ABB BALDOR RELIANCE

Customer information packet

L3507M

.75HP, 1725RPM, 1PH, 60HZ, 56, 3428LC, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
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	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	115.0 V @ 60 HZ
Agency Approvals	C UR US
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	8.200 A @ 115.0 V
	5.400 A @ 208.0 V
	4.100 A @ 230.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.1 a

Part Detail

Revision	AB
Type	AC
Mech. spec.	34G426
Base	
Status	PRD/A
Elec. spec.	34WGW982
Layout	34LYG426
Eff. date	10-25-2024
CD Diagram	CD0320
Poles	04
Leads	6#18,1#16 #4TH
Proprietary	False
Created date	01-01-0001

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	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3428LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.47 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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	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	Manual Thermal Overload
Winding Thermal 1 Location	SB

Winding Thermal 2	None

Nameplate

NP1257L											
CAT.NO.	L3507M										
SPEC.	34G426W982										
HP	.75										
VOLTS	115/230										
AMP	8.2/4.1										
RPM	1725										
FRAME	56		**HZ**	60		**PH**	1				
SER.F.	1.25	**CODE**	L	**DES**	N	**CL**	B				
NEMA-NOM-EFF	74	**PF**	80								
RATING	40C AMB-CONT										
CC											
DE	6203	**ODE**	6203								
ENCL	TEFC	**SN**									
	SFA 9.8/4.9										

Parts List

Part number	Description	Quantity
SA005891	SA 34G426W982	1.000 ea
RA002637	RA 34G426W982	1.000 ea
OC3020F12SP	CAPACITORS 20 MFD 370 VAC	1.000 ea
EC1460A05SP	ELEC CAP, 460-552 MFD, 125V, 2.06D X 3.	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
34CB3002A	CB CAST W/.88 DIA HOLE	1.000 ea
34GS1029A01	GASKET, CONDUIT BOX	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
34EP3102A01SP	FR ENDPLATE, MACH	1.000 ea
34CB3801	CAPACITOR BOX, DIE CAST	1.000 ea
34GS3002	GASKET, CAPACITOR BOX	1.000 ea
34GS5003A01	FOAM SLEEVE, ID = 2 1/16" X 4 3/8"	1.000 ea
51XB1214A08	12-14 X 1/2HX WS SL SR TYBX	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3102A02SP	FR/PU ENDPLATE, MACH	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
34FH4002A01SP	IEC FH NO GREASER PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
34CB4517	CB LID 4 MTG HOLES .22 DIA STAMPED, FOR	1.000 ea
34GS1031A01	GASKET, FLAT CONDUIT BOX LID (LEXIDE)	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
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
SP5051B17	MDL 34 TORQ STAT SW,TYPE LC, STD F1 & F2	1.000 ea
HA3100A37	THRUBOLT 10-32 X 8.500	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LB1087	LABEL,MANUAL RESET (ROLL LABEL)	1.000 ea
LC0269	1PH,DV,REV,THERMAL,7 LD,L.AMP THRU HTR H	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea

Accessories

Part number	Description	Multiplier
34-171	C FACE KIT	A8

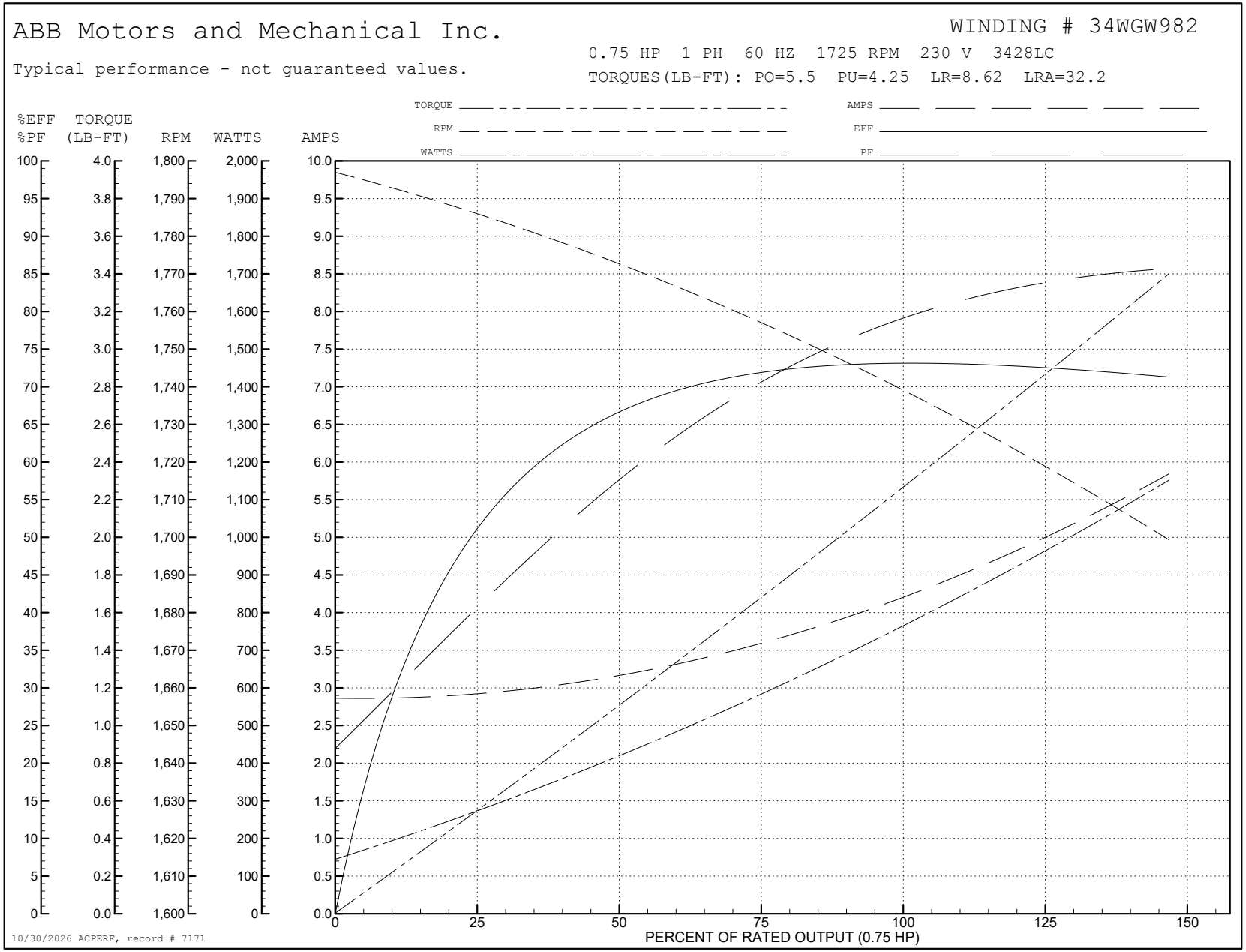
AC Induction Motor Performance Data
Record # 7171
Typical performance - not guaranteed values

Winding: 34WGW982-R001	**Type:** 3428LC	**Enclosure:** TEFC

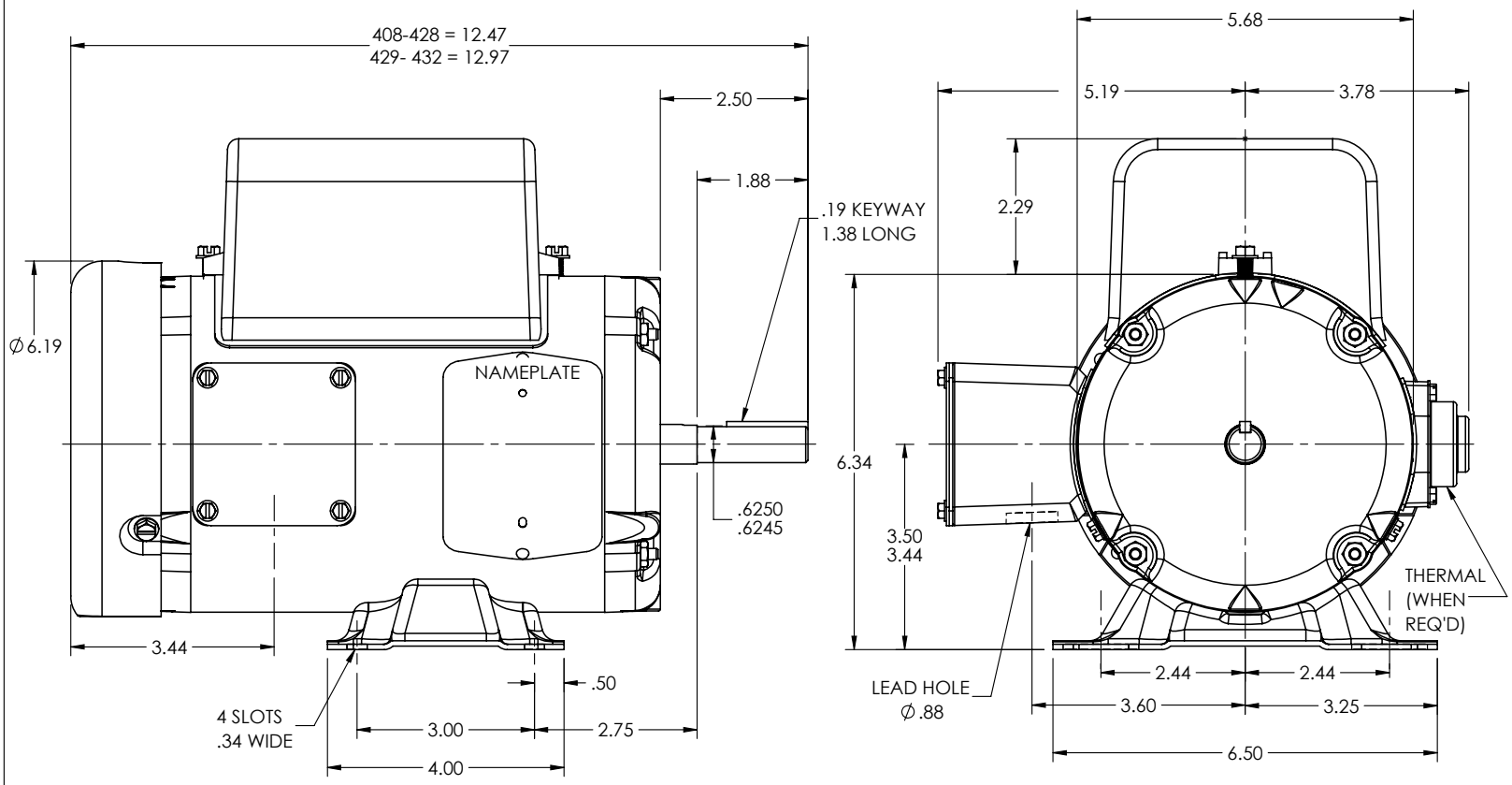
Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	2.27 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			8.2/4.1	**Breakdown Torque**	5.5 LB-FT
R.P.M.			1725	**Pull-up Torque**	4.25 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	8.62 LB-FT
NEMA Design Code	N	**KVA Code**	L	**Starting Current**	32.2 A
Service Factor (S.F.)			1.25	**No-load Current**	2.87 A
NEMA Nom. Eff.	74	**Power Factor**	80	**Line-line Res. @ 25ºC**	3.08 Ω A Ph 1.75 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	62°C
S.F. Amps			9.8/4.9	**Temp. Rise @ S.F. Load**	80°C

Load Characteristics 230 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	40	59	70	78	83	86	83
Efficiency	50.3	67	71.8	73.6	72.9	71	72.9
Speed	1785	1770	1757	1740	1721	1698	1721
Line amperes	2.92	3.16	3.64	4.2	4.97	5.84	4.97


ABB Motors and Mechanical Inc.
WINDING # 34WGW982
Typical performance - not guaranteed values.
0.75 HP 1 PH 60 HZ 1725 RPM 230 V 3428LC
TORQUES(LB-FT): PO=5.5 PU=4.25 LR=8.62 LRA=32.2
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.75 HP)
10/30/2026 ACPERF, record # 7171

34LYG426



34LYG426

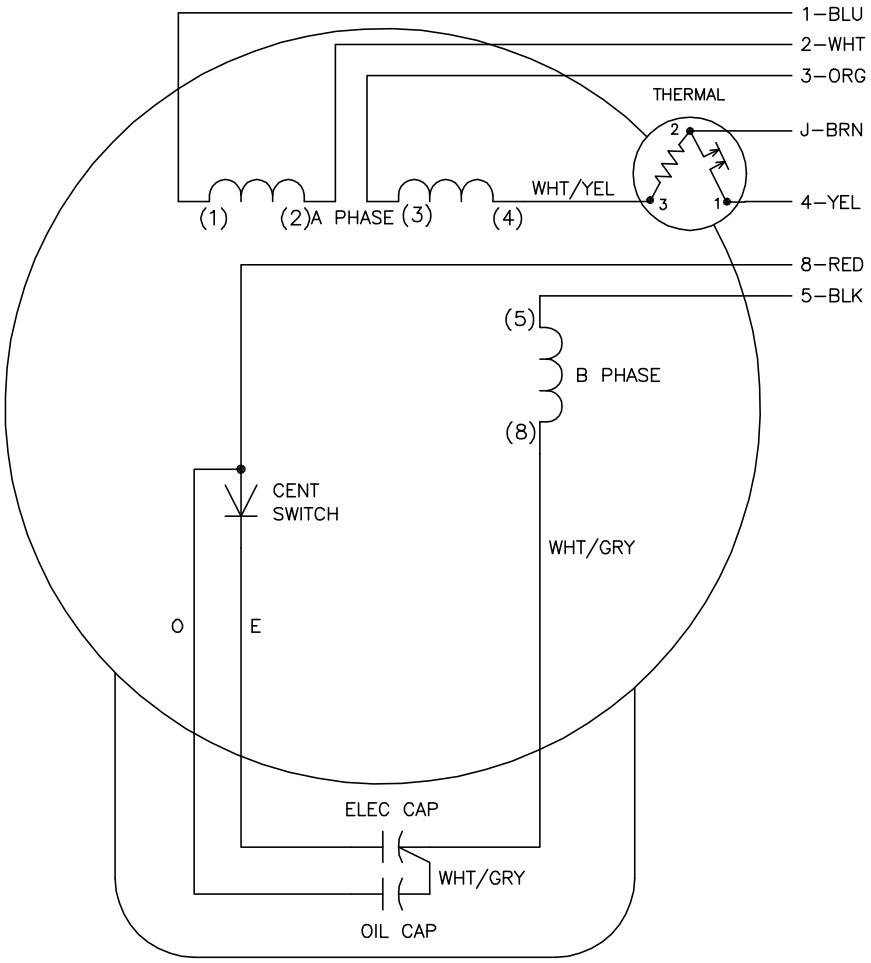
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: LOAD TO SOLIDWORKS			
REV: C	VERSION: 02	REVISED: 04:08:09 08/09/2022	TDR: 000001194274
34LYG426	MODEL NO. 34LYG426		REF: -
	BY: ENFRAJ0		

BALDOR - RELIANCE®

SPL HORZ 34LC NEMA 56 TEFC

CD0320



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1,8	4	2,3,5	J
HIGH OPP	1,5	4	2,3,8	J
LOW STD	1,3,8	4	–	2,J,5
LOW OPP	1,3,5	4	–	2,J,8

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0320

REV. DESC: ADD INTERNAL CONNECTION TO HELP MANUFACTURING		
REV. LTR: G	VERSION: 01	TDR: 000000941594
FILE: \AAA\00007\422	REVISED: 02:21:00 08/28/2015	BY: ENALEMO
MTL: –		

BALDOR

TYPE LC, DV, REV, THERMAL, B PH AMPS THRU HTR HVC, 7 LEAD

SH 1 of 1