

ABB BALDOR RELIANCE III

Customer information packet

JL3405A

.33HP, 3450RPM, 1PH, 60HZ, 56J, 3416L, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56J
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	.330 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	CSA UR
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
Current @ Voltage	6.000 A @ 115.0 V 3.000 A @ 230.0 V 3.000 A @ 208.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
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	3.0 a

Part Detail

Revision	Y
Type	AC
Mech. spec.	34-3099
Base	
Status	PRD/A
Elec. spec.	34WGX609
Layout	34LY3099
Eff. date	11-06-2024
CD Diagram	CD0094
Poles	02
Leads	4#18 A&J,1#16 #4TH
Proprietary	False
Created date	01-01-0001

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 18 AWG, A&J
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3416L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.85 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.75
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Fixed Opposite Standard
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

Nameplate

NP1257L											
CAT.NO.	JL3405A										
SPEC.	34-3099X609										
HP	.33										
VOLTS	115/230										
AMP	6/3										
RPM	3450										
FRAME	56J			HZ		60		PH		1	
SER.F.	1.75	CODE	M	DES	N	CL	B				
NEMA-NOM-EFF		PF									
RATING	40C AMB-CONT										
CC											
DE	6203		ODE		6203						
ENCL	TEFC	SN									
	SFA 7.4/3.7										

Parts List

Part number	Description	Quantity
SA018265	SA 34-3099X609	1.000 ea
RA014418	RA 34-3099X609	1.000 ea
EC1130A02SP	ELEC CAP, 130-156 MFD, 125V, 1.48D X 3.3	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
34CB4800SP	CAPACITOR COVER, STAMPED PRIMED	1.000 ea
34GS3000SP	GASKET, CAPACITOR BOX	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 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
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
34FH4002A03SP	IEC FH NO GREASER W/.88 DIA SHAFT HOLE,	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
WD4100A81	CAPLUG BPF-7/8, FOR .86-.88 HOLE	1.000 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
RM1010A01	35-968-1 VINYL CLS	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
SP5051B59	MDL 34 TORQ STAT SW,TYPE L	1.000 ea
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0031	CONNECTION LABEL	1.000 ea

NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
34PA1002	PKG GRP, PRINT PK1001A01	1.000 ea
PK3083	STYROFOAM PACKING CRADLE	1.000 ea
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea

Accessories

Part number	Description	Multiplier
34-171	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 57252

Typical performance - not guaranteed values

Winding: 34WGX609-R003				Type: 3416L		Enclosure: TEFC		
Nameplate Data				230 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.33		Full Load Torque		0.51 LB-FT		
Volts		115/230		Start Configuration		direct on line		
Full Load Amps		6/3		Breakdown Torque		1.9 LB-FT		
R.P.M.		3450		Pull-up Torque		1.2 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		1.4 LB-FT		
NEMA Design Code		N	KVA Code	M		Starting Current		16 A
Service Factor (S.F.)		1.75		No-load Current		2.4 A		
NEMA Nom. Eff.		0	Power Factor	0		Line-line Res. @ 25°C		4.84 Ω A Ph 3.7 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load				
S.F. Amps		7.4/3.7		Temp. Rise @ S.F. Load				

Load Characteristics 230 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	40	49	57	64	70	75	82
Efficiency	28.6	44.7	52.4	60	60.3	61.9	60.9
Speed	3560	3544	3527	3508	3483	3460	3433
Line amperes	2.5	2.6	2.7	2.9	3.15	3.4	3.65

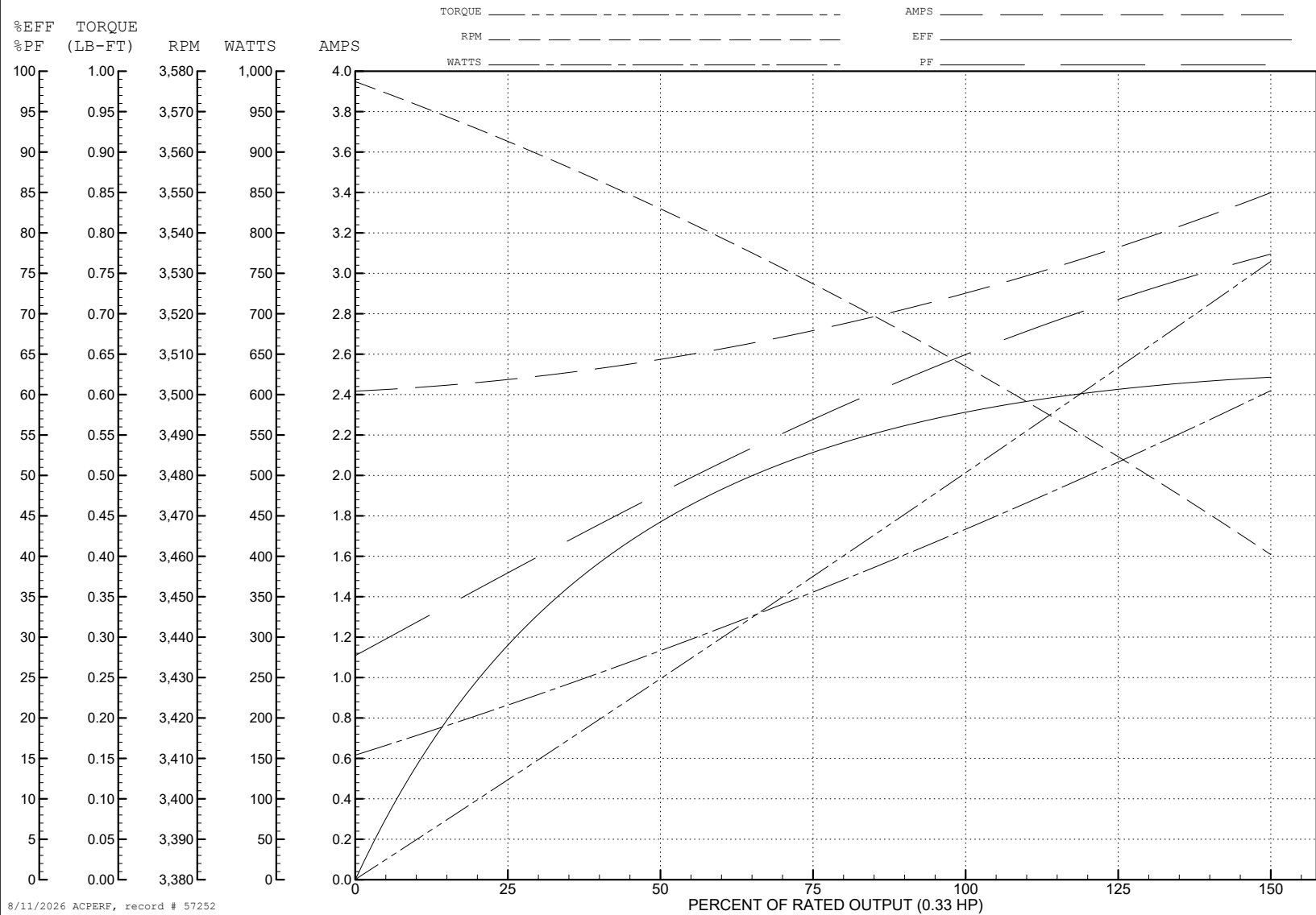
ABB Motors and Mechanical Inc.

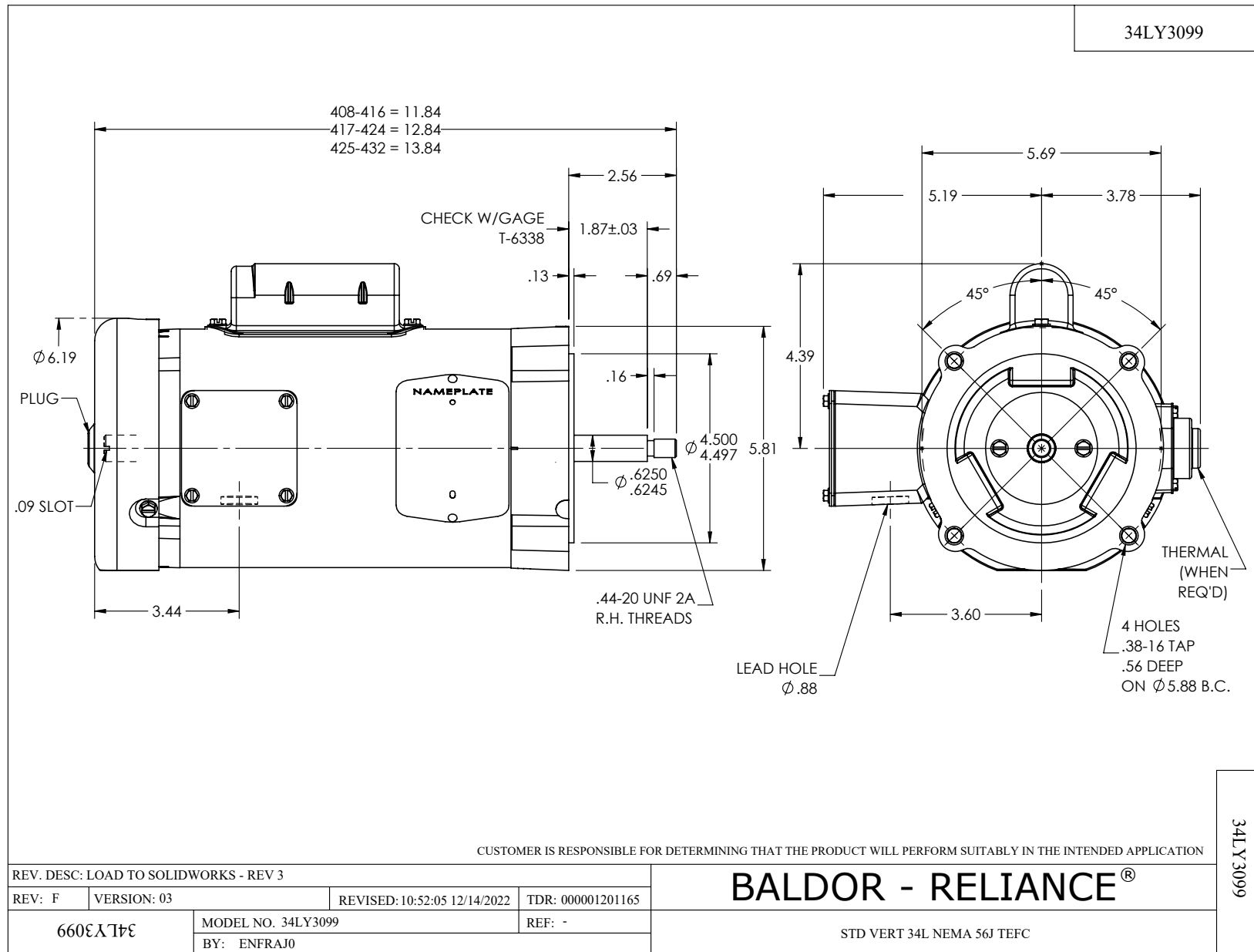
WINDING # 34WGX609

Typical performance - not guaranteed values.

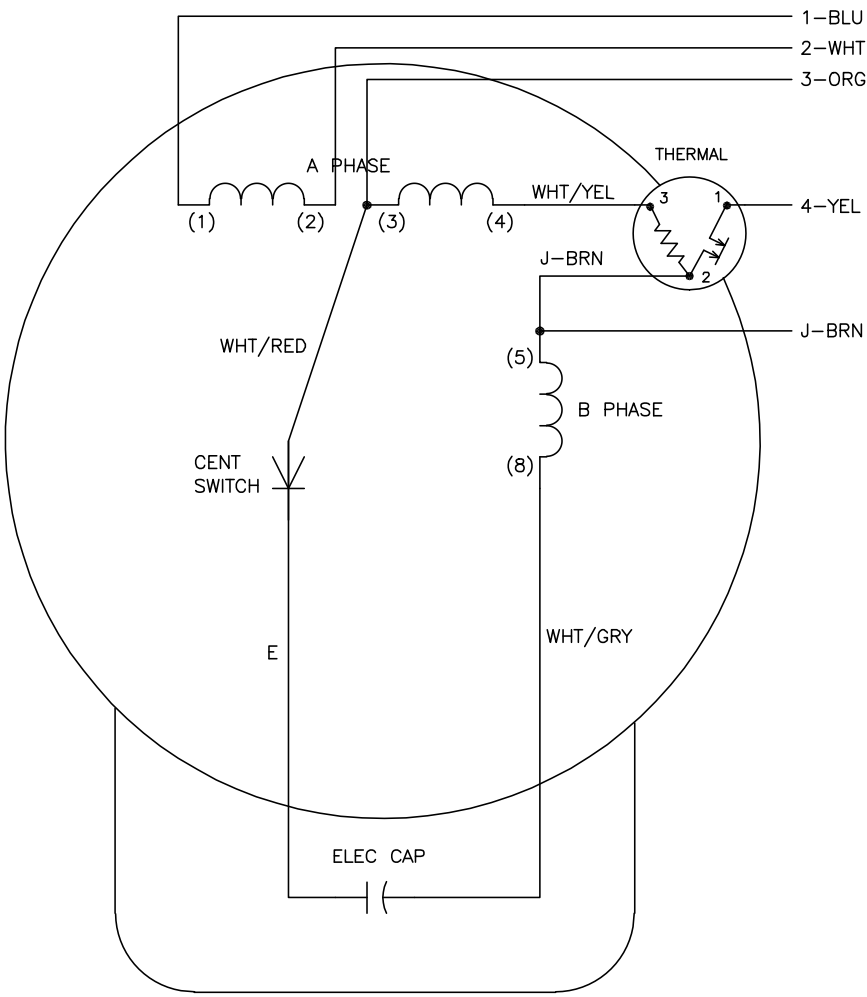
0.33 HP 1 PH 60 HZ 3450 RPM 230 V 3416L

TORQUES (LB-FT): PO=1.9 PU=1.2 LR=1.4 LRA=16





CD0094



	LINE A	LINE B	JOIN	JOIN
HIGH	1	4	2,3	J
LOW	1,3	4	2,J	—

- NOTES:
- 1. CONNECTIONS ARE SHOWN FOR CCW ROTATION FACING END OPPOSITE SHAFT EXTENSION (STD). FOR CW ROTATION, INTERCHANGE 5 AND 8 INTERNALLY.
 - 2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
 - 3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0094

REV. DESC: ADD B PH AMPS THRU HTR HVC TO DESCRIPTION		
REV. LTR: F	VERSION: 02	TDR: 000001258306
FILE: \AAA\00007\476	REVISED: 03:40:33 06/18/2025	BY: ENBRIR0
MTL: —	© □	

BALDOR - RELIANCE®

TYPE L, DV, FIX, THERMAL, B PH AMPS THRU HTR HVC, 5 LEAD
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