

ABB BALDOR RELIANCE III

Customer information packet

ERL1306A

.75HP, 3450RPM, 1PH, 60HZ, 56, 3428LC, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56
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	.750 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.300 A @ 230.0 V 4.700 A @ 208.0 V 6.300 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	76.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	G
Type	AC
Mech. spec.	34G867
Base	
Status	PRD/A
Elec. spec.	34WGR220
Layout	34LYG867
Eff. date	10-29-2024
CD Diagram	CD0703
Poles	02
Leads	6#18,1#16 #1TH
Proprietary	False
Created date	10-09-2014

High Voltage Full Load Amps	3.3 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	None
Motor Standards	NEMA
Motor Type	3428LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.47 IN
Power Factor	95
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
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	3450 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	SB
Winding Thermal 2	None

Nameplate

NP3273L											
CAT.NO.	ERL1306A										
SPEC.	34G867R220G1										
HP	.75										
VOLTS	115/230										
AMP	6.3/3.3										
RPM	3450										
FRAME	56		HZ		60				PH		1
SER.F.	1.25	CODE		J	DES		N	CL		B	
F.L. AVG. EFF.	76.2	PF		95							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE		6203						
ENCL	OPEN	SN									
	SFA 8.4/4.2										

Parts List

Part number	Description	Quantity
SA288414	SA 34G867R220G1	1.000 ea
RA274605	RA 34G867R220G1	1.000 ea
OC3030F11SP	CAPACITOR 30 MFD 370 VAC	1.000 ea
EC1400A03SP	ELEC CAP, 400-480 MFD, 125V, 1.81D X 3.	1.000 ea
WD3006A01	RSS-2-103JT 2W 10K RES. METAL OXIDE 5%	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 ea
34EP3202A01	FR ENDPLATE, MACH	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
RM1000A03	CUSHION RING, MDL 17-33-34	1.000 ea
HA6004A01A	CLAMP CUSHION RING ASSY	1.000 ea
LD5000A52	LEAD ASSY W/INTERNAL STAR RING TERMINALS	1.000 ea
11XT1032A06	10-32 X 3/8 HX WSHR HD SLTD TYPE 23	2.000 ea
34CB3801	CAPACITOR BOX, DIE CAST	1.000 ea
51XB1214A08	12-14 X 1/2HX WS SL SR TYBX	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3203A01	PU ENDPLATE, MACH	1.000 ea
RM1000A03	CUSHION RING, MDL 17-33-34	1.000 ea
HA6004A01A	CLAMP CUSHION RING ASSY	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
34CB4501SP	TERMINAL BOX LID, STAMPED X (PLATED)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.014 ga
34BA4003G01	RESILIENT BASE	1.000 ea
HA3100A45	THRUBOLT 10-32 X 8.875	4.000 ea
SP5068A24	34LC TERM PANEL STAT SWITCH #E-6" AND #O	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea

LC0052	CONNECTION LABEL	1.000 ea
NP3273L	ALUM SUPER-E THERMALLY PROTECTED, LASER	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
WD1000A41	AMP TERMINAL 62418-2	2.000 ea

AC Induction Motor Performance Data

Record # 52884

Typical performance - not guaranteed values

Winding: 34WGR220-R001			Type: 3428LC		Enclosure: OPEN		
Nameplate Data			230 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.75	Full Load Torque		1.14 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		6.3/3.3	Breakdown Torque		3.88 LB-FT		
R.P.M.		3450	Pull-up Torque		2.07 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		3.92 LB-FT	
NEMA Design Code		N	KVA Code	J	Starting Current		24.8 A
Service Factor (S.F.)		1.25		No-load Current		0.961 A	
NEMA Nom. Eff.		76.2	Power Factor	95	Line-line Res. @ 25°C		2.4012 Ω A Ph 2.118 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		12°C	
S.F. Amps		8.4/4.2		Temp. Rise @ S.F. Load		16°C	

Load Characteristics 230 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	77	89	93	95	95	95	95
Efficiency	62.6	74.2	78.2	77.5	76.1	74.7	76.1
Speed	3567.6	3537.1	3504.2	3465	3419.8	3372.1	3420
Line amperes	1.23	1.84	2.51	3.32	4.21	5.14	4.21

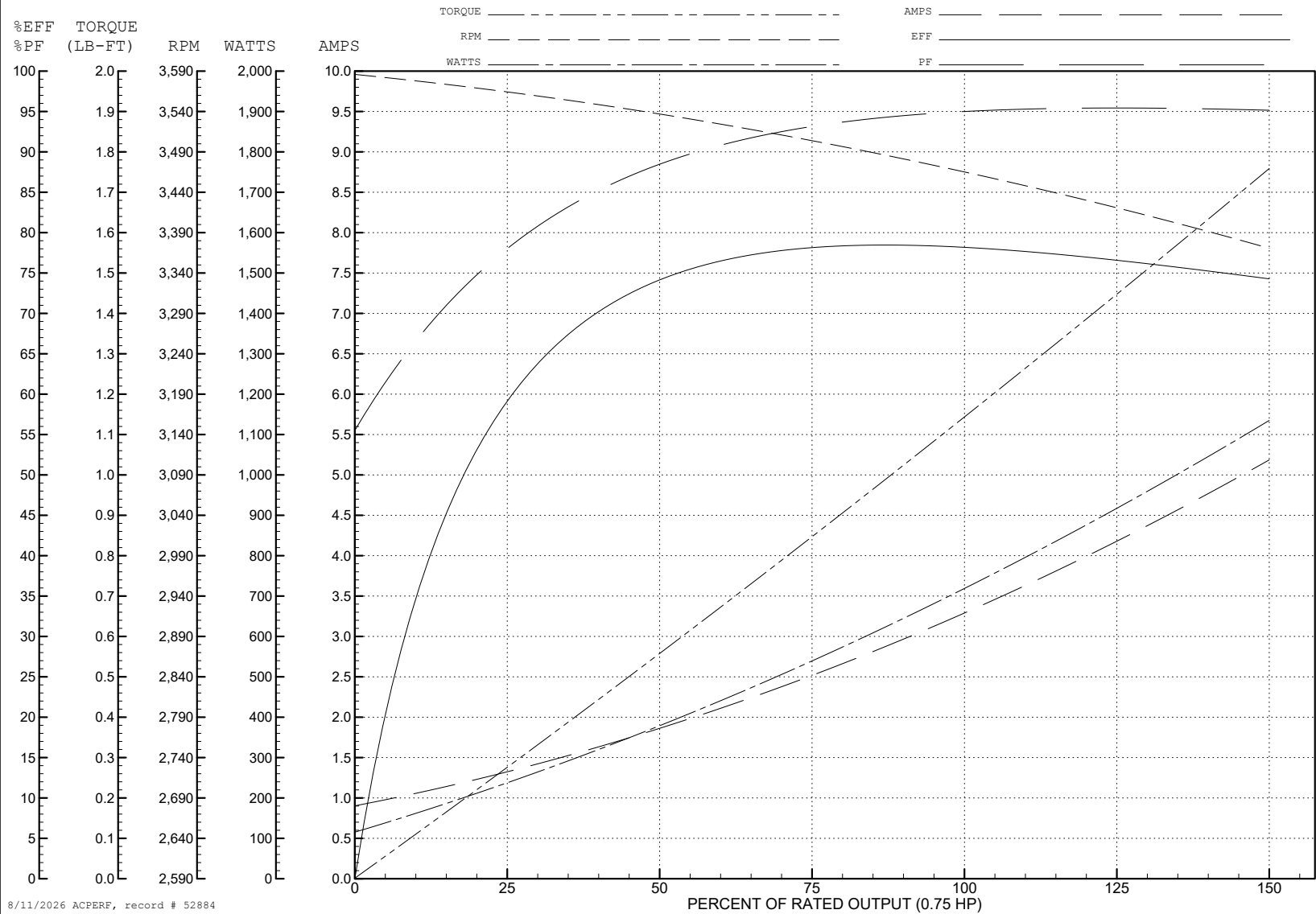
ABB Motors and Mechanical Inc.

WINDING # 34WGR220

Typical performance - not guaranteed values.

0.75 HP 1 PH 60 HZ 3450 RPM 230 V 3428LC

TORQUES (LB-FT): PO=3.88 PU=2.07 LR=3.92 LRA=24.8



AC Induction Motor Performance Data

Record # 52885

Typical performance - not guaranteed values

Winding: 34WGR220-R001			Type: 3428LC		Enclosure: OPEN	
Nameplate Data			115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		.75	Full Load Torque		1.13 LB-FT	
Volts		115/230	Start Configuration		direct on line	
Full Load Amps		6.3/3.3	Breakdown Torque		3.28 LB-FT	
R.P.M.		3450	Pull-up Torque		2.55 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		3.81 LB-FT
NEMA Design Code		N	KVA Code		J	
Service Factor (S.F.)		1.25	Starting Current		49.8 A	
NEMA Nom. Eff.		76.2	Power Factor		95	
Rating - Duty		40C	AMB-CONT		Line-line Res. @ 25°C 0.58846 Ω A Ph 2.1681 Ω B Ph	
S.F. Amps		8.4/4.2	Temp. Rise @ Rated Load		27°C	
			Temp. Rise @ S.F. Load		36°C	

Load Characteristics 115 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	80	89	93	94	95	95	95
Efficiency	60.3	73.2	77.3	78.2	77.3	74.8	77.3
Speed	3570	3543.5	3508.4	3477.4	3436.9	3387.6	3437
Line amperes	2.54	3.7	5.12	6.53	8.27	10.3	8.27

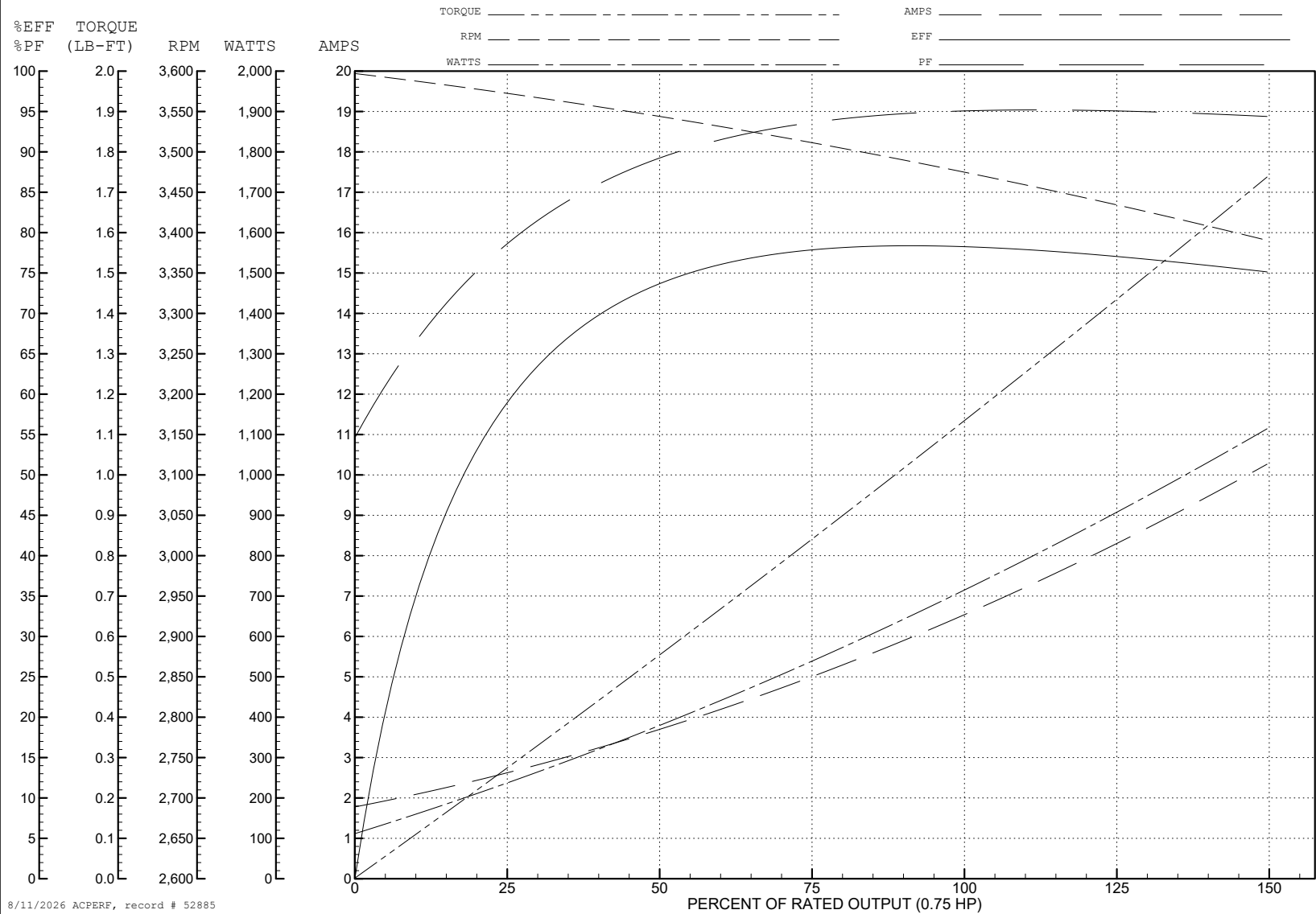
ABB Motors and Mechanical Inc.

WINDING # 34WGR220

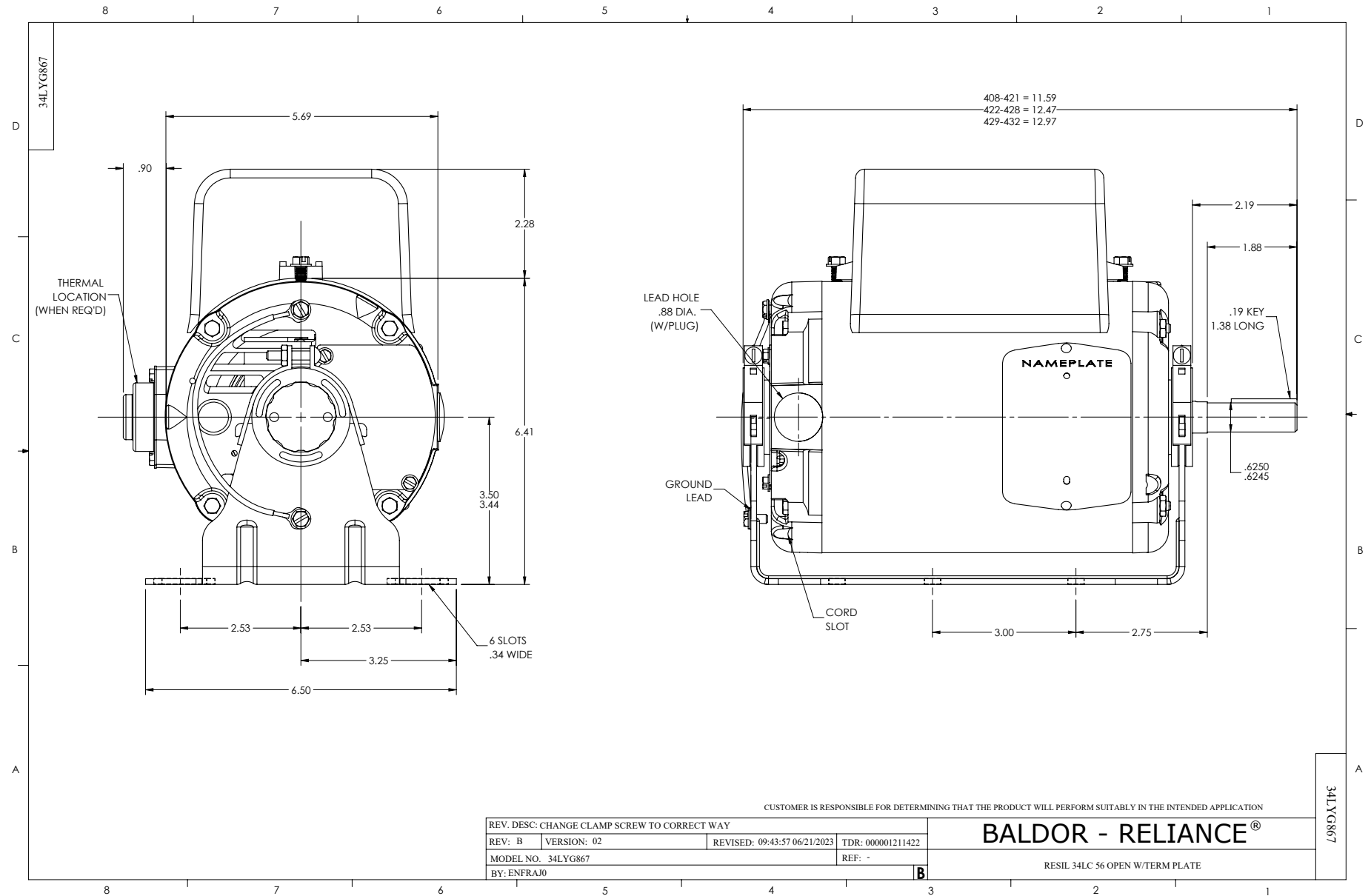
Typical performance - not guaranteed values.

0.75 HP 1 PH 60 HZ 3450 RPM 115 V 3428LC

TORQUES (LB-FT): PO=3.28 PU=2.55 LR=3.81 LRA=49.8



8/11/2026 ACPERF, record # 52885



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