

ABB BALDOR RELIANCE III

Customer information packet

JM3116

1HP, 1725RPM, 3PH, 60HZ, 56J, 3424M, OPEN, F1

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	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 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	3.700 A @ 208.0 V 3.400 A @ 230.0 V 1.700 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None

Part Detail

Revision	W
Type	AC
Mech. spec.	34F038
Base	
Status	PRD/A
Elec. spec.	34WGW990
Layout	34LYF038
Eff. date	08-10-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3424M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.22 IN
Power Factor	70
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	1.15
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

Nameplate

NP1256L											
CAT.NO.	JM3116										
SPEC.	34F038W990G1										
HP	1										
VOLTS	208-230/460										
AMP	3.7-3.4/1.7										
RPM	1725										
FRAME	56J		HZ	60			PH	3			
SER.F.	1.15		CODE	K	DES	B	CLASS	F			
NEMA-NOM-EFF	78.5		PF	70							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE	6203							
ENCL	OPEN		SN								

Parts List

Part number	Description	Quantity
SA018250	SA 34F038W990G1	1.000 ea
RA014405	RA 34F038W990G1	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
34CB3002A	CB CAST W/.88 DIA HOLE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
34EP3212A03	FR EP 34L FOR DRIP CVR	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3401A01P	PU ENDPLATE, MACH/PAINTED	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
34FH4000A15	DRIP COVER, STAMPED,PRIMER	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
WD4101A09	STIMPSON D3560, .875 DIA. HOLE PLUG	1.000 ea
34CB4517	CB LID 4 MTG HOLES .22 DIA STAMPED, FOR	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
RM1010A01	35-968-1 VINYL CLS	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HA3100A16	THRUBOLT 10-32 X 8.750	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	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 # 20833

Typical performance - not guaranteed values

Winding: 34WGW990-R002			Type: 3424M		Enclosure: OPEN			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		1	Full Load Torque		3.1 LB-FT			
Volts		208-230/460	Start Configuration		direct on line			
Full Load Amps		3.7-3.4/1.7	Breakdown Torque		11.8 LB-FT			
R.P.M.		1725	Pull-up Torque		8 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		10.5 LB-FT		
NEMA Design Code		B	KVA Code	K	Starting Current		11.4 A	
Service Factor (S.F.)		1.15	No-load Current		1.1 A			
NEMA Nom. Eff.		78.5	Power Factor		70	Line-line Res. @ 25°C		13.4 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		55°C	
S.F. Amps			Temp. Rise @ S.F. Load		71°C			

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	51	63	72	77	81	0
Efficiency	59.6	72.6	77.3	79.1	79.3	78.6	0
Speed	1778	1760	1741	1721	1698	1673	0
Line amperes	1.2	1.3	1.4	1.7	1.9	2.2	1.8

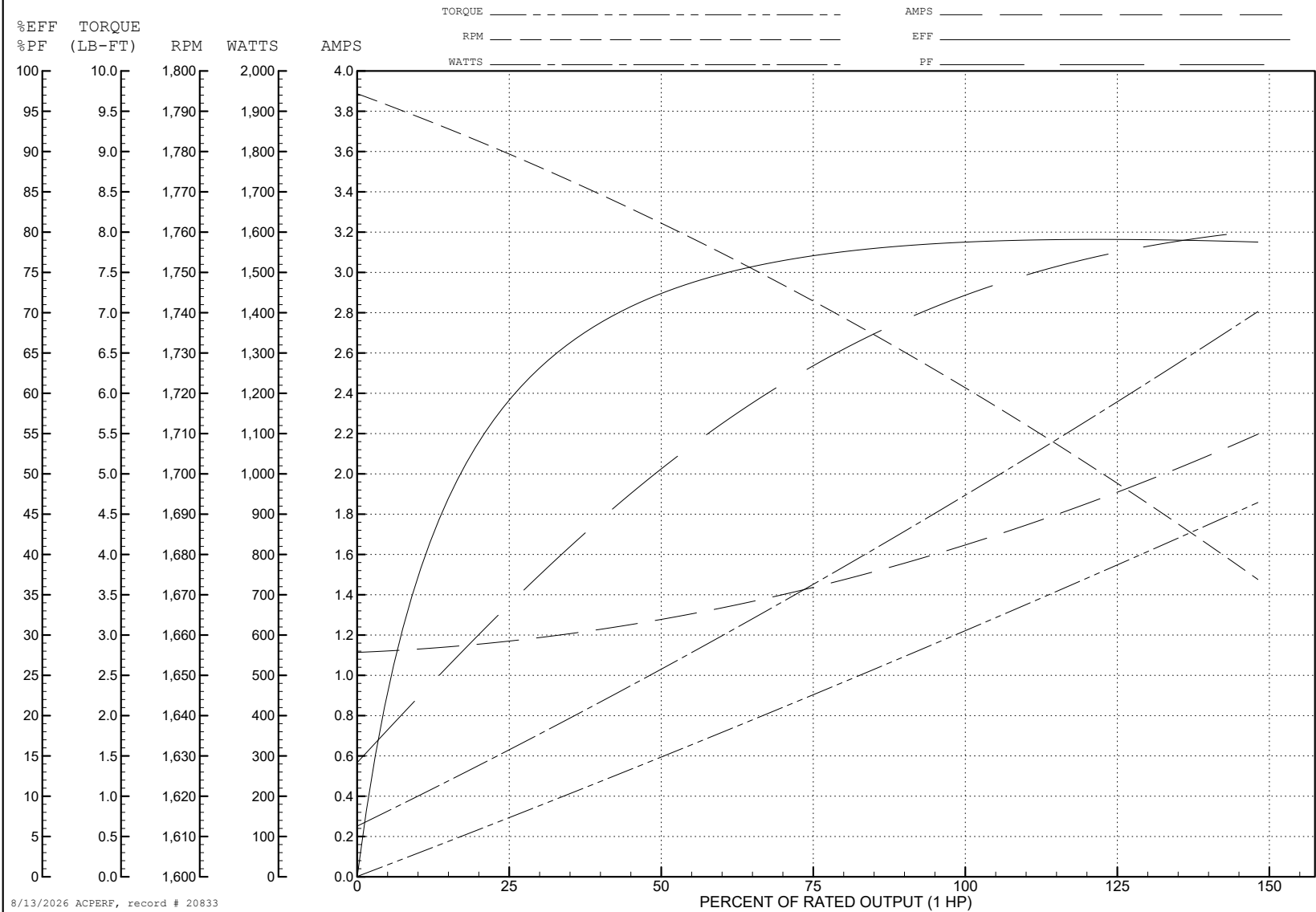
ABB Motors and Mechanical Inc.

WINDING # 34WGW990

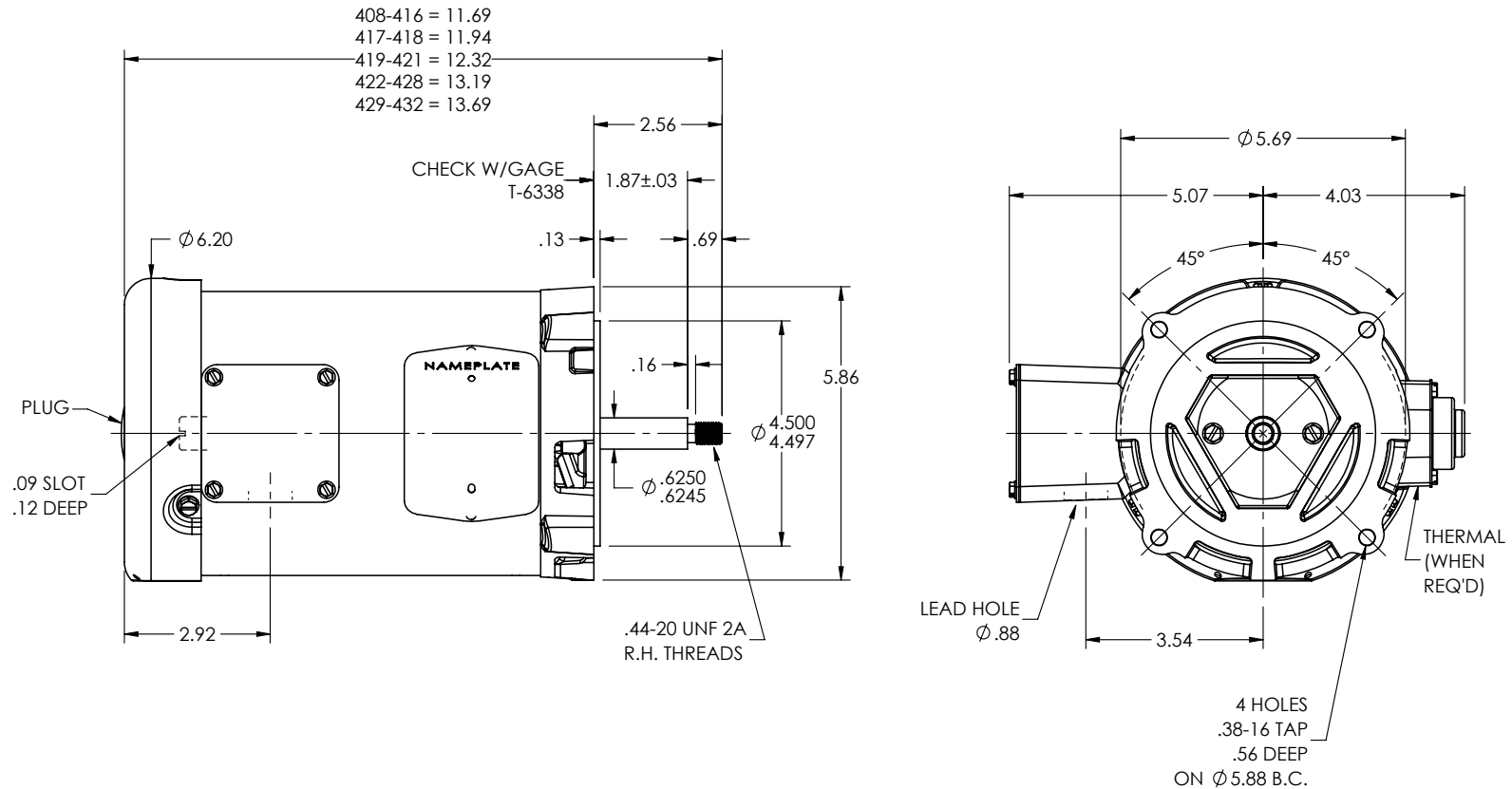
Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1725 RPM 460 V 3424M

TORQUES (LB-FT): PO=11.8 PU=8 LR=10.5 LRA=11.4



34LYF038



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

REV. DESC: CHG'D BAND TO 34SB3981, SHAFT TO 34SH3C22

REV: L	VERSION: 04	REVISED: 08:37:38 07/28/2026	TDR: 000001281747
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34LYF038

MODEL NO. 34LYF038

BY: ENJEFD0

REF: -

BALDOR - RELIANCE®

STD VERT 56J OPEN 34M W/DRIP CVR

34LYF038

