

BALDOR • RELIANCE

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
Auxillary Box	No Auxillary Box
Auxillary 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	U
Type	AC
Mech. spec.	34F038
Base	
Status	PRD/A
Elec. spec.	34WGW990
Layout	34LYF038
Eff. date	11-20-2024
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							

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

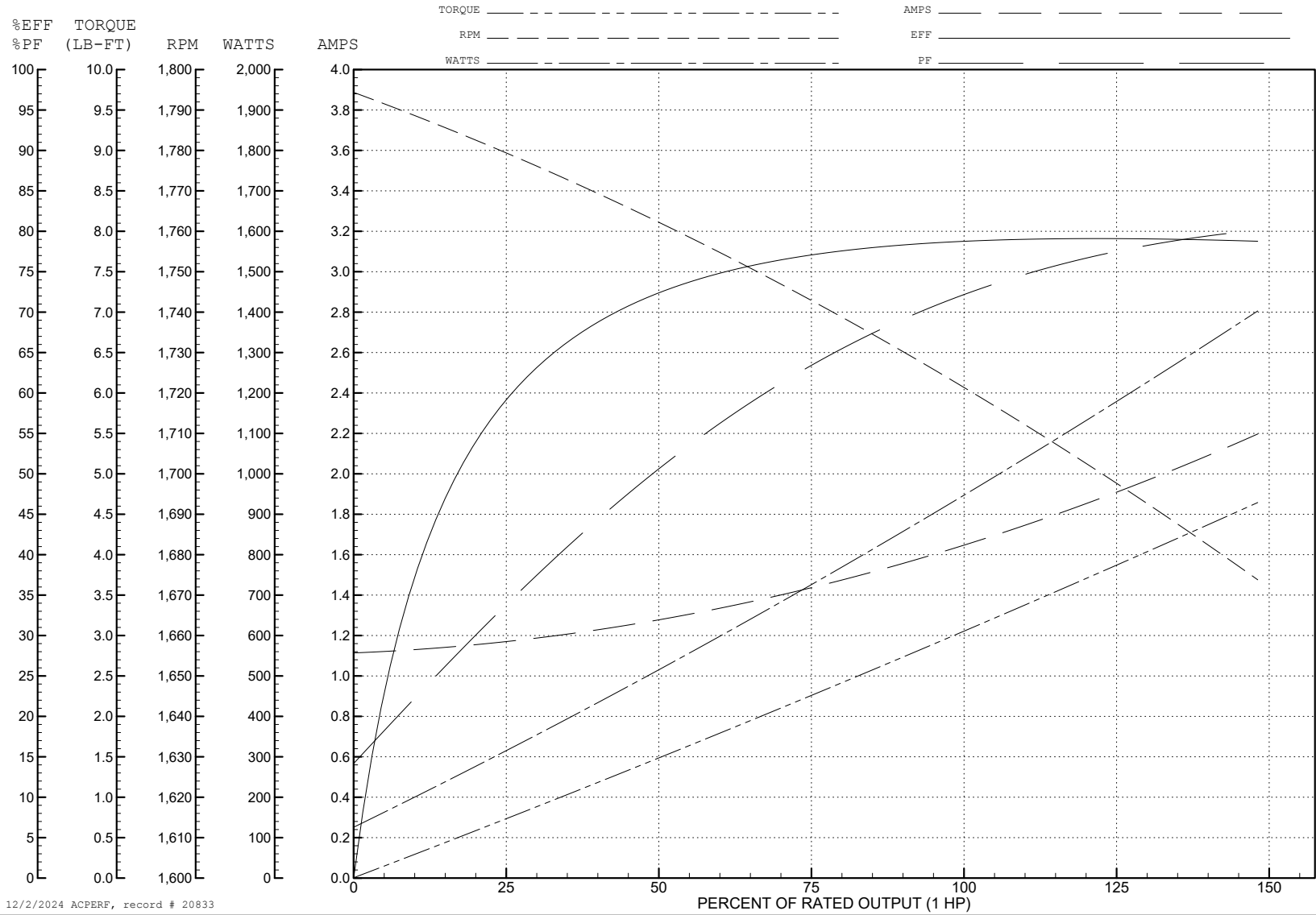
ABB Motors and Mechanical Inc.

WINDING # 34WGW990

Typical performance - not guaranteed values.

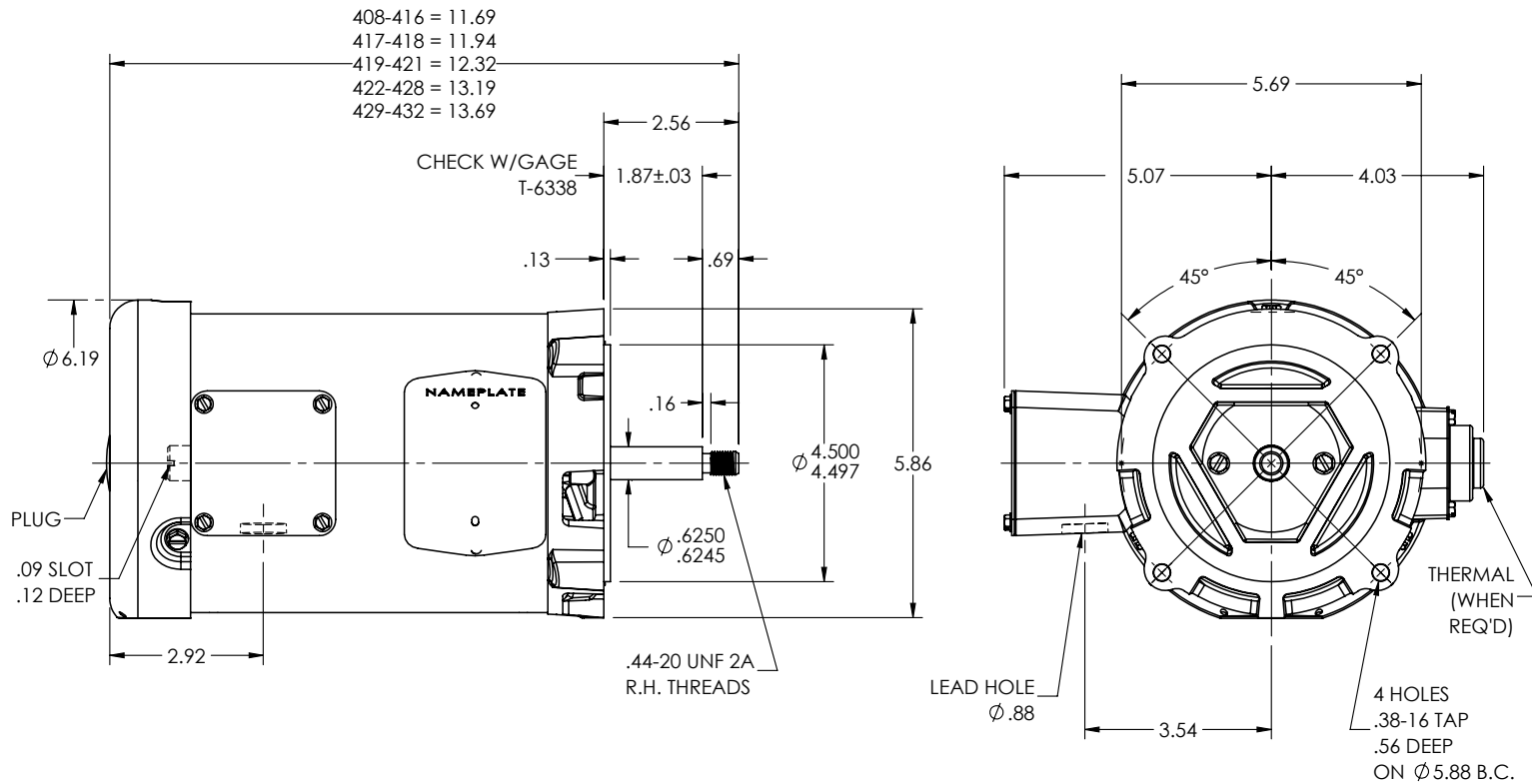
1 HP 3 PH 60 HZ 1725 RPM 460 V 3424M

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



12/2/2024 ACPERF, record # 20833

34LYF038



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

REV. DESC: LOAD TO SOLIDWORKS - REV H			
REV: J	VERSION: 02	REVISED: 09:33:54 12/19/2022	TDR: 000001201165
34LYF038		MODEL NO. 34LYF038	REF: -
		BY: ENFRAJ0	

BALDOR - RELIANCE®

STD VERT 56J OPEN 34M W/DRIP CVR

34LYF038

CD0005



LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS