

ABB BALDOR RELIANCE III

Customer information packet

JSL325A

.5HP, 3450RPM, 1PH, 60HZ, 56Y, 3416L, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56Y
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	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 115.0 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	6.600 A @ 115.0 V 4.400 A @ 208.0 V 3.300 A @ 230.0 V
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Terminal Panel
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.3 a

Part Detail

Revision	P
Type	AC
Mech. spec.	34M228
Base	
Status	PRD/A
Elec. spec.	34WGR049
Layout	34LYM228
Eff. date	08-10-2026
CD Diagram	CD0203
Poles	02
Leads	5#18,1#16 #1TH
Proprietary	False
Created date	05-09-2013

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	5 @ 18 AWG
Motor Lead Termination	Flying Leads With QC
Motor Standards	NEMA
Motor Type	3416L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.35 IN
Power Factor	69
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Pool Pump
Pulley Shaft Indicator	Ext Thread & Tapped Hole
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.60
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Fixed Opposite Standard
Shaft Slinger Indicator	Shaft 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	EP

Winding Thermal 2

None

Nameplate

NP1257L									
CAT.NO.	JSL325A								
SPEC.	34M228R049G1								
HP	.5								
VOLTS	115/230								
AMP	6.6/3.3								
RPM	3450								
FRAME	56Y			HZ	60		PH	1	
SER.F.	1.60	CODE	G	DES	-	CL	B		
NEMA-NOM-EFF	70	PF	69						
RATING	40C AMB-CONT								
CC									
DE	6203	ODE	6203						
ENCL	OPEN	SN							
	SFA 9.2/4.6								

Parts List

Part number	Description	Quantity
SA262837	SA 34M228R049G1	1.000 ea
RA249561	RA 34M228R049G1	1.000 ea
TPMRJ30AX	THERMAL 1PH 0.75 AUT 120C	1.000 ea
EC1216A02SP	ELEC CAP, 216-259 MFD, 125V, 1.48D X 3.	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	1.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 ea
34CB4800SP	CAPACITOR COVER, STAMPED PRIMED	1.000 ea
HA1005A05SP	SLINGER, OD 1.50, ID .659, 203 BRG	1.000 ea
34GS3001	GASKET, CAPACITOR BOX	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
WD4100A04	62MP0687 HOLE PLUG OR DP-687 HEYCO	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3501A03	ENDPLATE, MACH POOL PUMP 17 FRAME-ASSY/K	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
34AD2007	BAFFLE PLATE INJECTION MOLD	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
34CB4501SP	TERMINAL BOX LID, STAMPED X (PLATED)	1.000 ea
34GS1018	GASKET, TERM PLATE LID BLACK NEOPRENE	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
RM1010A12	.437 I.D. 1" VINYL CAP (SHORT) MOCAP	1.000 ea
LB1009N	LABEL,ROTATION DIRECTION (ON ROLLS)	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
34EP3202A07	FR ENDPLATE, MACH	1.000 ea
HA6001A03	THERMAL RETAINER (PLATED)	1.000 ea
NS2500A01	INSULATOR, AUTO THER PROT	1.000 ea
51XT0632A06	6-32X3/8 TY23 HXWS SLDSR	2.000 ea
HA3100A16	THRUBOLT 10-32 X 8.750	4.000 ea

SP5086A01	34 TERM PANEL SWITCH W/E-BLK & 8-RED	1.000 ea
LC0546	CONNECTION LABEL	1.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
PK3083	STYROFOAM PACKING CRADLE	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea

AC Induction Motor Performance Data

Record # 42890

Typical performance - not guaranteed values

Winding: 34WGR049-R001			Type: 3416L		Enclosure: OPEN	
Nameplate Data			115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		.5	Full Load Torque		0.751 LB-FT	
Volts		115/230	Start Configuration		direct on line	
Full Load Amps		6.6/3.3	Breakdown Torque		2.59 LB-FT	
R.P.M.		3450	Pull-up Torque		1.81 LB-FT	
Hz		60	Phase		1	
NEMA Design Code		-	KVA Code		G	
Service Factor (S.F.)		1.6	No-load Current		5.04 A	
NEMA Nom. Eff.		70	Power Factor		69	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps		9.2/4.6	Temp. Rise @ S.F. Load		43°C	

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	50	61	69	76	81	82
Efficiency	44.8	60.8	67.2	70.3	71.5	71.1	68.7
Speed	3569.3	3545.7	3521.6	3495.4	3464.3	3428.1	3383
Line amperes	5.14	5.41	5.98	6.63	7.47	8.48	9.116

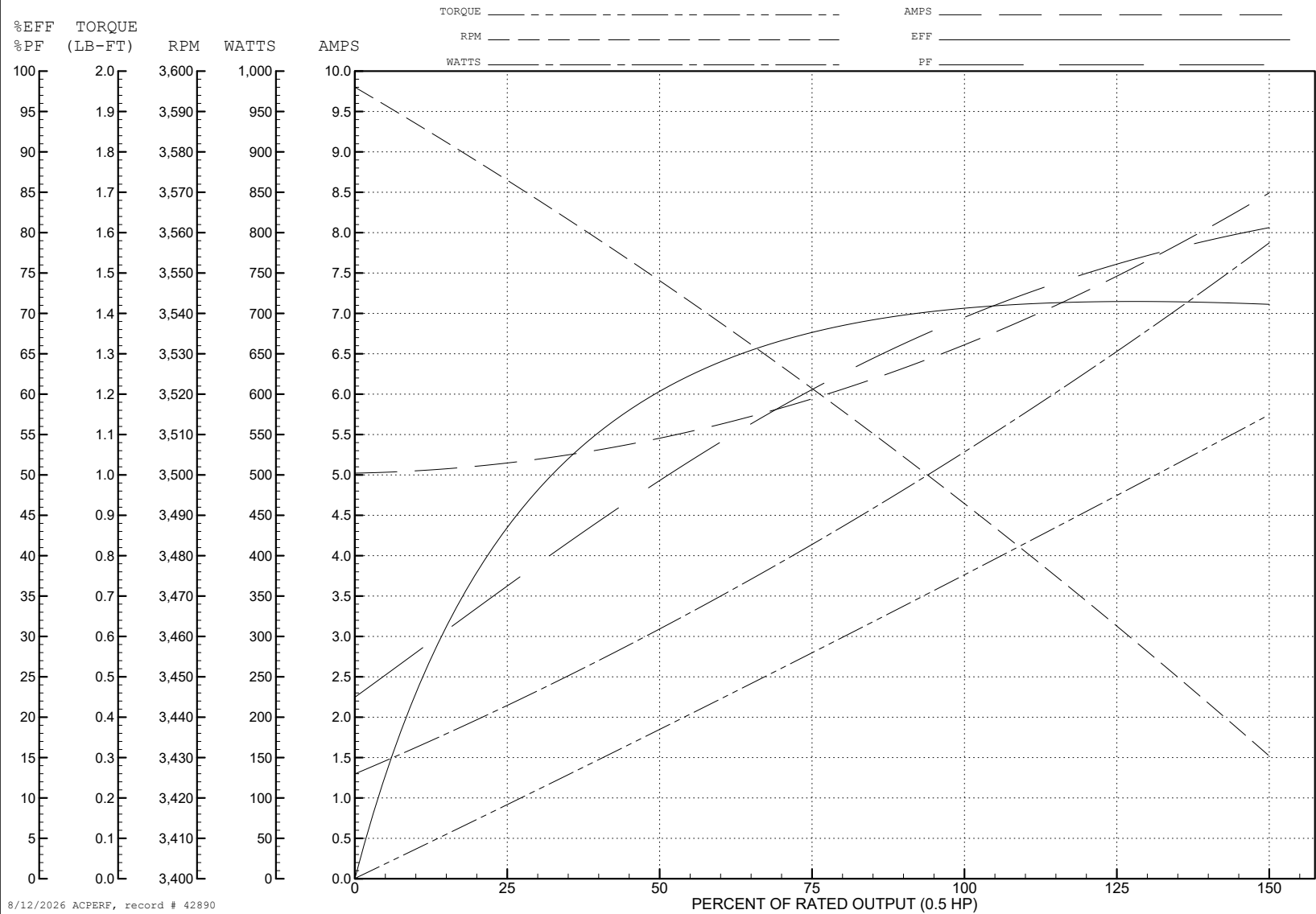
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WINDING # 34WGR049

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 3450 RPM 115 V 3416L

TORQUES (LB-FT) : PO=2.59 PU=1.81 LR=2.04 LRA=24.5



AC Induction Motor Performance Data

Record # 52588

Typical performance - not guaranteed values

Winding: 34WGR049-R001			Type: 3416L		Enclosure: OPEN	
Nameplate Data			230 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.5	Full Load Torque		0.751 LB-FT	
Volts		115/230	Start Configuration		direct on line	
Full Load Amps		6.6/3.3	Breakdown Torque		2.59 LB-FT	
R.P.M.		3450	Pull-up Torque		1.87 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		2.1 LB-FT
NEMA Design Code		-	KVA Code	G	Starting Current	12.7 A
Service Factor (S.F.)		1.6	No-load Current		2.52 A	
NEMA Nom. Eff.	70	Power Factor	69	Line-line Res. @ 25°C		3.388 Ω A Ph 2.78 Ω B Ph
Rating - Duty		40C	AMB-CONT	Temp. Rise @ Rated Load		26°C
S.F. Amps		9.2/4.6		Temp. Rise @ S.F. Load		43°C
				Locked-rotor Power Factor		85
				Rotor inertia		0.0148 LB-FT2

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	50	61	70	76	81	82
Efficiency	44.9	60.8	67.2	70.4	71.5	71.3	68.7
Speed	3569	3546	3522	3495	3464	3428	3383
Line amperes	2.57	2.7	2.99	3.31	3.74	4.24	4.56

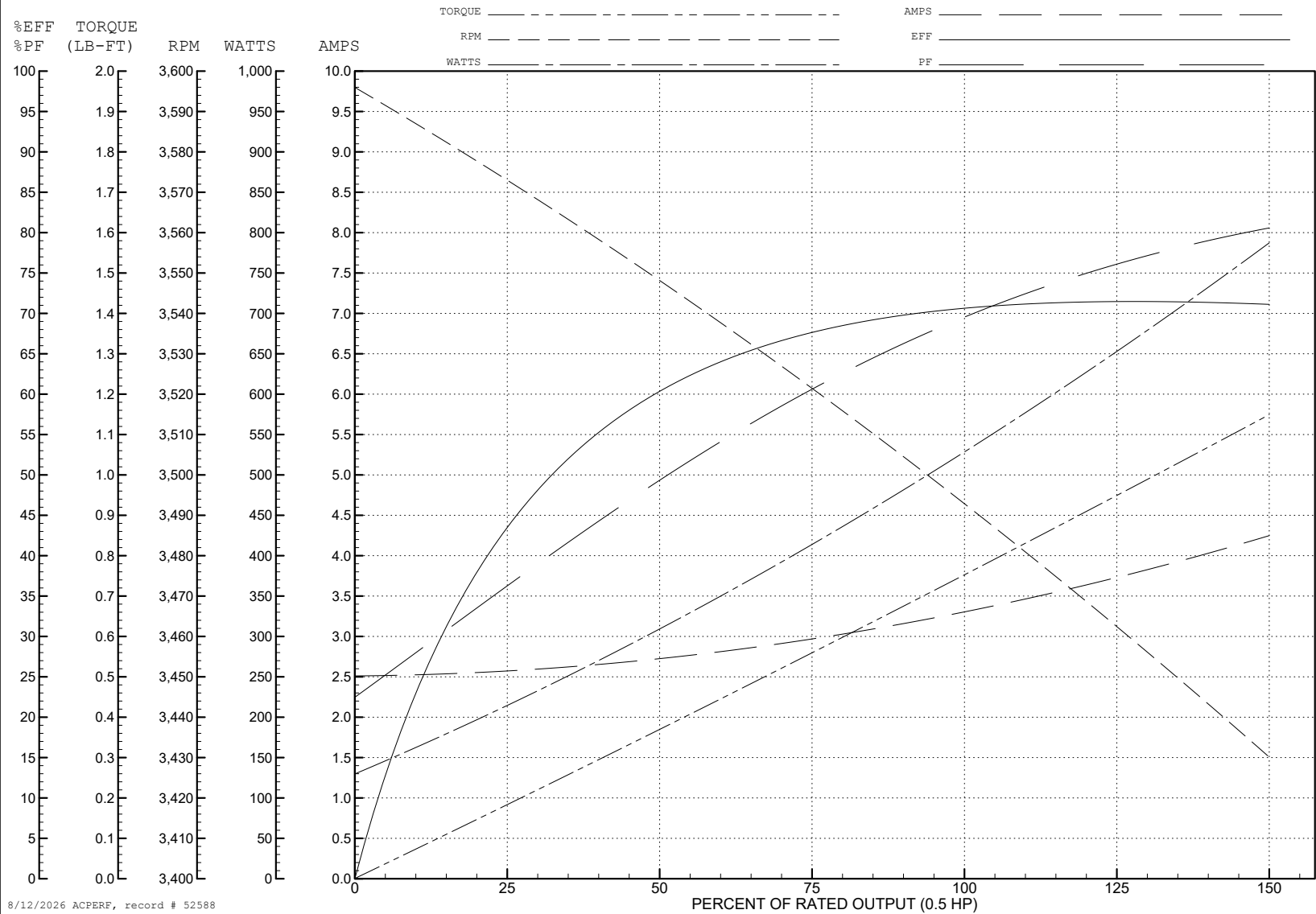
ABB Motors and Mechanical Inc.

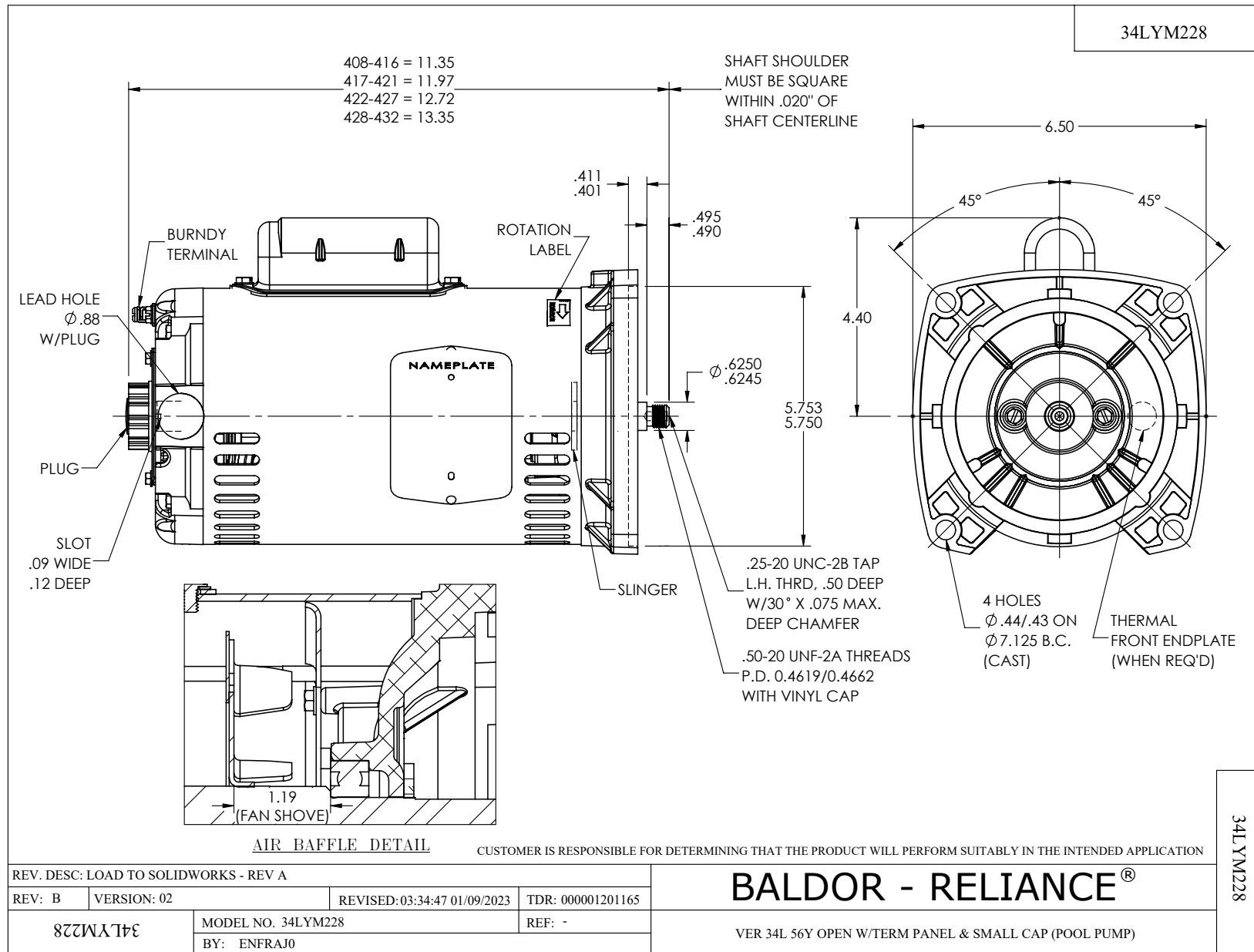
WINDING # 34WGR049

Typical performance - not guaranteed values.

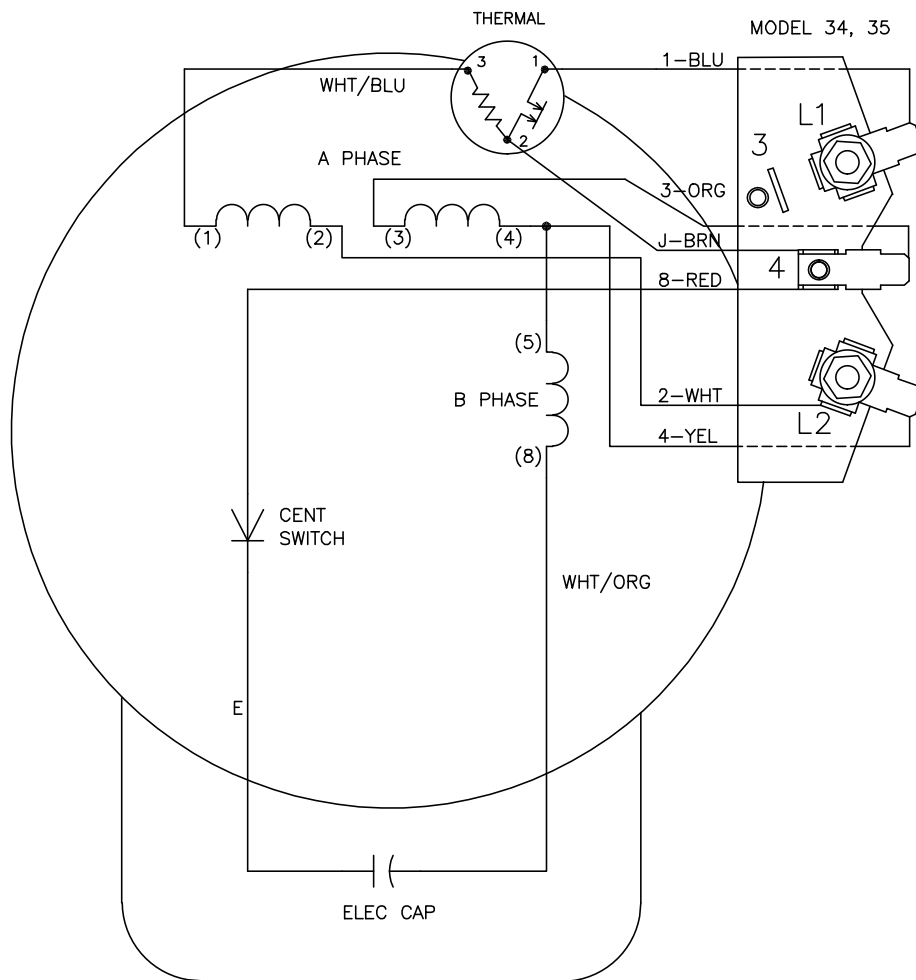
0.5 HP 1 PH 60 HZ 3450 RPM 230 V 3416L

TORQUES (LB-FT): PO=2.59 PU=1.87 LR=2.1 LRA=12.7





CD0203



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
5 AND 8 INTERNALLY FOR OPPOSITE
STANDARD ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN
PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST
ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REMOVE MODEL 17 CONNECTION

REV. LTR: G

VERSION: 02

TDR: 000001250682

FILE: \AAA\00007\108

REVISED: 12: 29: 47 04/16/2025

BY: ENBRIRO

MTL: -



BALDOR - RELIANCE®

TYPE L, DV, FIX, THERMAL, TERMINAL PLATE

SH 1 of 1

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