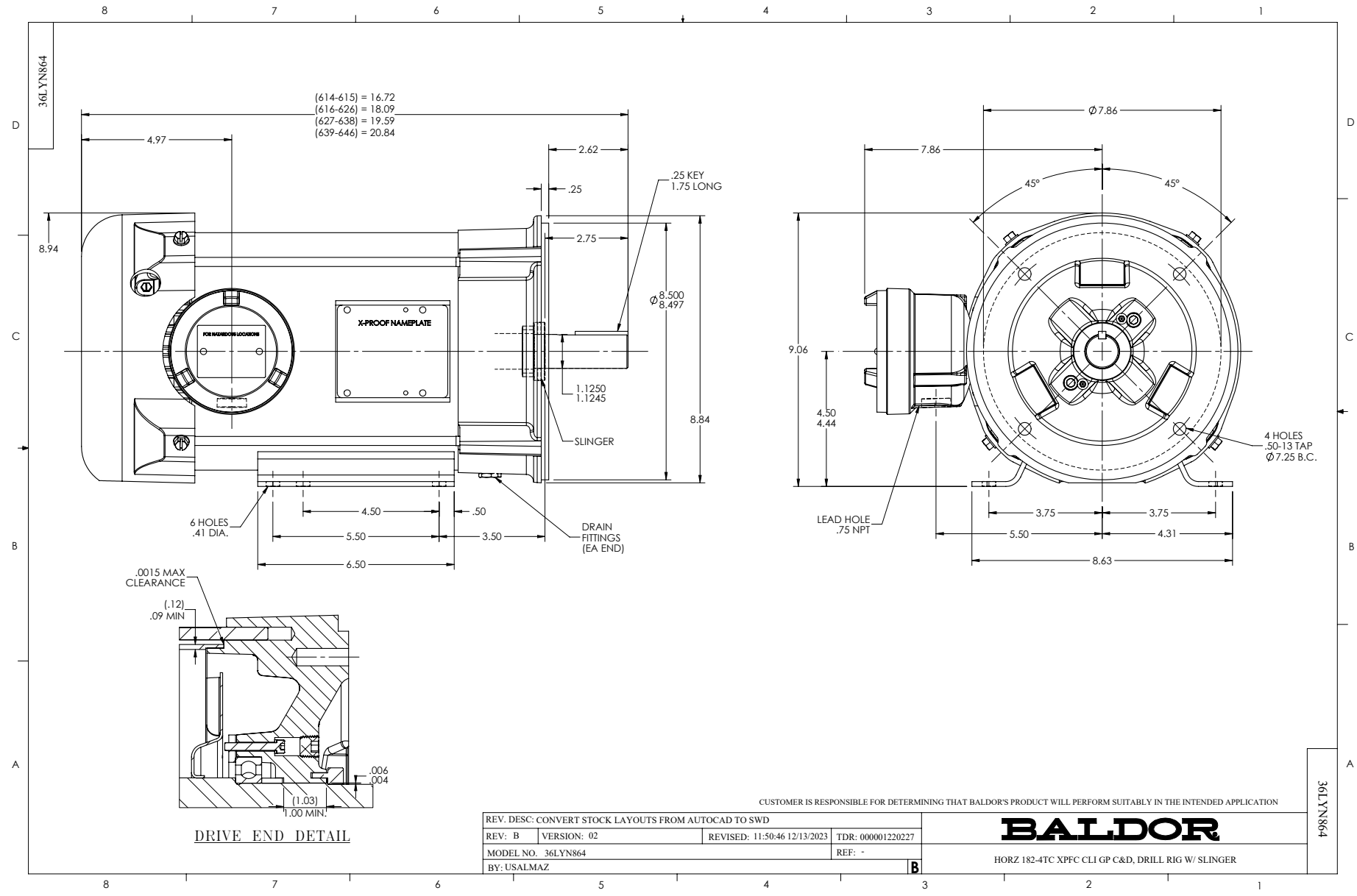
3 HP 3 PH 60 HZ 1764 RPM 460 V 3632M

Typical performance - not guaranteed values.

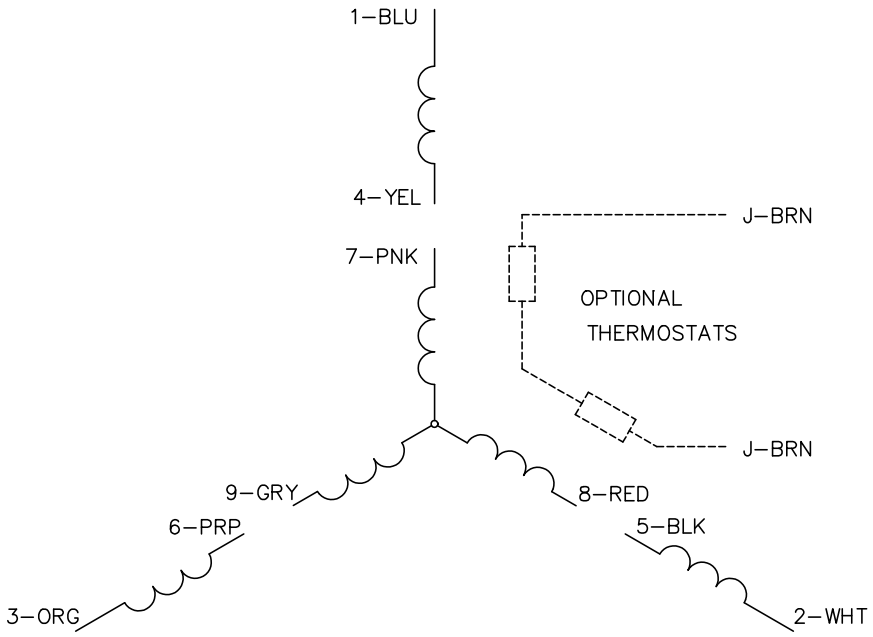
TORQUES(LB-FT): PO=37.6 PU=15.2 LR=21.7 LRA=32.7

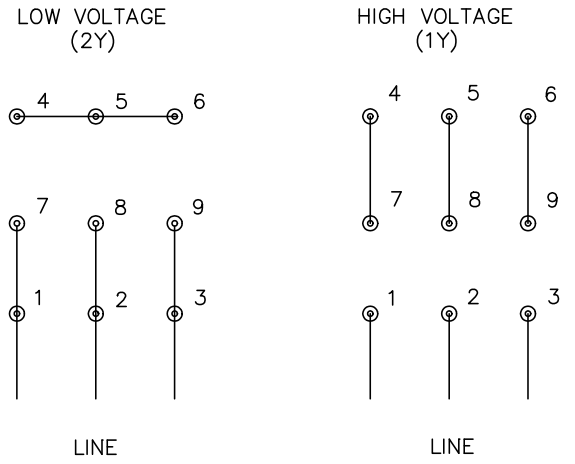


11/18/2026 ACPERF, record # 33191


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
8.94
2.75
Ø8.500
8.497
X-PROOF NAMEPLATE
FOR HAZARDOUS LOCATIONS
1.1250
1.1245
SLINGER
8.84
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