

ABB BALDOR RELIANCE III

Customer information packet

IR3501M

.33HP, 1725RPM, 1PH, 60HZ, 56, 3414L, TEFC, F1

Class - None

Division - Not Applicable

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	Starting Current		13 A	
Service Factor (S.F.)		1		No-load Current		2.6 A	
NEMA Nom. Eff.		60	Power Factor	Line-line Res. @ 25°C		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

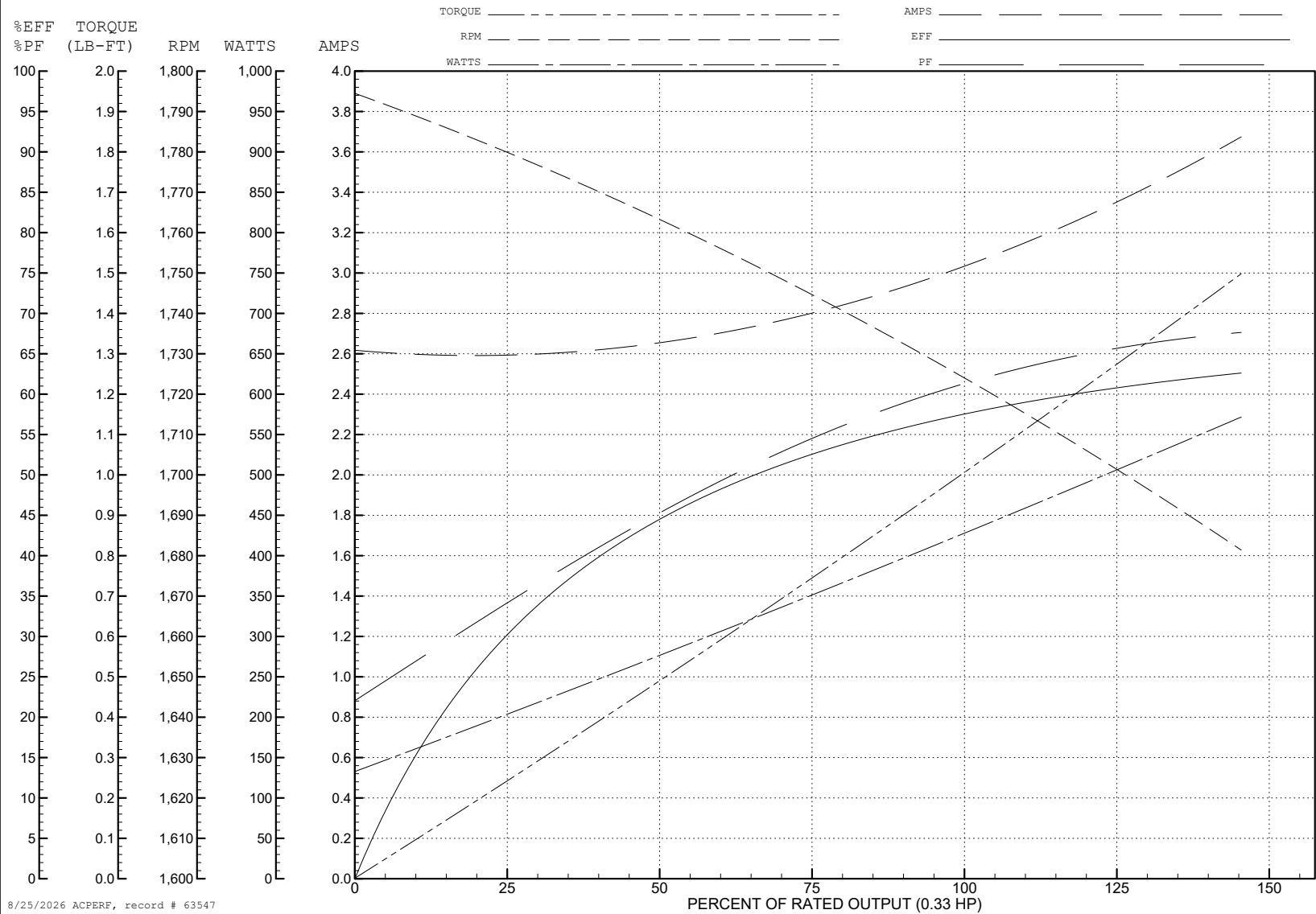
ABB Motors and Mechanical Inc.

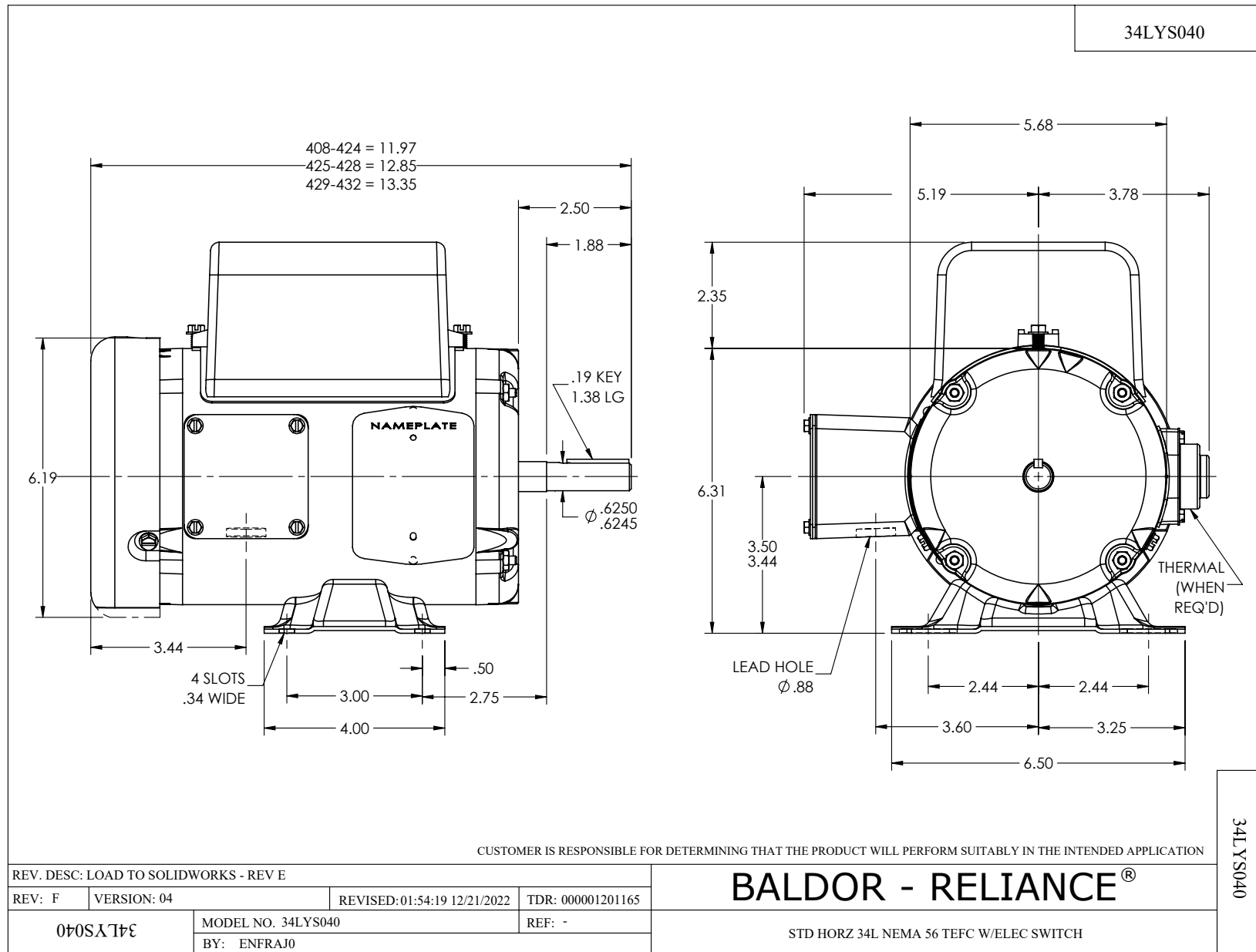
WINDING # 34WG5598

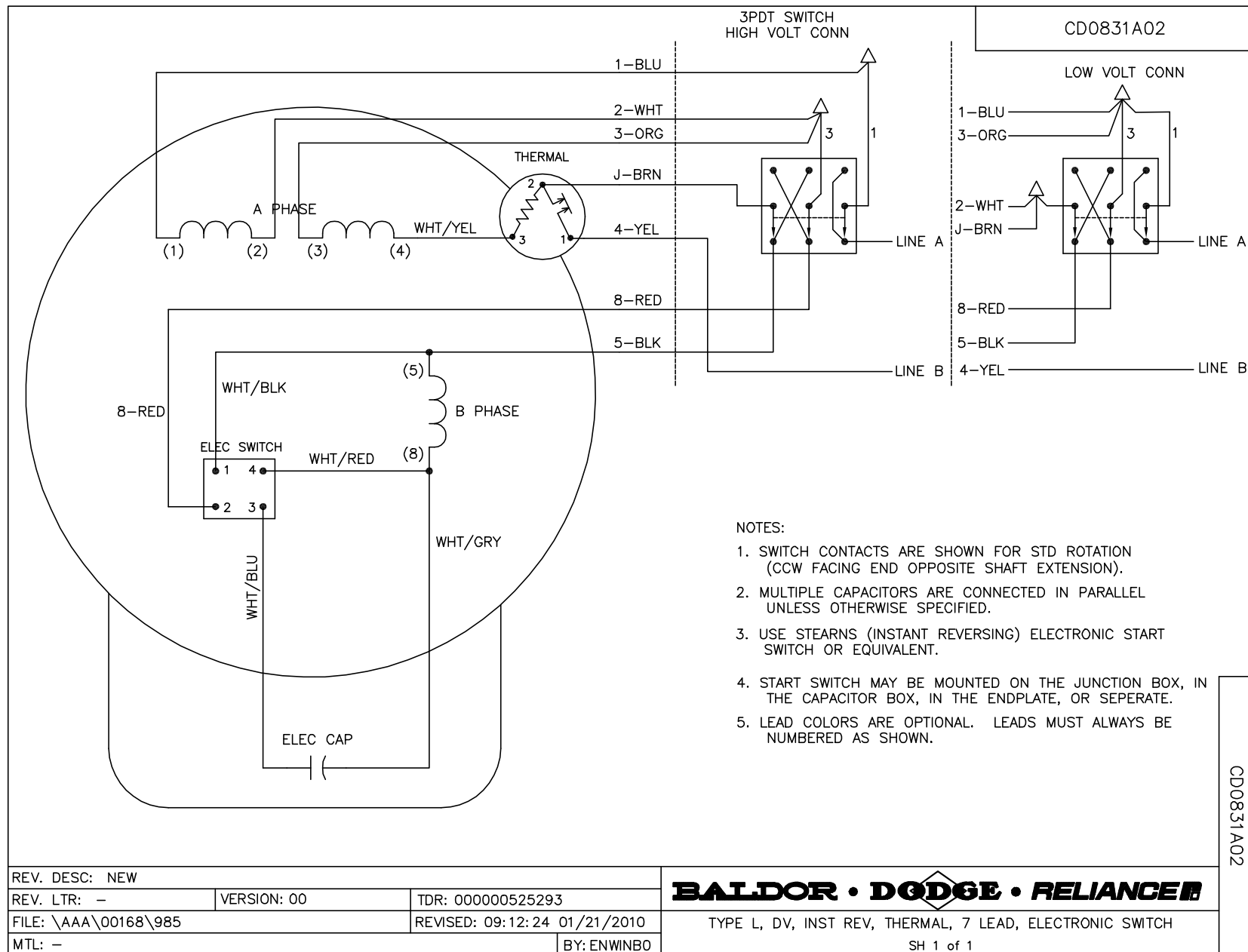
Typical performance - not guaranteed values.

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

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







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