

ABB BALDOR RELIANCE III

Customer information packet

EM7020T-I

1.5//1HP, 1165//970 75C RISERPM, 3PH, 60//5

Class - CLI GP C,D

Division - Division I

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	1.500 HP @ 60 HZ 1.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1000 RPM @ 50 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	UL CSA
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	2.100 A @ 380.0 V 2.400 A @ 460.0 V 4.200 A @ 190.0 V 4.800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %

Part Detail

Revision	R
Type	AC
Mech. spec.	36J694
Base	
Status	PRD/A
Elec. spec.	36WGS916
Layout	36LYJ694
Eff. date	02-19-2026
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	05-16-2012

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	2.1 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	6
Overall Length	18.27 IN
Power Factor	67
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	1165 rpm

	970 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.	36J694S916G1											
CAT.NO.	EM7020T-I											
HP	1.5//1											
VOLTS	230/460//190/380											
AMPS	4.8/2.4//4.2/2.1											
RPM	1165//970 75C RISE					MOTOR WEIGHT		108				
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											
					NEMA-NOM-EFF		87.5		PF	67		
	NEMA MG-1 PT 5,IP55											

AC Induction Motor Performance Data

Record # 38402

Typical performance - not guaranteed values

Winding: 36WGS916-R003			Type: 3632M		Enclosure: XPFC			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1.5//1		Full Load Torque		6.86 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		4.8/2.4//4.2/2.1		Breakdown Torque		23.8 LB-FT		
R.P.M.		1165//970		Pull-up Torque		12.5 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		15.3 LB-FT	
NEMA Design Code		B		KVA Code	K	Starting Current		15.8 A
Service Factor (S.F.)		1.15		No-load Current		1.47 A		
NEMA Nom. Eff.		87.5	Power Factor	67	Line-line Res. @ 25°C		7.3716 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		34°C		
S.F. Amps				Temp. Rise @ S.F. Load		41°C		
				Locked-rotor Power Factor		30		
				Rotor inertia		0.301 LB-FT2		

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	48	59	67	71	74	69
Efficiency	79.1	86	87.5	87.5	86.5	85.2	86.9
Speed	1192.2	1184.8	1176.8	1168.1	1158.2	1147.5	1162
Line amperes	1.57	1.77	2.07	2.43	2.88	3.36	2.7

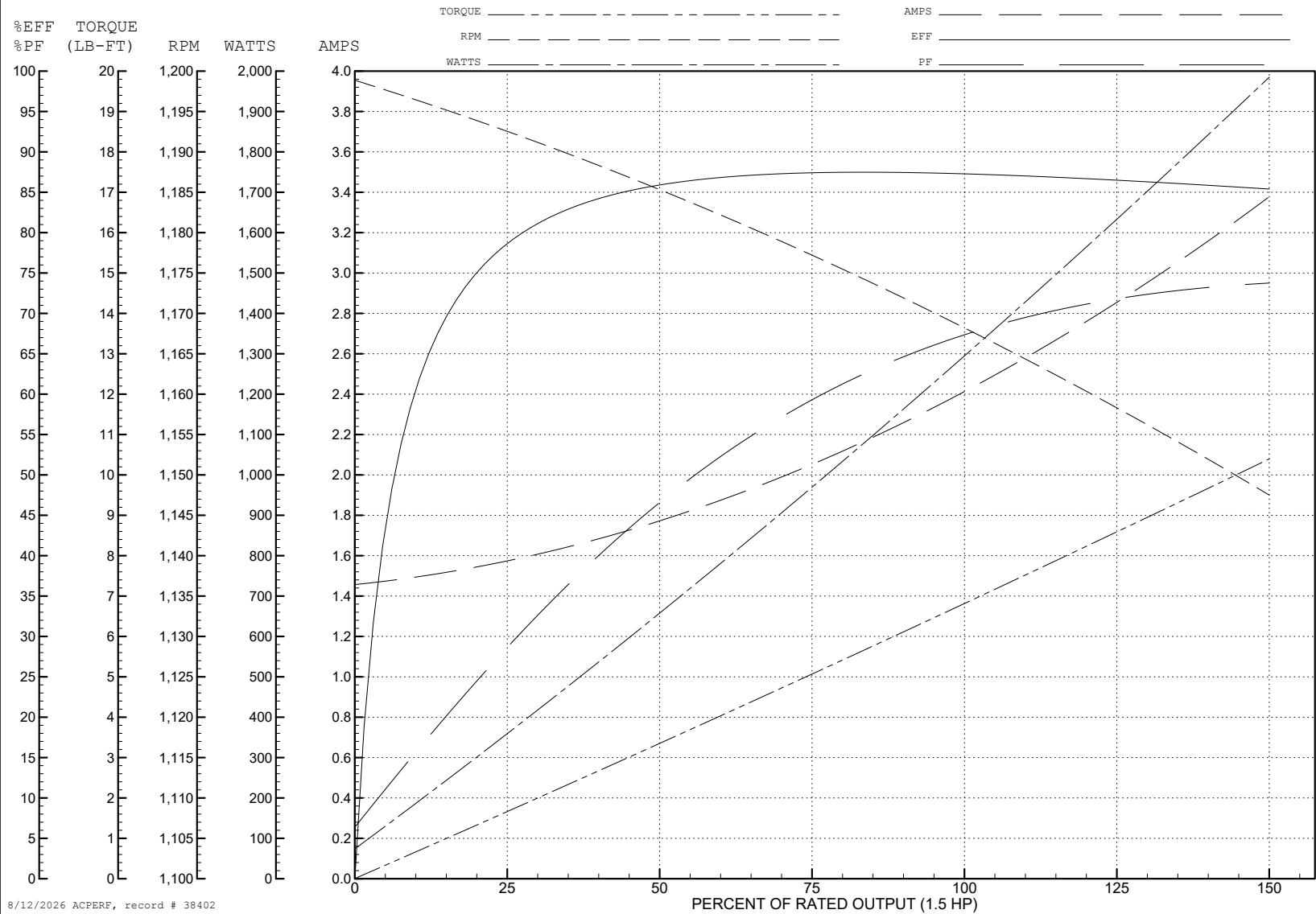
ABB Motors and Mechanical Inc.

WINDING # 36WGS916

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1168.1 RPM 460 V 3632M

TORQUES (LB-FT): PO=23.8 PU=12.5 LR=15.3 LRA=15.8



AC Induction Motor Performance Data

Record # 38405

Typical performance - not guaranteed values

Winding: 36WGS916-R003			Type: 3632M		Enclosure: XPFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection		
Rated Output (HP)		1.5//1		Full Load Torque		5.48 LB-FT
Volts		230/460//190/380		Start Configuration		direct on line
Full Load Amps		4.8/2.4//4.2/2.1		Breakdown Torque		22.8 LB-FT
R.P.M.		1165//970		Pull-up Torque		13.2 LB-FT
Hz		60//50		Phase		3
NEMA Design Code		B		KVA Code		K
Service Factor (S.F.)		1.15		No-load Current		1.45 A
NEMA Nom. Eff.		87.5		Power Factor		67
Rating - Duty		40C		AMB-CONT		
S.F. Amps				Temp. Rise @ Rated Load		27°C
				Temp. Rise @ S.F. Load		32°C
				Locked-rotor Power Factor		34
				Rotor inertia		0.301 LB-FT2

Load Characteristics 380 V, 50 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	26	42	54	63	68	72	66
Efficiency	75.7	83.8	86.2	86.5	85.9	85.1	86.1
Speed	994	988	981	974	966	958	969
Line amperes	1.53	1.67	1.88	2.13	2.46	2.81	2.33

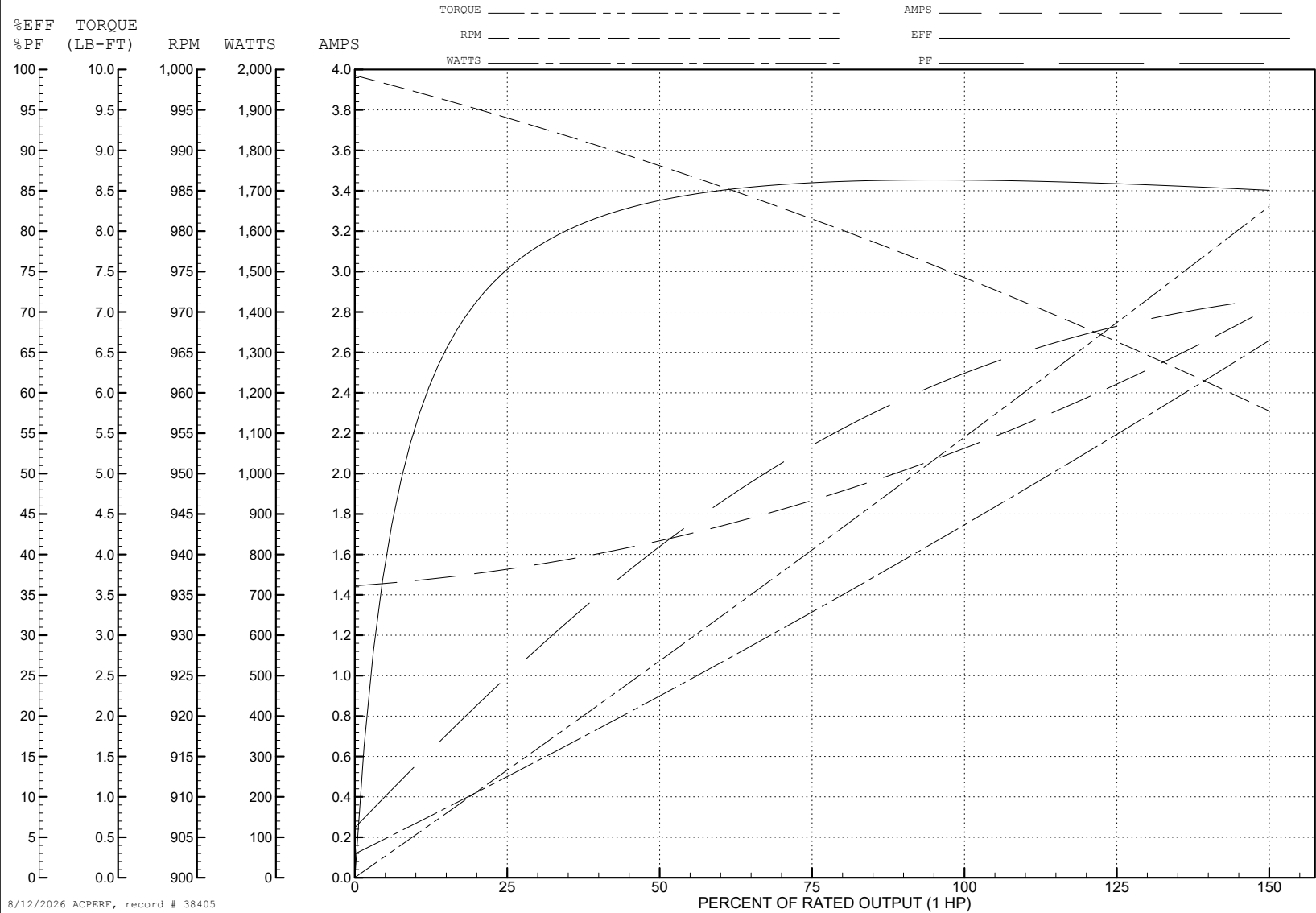
ABB Motors and Mechanical Inc.

WINDING # 36WGS916

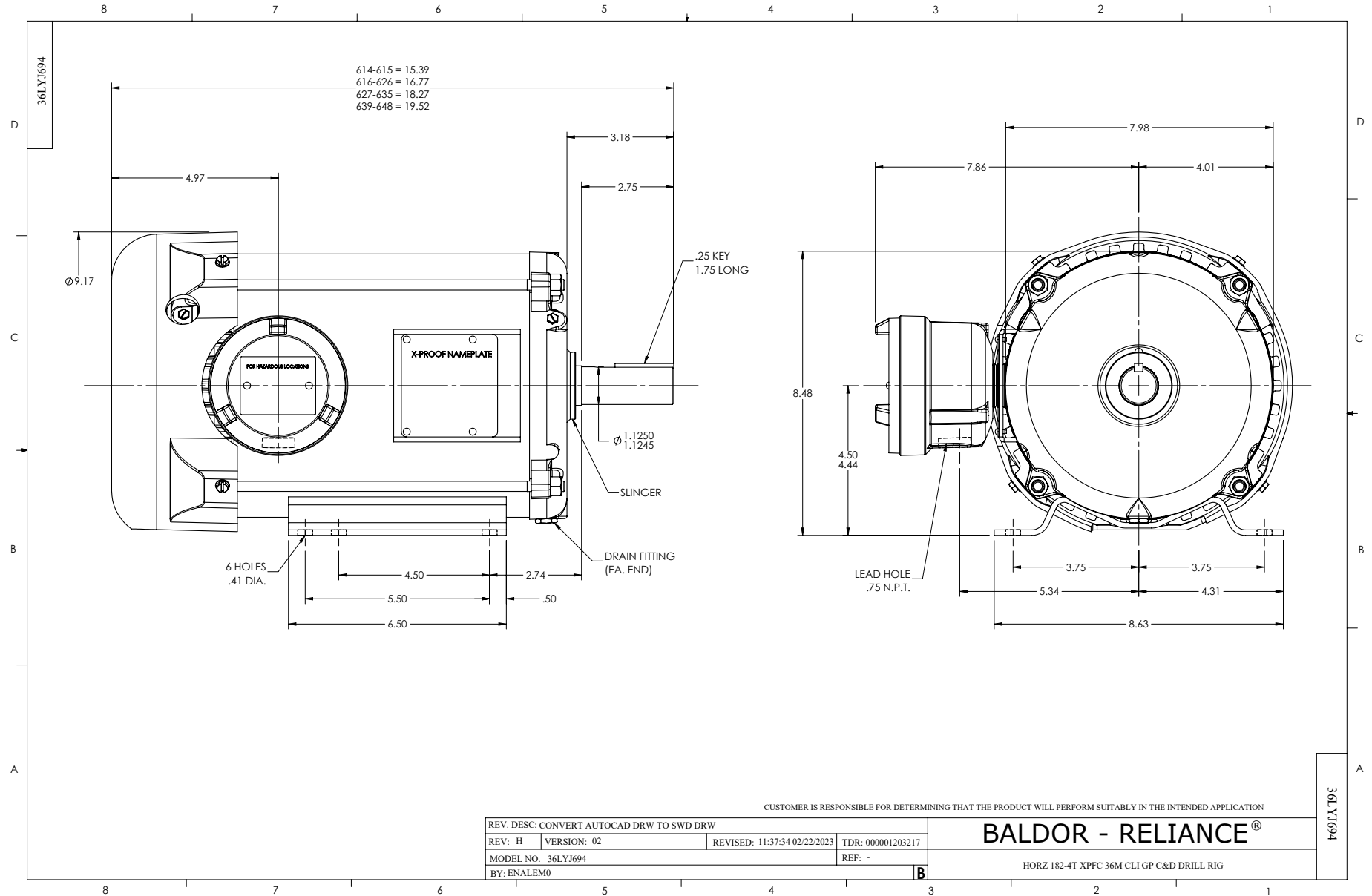
Typical performance - not guaranteed values.

1 HP 3 PH 50 HZ 974 RPM 380 V 3632M

TORQUES (LB-FT): PO=22.8 PU=13.2 LR=16.1 LRA=15.4



8/12/2026 ACPERF, record # 38405



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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005