ABB BALDOR RELIANCE

Customer information packet

JM3550

1.5HP, 3450RPM, 3PH, 60HZ, 56J, 3424M, 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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CURUS
	C UR US
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	2.300 A @ 460.0 V
	4.600 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a

Part Detail

Revision	N
Type	AC
Mech. spec.	34K036
Base	
Status	PRD/A
Elec. spec.	34WG0283
Layout	34LYK036
Eff. date	10-28-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	09-21-2007

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
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	2
Overall Length	12.47 IN
Power Factor	74
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	1.30
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	3450 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.	JM3550X								
SPEC.	34K036-0283G1								
HP	1.5								
VOLTS	230/460								
AMP	4.6/2.3								
RPM	3450 SFA 5.4/2.7								
FRAME	56J	**HZ**	60			**PH**	3		
SER.F.	1.30	**CODE**	L	**DES**	B	**CLASS**	F		
NEMA-NOM-EFF	80	**PF**	74						
RATING	40C AMB-CONT								
CC									
DE	6203	**ODE**	6203						
ENCL	TEFC	**SN**							
	NOT FOR USE IN USA								

AC Induction Motor Performance Data
Record # 36341
Typical performance - not guaranteed values

Winding: 34WG0283-R019	**Type:** 3424M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	2.25 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			4.6/2.3	**Breakdown Torque**	10.6 LB-FT
R.P.M.			3450	**Pull-up Torque**	10 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	11.7 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	18.4 A
Service Factor (S.F.)			1.3	**No-load Current**	1.4 A
NEMA Nom. Eff.	80	**Power Factor**	74	**Line-line Res. @ 25ºC**	8.53 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	71°C
S.F. Amps			5.4/2.7	**Temp. Rise @ S.F. Load**	83°C
				Locked-rotor Power Factor	67
				Rotor inertia	0.0223 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	39	57	68	76	81	84	79
Efficiency	70.7	79.6	81.8	82.3	81.7	80.6	81.9
Speed	3564	3533	3501	3466	3429	3394	3444
Line amperes	1.5	1.7	2	2.3	2.7	3	2.54

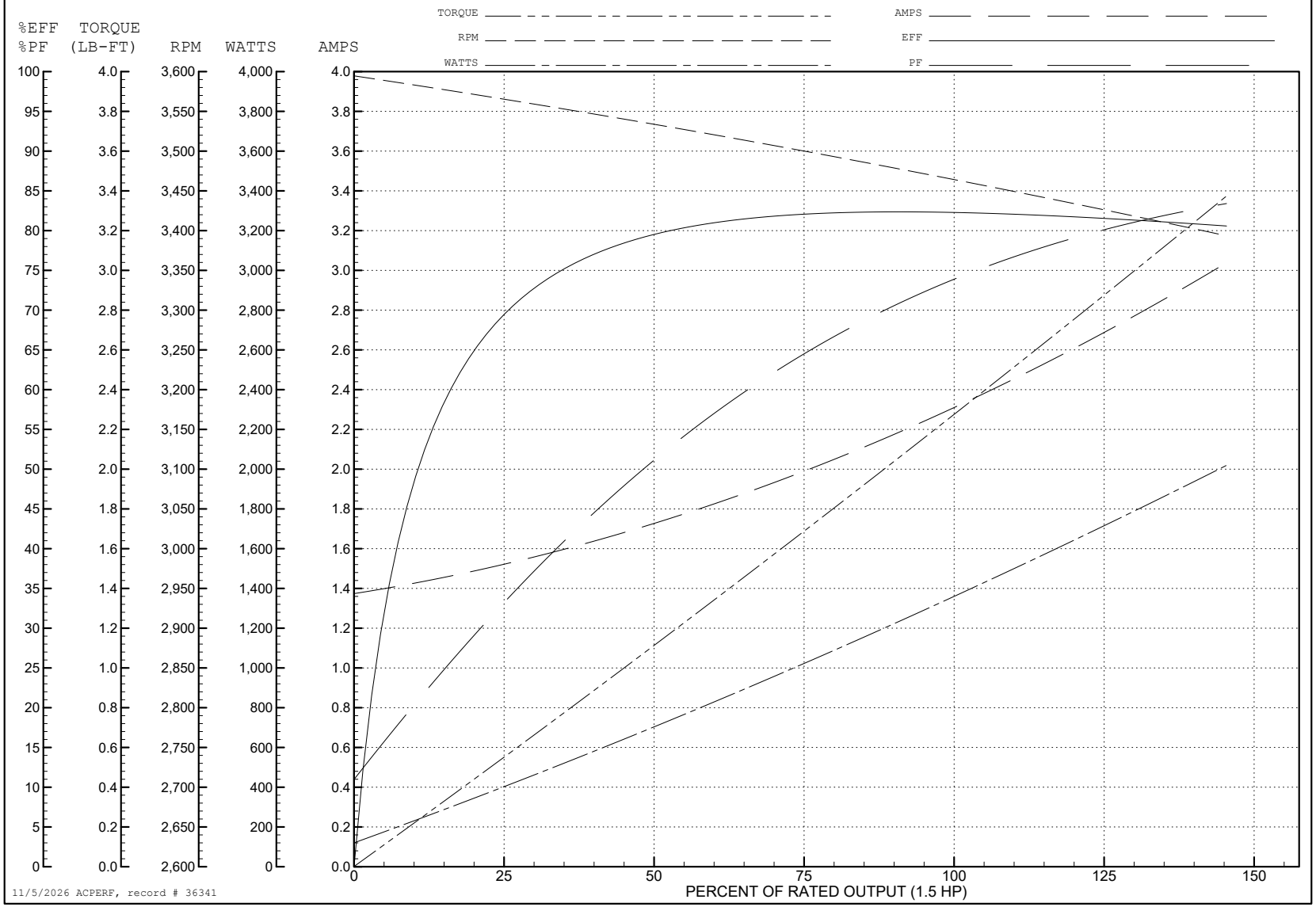
ABB Motors and Mechanical Inc.

WINDING # 34WG0283

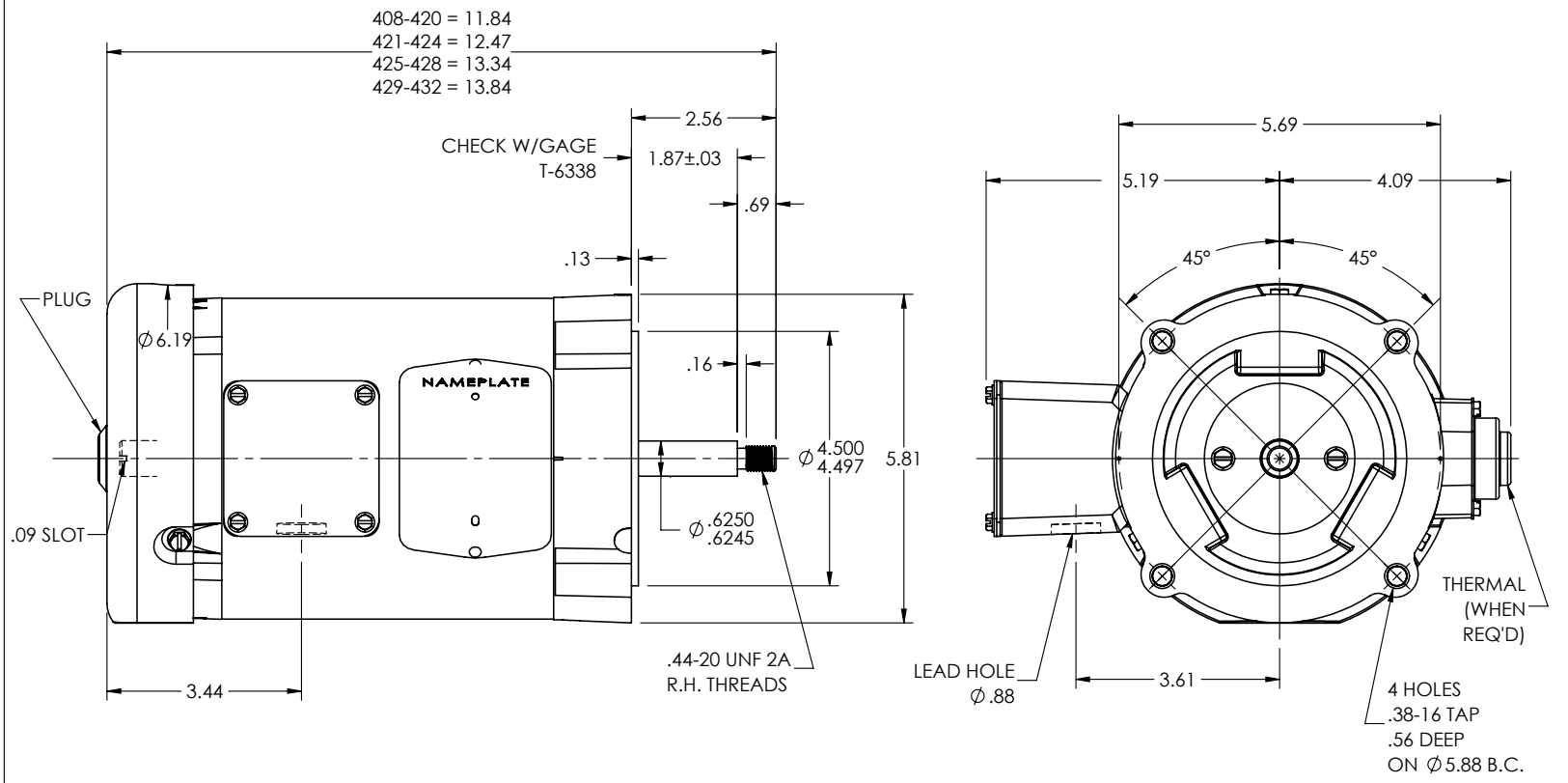
1.5 HP 3 PH 60 HZ 3450 RPM 460 V 3424M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=10.6 PU=10 LR=11.7 LRA=18.4



34LYK036



34LYK036

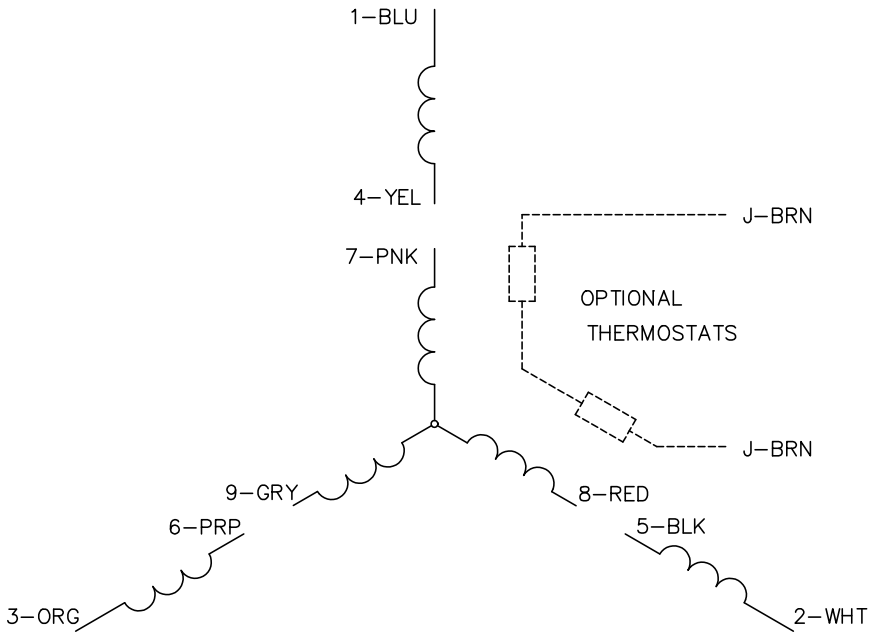
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

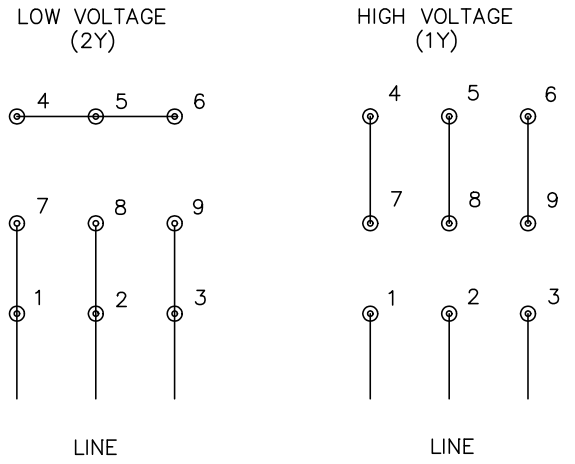
REV. DESC: LOAD TO SOLIDWORKS - REV G			
REV: H	VERSION: 03	REVISED: 04:25:22 12/19/2022	TDR: 000001201165
34LYK036	MODEL NO. 34LYK036		REF: -
	BY: ENFRAJ0		

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