ABB BALDOR RELIANCE

Customer information packet

EM7042T-I-5

3HP, 1760 75C RISERPM, 3PH, 60HZ, 182T, 3632M
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	182T
Frame Material	Steel
Frequency	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
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UL
	CSA
	CSA EEV
	UR
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	3.300 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
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

Part Detail

Revision	V
Type	AC
Mech. spec.	36J694
Base	
Status	PRD/A
Elec. spec.	36WGS582
Layout	36LYJ694
Eff. date	02-21-2024
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	09-30-2010

High Voltage Full Load Amps	3.3 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.27 IN
Power Factor	75
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
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	No Slinger
Speed	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

NP0977XPSLEV											
NO.						**CC**	010A				
SER.						**TEMP CODE**	T3C				
SPEC.	36J694S582G1										
CAT.NO.	EM7042T-I-5										
HP	3										
VOLTS	575										
AMPS	3.3										
RPM	1760 75C RISE				**MOTOR WEIGHT**	106					
HERTZ	60	**PH**	3	**CL**	F	**DE BRG**	6206				
SER.F.	1.15	**DES**	B	**CODE**	K	**ODE BRG**	6205				
FRAME	182T	**GREASE**	POLYREX EM								
RATING	40C AMB-CONT 55C AMB AT 1.0 SF										
				NEMA-NOM-EFF	89.5	**PF**	75				
	NEMA MG-1 PT 5,IP55										

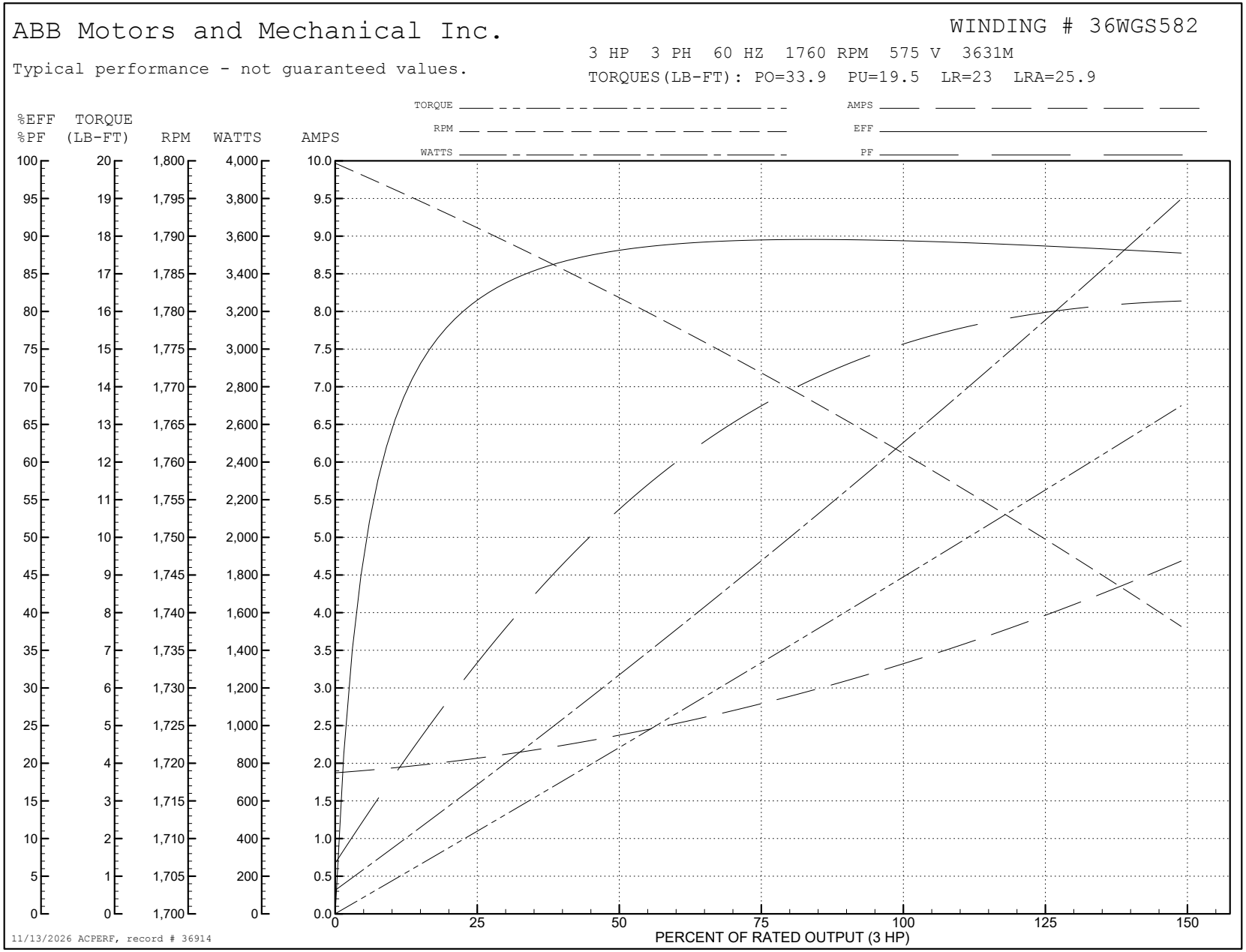
AC Induction Motor Performance Data
Record # 36914
Typical performance - not guaranteed values

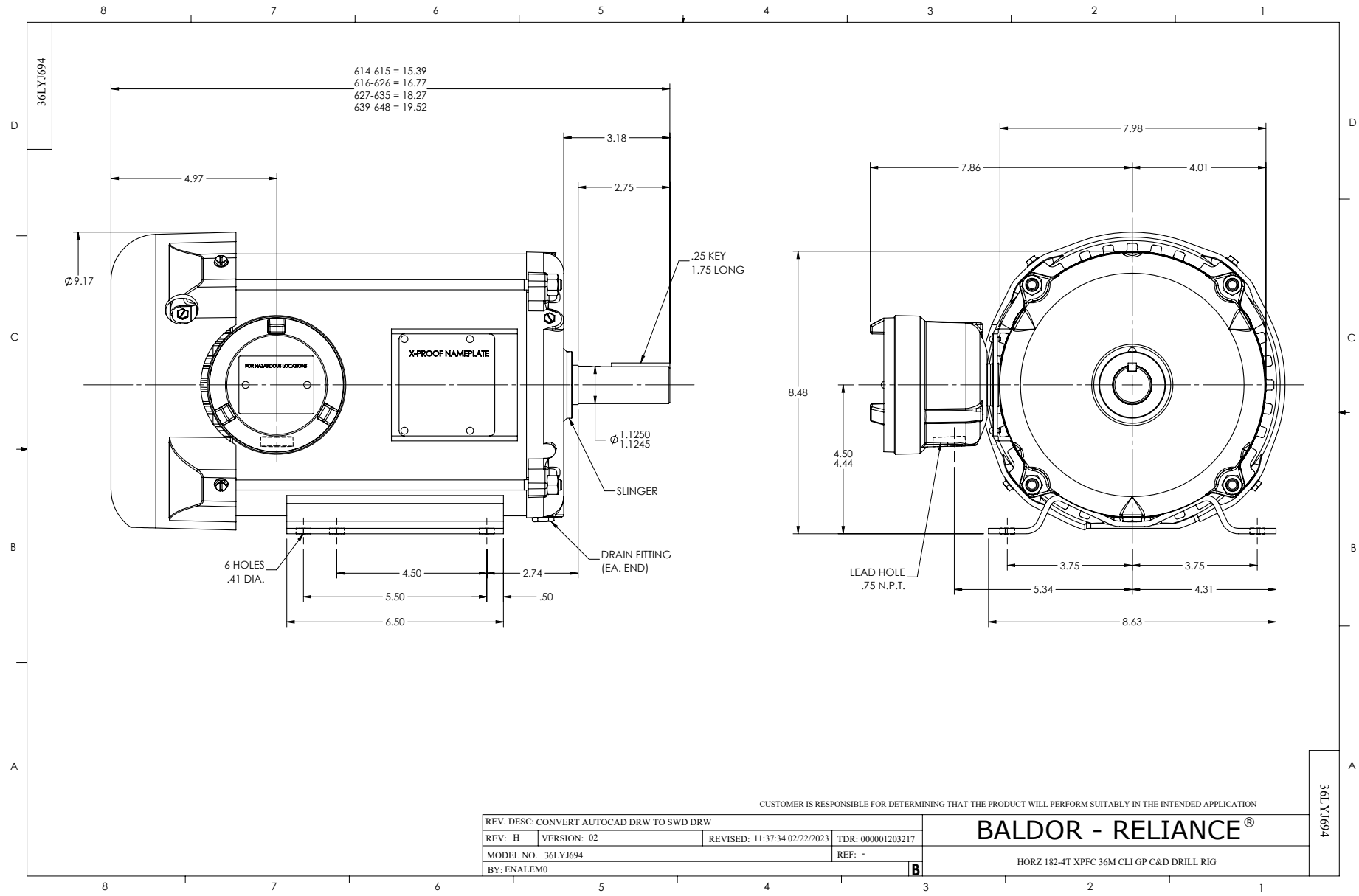
Winding: 36WGS582-R003	**Type:** 3631M	**Enclosure:** XPFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			3	**Full Load Torque**	8.88 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			3.3	**Breakdown Torque**	33.9 LB-FT
R.P.M.			1760	**Pull-up Torque**	19.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	23 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	25.9 A
Service Factor (S.F.)			1.15	**No-load Current**	1.9 A
NEMA Nom. Eff.	89.5	**Power Factor**	75	**Line-line Res. @ 25ºC**	6 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	40°C
S.F. Amps				**Temp. Rise @ S.F. Load**	47°C
				Locked-rotor Power Factor	43
				Rotor inertia	0.289 LB-FT2

Load Characteristics 575 V, 60 Hz, 3 HP

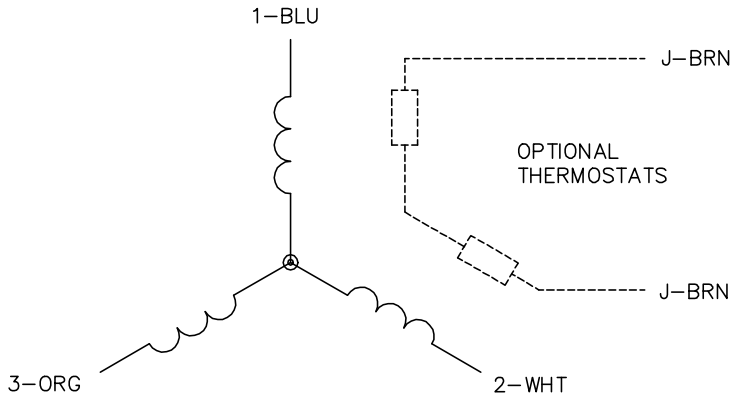
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	33	54	67	75	79	82	77
Efficiency	80.5	87.7	89.5	89.6	89	87.6	89.2
Speed	1791	1782	1772	1762	1750	1738	1755
Line amperes	2.03	2.34	2.77	3.34	3.97	4.66	3.72

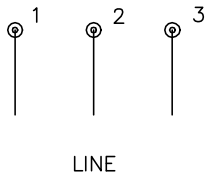

ABB Motors and Mechanical Inc.
WINDING # 36WGS582
Typical performance - not guaranteed values.
3 HP 3 PH 60 HZ 1760 RPM 575 V 3631M
TORQUES(LB-FT): PO=33.9 PU=19.5 LR=23 LRA=25.9
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/13/2026 ACPERF, record # 36914


36LYJ694
614-615 = 15.39
616-626 = 16.77
627-635 = 18.27
639-648 = 19.52
3.18
4.97
2.75
.25 KEY
1.75 LONG
Ø9.17
X-PROOF NAMEPLATE
FOR HAZARDOUS LOCATIONS
Ø 1.1250
1.1245
SLINGER
6 HOLES
.41 DIA.
4.50
2.74
5.50
.50
6.50
DRAIN FITTING
(EA. END)
7.98
7.86
4.01
8.48
4.50
4.44
LEAD HOLE
.75 N.P.T.
3.75
3.75
5.34
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: H
VERSION: 02
REVISED: 11:37:34 02/22/2023
TDR: 000001203217
MODEL NO. 36LYJ694
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 182-4T XPFC 36M CLI GP C&D DRILL RIG
36LYJ694

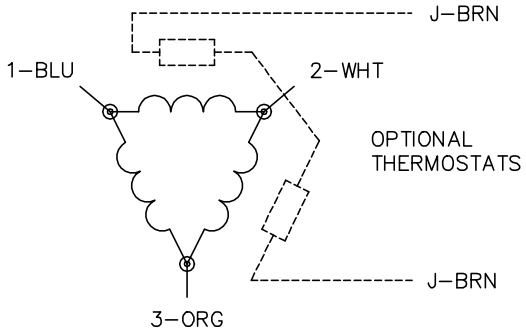
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1