ABB BALDOR RELIANCE

Customer information packet

JM3116

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

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. @ 25ºC**	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

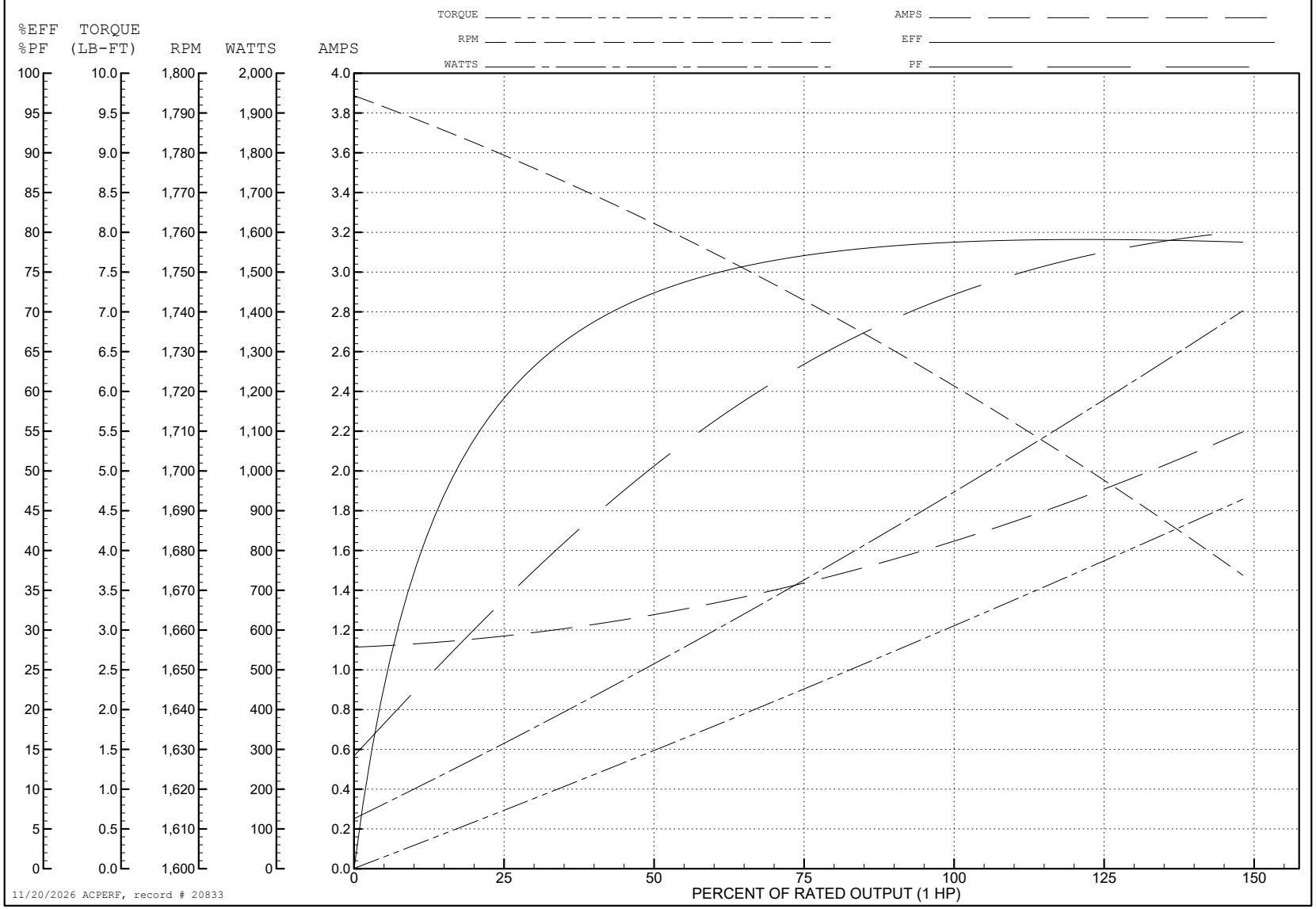
ABB Motors and Mechanical Inc.

WINDING # 34WGW990

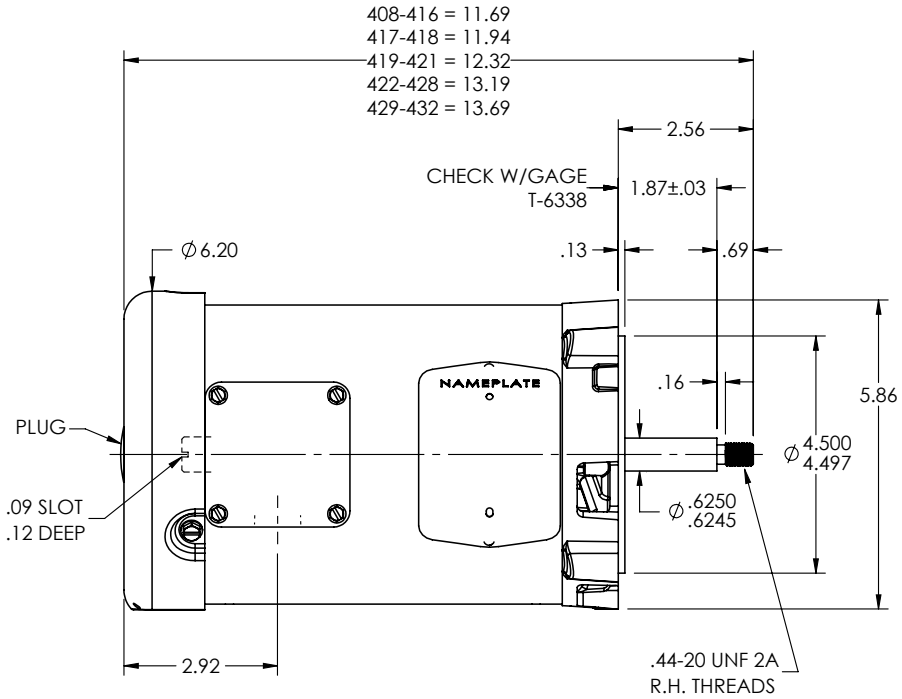
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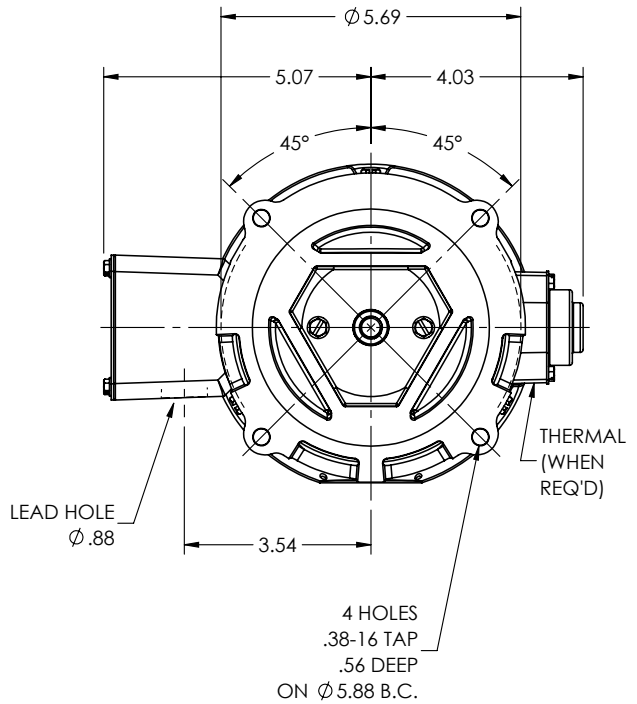
Typical performance - not guaranteed values.

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



34LYF038





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

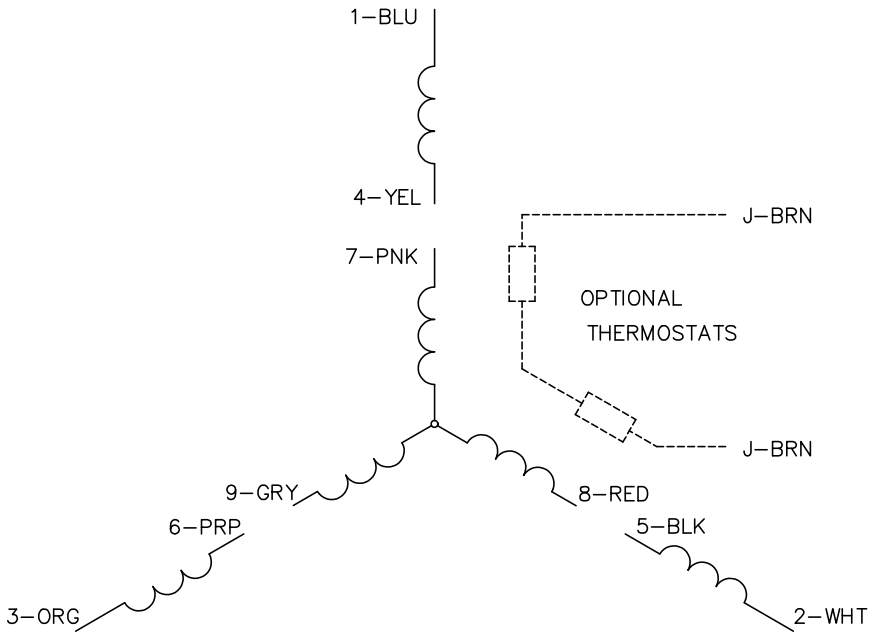
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34LYF038	MODEL NO. 34LYF038		REF: -
	BY: ENJEFD0		

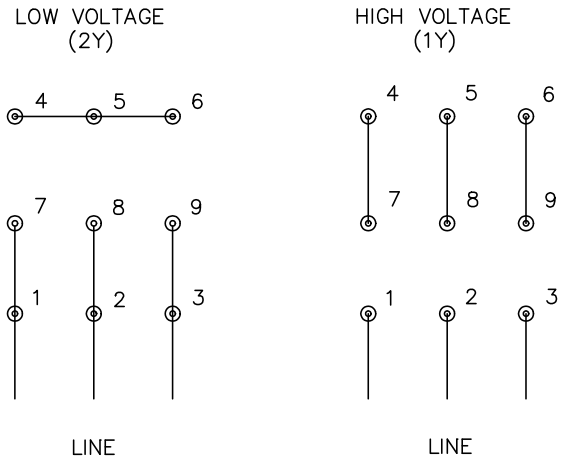
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STD VERT 56J OPEN 34M W/DRIP CVR

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: –
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