

ABB BALDOR RELIANCE III

Customer information packet

L5000A

.25HP, 1725RPM, 1PH, 60HZ, 56, 3414L, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	56
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	.250 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 208.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	UL CSA 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	2.000 A @ 208.0 V 2.100 A @ 230.0 V 4.200 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	62.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	Z
Type	AC
Mech. spec.	34-5322
Base	
Status	PRD/A
Elec. spec.	34WGY855
Layout	34LY5322
Eff. date	02-19-2026
CD Diagram	CD0565
Poles	04
Leads	7#18
Proprietary	False
Created date	08-21-2007

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	2.0 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3414L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.22 IN
Power Factor	64
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Automatic Thermal Overload
Winding Thermal 1 Location	EP

Nameplate

NP0016XPSL					
NO.		CC			
SER. #					
SPEC	34-5322Y855G1				
CAT.NO.	L5000A				
H.P.	.25	T. CODE	T3C		
VOLTS	115/208-230				
AMPS	4.2/2-2.1				
R.P.M.	1725				
HZ	60	PH	1	CLASS	B
SER.F.	1.00	DES	N	CODE	L
RATING	40C AMB-CONT				
FRAME	56	NEMA NOM. EFF		62	
	PF	64			
BLANK					

AC Induction Motor Performance Data

Record # 36349

Typical performance - not guaranteed values

Winding: 34WGY855-R006			Type: 3414L		Enclosure: XPFC	
Nameplate Data				230 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		.25		Full Load Torque		0.762 LB-FT
Volts		115/208-230		Start Configuration		direct on line
Full Load Amps		4.2/2-2.1		Breakdown Torque		2.38 LB-FT
R.P.M.		1725		Pull-up Torque		1.68 LB-FT
Hz	60	Phase	1	Locked-rotor Torque		2.83 LB-FT
NEMA Design Code		N	KVA Code	Starting Current		10.8 A
Service Factor (S.F.)		1		No-load Current		1.67 A
NEMA Nom. Eff.		62	Power Factor	Line-line Res. @ 25°C		9.23 Ω A Ph 8.97 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		43°C

Load Characteristics 230 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	35	47	54	64	69	72
Efficiency	35.2	50	60.6	61.8	65.7	71.6
Speed	1780	1767	1753	1738	1722	1711
Line amperes	1.69	1.78	1.88	2.07	2.23	2.35

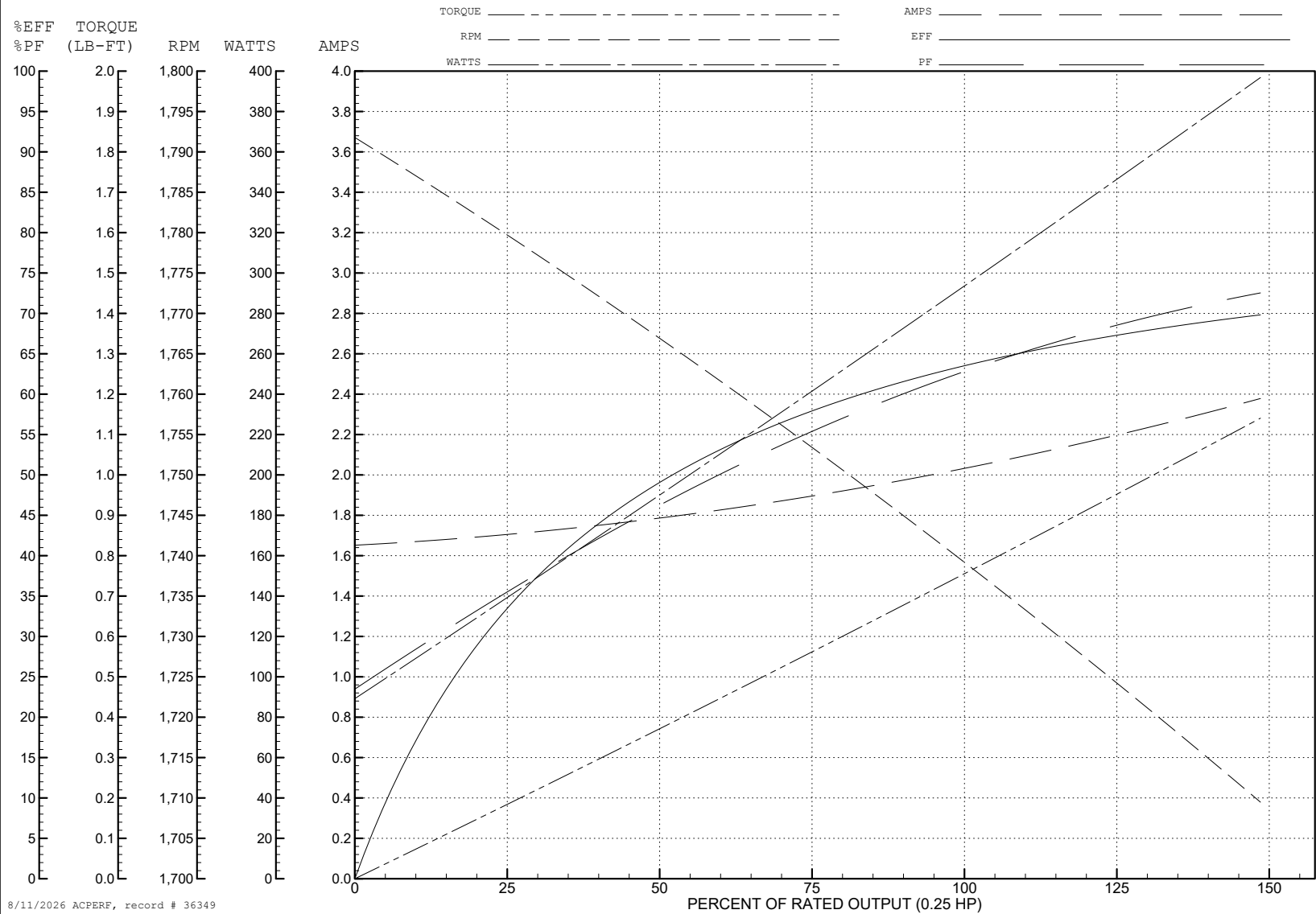
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WINDING # 34WGY855

Typical performance - not guaranteed values.

0.25 HP 1 PH 60 HZ 1725 RPM 230 V 3414L

TORQUES (LB-FT) : PO=2.38 PU=1.68 LR=2.83 LRA=10.8



AC Induction Motor Performance Data

Record # 41431

Typical performance - not guaranteed values

Winding: 34WGY855-R006			Type: 3414L	Enclosure: XPFC			
Nameplate Data			115 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		.25	Full Load Torque		0.762 LB-FT		
Volts		115/208-230	Start Configuration		direct on line		
Full Load Amps		4.2/2-2.1	Breakdown Torque		2.38 LB-FT		
R.P.M.		1725	Pull-up Torque		1.68 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		2.83 LB-FT	
NEMA Design Code		N	KVA Code	L	Starting Current		21.6 A
Service Factor (S.F.)		1		No-load Current		3.34 A	
NEMA Nom. Eff.		62	Power Factor	64	Line-line Res. @ 25°C		2.22 Ω A Ph 8.87 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load			

Load Characteristics 115 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	35	47	55	64	69	72
Efficiency	35.2	50	60.6	61.9	65.6	71.2
Speed	1780	1767	1753	1738	1722	1711
Line amperes	3.38	3.56	3.76	4.14	4.46	4.7

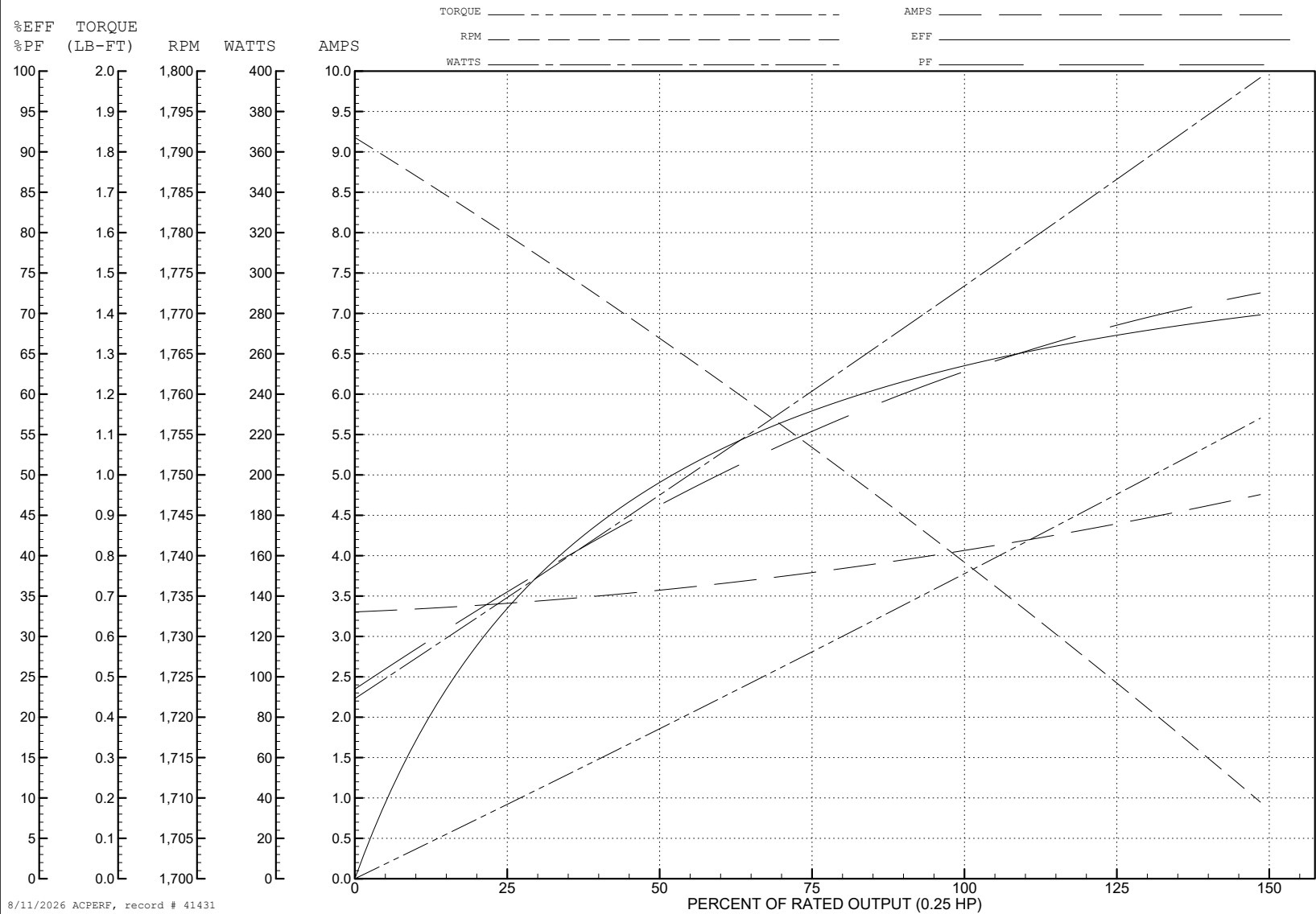
ABB Motors and Mechanical Inc.

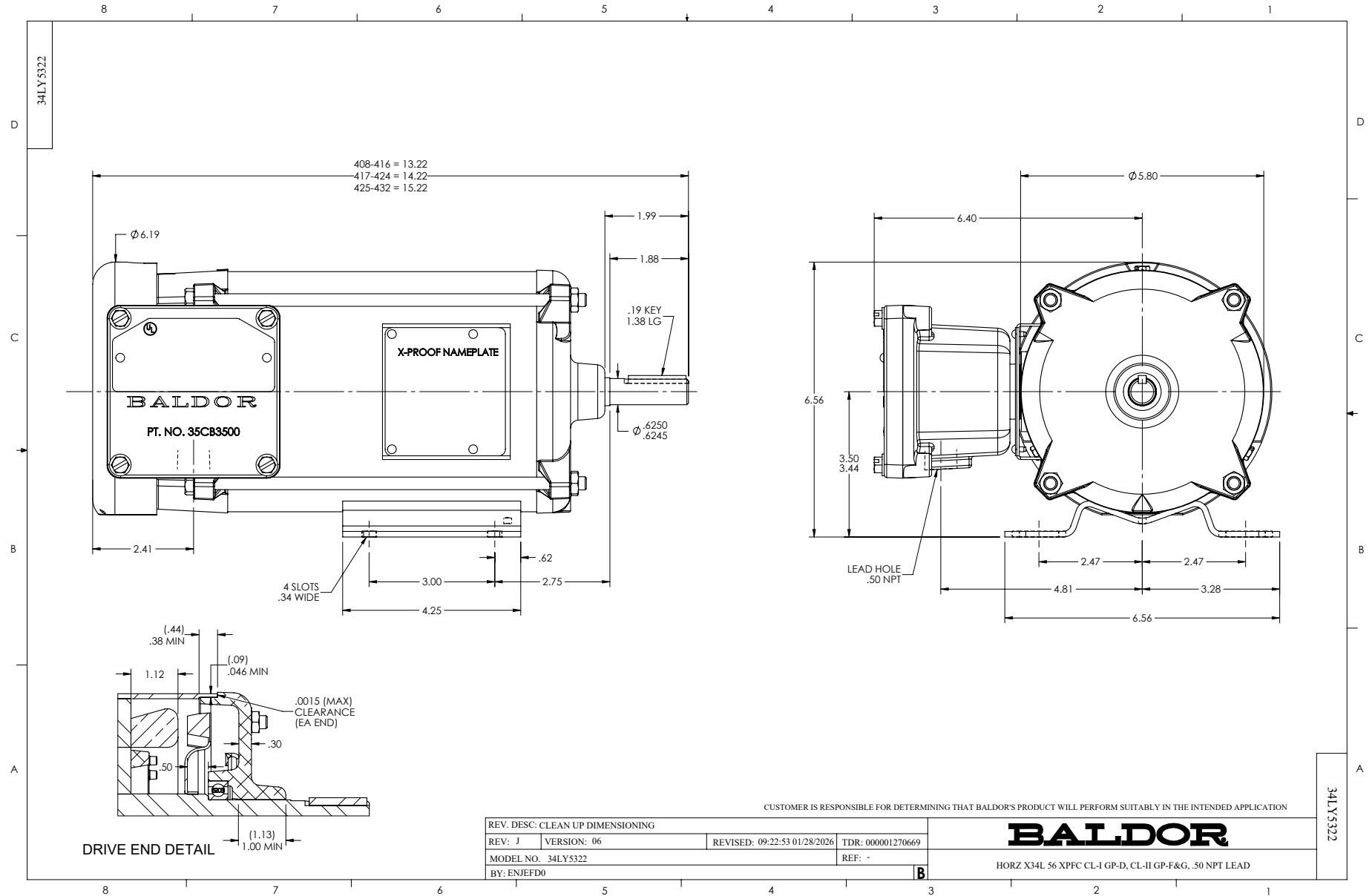
WINDING # 34WGY855

Typical performance - not guaranteed values.

0.25 HP 1 PH 60 HZ 1725 RPM 115 V 3414L

TORQUES (LB-FT) : PO=2.38 PU=1.68 LR=2.83 LRA=21.6





CD0565

