ABB BALDOR RELIANCE

Customer information packet

EM7041T-I

2//1.5HP, 1175//975 75C RISERPM, 3PH, 60//5
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	184T
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 @ 60 HZ
	1.500 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1000 RPM @ 50 HZ
Voltage @ Frequency	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
	460.0 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 @ 380.0 V
	3.500 A @ 460.0 V
	6.600 A @ 190.0 V
	7.000 A @ 208.0 V
	7.000 A @ 230.0 V
Design Code	A

Part Detail

Revision	P
Type	AC
Mech. spec.	36J694
Base	
Status	PRD/A
Elec. spec.	36WGS917
Layout	36LYJ694
Eff. date	02-21-2024
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	06-04-2012

Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
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	3.3 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	6
Overall Length	19.52 IN
Power Factor	60
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	1175 rpm
	975 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.	36J694S917G1										
CAT.NO.	EM7041T-I										
HP	2//1.5										
VOLTS	230/460//190/380										
AMPS	7/3.5//6.6/3.3										
RPM	1175//975 75C RISE				**MOTOR WEIGHT**		119				
HERTZ	60//50	**PH**	3	**CL**	F	**DE BRG**	6206				
SER.F.	1.15	**DES**	A	**CODE**	M	**ODE BRG**	6205				
FRAME	184T	**GREASE**	POLYREX EM								
RATING	40C AMB-CONT										
				NEMA-NOM-EFF		88.5	**PF**	60			
	55C AMB AT 1.0 SF										

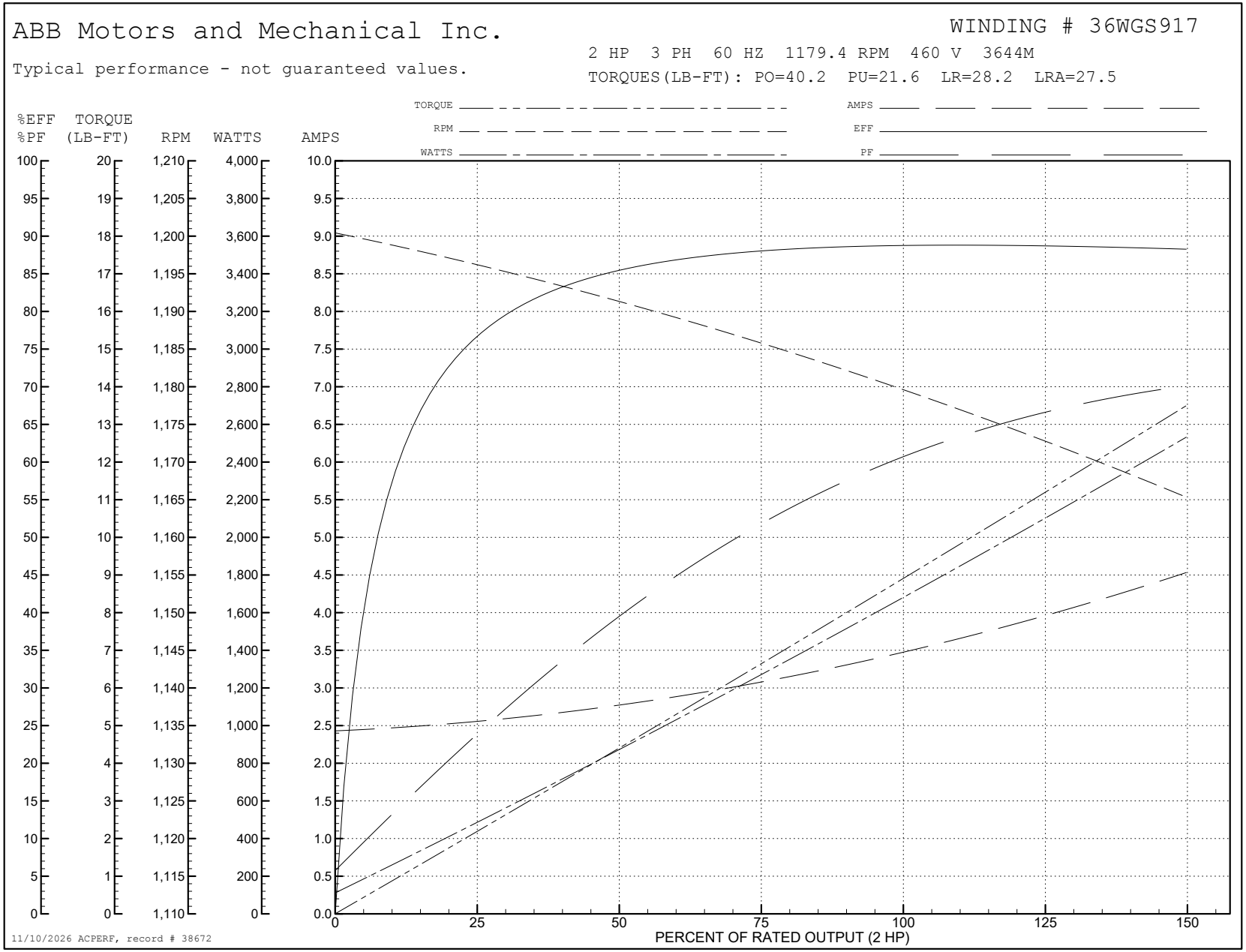
AC Induction Motor Performance Data
Record # 38672
Typical performance - not guaranteed values

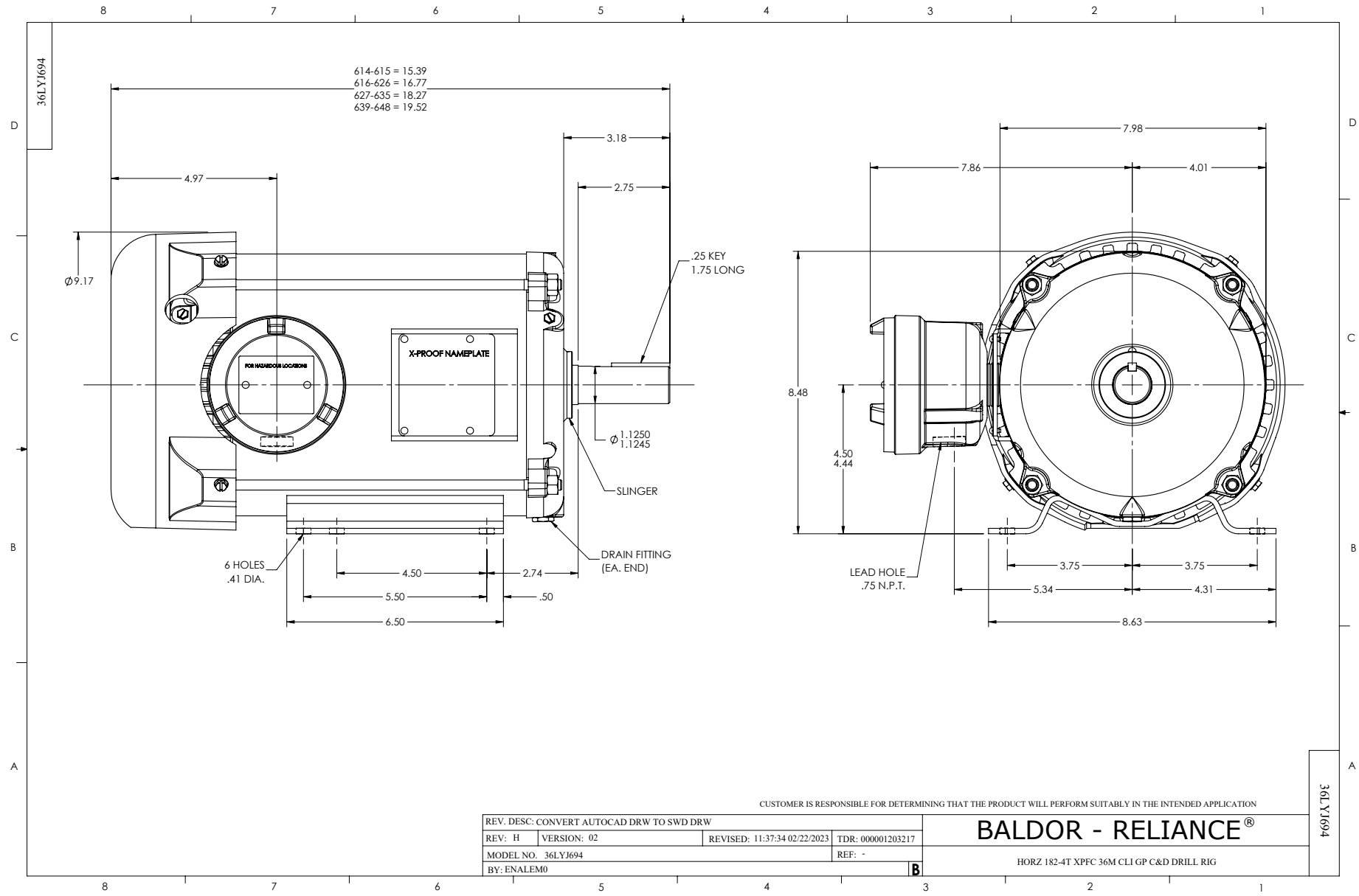
Winding: 36WGS917-R003	**Type:** 3644M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2//1.5	**Full Load Torque**	8.91 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			7/3.5//6.6/3.3	**Breakdown Torque**	40.2 LB-FT
R.P.M.			1175//975	**Pull-up Torque**	21.6 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	28.2 LB-FT
NEMA Design Code	A	**KVA Code**	M	**Starting Current**	27.5 A
Service Factor (S.F.)			1.15	**No-load Current**	2.45 A
NEMA Nom. Eff.	88.5	**Power Factor**	60	**Line-line Res. @ 25ºC**	4.2188 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	34°C
S.F. Amps				**Temp. Rise @ S.F. Load**	39°C

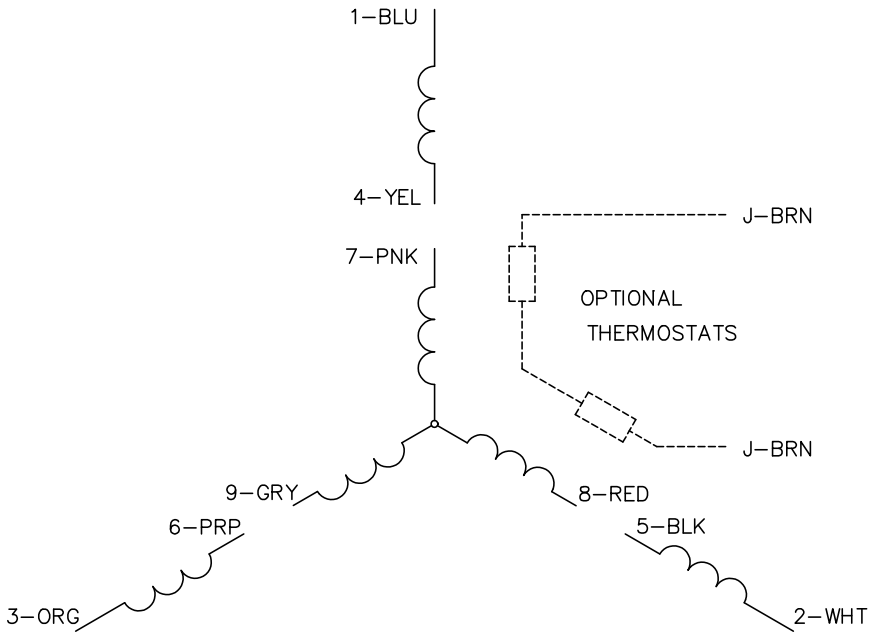
Load Characteristics 460 V, 60 Hz, 2 HP

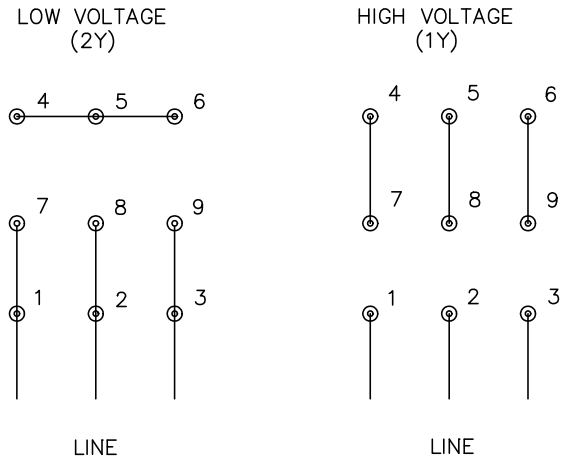
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	24	40	52	60	66	70	64
Efficiency	76.4	85.3	88	88.9	88.8	88.4	88.8
Speed	1196.9	1191.4	1185.5	1179.4	1172.7	1165.5	1175
Line amperes	2.53	2.76	3.09	3.49	3.97	4.52	3.78


ABB Motors and Mechanical Inc.
WINDING # 36WGS917
Typical performance - not guaranteed values.
2 HP 3 PH 60 HZ 1179.4 RPM 460 V 3644M
TORQUES(LB-FT): PO=40.2 PU=21.6 LR=28.2 LRA=27.5
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
11/10/2026 ACPERF, record # 38672


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

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