ABB BALDOR RELIANCE

Customer information packet

VBL3507

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

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Specifications

Enclosure	TEFC
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	.750 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	UR
	CSA
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
Brake Torque	6.0 lb-ft
Current @ Voltage	4.200 A @ 230.0 V
	5.400 A @ 208.0 V
	8.400 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Brake Mounting
Front Shaft Indicator	None

Part Detail

Revision	AD
Type	AC
Mech. spec.	34G457
Base	
Status	PRD/A
Elec. spec.	34WGY094
Layout	34LYG457
Eff. date	12-19-2025
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
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	3428LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.82 IN
Power Factor	78
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	1.25
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	None
Winding Thermal 2	None

Nameplate

NP1256L									
CAT.NO.	VBL3507								
SPEC.	34G457Y094-C								
HP	.75								
VOLTS	115/230								
AMP	8.4/4.2								
RPM	1725								
FRAME	56C	**HZ**	60			**PH**	1		
SER.F.	1.25	**CODE**	J	**DES**	N	**CLASS**	F		
NEMA-NOM-EFF	72	**PF**	78						
RATING	40C AMB-CONT								
CC									
DE	6203	**ODE**	6203						
ENCL	TEFC	**SN**							
	SFA 10/5								

Parts List

Part number	Description	Quantity
SA079727	SA 34G457Y094-C	1.000 ea
RA073152	RA 34G457Y094-C	1.000 ea
OC3020F12SP	CAPACITORS 20 MFD 370 VAC	1.000 ea
EC1270A02SP	ELEC CAP, 270-324 MFD, 125V, 1.48D 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
34EP3900T09	FR ENDPLATE, MACH	1.000 ea
HA2001A01	SPACER, .218 ID X .250 LG	2.000 ea
11XT0832A12	8-32 X 3/4 HX WSHD SLTD, TY23	2.000 ea
34CB3801	CAPACITOR BOX, DIE CAST	1.000 ea
34GS3002	GASKET, CAPACITOR BOX	1.000 ea
51XB1214A08	12-14 X 1/2HX WS SL SR TYBX	2.000 ea
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	3.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3300A24SP	PU ENDPLATE, MACH	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
34FN3002A03	EXTERNAL FAN, PLASTIC, .500 HUB I.D. W/5	1.000 ea
HW2500A13	KEY, USA #605, WOODRUFF	1.000 ea
34FH4002A05	IEC FH W/DEEPER DIMPLES FOR BRAKE COVER,	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
LB1185	LABEL,BRAKE CONNECTION (ON ROLLS)	1.000 ea

SP5051B17	MDL 34 TORQ STAT SW,TYPE LC, STD F1 & F2	1.000 ea
34GS5003A01	FOAM SLEEVE, ID = 2 1/16" X 4 3/8"	3.000 ea
HA3100A45	THRUBOLT 10-32 X 8.875	4.000 ea
48BK7101BP-D	DRILL BRAKE COVER	1.000 ea
WD4006C05	ORANGE, WIRENUT, G-B #13-003 ORGSIZE 73B	2.000 ea
LC0001A01	CONN LABEL / WARNING LABEL (LC0001 / LB1	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
35PA1007	PKG GRP, PRINT PK1034A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
PK3083	STYROFOAM PACKING CRADLE	1.000 ea
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea

AC Induction Motor Performance Data
Record # 7788
Typical performance - not guaranteed values

Winding: 34WGY094-R001	**Type:** 3428LC	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	2.25 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			8.4/4.2	**Breakdown Torque**	5.7 LB-FT
R.P.M.			1725	**Pull-up Torque**	5 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	6.9 LB-FT
NEMA Design Code	N	**KVA Code**	J	**Starting Current**	24.7 A
Service Factor (S.F.)			1.25	**No-load Current**	2.8 A
NEMA Nom. Eff.	72	**Power Factor**	78	**Line-line Res. @ 25ºC**	3.22 Ω A Ph 1.76 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	71°C
S.F. Amps			10/5	**Temp. Rise @ S.F. Load**	89°C

Load Characteristics 230 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	43	57	70	78	82	86	82
Efficiency	50.2	66.1	71.1	72.3	72	68.6	72
Speed	1780	1766	1749	1729	1707	1675	1707
Line amperes	2.9	3.2	3.7	4.3	5.1	6.2	5.1

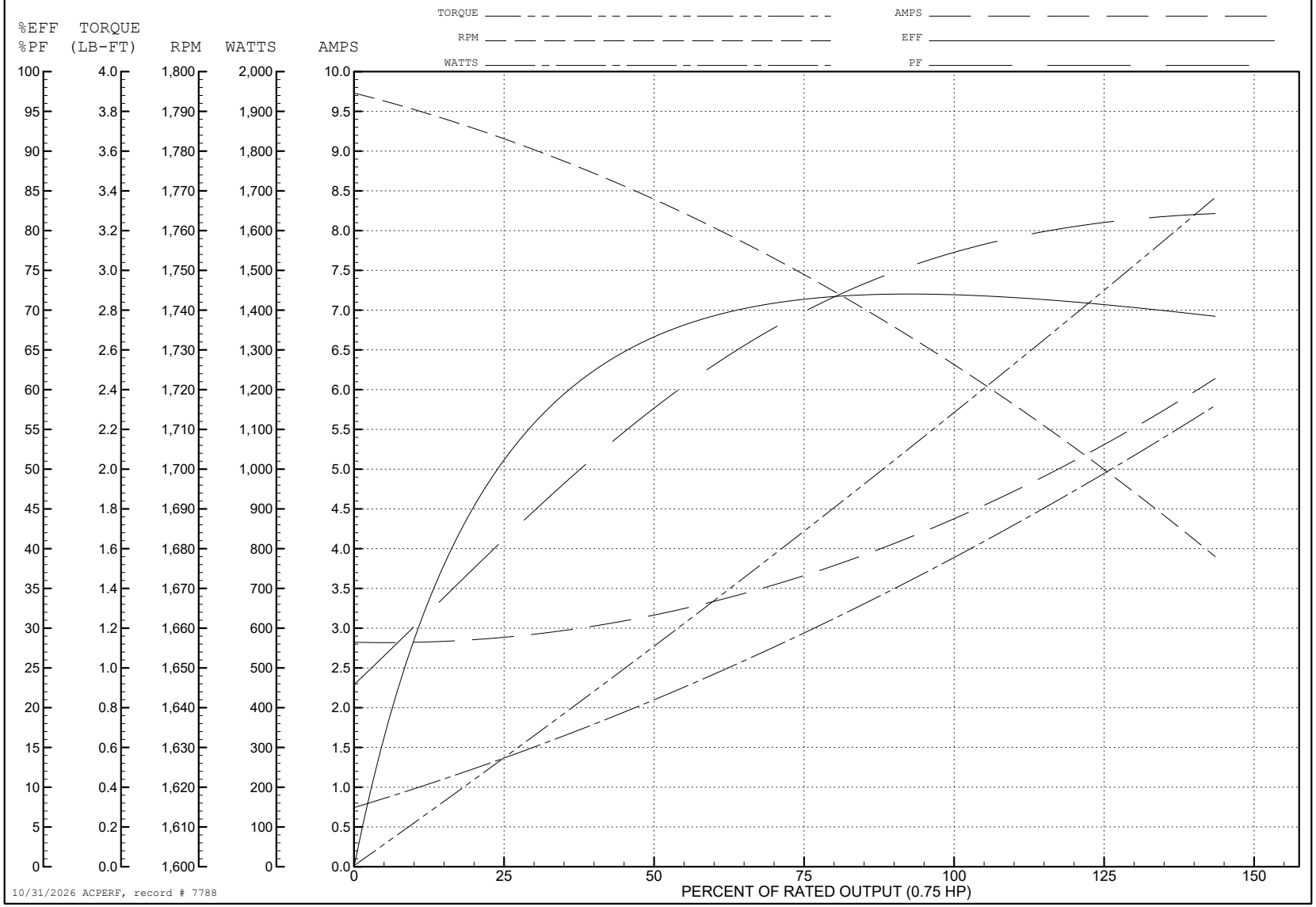
ABB Motors and Mechanical Inc.

WINDING # 34WGY094

0.75 HP 1 PH 60 HZ 1725 RPM 230 V 3428LC

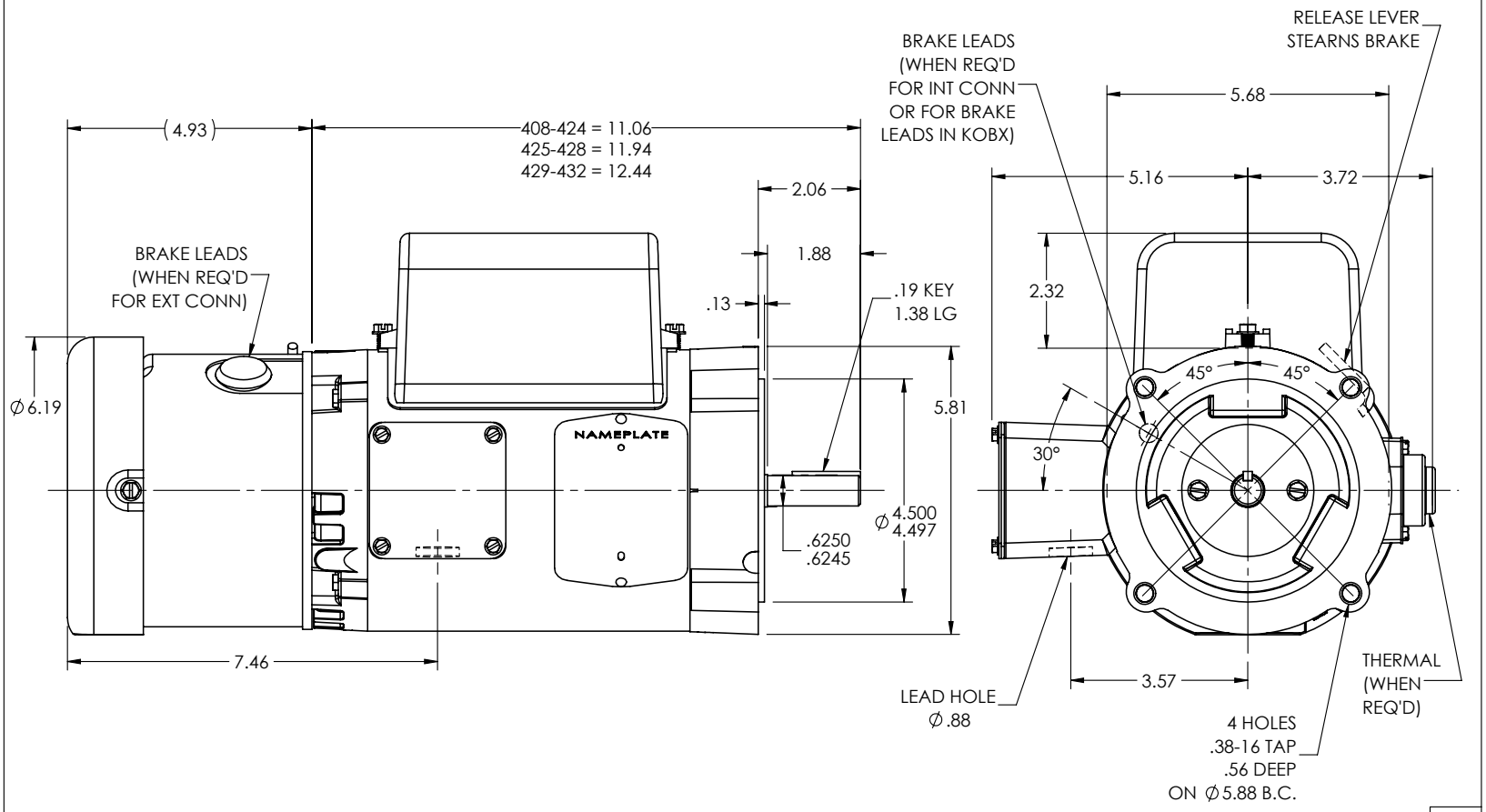
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=5.7 PU=5 LR=6.9 LRA=24.7



10/31/2026 ACPERF, record # 7788

34LYG457



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

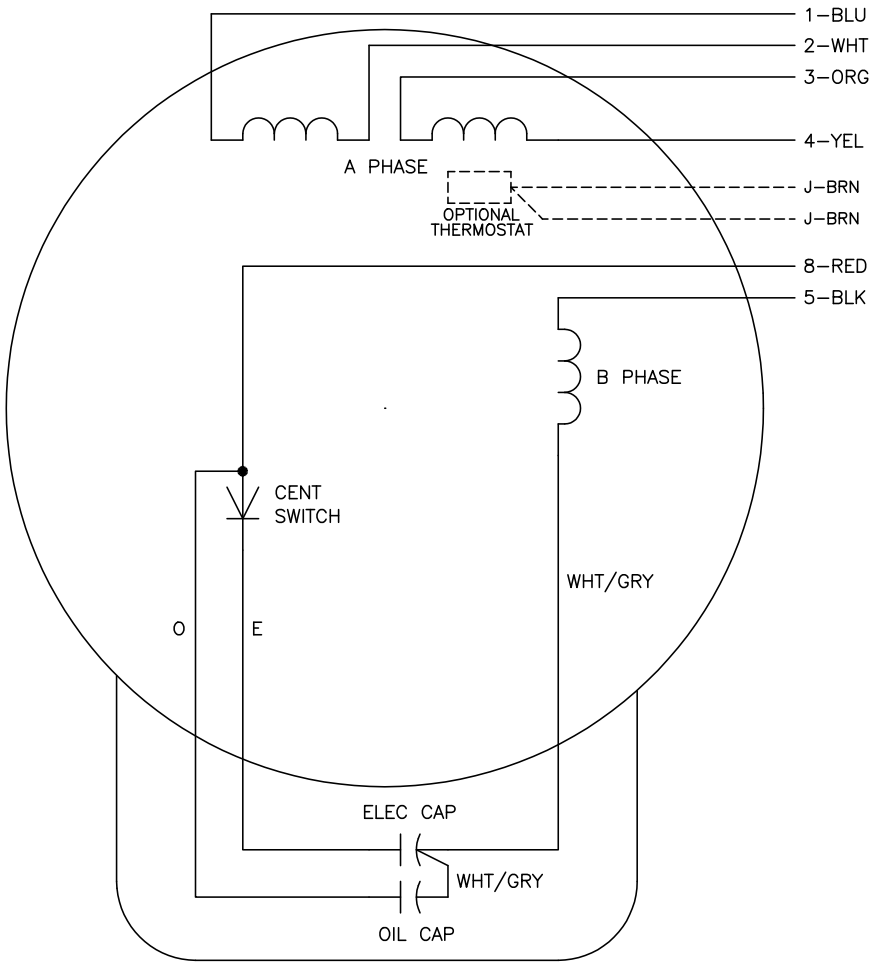
REV. DESC: LOAD TO SOLIDWORKS - REV E			
REV: F	VERSION: 04	REVISED: 03:31:04 04/21/2023	TDR: 000001201165
34LYG457	MODEL NO. 34LYG457		REF: -
	BY: ENFRAJ0		

BALDOR - RELIANCE®

SPL VERT TEFC 34LC NEMA 56C W/BRAKE

34LYG457

CD0055



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

NOTES:

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

CD0055

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:17	TDR: 0178636
CD0055		FILE: AAA00007414	MDL: –
		MTL: –	TYPE LC, DV, REV, 6 LEADS