

ABB BALDOR RELIANCE III

Customer information packet

VEL11301

.33HP, 1740RPM, 1PH, 60HZ, 56C, 3418LC, OPEN, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	.330 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.700 A @ 230.0 V 2.500 A @ 208.0 V 3.400 A @ 115.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a

Part Detail

Revision	L
Type	AC
Mech. spec.	34F534
Base	
Status	PRD/A
Elec. spec.	34WGW954
Layout	34LYF534
Eff. date	06-11-2025
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	10-08-2014

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3418LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.85 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.35
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	1740 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	None
Winding Thermal 2	None

Nameplate

NP3155L												
CAT.NO.	VEL11301											
SPEC.	34F534W954G1											
HP	.33											
VOLTS	115/230											
AMP	3.4/1.7											
RPM	1740											
FRAME	56C		HZ	60				PH	1			
SER.F.	1.35	CODE	K	DES	N	CL	B					
F.L. AVG. EFF.	72.4	PF	85									
RATING	40C AMB-CONT											
CC												
DE	6203		ODE	6203								
ENCL	OPEN	SN										
	SFA 4.4/2.2											

AC Induction Motor Performance Data

Record # 49395

Typical performance - not guaranteed values

Winding: 34WGW954-R004			Type: 3418LC		Enclosure: OPEN	
Nameplate Data			115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		.33	Full Load Torque		0.99 LB-FT	
Volts		115/230	Start Configuration		direct on line	
Full Load Amps		3.4/1.7	Breakdown Torque		2.46 LB-FT	
R.P.M.		1740	Pull-up Torque		2.33 LB-FT	
Hz		60	Phase		1	
NEMA Design Code		N	KVA Code		K	
Service Factor (S.F.)		1.35	No-load Current		1.57 A	
NEMA Nom. Eff.		72.4	Power Factor		85	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps		4.4/2.2	Temp. Rise @ S.F. Load		29°C	
					5.5445 Ω B Ph	
					42°C	

Load Characteristics 115 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	65	74	81	86	88	90	89
Efficiency	42.7	67.4	74.2	74.6	74.2	72.5	73.5
Speed	1781.1	1772.5	1759.4	1742.5	1721.5	1700.5	1713
Line amperes	1.86	2.15	2.64	3.31	4.09	4.89	4.41

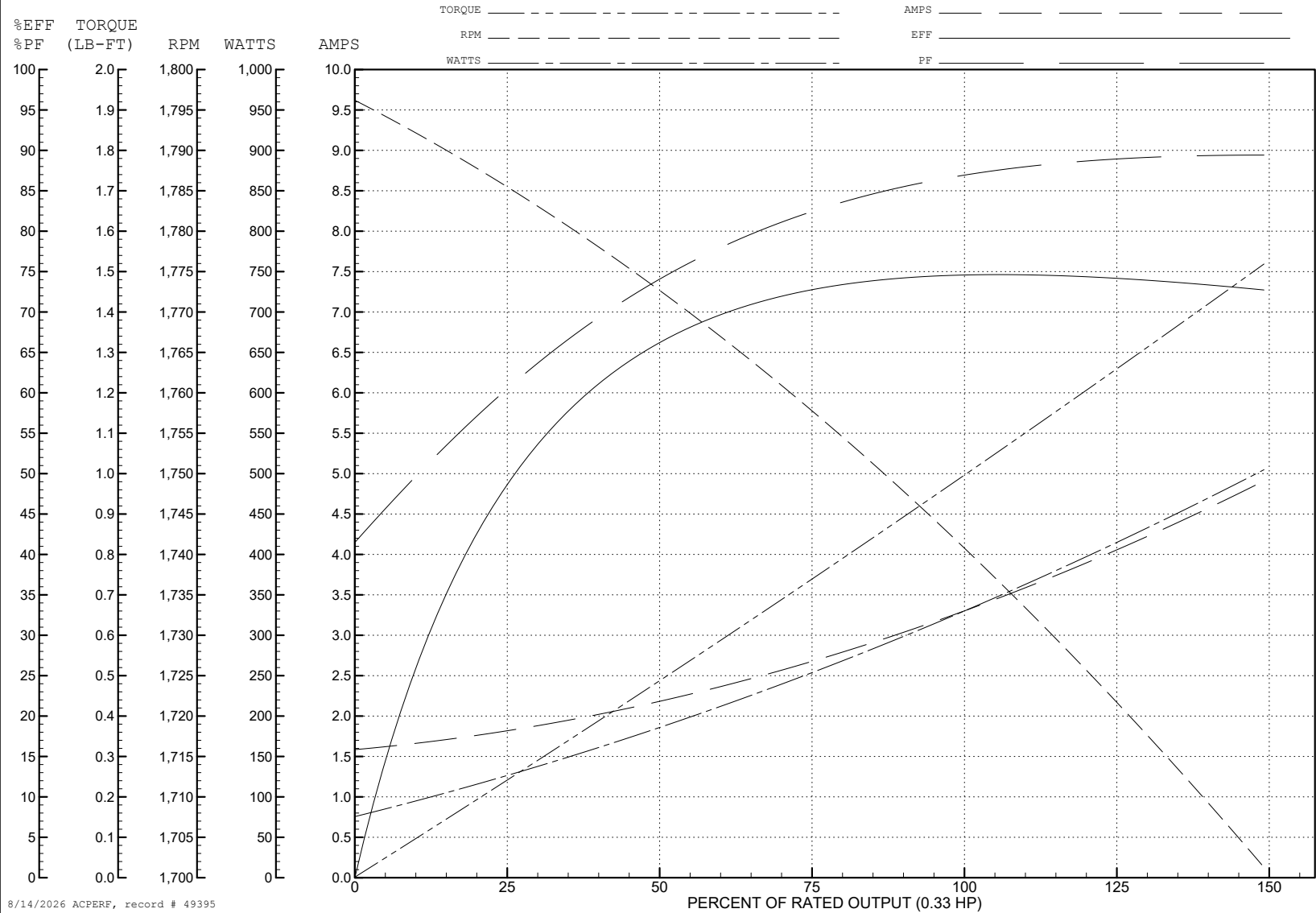
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WINDING # 34WG954

Typical performance - not guaranteed values.

0.33 HP 1 PH 60 HZ 1740 RPM 115 V 3418LC

TORQUES (LB-FT) : PO=2.46 PU=2.33 LR=3.94 LRA=24.5



AC Induction Motor Performance Data

Record # 49397

Typical performance - not guaranteed values

Winding: 34WGW954-R004			Type: 3418LC		Enclosure: OPEN		
Nameplate Data				230 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.33		Full Load Torque		0.99 LB-FT	
Volts		115/230		Start Configuration		direct on line	
Full Load Amps		3.4/1.7		Breakdown Torque		2.46 LB-FT	
R.P.M.		1740		Pull-up Torque		2.08 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		3.51 LB-FT	
NEMA Design Code		N	KVA Code	K		Starting Current	12.36 A
Service Factor (S.F.)		1.35		No-load Current		0.794 A	
NEMA Nom. Eff.		72.4	Power Factor	85		Line-line Res. @ 25°C	1.75 Ω A Ph 5.76 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		30°C	
S.F. Amps		4.4/2.2		Temp. Rise @ S.F. Load		40°C	
				Rotor inertia		0.0428 LB-FT2	

Load Characteristics 230 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	66	74	82	86	88	90	89
Efficiency	41.8	66.8	73.5	74.3	73.8	72.1	73.1
Speed	1781	1773	1759	1743	1722	1700	1713
Line amperes	0.941	1.09	1.33	1.67	2.06	2.46	2.22

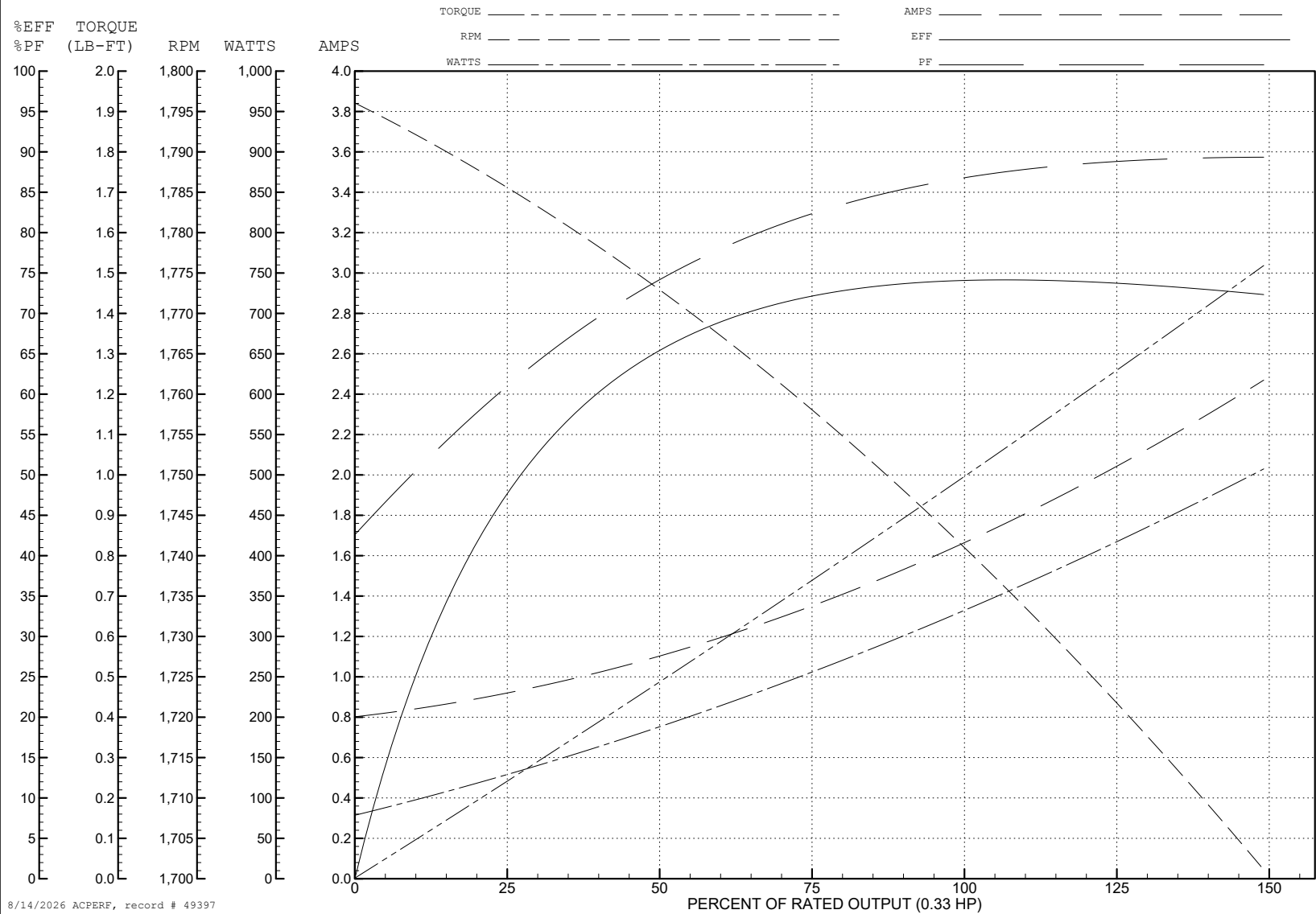
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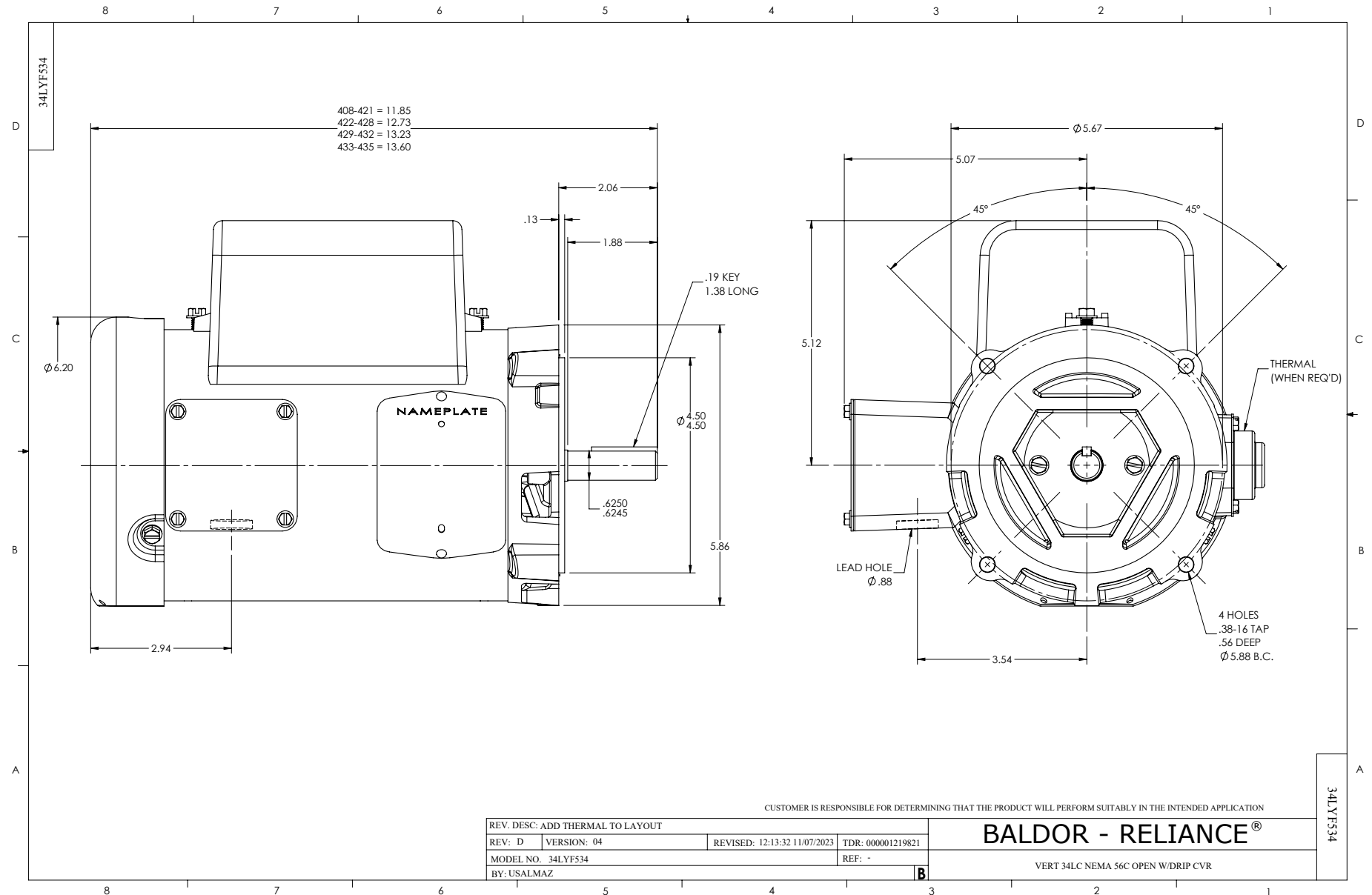
WINDING # 34WG954

Typical performance - not guaranteed values.

0.33 HP 1 PH 60 HZ 1740 RPM 230 V 3418LC

TORQUES (LB-FT) : PO=2.46 PU=2.08 LR=3.51 LRA=12.36





CD0055

