ABB BALDOR RELIANCE

Customer information packet

IR3501M

.33HP, 1725RPM, 1PH, 60HZ, 56, 3414L, 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, Induction Run
Output @ Frequency	.330 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	208.0 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.000 A @ 230.0 V
	3.200 A @ 208.0 V
	3.600 A @ 208.0 V
	6.000 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	60.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	L
Type	AC
Mech. spec.	34S040
Base	
Status	PRD/A
Elec. spec.	34WG5598
Layout	34LYS040
Eff. date	10-28-2024
CD Diagram	CD0831A02
Poles	04
Leads	7#18
Proprietary	False
Created date	03-31-2017

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.0 a
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	7 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3414L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.35 IN
Power Factor	60
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
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	SK
Winding Thermal 2	None

Nameplate

NP1257L										
CAT.NO.	IR3501M									
SPEC.	34S040-5598G1									
HP	.33									
VOLTS	115/208-230									
AMP	6/3.2-3									
RPM	1725									
FRAME	56		**HZ**	60		**PH**	1			
SER.F.	1.00	**CODE**	L	**DES**	N	**CL**	B			
NEMA-NOM-EFF	60	**PF**	60							
RATING	40C AMB-CONT									
CC										
DE	6203	**ODE**	6203							
ENCL	TEFC	**SN**								

AC Induction Motor Performance Data
Record # 63547
Typical performance - not guaranteed values

Winding: 34WG5598-R006	**Type:** 3414L	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.33	**Full Load Torque**	1 LB-FT
Volts			115/208-230	**Start Configuration**	direct on line
Full Load Amps			6/3.2-3	**Breakdown Torque**	2.95 LB-FT
R.P.M.			1725	**Pull-up Torque**	2.55 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	3.6 LB-FT
NEMA Design Code	N	**KVA Code**	L	**Starting Current**	13 A
Service Factor (S.F.)			1	**No-load Current**	2.6 A
NEMA Nom. Eff.	60	**Power Factor**	60	**Line-line Res. @ 25ºC**	6.32 Ω A Ph 4.93 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	59°C

Load Characteristics 230 V, 60 Hz, 0.33 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	31	41	52	60	67	73
Efficiency	33	41	52	60	61.5	61.5
Speed	1780	1760	1745	1725	1705	1680
Line amperes	2.6	2.7	2.8	3	3.3	3.7

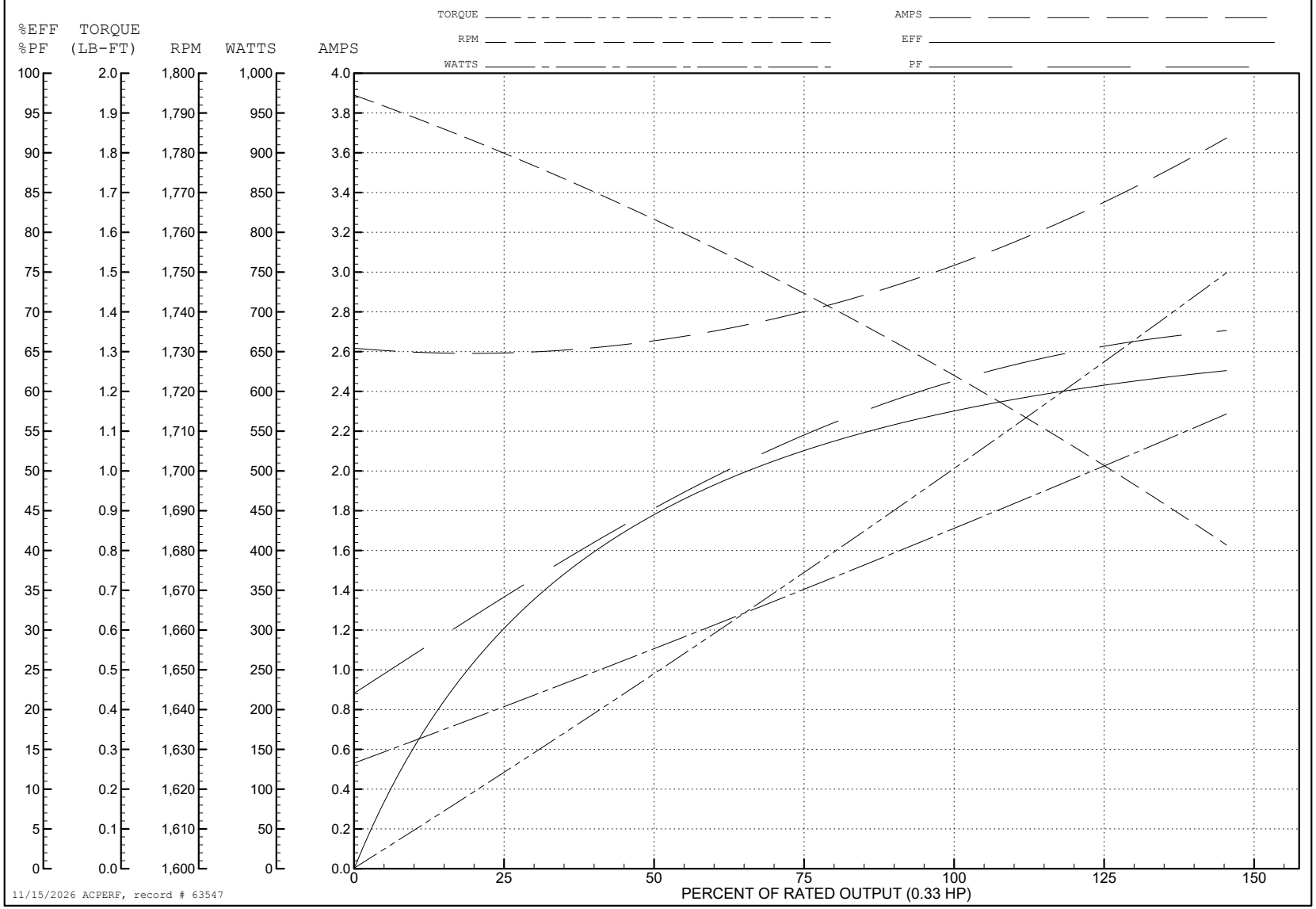
ABB Motors and Mechanical Inc.

WINDING # 34WG5598

0.33 HP 1 PH 60 HZ 1725 RPM 230 V 3414L

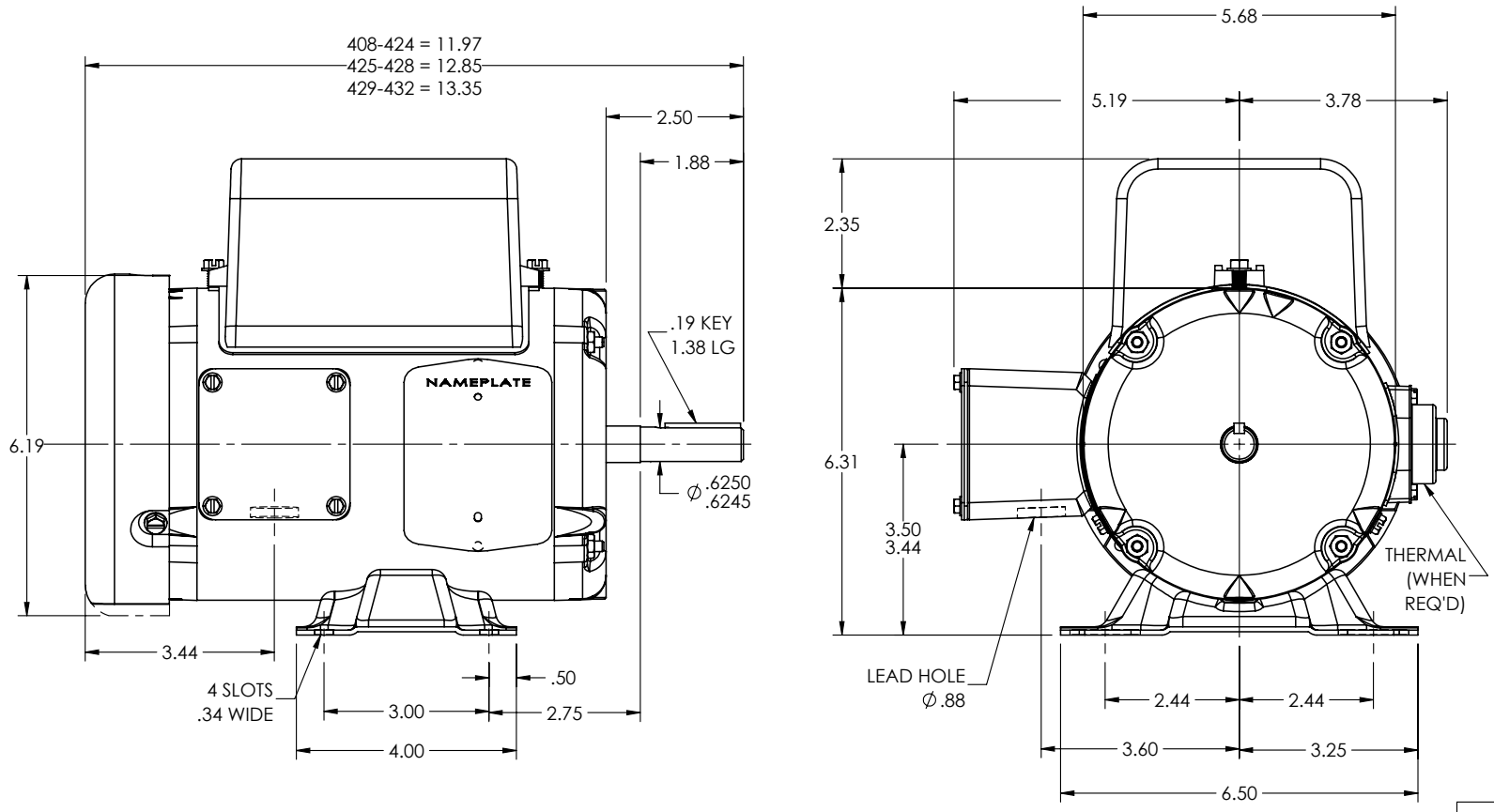
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=2.95 PU=2.55 LR=3.6 LRA=13



11/15/2026 ACPERF, record # 63547

34LYS040



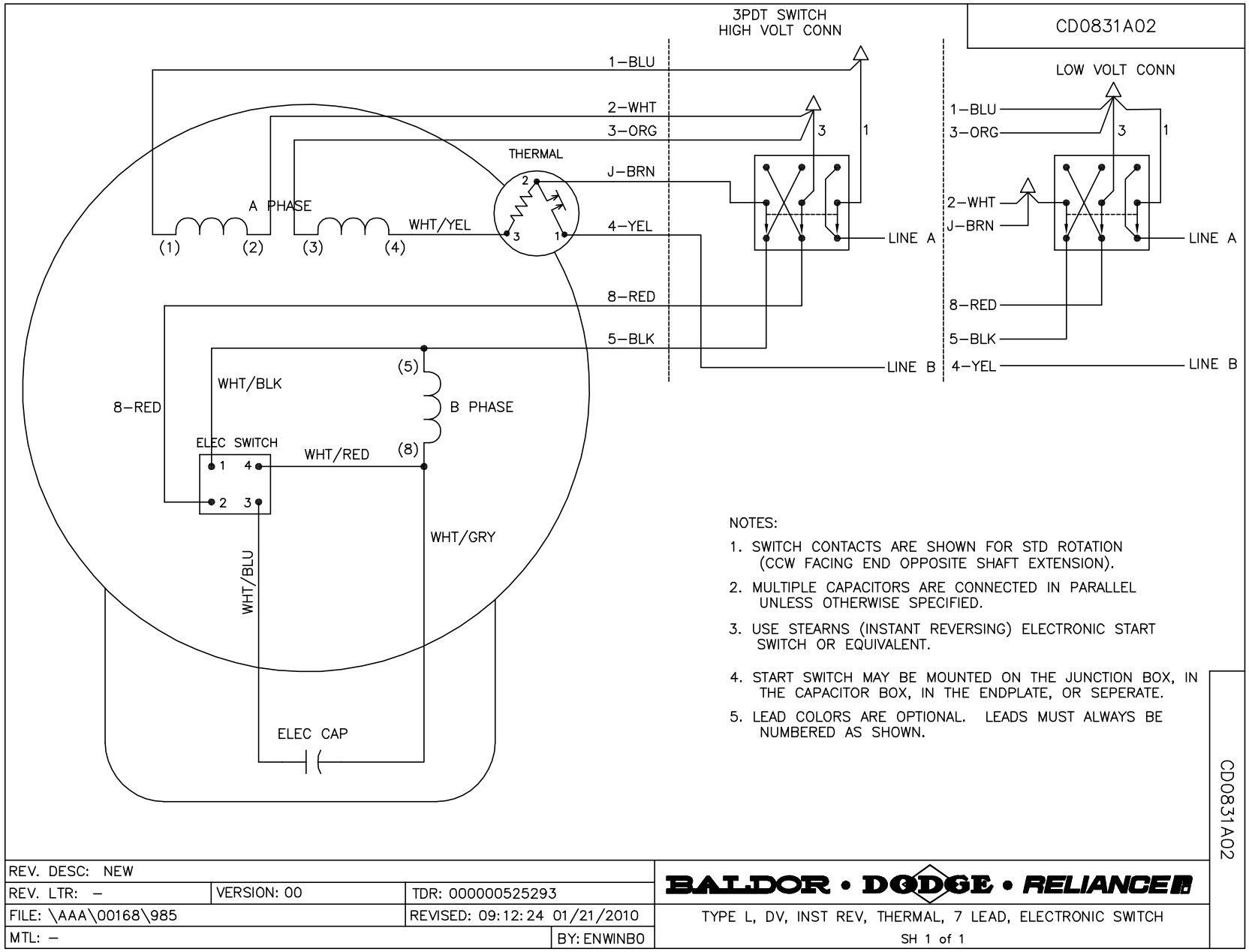
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: LOAD TO SOLIDWORKS - REV E			
REV: F	VERSION: 04	REVISED: 01:54:19 12/21/2022	TDR: 000001201165
34LYS040	MODEL NO. 34LYS040		REF: -
	BY: ENFRAJ0		

BALDOR - RELIANCE®

STD HORZ 34L NEMA 56 TEFC W/ELEC SWITCH

34LYS040


CD0831A02
3PDT SWITCH
HIGH VOLT CONN
LOW VOLT CONN
1–BLU
2–WHT
3–ORG
J–BRN
4–YEL
8–RED
5–BLK
THERMAL
A PHASE
WHT/YEL
(1)
(2)
(3)
(4)
LINE A
LINE B
(5)
WHT/BLK
B PHASE
(8)
WHT/RED
ELEC SWITCH
WHT/GRY
WHT/BLU
ELEC CAP
NOTES:
1. SWITCH CONTACTS ARE SHOWN FOR STD ROTATION (CCW FACING END OPPOSITE SHAFT EXTENSION).
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. USE STEARNS (INSTANT REVERSING) ELECTRONIC START SWITCH OR EQUIVALENT.
4. START SWITCH MAY BE MOUNTED ON THE JUNCTION BOX, IN THE CAPACITOR BOX, IN THE ENDPLATE, OR SEPERATE.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.
REV. DESC: NEW
REV. LTR: –
VERSION: 00
TDR: 000000525293
FILE: \AAA\00168\985
REVISED: 09:12:24 01/21/2010
MTL: –
BY: ENWINBO
BALDOR • DODGE • RELIANCE
TYPE L, DV, INST REV, THERMAL, 7 LEAD, ELECTRONIC SWITCH
SH 1 of 1
CD0831A02