

ABB BALDOR RELIANCE III

Customer information packet

VL3503CNF

.5HP/3450RPM/1PH/TEFC/NEMA 56C

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
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	115.0 V @ 60 HZ
Agency Approvals	UR CSA
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	7.400 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	57.0 %
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	7.4 a
Insulation Class	B
Inverter Code	Not Inverter

Part Detail

Revision	Z
Type	AC
Mech. spec.	34G200
Base	
Status	PRD/A
Elec. spec.	34WG3906
Layout	34LYG200
Eff. date	01-13-2025
CD Diagram	CD0017A01
Poles	02
Leads	2#16 A PH,2#18 B PH
Proprietary	False
Created date	01-01-0001

KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 16 AWG, A PH
Motor Lead Termination	Cord And Plug
Motor Standards	NEMA
Motor Type	3416L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.38 IN
Power Factor	71
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected OPP STD
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	None
Winding Thermal 2	None

Nameplate

NP1256L											
CAT.NO.	VL3503CNF										
SPEC.	34G200-3906G1										
HP	.5										
VOLTS	115										
AMP	7.4										
RPM	3450										
FRAME	56C		HZ	60				PH	1		
SER.F.	1.25		CODE	K	DES	N		CLASS	B		
NEMA-NOM-EFF	57		PF	71							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE	6203							
ENCL	TEFC		SN								
	SFA 8.8										

AC Induction Motor Performance Data

Record # 93588

Typical performance - not guaranteed values

Winding: 34WG3906-R001				Type: 3416L		Enclosure: TEFC	
Nameplate Data				115 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		.5		Full Load Torque		0.75 LB-FT	
Volts		115		Start Configuration		direct on line	
Full Load Amps		7.4		Breakdown Torque		2 LB-FT	
R.P.M.		3450		Pull-up Torque		1.6 LB-FT	
Hz		60 Phase		Locked-rotor Torque		3 LB-FT	
NEMA Design Code		N KVA Code		Starting Current		39 A	
Service Factor (S.F.)		1.25		No-load Current		5.9 A	
NEMA Nom. Eff.		57 Power Factor		Line-line Res. @ 25°C		1.18 Ω A Ph 3.76 Ω B Ph	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		78°C	
S.F. Amps		8.8		Temp. Rise @ S.F. Load		92°C	

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	49	61	69	74	78	74
Efficiency	38.3	49.7	57.4	60.7	60.9	59.8	60.9
Speed	3530	3490	3450	3420	3380	3340	3380
Line amperes	6	6.4	7	7.8	8.8	9.9	8.8

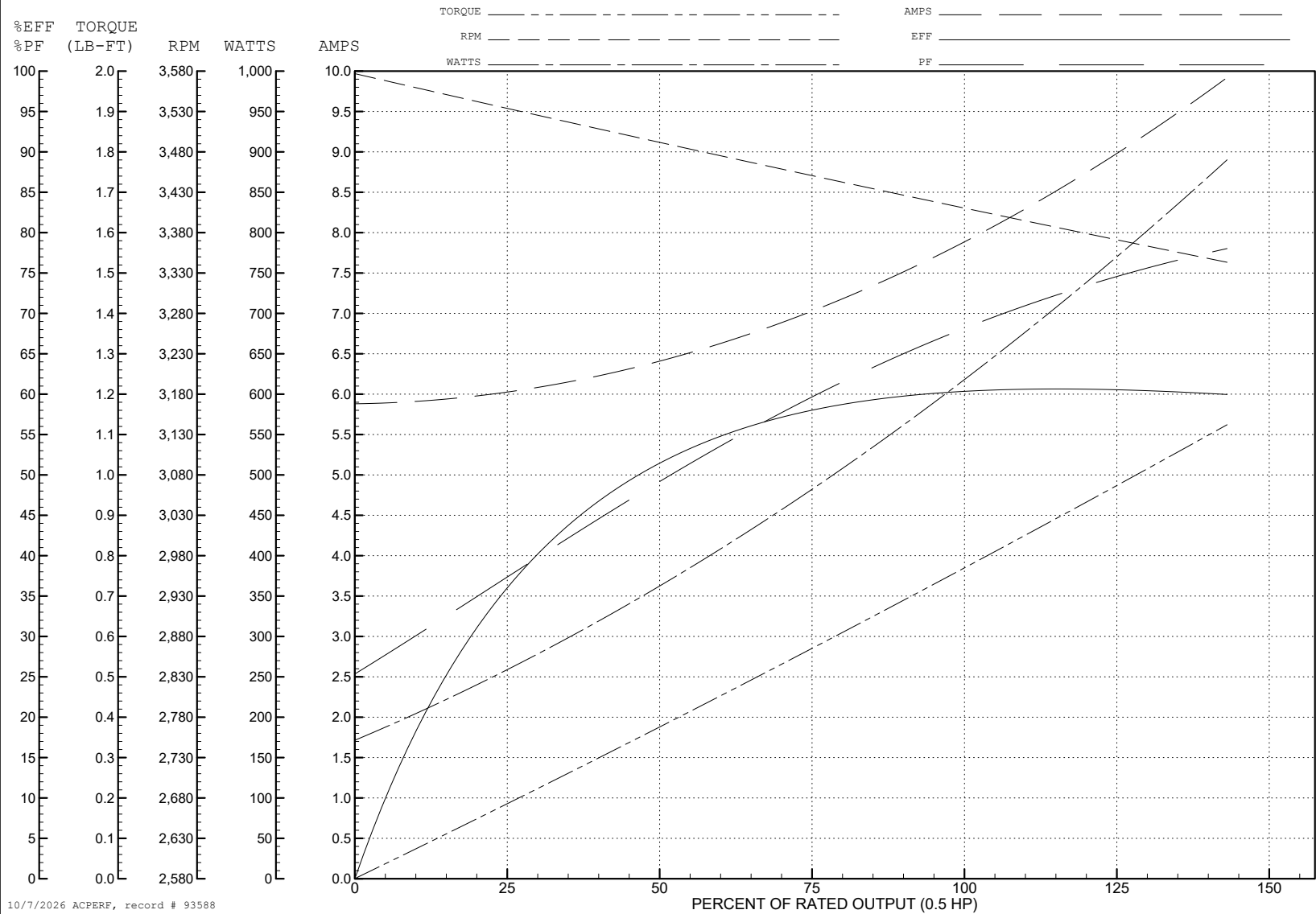
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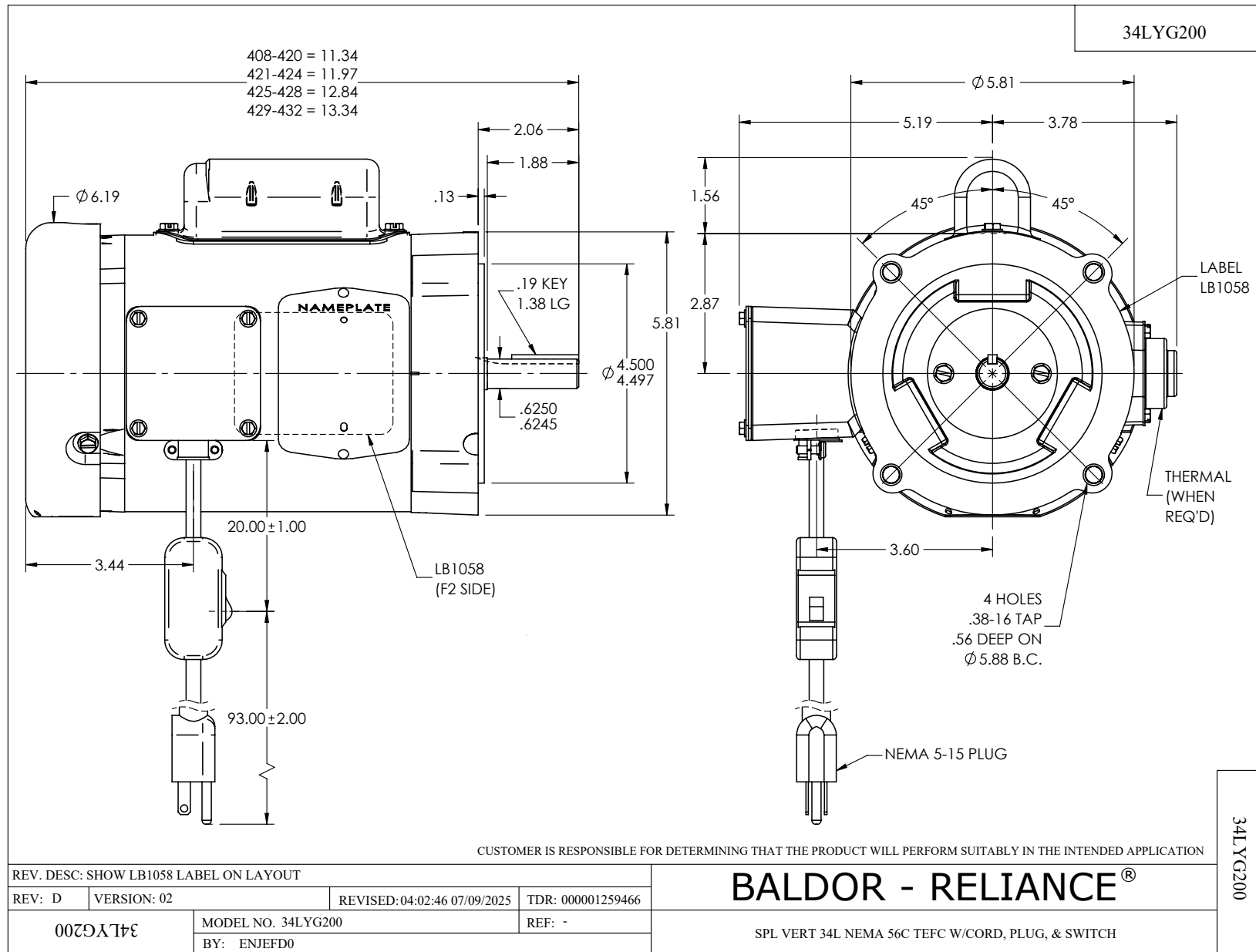
WINDING # 34WG3906

Typical performance - not guaranteed values.

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

TORQUES (LB-FT) : PO=2 PU=1.6 LR=3 LRA=39





CD0017A01

