ABB BALDOR RELIANCE

Customer information packet

EM7042T-I

3//2HP, 1760//1460 75CRISERPM, 3PH, 60//50H
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	182T
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 @ 60 HZ
	2.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 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	3.600 A @ 380.0 V
	4.200 A @ 460.0 V
	7.200 A @ 190.0 V
	8.400 A @ 230.0 V
	9.000 A @ 208.0 V
Design Code	B

Part Detail

Revision	AA
Type	AC
Mech. spec.	36J694
Base	
Status	PRD/A
Elec. spec.	36WGS266
Layout	36LYJ694
Eff. date	06-03-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	09-30-2010

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
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	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	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	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

NP0977XPSLEV									
NO.					**CC**	010A			
SER.					**TEMP CODE**	T3C			
SPEC.	36J694S266G1								
CAT.NO.	EM7042T-I								
HP	3//2								
VOLTS	230/460//190/380								
AMPS	8.4/4.2//7.2/3.6								
RPM	1760//1460 75CRISE			**MOTOR WEIGHT**	107				
HERTZ	60//50	**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								

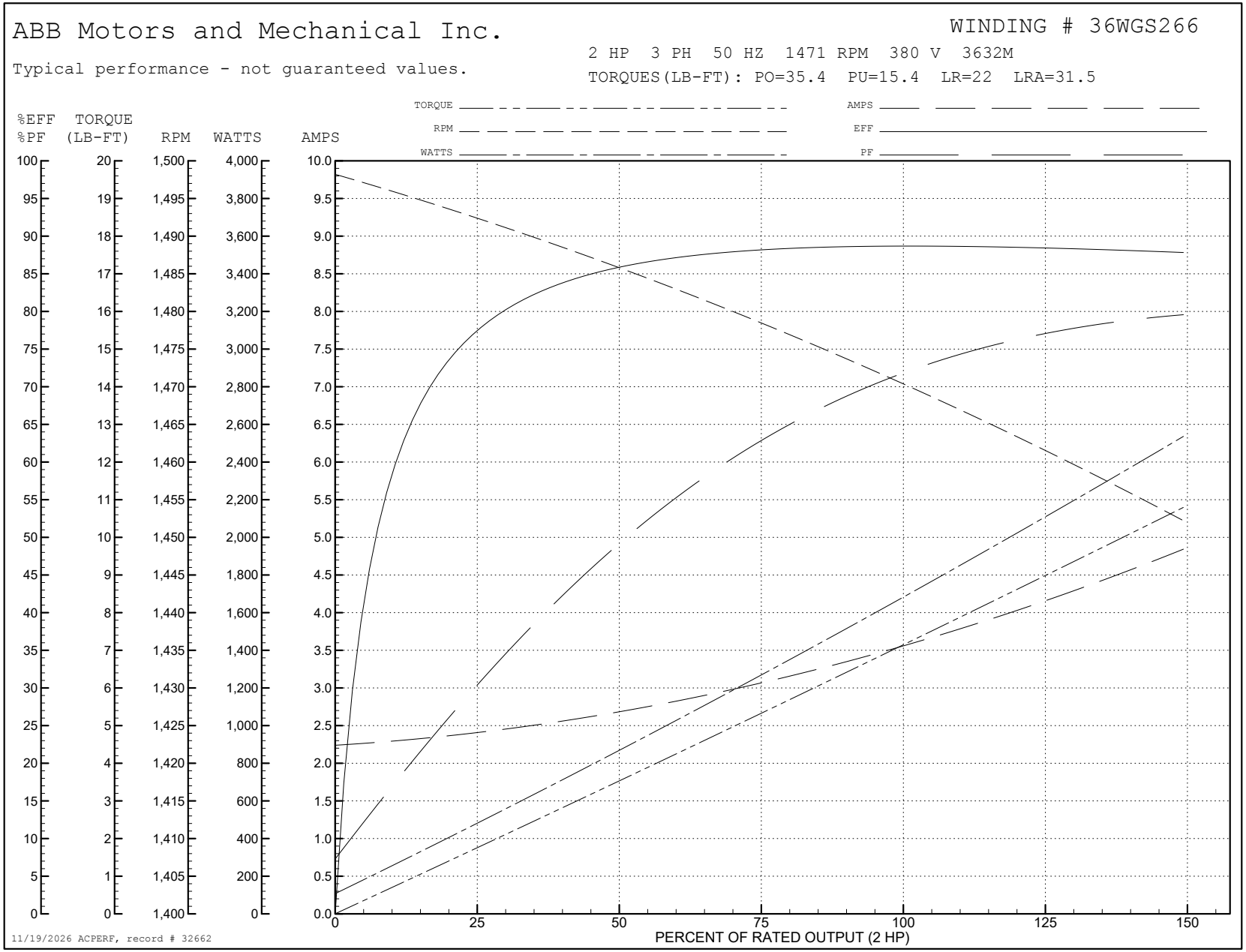
AC Induction Motor Performance Data
Record # 32662
Typical performance - not guaranteed values

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
Typical performance - not guaranteed values.
2 HP 3 PH 50 HZ 1471 RPM 380 V 3632M
TORQUES(LB-FT): PO=35.4 PU=15.4 LR=22 LRA=31.5
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
11/19/2026 ACPERF, record # 32662

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

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

Nameplate Data			
Rated Output (HP)			3//2
Volts			230/460//190/380
Full Load Amps			8.4/4.2//7.2/3.6
R.P.M.			1760//1460
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**	75
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	8.8 LB-FT
Start Configuration	direct on line
Breakdown Torque	37.6 LB-FT
Pull-up Torque	15.2 LB-FT
Locked-rotor Torque	21.7 LB-FT
Starting Current	32.7 A
No-load Current	2.3 A
Line-line Res. @ 25ºC	3.81 Ω
Temp. Rise @ Rated Load	44°C
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

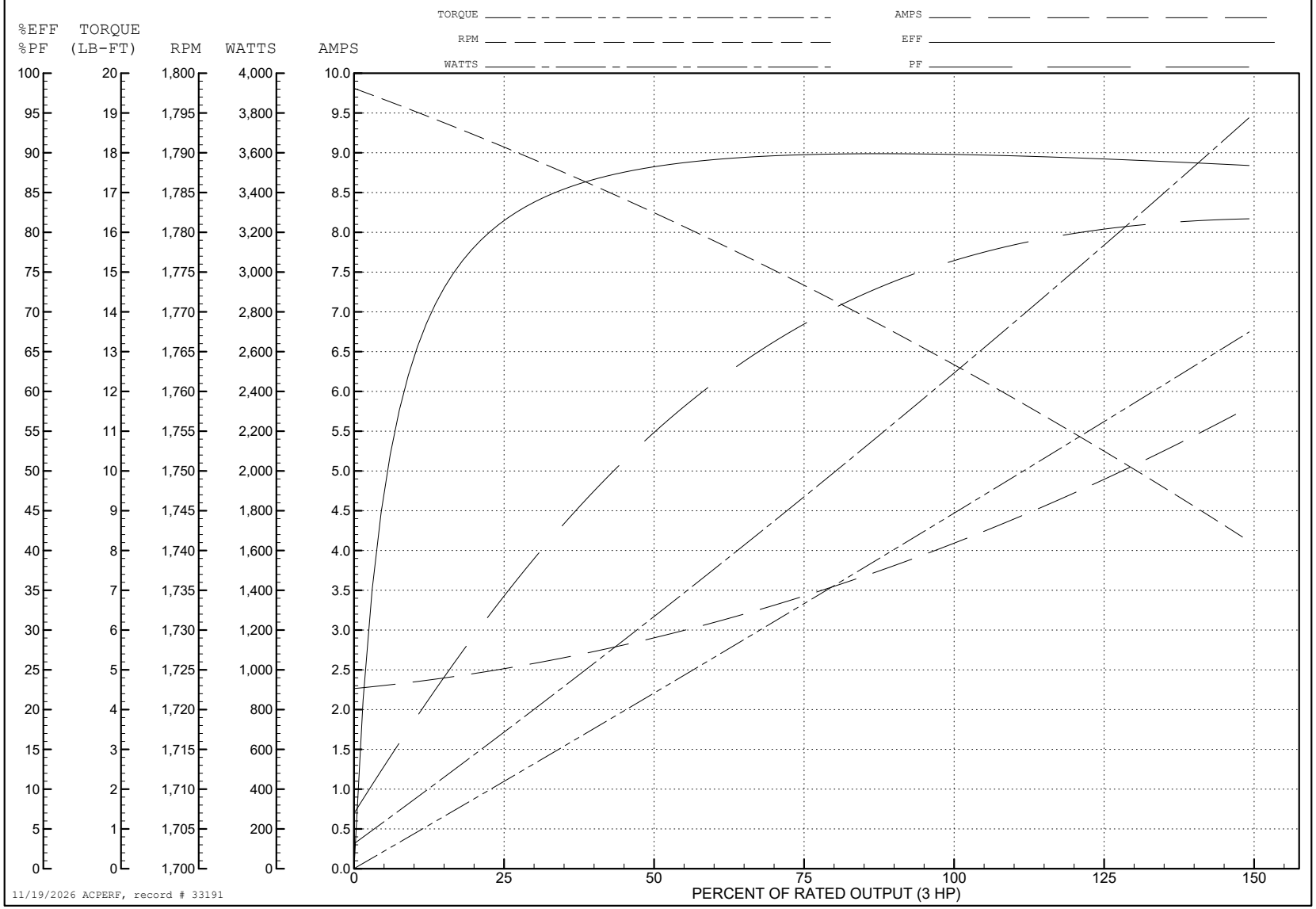
ABB Motors and Mechanical Inc.

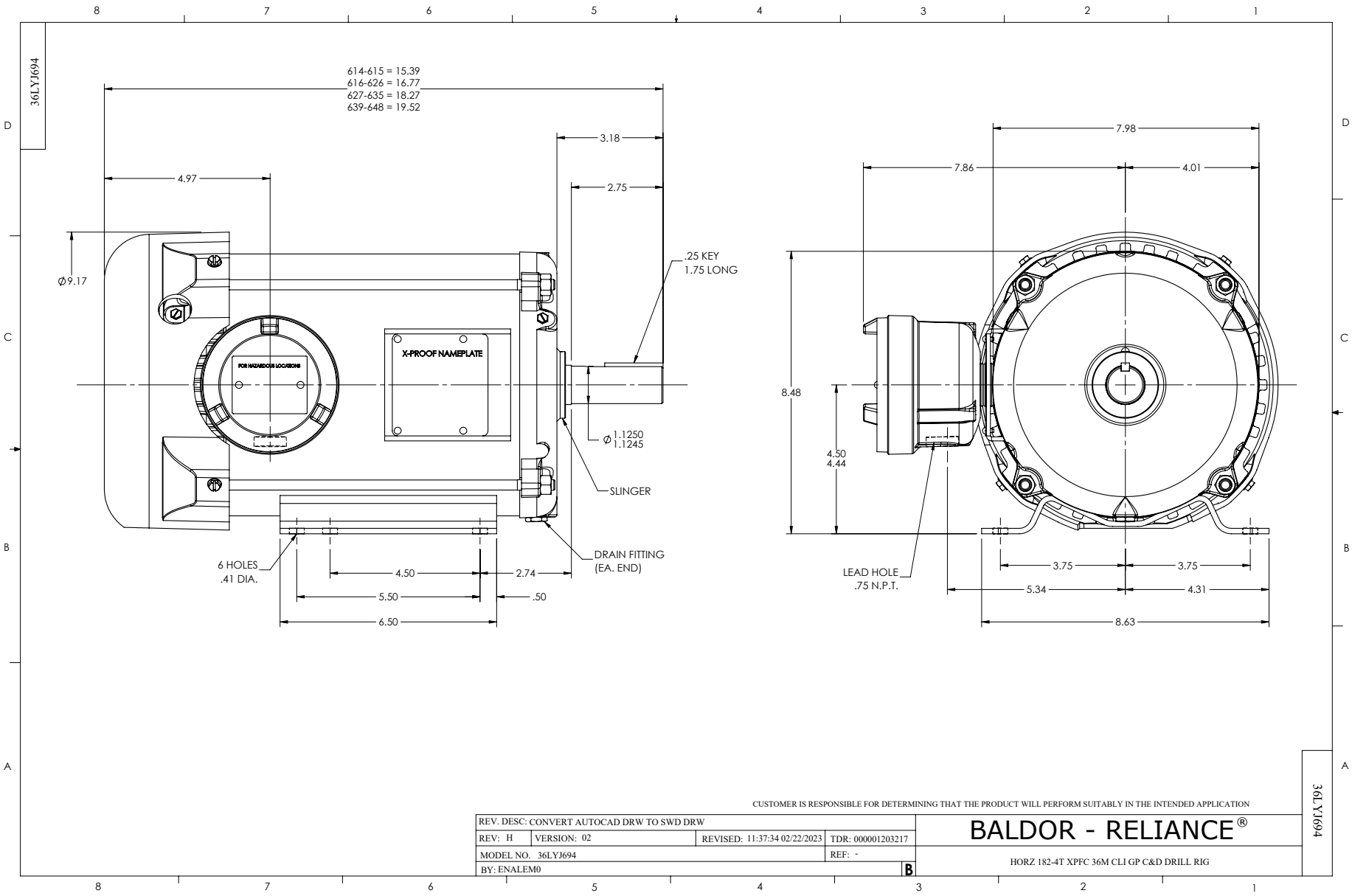
WINDING # 36WGS266

Typical performance - not guaranteed values.

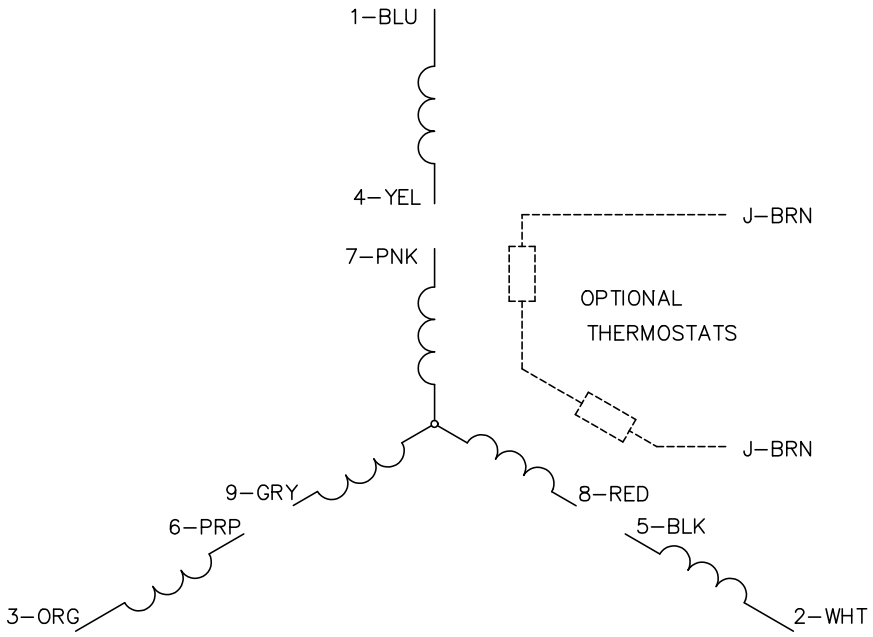
3 HP 3 PH 60 HZ 1764 RPM 460 V 3632M

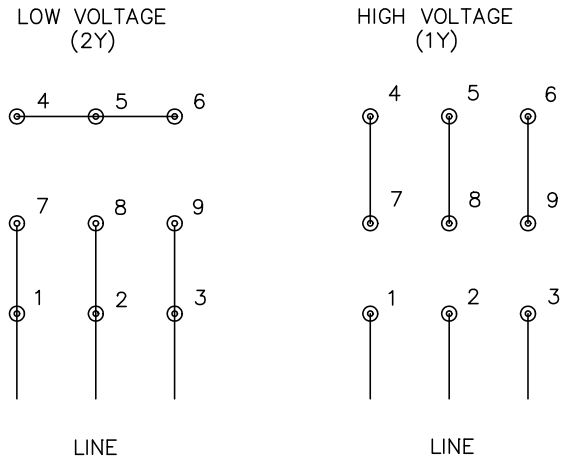
TORQUES(LB-FT): PO=37.6 PU=15.2 LR=21.7 LRA=32.7




36LYJ694
614-615 = 15.39
616-626 = 16.77
627-635 = 18.27
639-648 = 19.52
3.18
4.97
2.75
Ø9.17
.25 KEY
1.75 LONG
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