ABB BALDOR RELIANCE

Customer information packet

JM3542

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

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Specifications

Enclosure	TEFC
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	230.0 V @ 60 HZ
	460.0 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	1.500 A @ 460.0 V
	3.000 A @ 230.0 V
Design Code	B
Drip Cover	No 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
High Voltage Full Load Amps	1.5 a
Insulation Class	B

Part Detail

Revision	B
Type	AC
Mech. spec.	34K036
Base	
Status	PRD/A
Elec. spec.	34WGR707
Layout	34LYK036
Eff. date	10-28-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	02-01-2021

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	11.84 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
RoHS Status	ROHS COMPLIANT
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.	JM3542											
SPEC.	34K036R707											
HP	.75											
VOLTS	230/460											
AMP	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	TEFC	**SN**										
	SFA 3.4/1.7											

Accessories

Part number	Description	Multiplier
34-171	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 86454
Preliminary Data Sheet

Winding: 34WGR707-R005	**Type:** 3420M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			0.75	**Full Load Torque**	2.27 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			3.0/1.5	**Breakdown Torque**	9.93 LB-FT
R.P.M.			1725	**Pull-up Torque**	7.06 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	9.17 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	9.78 A
Service Factor (S.F.)			1.25	**No-load Current**	1.08 A
NEMA Nom. Eff.	77	**Power Factor**	61	**Line-line Res. @ 25ºC**	21.8 Ω
Rating - Duty			40C-AMB CONT	**Temp. Rise @ Rated Load**	69°C
S.F. Amps			3.4/1.7	**Temp. Rise @ S.F. Load**	105°C
				Locked-rotor Power Factor	76.9
				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	57	66	73	79	73
Efficiency	57.5	70.7	75.3	76.7	76.5	75.2	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

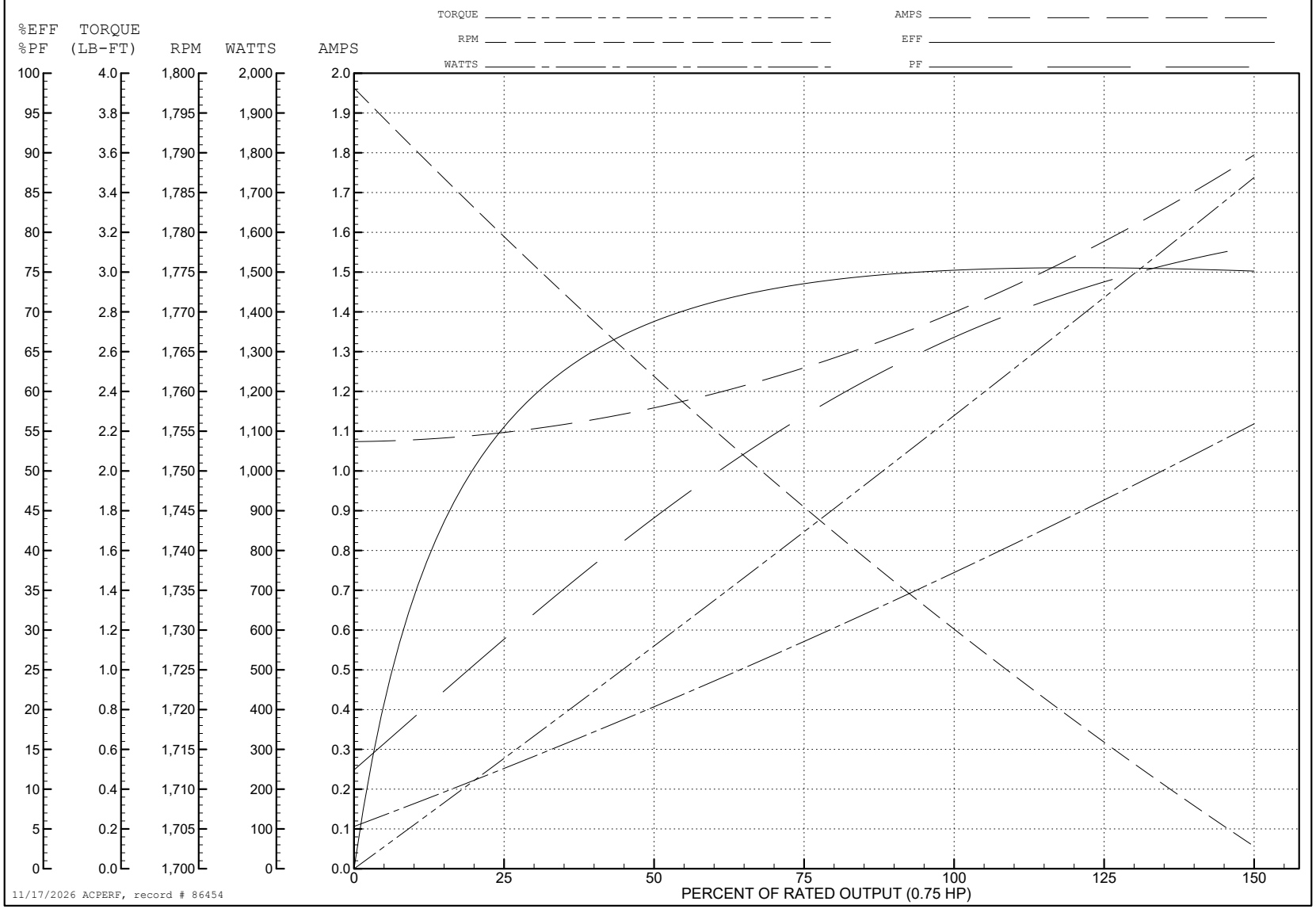
ABB Motors and Mechanical Inc.

WINDING # 34WGR707

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

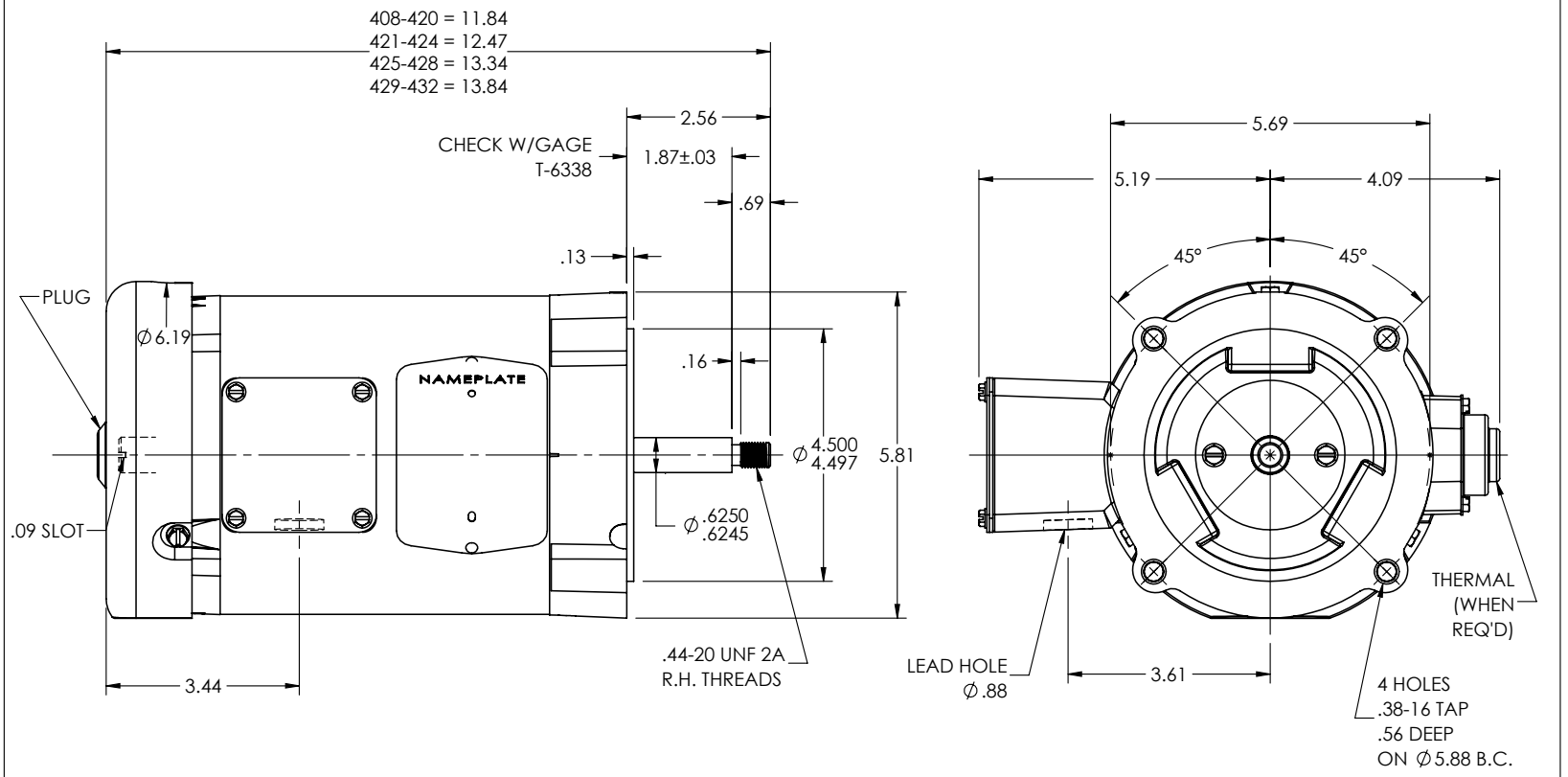
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=9.93 PU=7.06 LR=9.17 LRA=9.78



11/17/2026 ACPERF, record # 86454

34LYK036



34LYK036

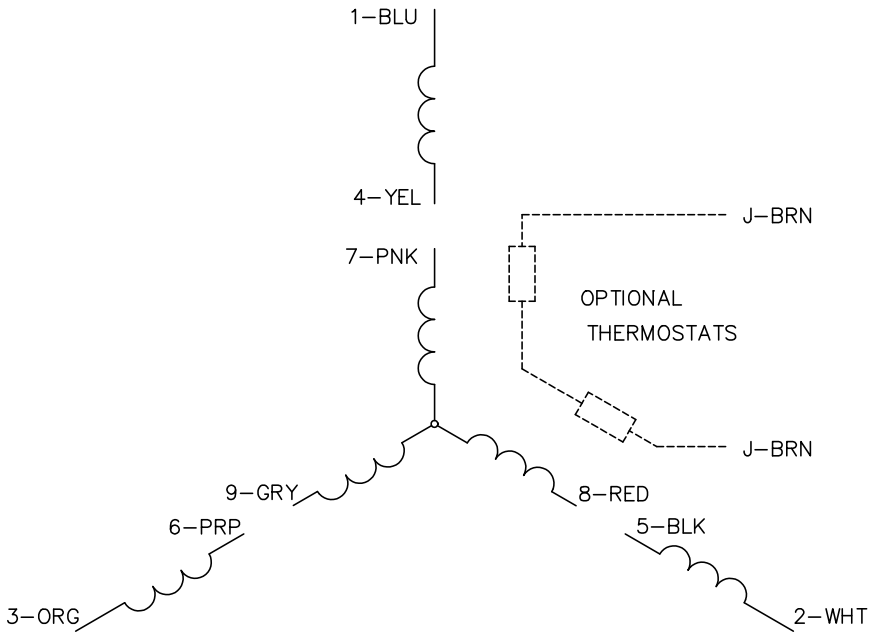
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

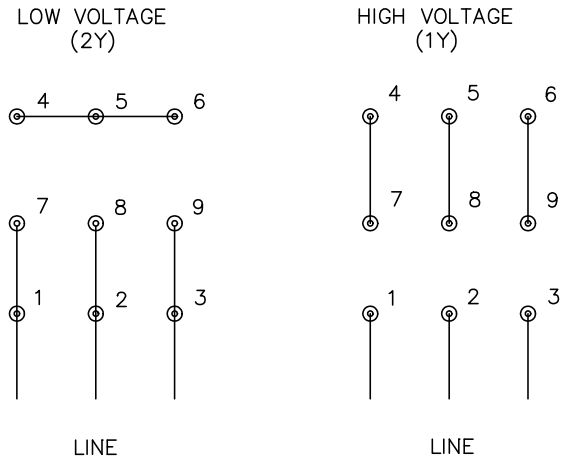
REV. DESC: LOAD TO SOLIDWORKS - REV G			
REV: H	VERSION: 03	REVISED: 04:25:22 12/19/2022	TDR: 000001201165
34LYK036	MODEL NO. 34LYK036		REF: -
	BY: ENFRAJ0		

BALDOR - RELIANCE®

STD VERT MODEL 34M NEMA 56J TEFC

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