

ABB BALDOR RELIANCE III

Customer information packet

JL1309A

1HP, 3450RPM, 1PH, 60HZ, 56J, 3428L, OPEN, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
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	1.000 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	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	14.000 A @ 115.0 V 7.000 A @ 230.0 V 8.800 A @ 208.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	65.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	Q
Type	AC
Mech. spec.	34F156
Base	
Status	PRD/A
Elec. spec.	34WG3375
Layout	34LYF156
Eff. date	12-31-2024
CD Diagram	CD0449
Poles	02
Leads	4#16 A&J,1#14 #4TH
Proprietary	False
Created date	02-18-2010

High Voltage Full Load Amps	7.0 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A&J
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3428L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.89 IN
Power Factor	65
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	1.40
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
Winding Thermal 2	None

Nameplate

NP1257L											
CAT.NO.	JL1309A										
SPEC.	34F156-3375G3										
HP	1										
VOLTS	115/230										
AMP	14/7										
RPM	3450										
FRAME	56J			HZ		60		PH		1	
SER.F.	1.40		CODE	L	DES		N	CL	B		
NEMA-NOM-EFF	65		PF	65							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE		6203						
ENCL	OPEN	SN									
	SFA 16/8										

Parts List

Part number	Description	Quantity
SA191142	SA 34F156-3375G3	1.000 ea
RA178804	RA 34F156-3375G3	1.000 ea
EC1645A06SP	ELEC CAP, 645-774 MFD, 125V, 2.06D X 4.	1.000 ea
34EP3202A02	FR ENDPLATE, MACH	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 ea
RM1010A12	.437 I.D. 1" VINYL CAP (SHORT) MOCAP	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
34EP3401A01SP	PU ENDPLATE, MACH	1.000 ea
34AD2000	BAFFLE PLATE, STAMPED	1.000 ea
60XW0632A06	6-32 X 3/8 TORX HEAD SCREW TAPTITE II	4.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
34CB4501SP	TERMINAL BOX LID, STAMPED X (PLATED)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
34FH4500A02P	DRIPCOVER, MODEL 34	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1009N	LABEL,ROTATION DIRECTION (ON ROLLS)	1.000 ea
33CB4800A02	CAPACITOR COVER, STAMPED	1.000 ea
SP5075A02	34 TERM PANEL SWITCH W/ ML14-EB18	1.000 ea
HA3100A21	THRUBOLT 10-32 X 9.937	4.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0031	CONNECTION LABEL	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
27PA1001	PKG GRP, PRINT PK1027A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
PK3083	STYROFOAM PACKING CRADLE	1.000 ea
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea

AC Induction Motor Performance Data

Record # 6683

Typical performance - not guaranteed values

Winding: 34WG3375-R001			Type: 3428L		Enclosure: OPEN		
Nameplate Data			230 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1	Full Load Torque		1.5 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		14/7	Breakdown Torque		5.3 LB-FT		
R.P.M.		3450	Pull-up Torque		3.8 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		4.4 LB-FT	
NEMA Design Code		N	KVA Code	L	Starting Current		46 A
Service Factor (S.F.)		1.4		No-load Current		5.6 A	
NEMA Nom. Eff.		65	Power Factor	65	Line-line Res. @ 25°C		1.63 Ω A Ph 1.64 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		37°C	
S.F. Amps		16/8		Temp. Rise @ S.F. Load		47°C	

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	45	58	68	75	83	79
Efficiency	47.1	60.7	66.5	69.1	70.2	69.4	70.9
Speed	3578	3563	3546	3529	3511	3491	3500
Line amperes	5.7	6	6.4	7	7.7	8.4	8.1

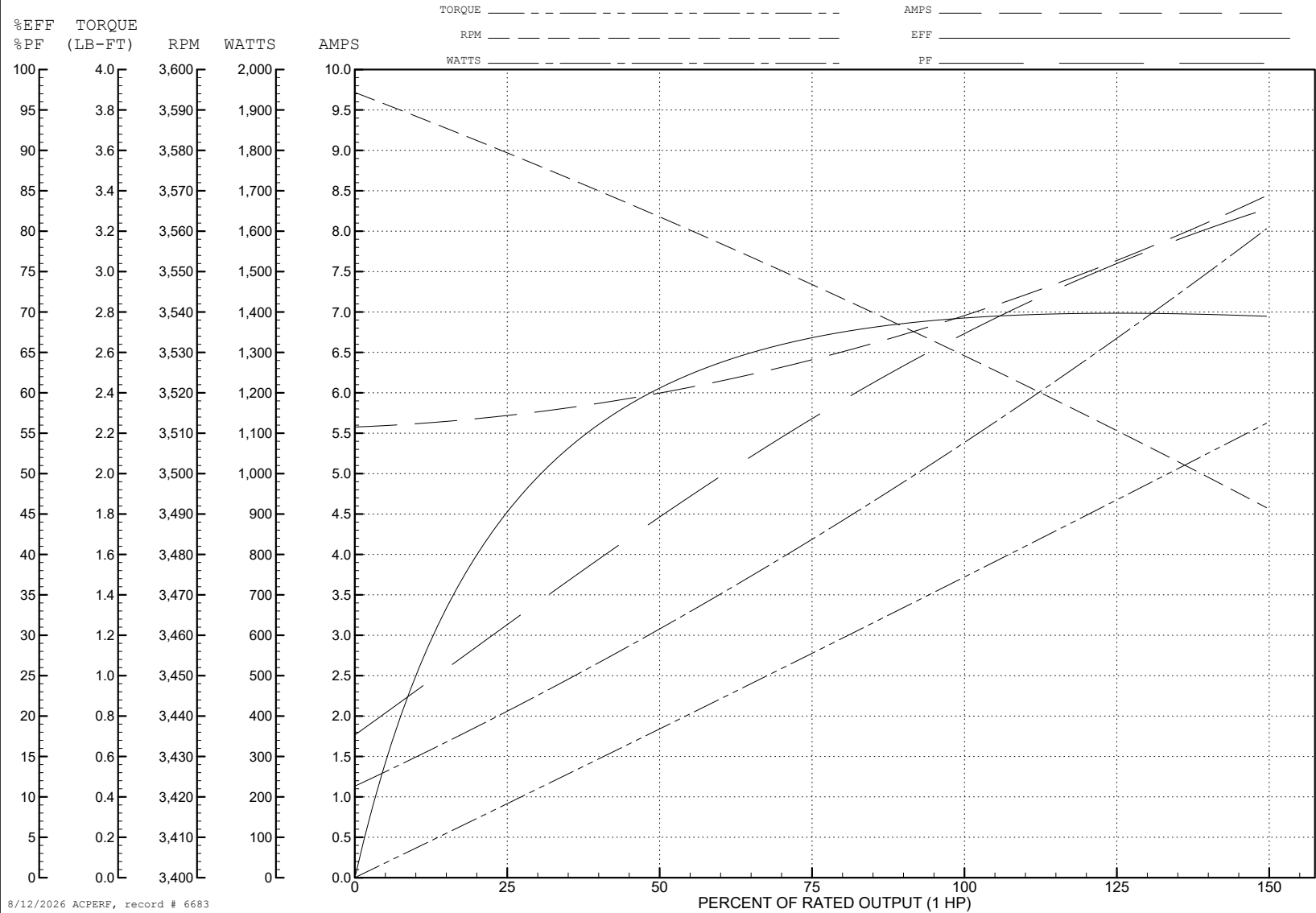
ABB Motors and Mechanical Inc.

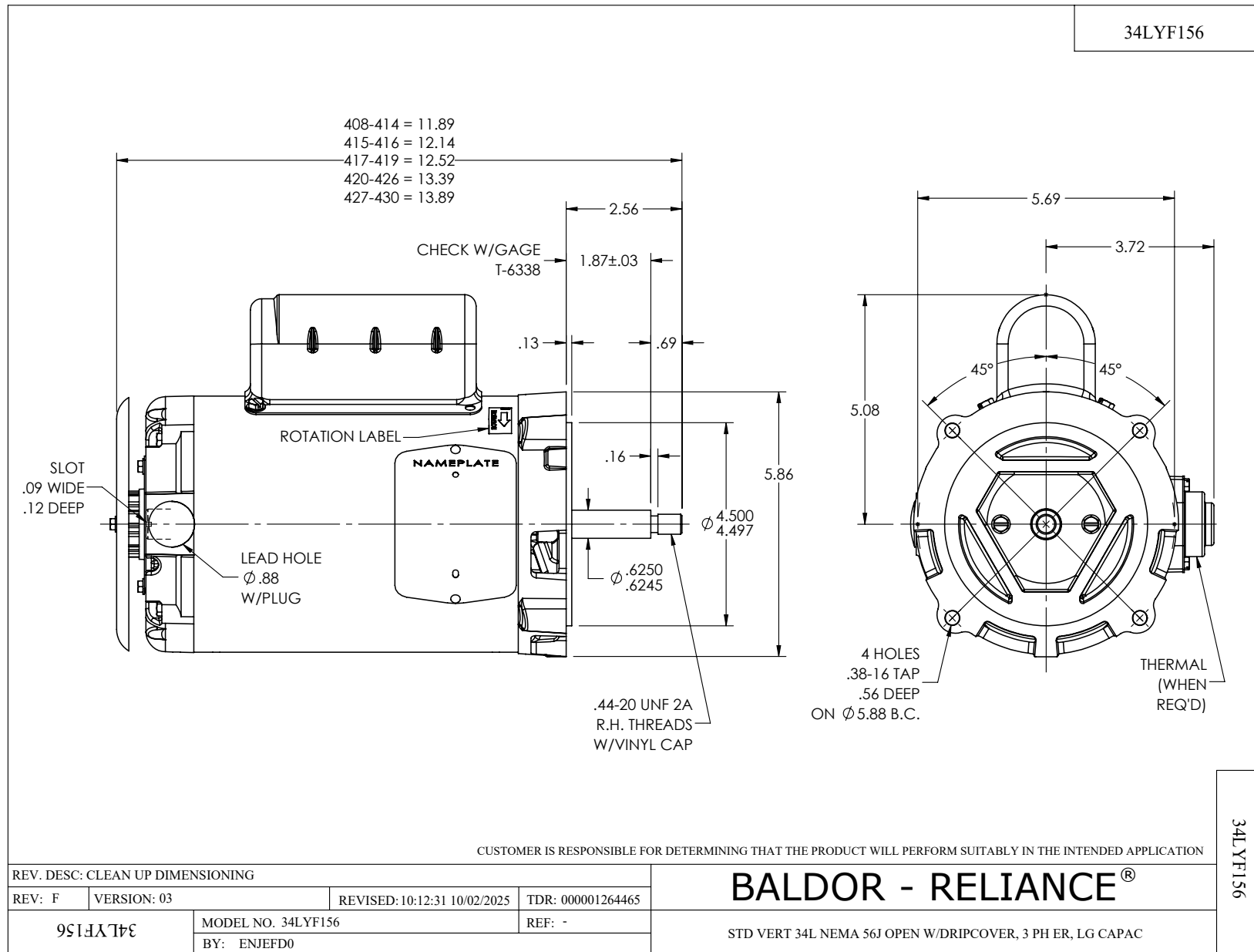
WINDING # 34WG3375

Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 3450 RPM 230 V 3428L

TORQUES (LB-FT): PO=5.3 PU=3.8 LR=4.4 LRA=46





CD0449

