

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										

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

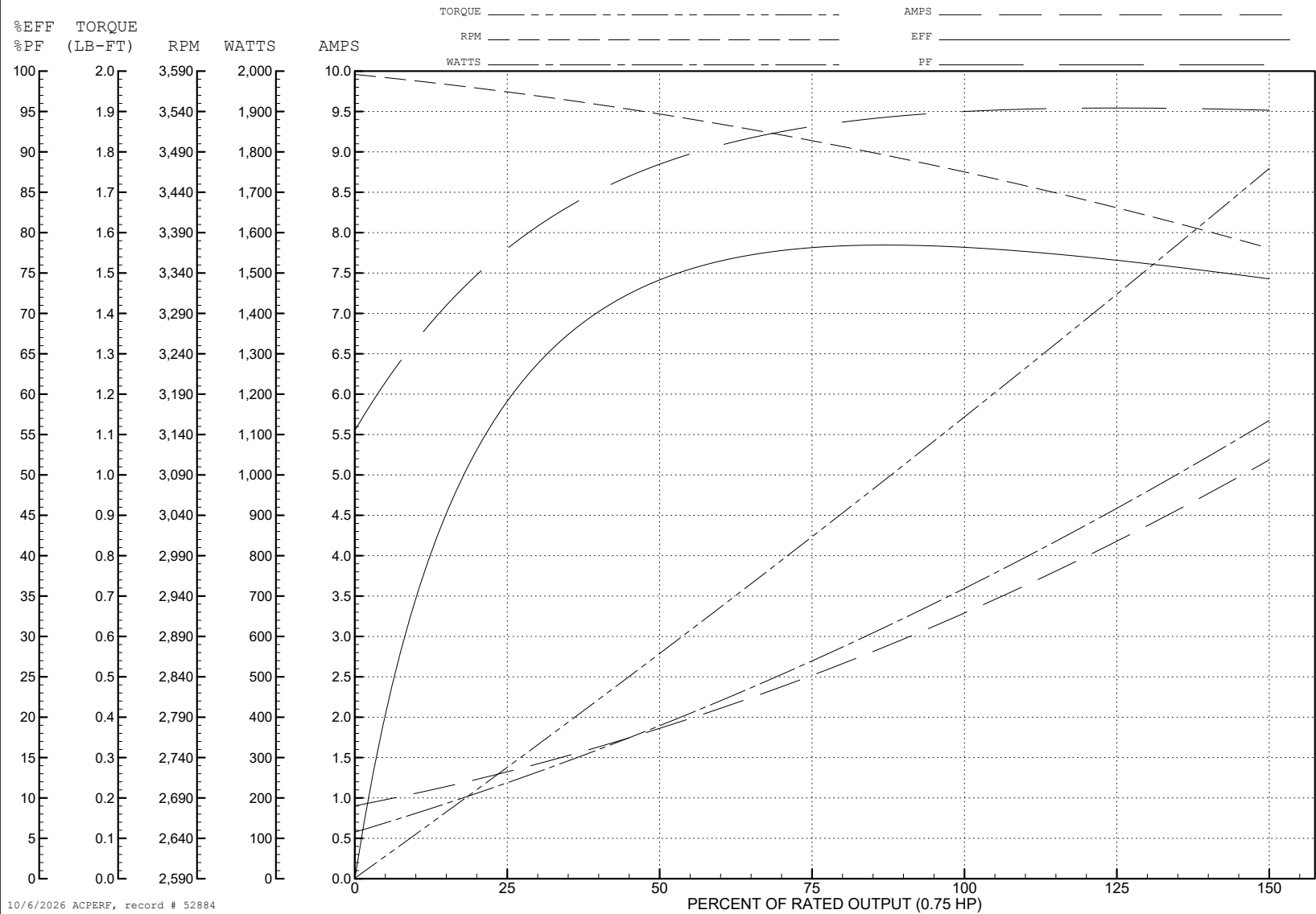
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WINDING # 34WGR220

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		Starting Current	49.8 A
Service Factor (S.F.)		1.25		No-load Current		1.82 A	
NEMA Nom. Eff.		76.2	Power Factor	95	Line-line Res. @ 25°C		0.58846 Ω A Ph 2.1681 Ω B Ph
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	27°C
S.F. Amps		8.4/4.2		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

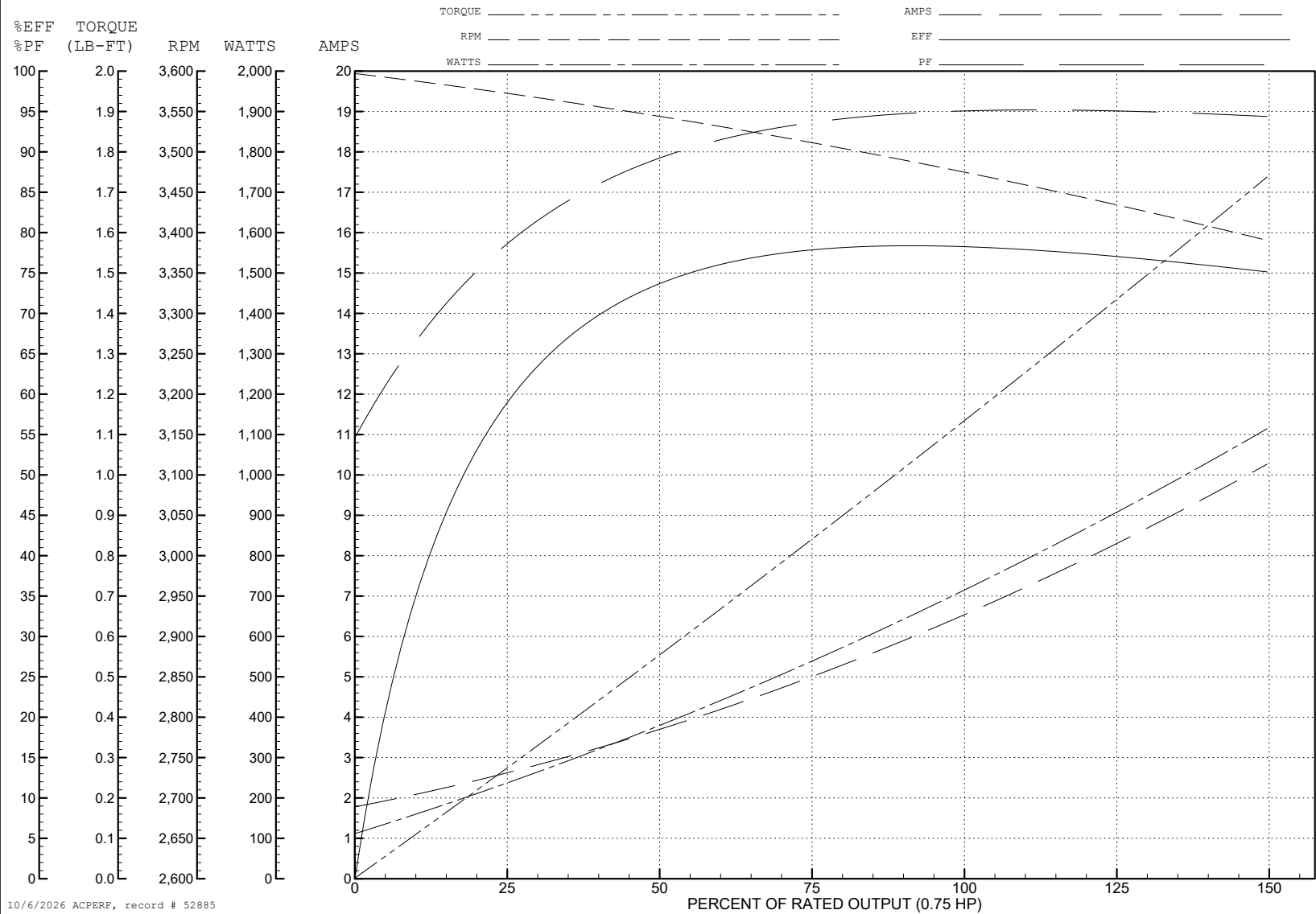
ABB Motors and Mechanical Inc.

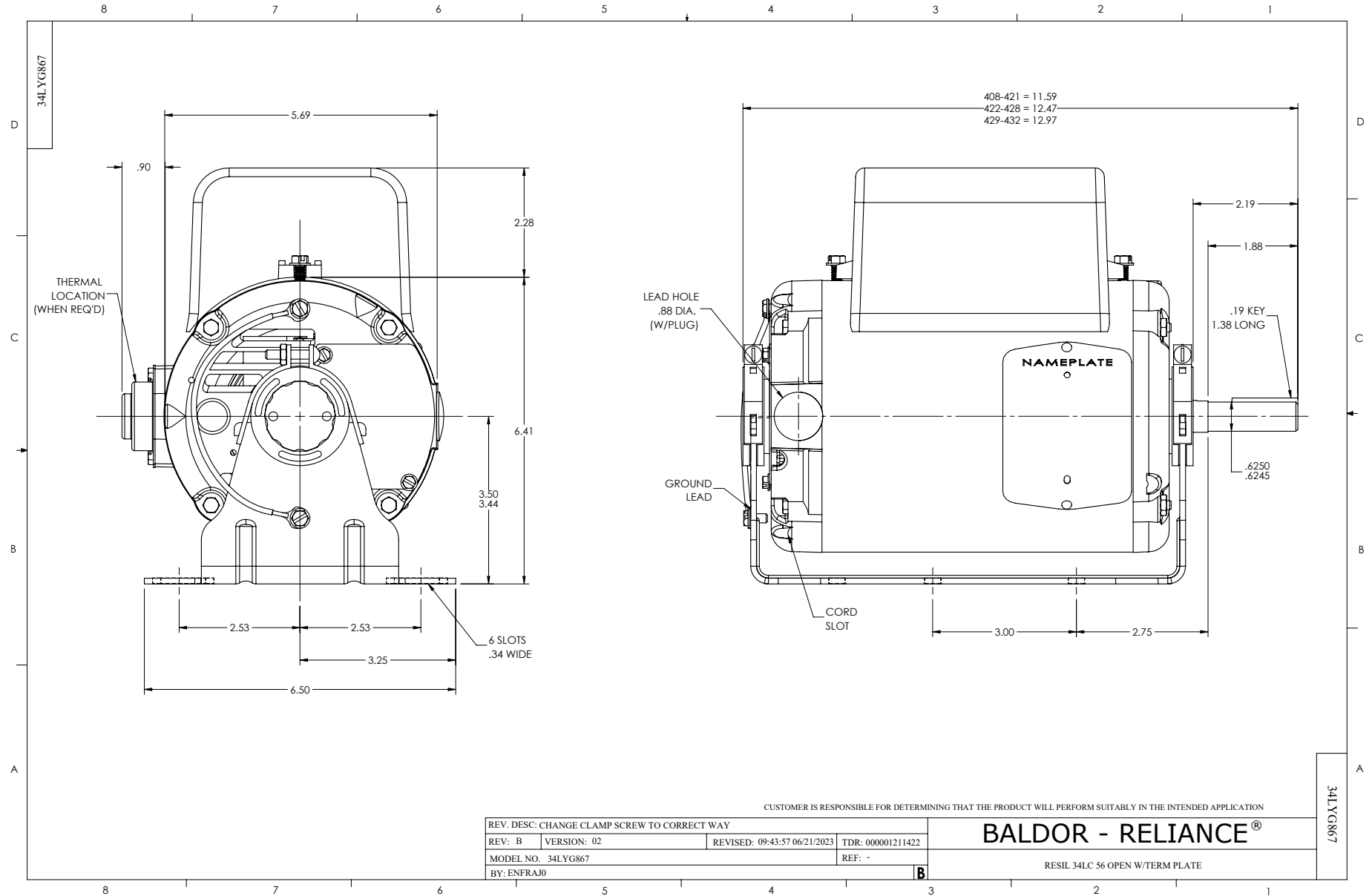
WINDING # 34WGR220

Typical performance - not guaranteed values.

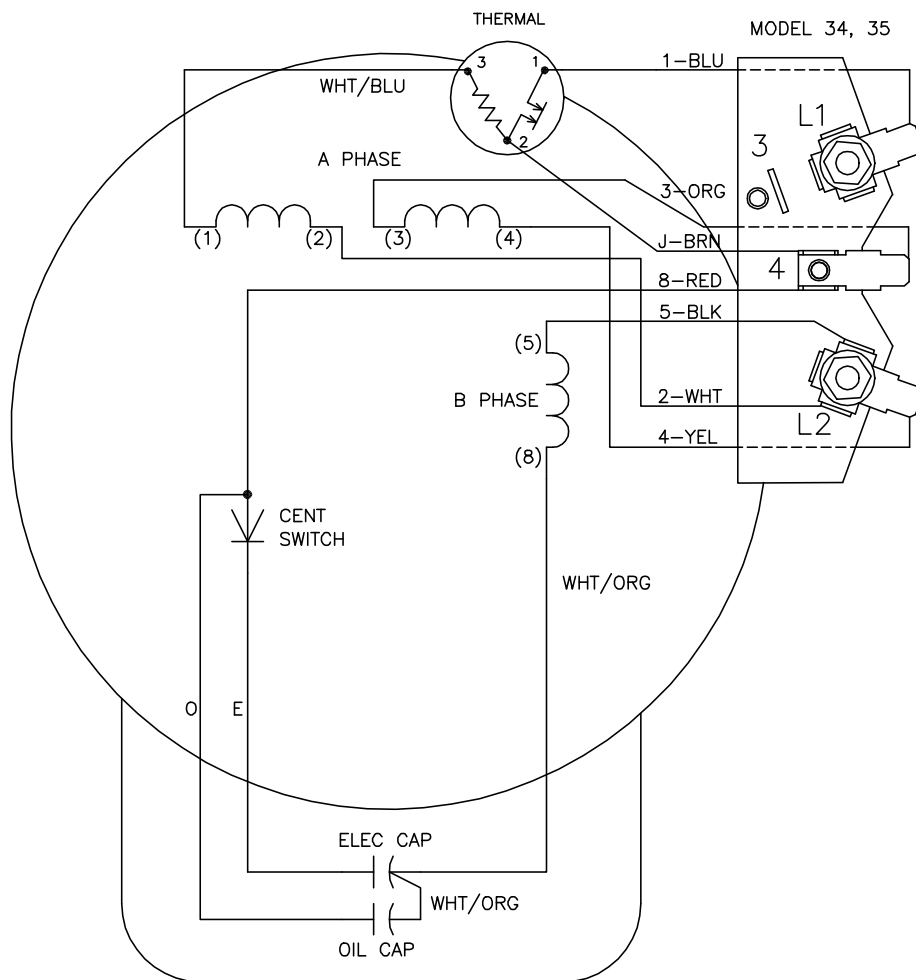
0.75 HP 1 PH 60 HZ 3450 RPM 115 V 3428LC

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





CD0703



NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.
LOW VOLTAGE: CONNECT AS SHOWN.
HIGH VOLTAGE: MOVE LEAD J TO TERM. 3.
MOVE LEAD 2 TO TERM. 4.
2. CONNECTIONS ARE SHOWN FOR STANDARD
ROTATION (CCW FACING END OPPOSITE
SHAFT EXTENSION). INTERCHANGE
LEADS 5 AND 8 TO REVERSE ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN
PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST
ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REMOVE MODEL 17 CONNECTION

REV. LTR: G

VERSION: 02

TDR: 000001218314

FILE: \AAA\00007\140

REVISED: 08:28:11 10/11/2023

BY: ENBRIRO

MTL: -



BALDOR - RELIANCE®

TYPE LC, DV, REV, THERMAL, TERMINAL PLATE

SH 1 of 1

CD0703