ABB BALDOR RELIANCE

Customer information packet

ERL1306A

.75HP, 3450RPM, 1PH, 60HZ, 56, 3428LC, OPEN, F1
Class - None
Division - Not Applicable

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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. @ 25ºC**	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

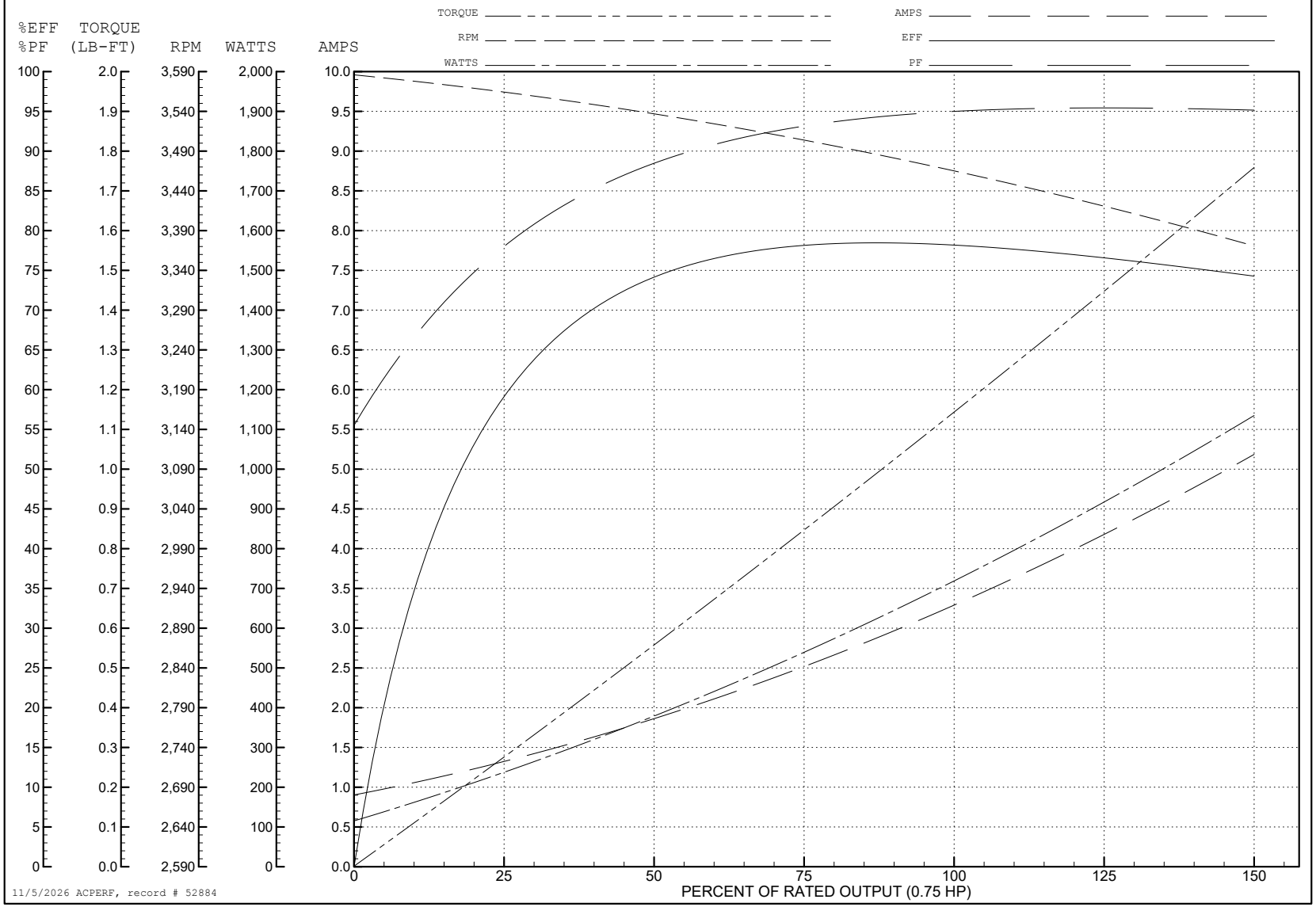
ABB Motors and Mechanical Inc.

WINDING # 34WGR220

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

Typical performance - not guaranteed values.

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



11/5/2026 ACPERF, record # 52884

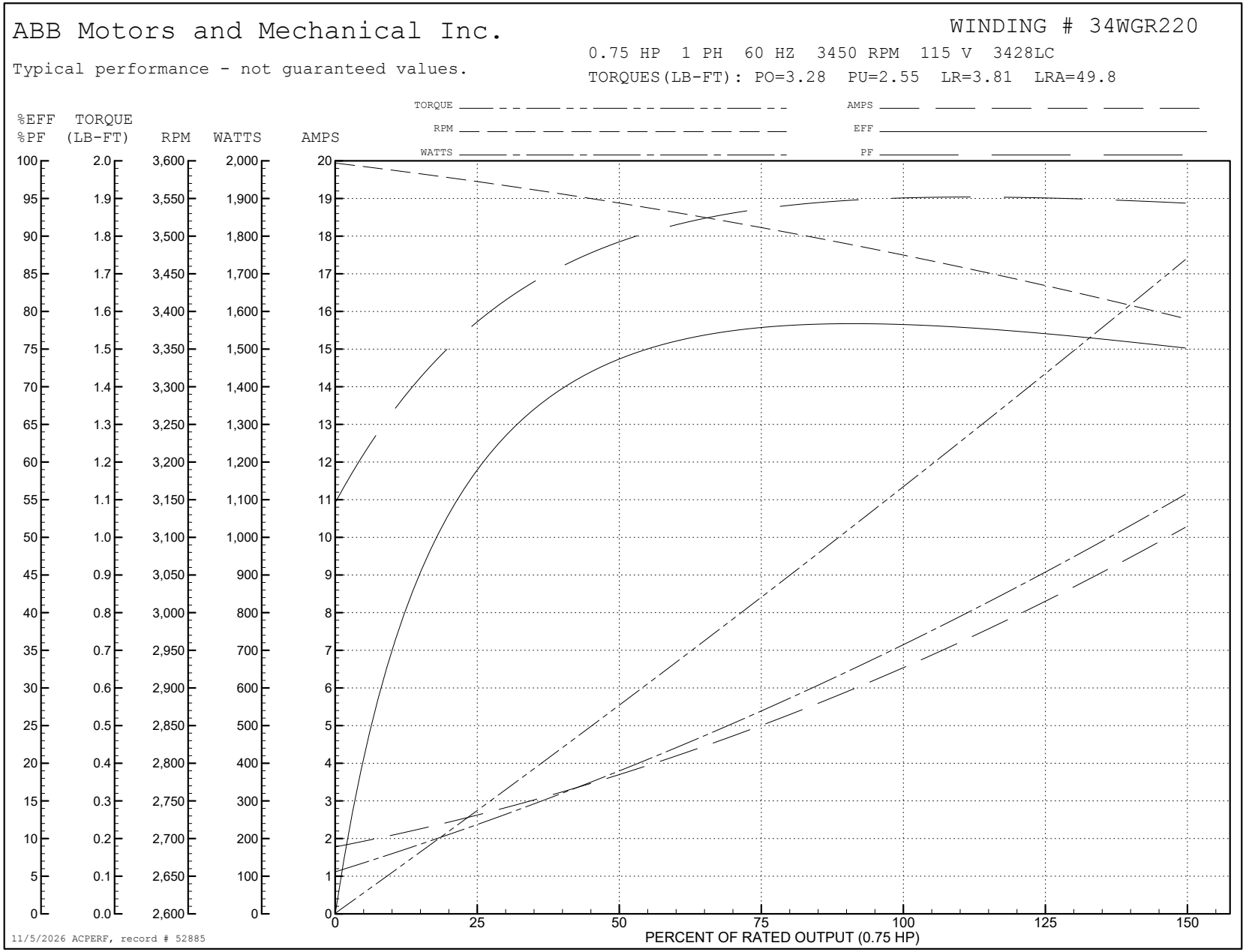
AC Induction Motor Performance Data
Record # 52885
Typical performance - not guaranteed values

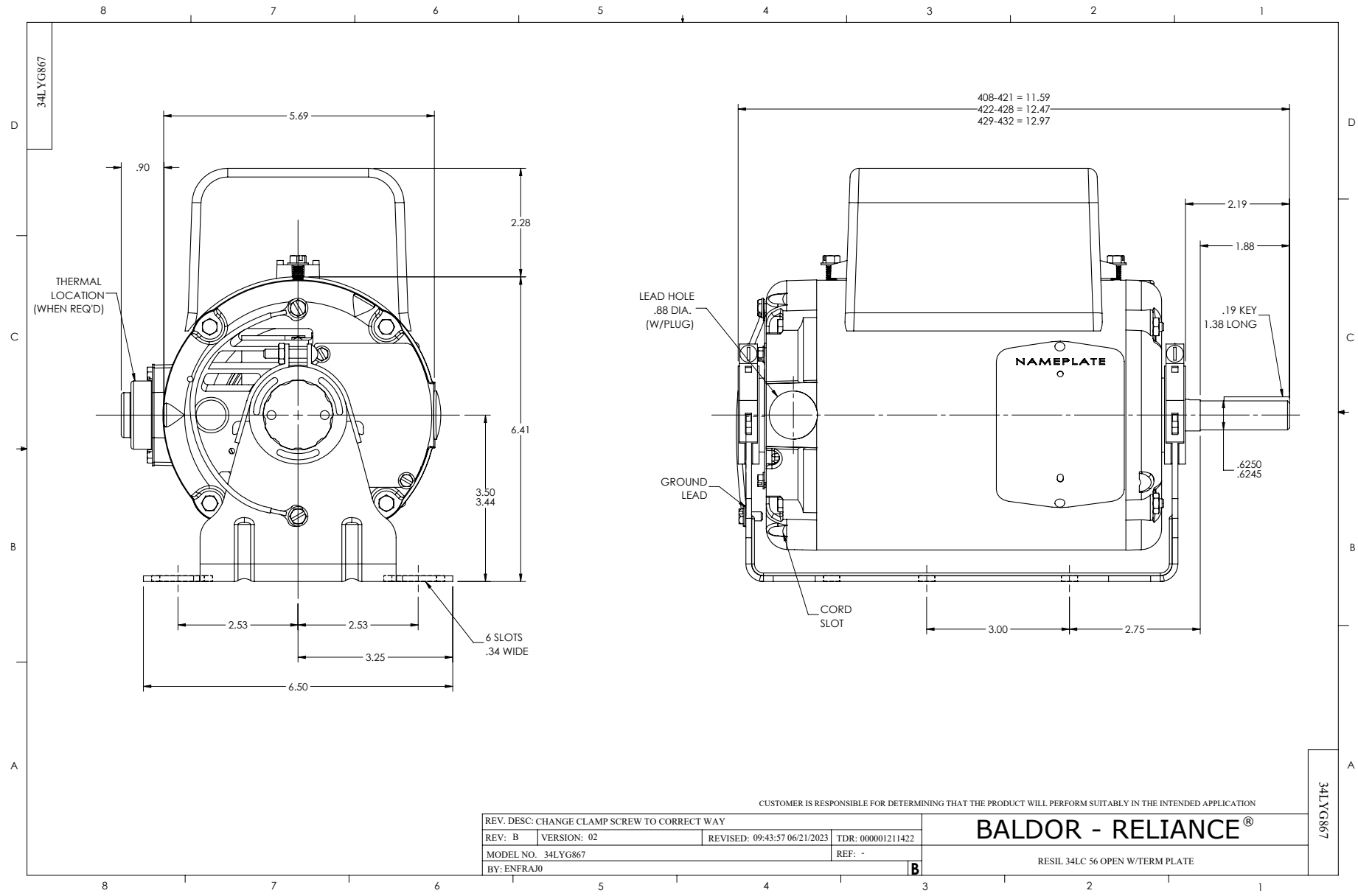
Winding: 34WGR220-R001	**Type:** 3428LC	**Enclosure:** OPEN

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. @ 25ºC**	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

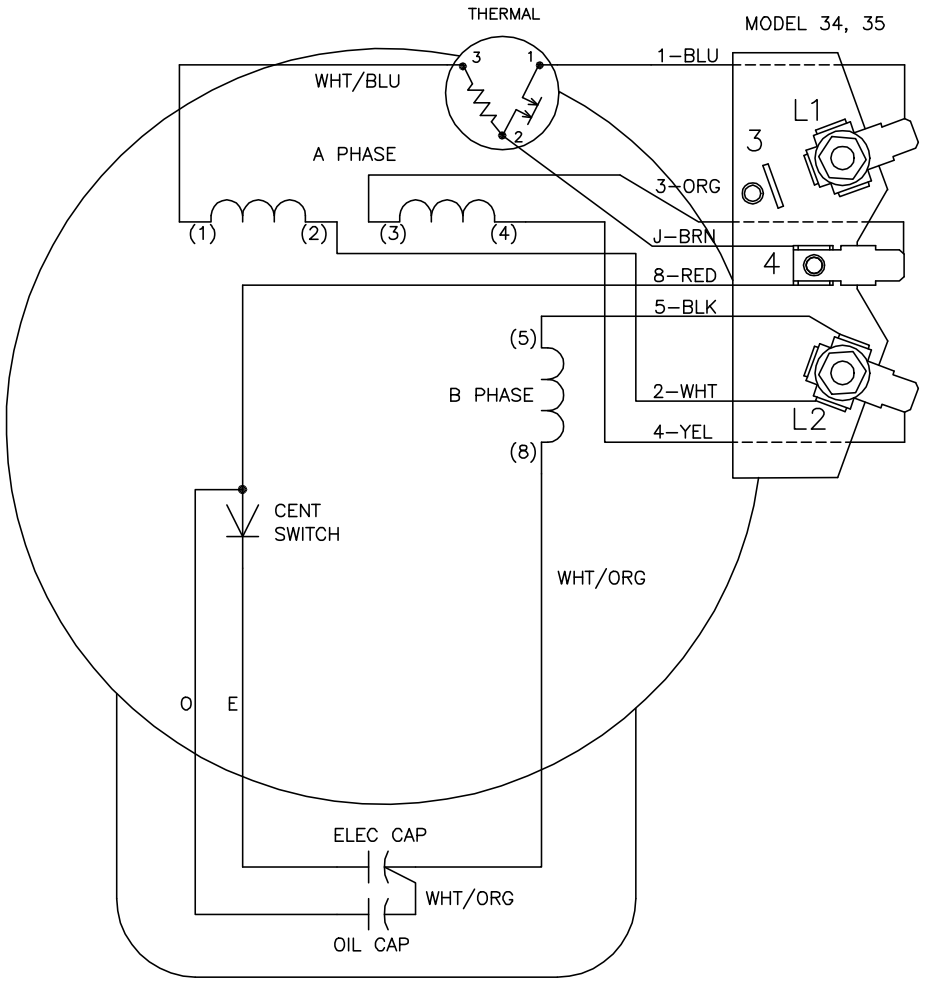
Load Characteristics 115 V, 60 Hz, 0.75 HP

% 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
0.75 HP 1 PH 60 HZ 3450 RPM 115 V 3428LC
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=3.28 PU=2.55 LR=3.81 LRA=49.8
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.75 HP)
11/5/2026 ACPERF, record # 52885


34LYG867
5.69
.90
2.28
THERMAL
LOCATION
(WHEN REQ'D)
6.41
3.50
3.44
2.53
2.53
3.25
6.50
6 SLOTS
.34 WIDE
408-421 = 11.59
422-428 = 12.47
429-432 = 12.97
2.19
1.88
LEAD HOLE
.88 DIA.
(W/PLUG)
.19 KEY
1.38 LONG
NAMEPLATE
.6250
.6245
GROUND
LEAD
CORD
SLOT
3.00
2.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE CLAMP SCREW TO CORRECT WAY
REV: B
VERSION: 02
REVISED: 09:43:57 06/21/2023
TDR: 000001211422
MODEL NO. 34LYG867
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
RESIL 34LC 56 OPEN W/TERM PLATE
34LYG867

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.

CD0703

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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

TYPE LC, DV, REV, THERMAL, TERMINAL PLATE

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