

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										

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	
Service Factor (S.F.)		1.75	Starting Current		16 A	
			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

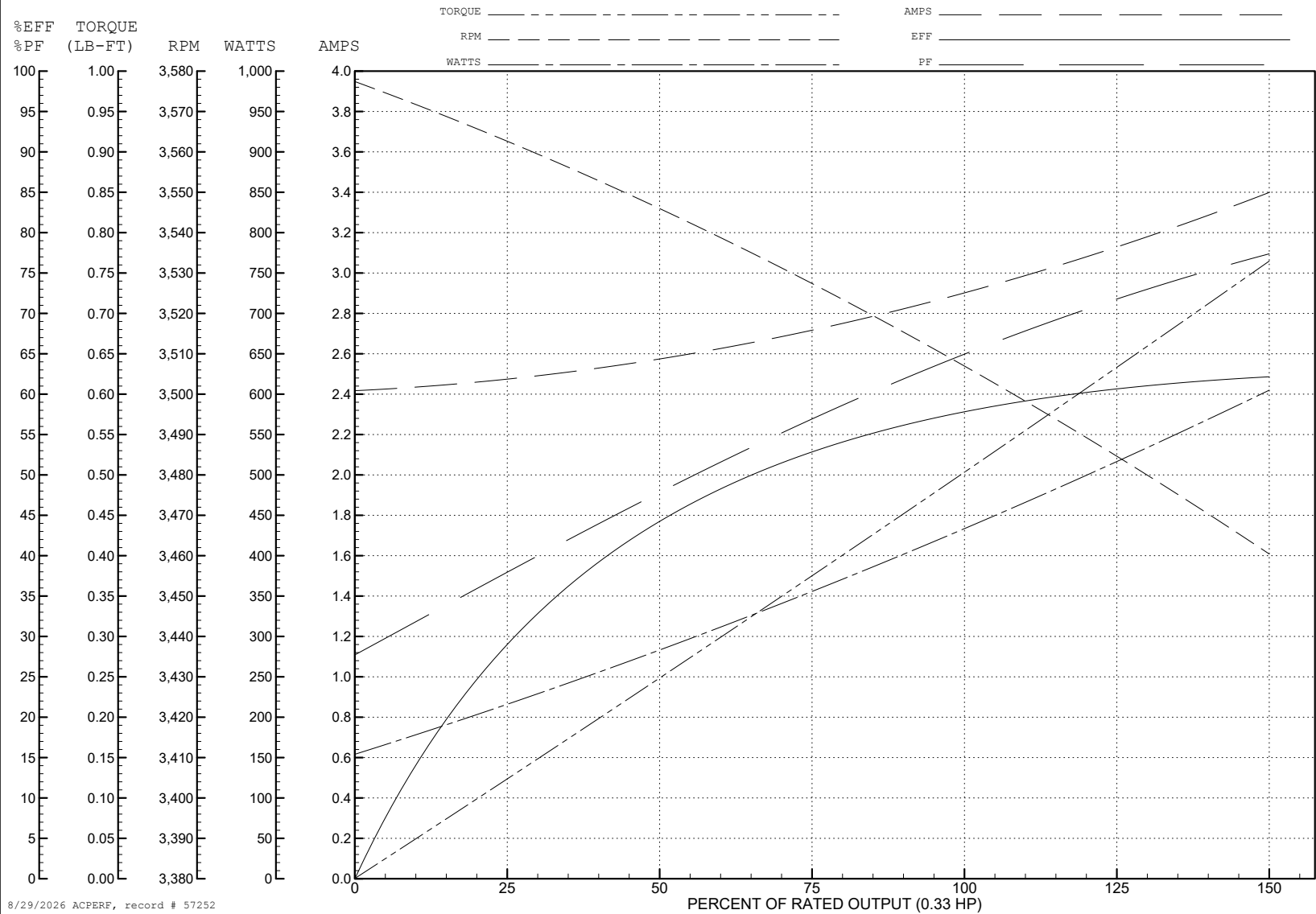
ABB Motors and Mechanical Inc.

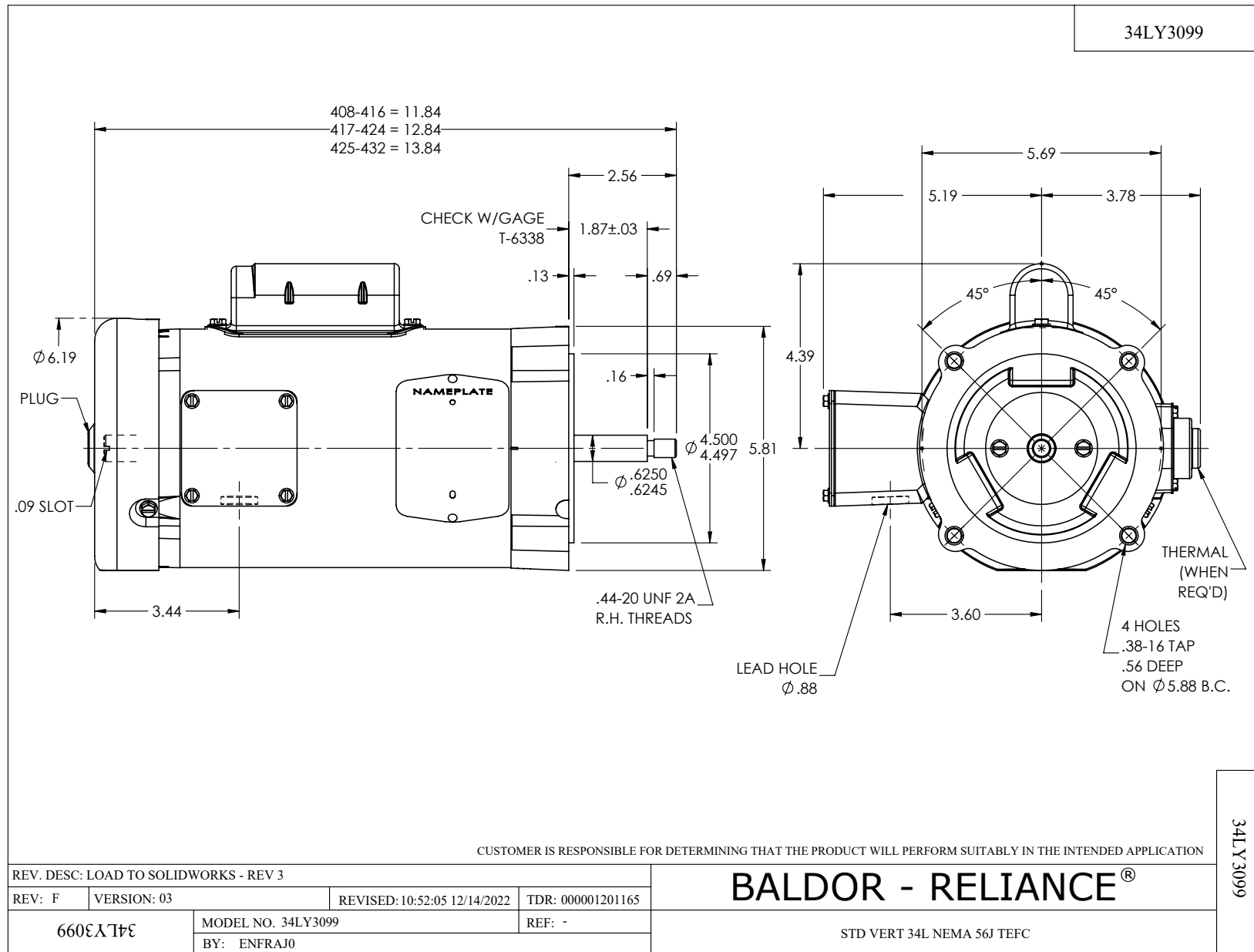
WINDING # 34WGX609

Typical performance - not guaranteed values.

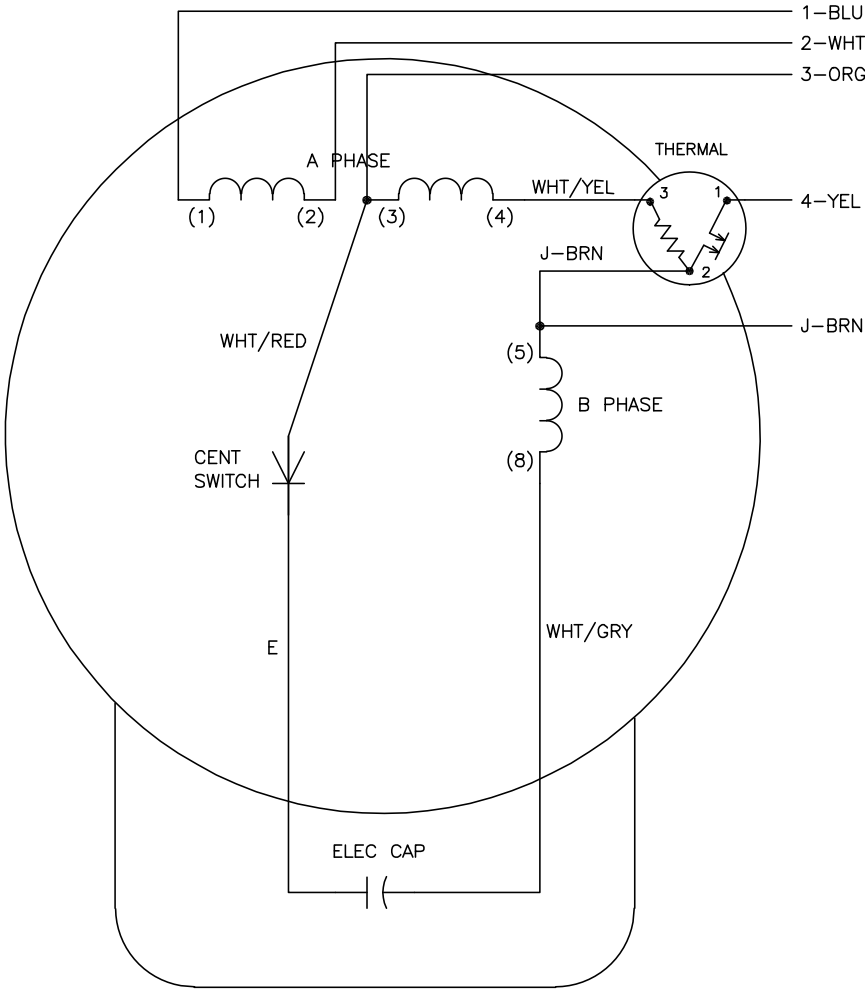
0.33 HP 1 PH 60 HZ 3450 RPM 230 V 3416L

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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