ABB BALDOR RELIANCE

Customer information packet

JM3112

.75HP, 1725RPM, 3PH, 60HZ, 56J, 3420M, OPEN, F1
Class - None
Division - Not Applicable

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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	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	460.0 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	3.200 A @ 208.0 V
	3.000 A @ 230.0 V
	1.500 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	F
Type	AC
Mech. spec.	34F038
Base	
Status	PRD/A
Elec. spec.	34WGR707
Layout	34LYF038
Eff. date	08-10-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-29-2021

High Voltage Full Load Amps	1.5 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3420M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.34 IN
Power Factor	64
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
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	None
Winding Thermal 2	None

Nameplate

NP1256L											
CAT.NO.	JM3112										
SPEC.	34F038R707										
HP	.75										
VOLTS	208-230/460										
AMP	3.2-3/1.5										
RPM	1725										
FRAME	56J		**HZ**	60			**PH**	3			
SER.F.	1.25	**CODE**	M	**DES**	B	**CLASS**		B			
NEMA-NOM-EFF	75.5	**PF**	64								
RATING	40C AMB-CONT										
CC											
DE	6203		**ODE**	6203							
ENCL	OPEN	**SN**									
	SFA 3.6-3.4/1.7										

AC Induction Motor Performance Data
Record # 85439
Preliminary Data Sheet

Winding: 34WGR707-R001	**Type:** 3420M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			0.75
Volts			208-230/460
Full Load Amps			3.2-3.0/1.5
R.P.M.			1725
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	M
Service Factor (S.F.)			1.25
NEMA Nom. Eff.	77	**Power Factor**	61
Rating - Duty			40C-AMB CONT
S.F. Amps			3.6-3.4/1.7

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	2.27 LB-FT
Start Configuration	direct on line
Breakdown Torque	9.9 LB-FT
Pull-up Torque	7.1 LB-FT
Locked-rotor Torque	9.2 LB-FT
Starting Current	9.8 A
No-load Current	1.08 A
Line-line Res. @ 25ºC	21 Ω
Temp. Rise @ Rated Load	69°C
Temp. Rise @ S.F. Load	83°C
Locked-rotor Power Factor	59.2
Rotor inertia	0.0476 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	29	44	56	66	73	79	73
Efficiency	54.7	68.4	73.5	75.2	75.8	74.9	76.5
Speed	1780	1763	1745	1726	1723	1700	1723
Line amperes	1.09	1.15	1.26	1.4	1.58	1.79	1.58

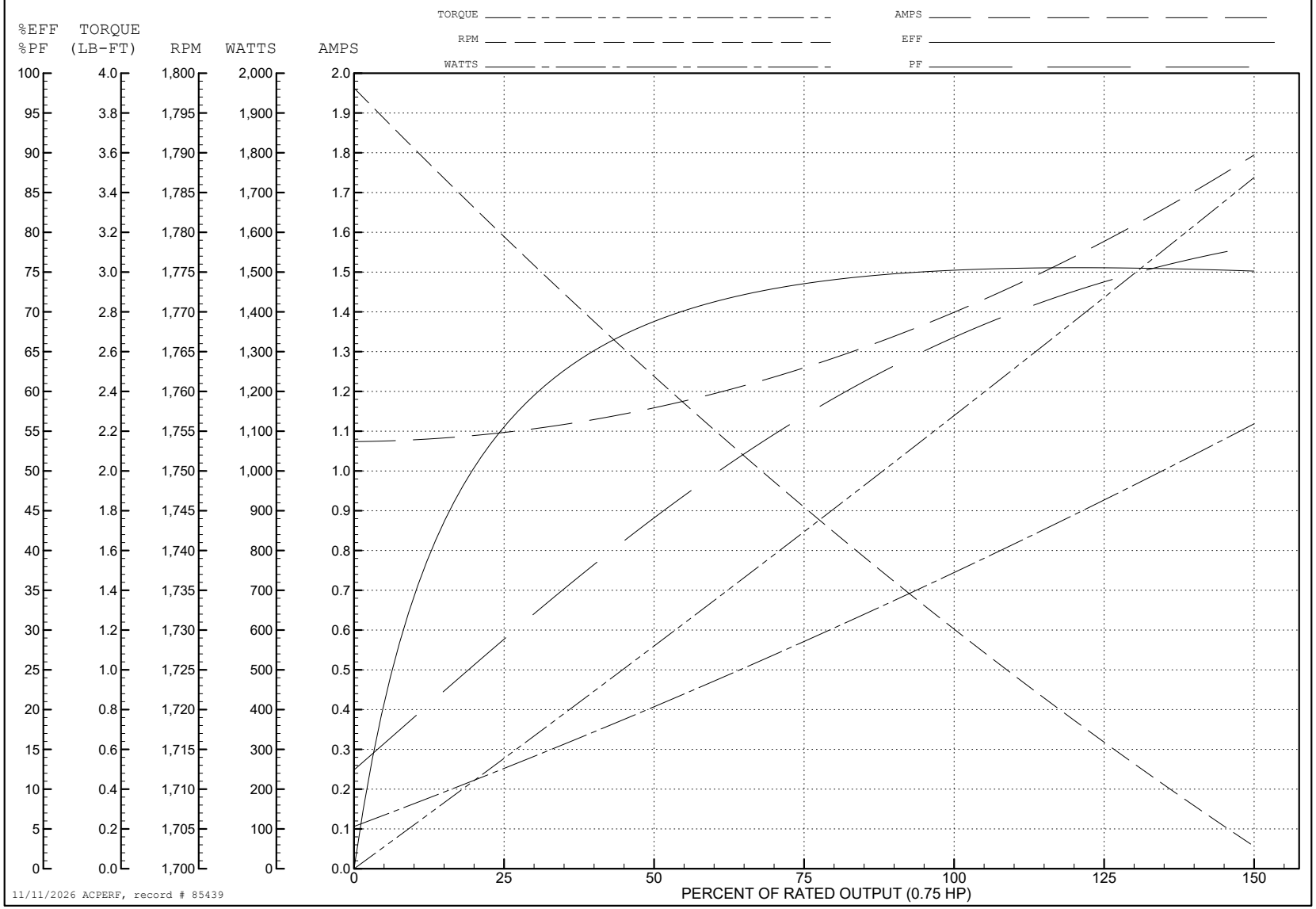
ABB Motors and Mechanical Inc.

WINDING # 34WGR707

0.75 HP 3 PH 60 HZ 1725 RPM 460 V 3420M

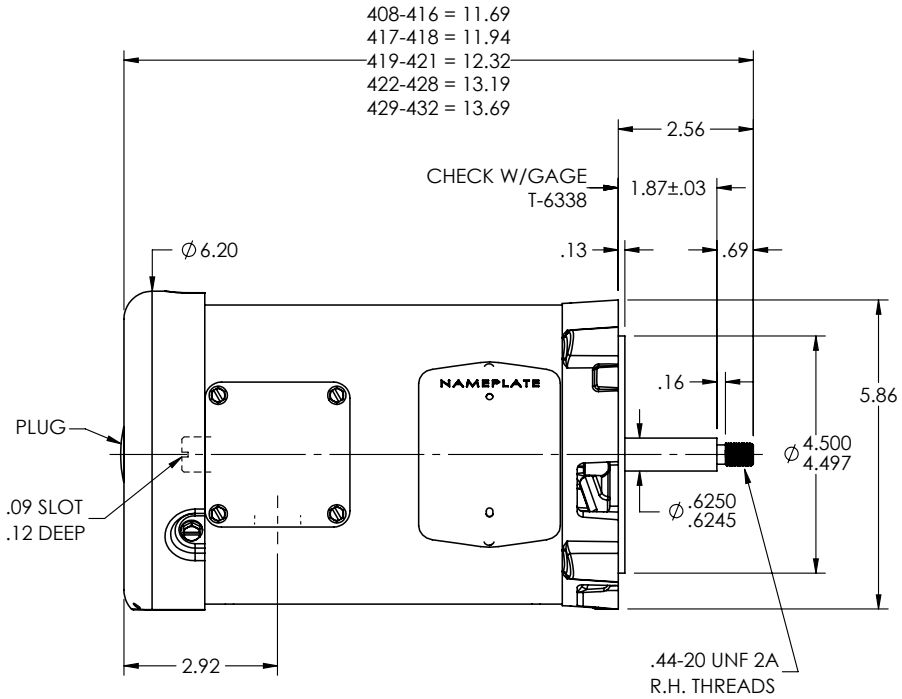
Typical performance - not guaranteed values.

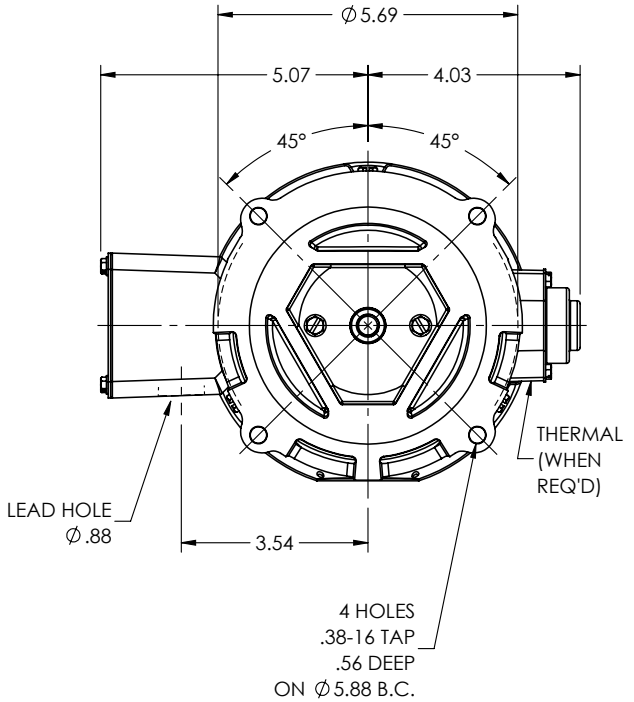
TORQUES(LB-FT): PO=9.9 PU=7.1 LR=9.2 LRA=9.8



11/11/2026 ACPERF, record # 85439

34LYF038





34LYF038

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

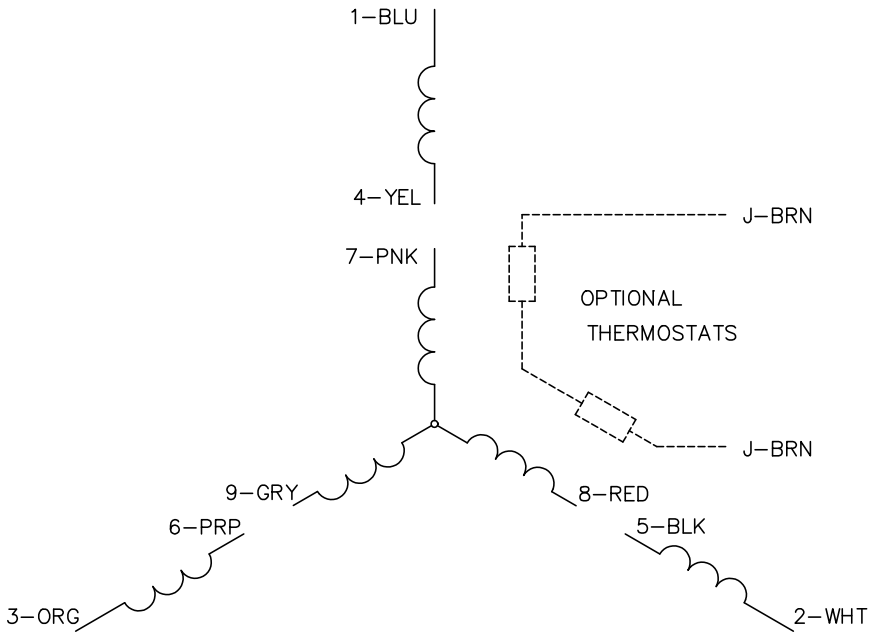
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REV: L	VERSION: 04	REVISED: 08:37:38 07/28/2026	TDR: 000001281747
34LYF038	MODEL NO. 34LYF038		REF: -
	BY: ENJEFD0		

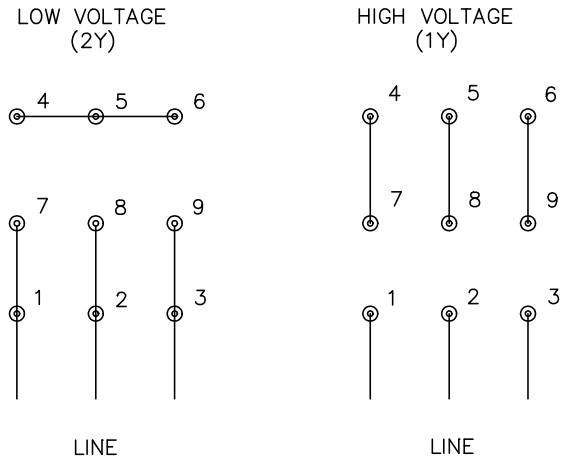
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STD VERT 56J OPEN 34M W/DRIP CVR

34LYF038

CD0005





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			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS