

ABB BALDOR RELIANCE III

Customer information packet

KNM3454

.25HP, 1735RPM, 3PH, 60HZ, 56C, 3410M, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	56C
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	.250 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	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	1.200 A @ 230.0 V 1.100 A @ 208.0 V .600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	62.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.6 a

Part Detail

Revision	B
Type	AC
Mech. spec.	34K013
Base	
Status	PRD/A
Elec. spec.	34WGR713
Layout	34LYK013
Eff. date	07-30-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-01-0001

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
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	3410M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	10.25 IN
Power Factor	63
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1735 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.	KNM3454										
SPEC.	34K013R713										
HP	.25										
VOLTS	208-230/460										
AMP	1.1-1.2/.6										
RPM	1735										
FRAME	56C		HZ	60				PH	3		
SER.F.	1.00		CODE	L	DES	B		CLASS	F		
NEMA-NOM-EFF	62		PF	63							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE	6203							
ENCL	TENV		SN								

AC Induction Motor Performance Data

Record # 86756

Preliminary Data Sheet

Winding: 34WGR713-R002			Type: 3410M		Enclosure: TENV	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		0.25	Full Load Torque		0.76 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		1.1-1.2/0.6	Breakdown Torque		2.77 LB-FT	
R.P.M.		1735	Pull-up Torque		1.83 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		2.03 LB-FT
NEMA Design Code		B	KVA Code		L	
Service Factor (S.F.)		1	Starting Current		2.89 A	
NEMA Nom. Eff.		63.4	Power Factor		63	
Rating - Duty		40C	AMB-CONT			
			Line-line Res. @ 25°C		98.9 Ω	
			Temp. Rise @ Rated Load		57°C	
			Locked-rotor Power Factor		84.1	
			Rotor inertia		0.0238 lb-ft²	

Load Characteristics 460 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	33	43	54	63	71	78
Efficiency	34.9	50.2	58.6	63.4	65.6	66.1
Speed	1781	1767	1751	1733	1713	1690
Line amperes	0.547	0.552	0.568	0.598	0.64	0.695

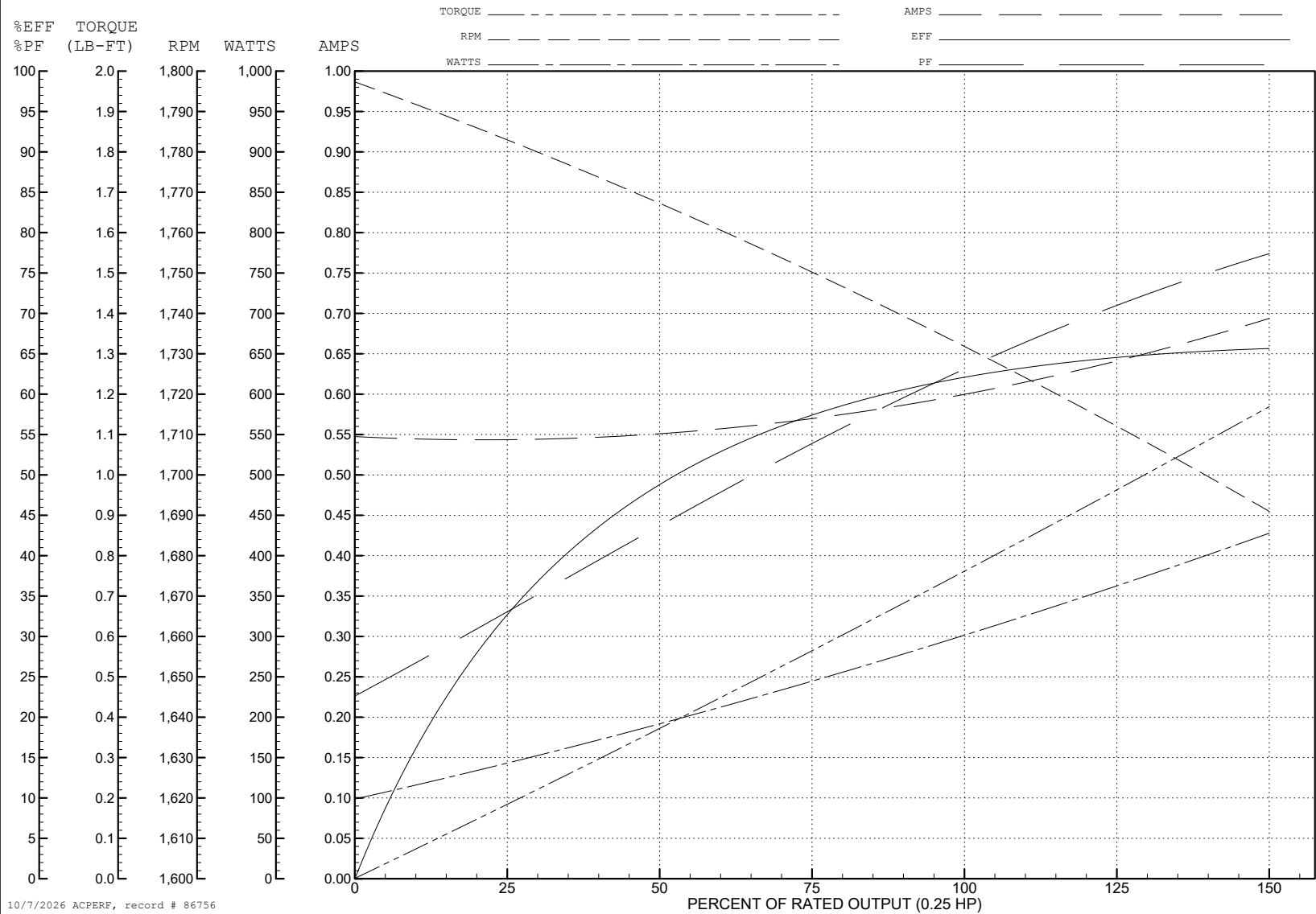
ABB Motors and Mechanical Inc.

WINDING # 34WGR713

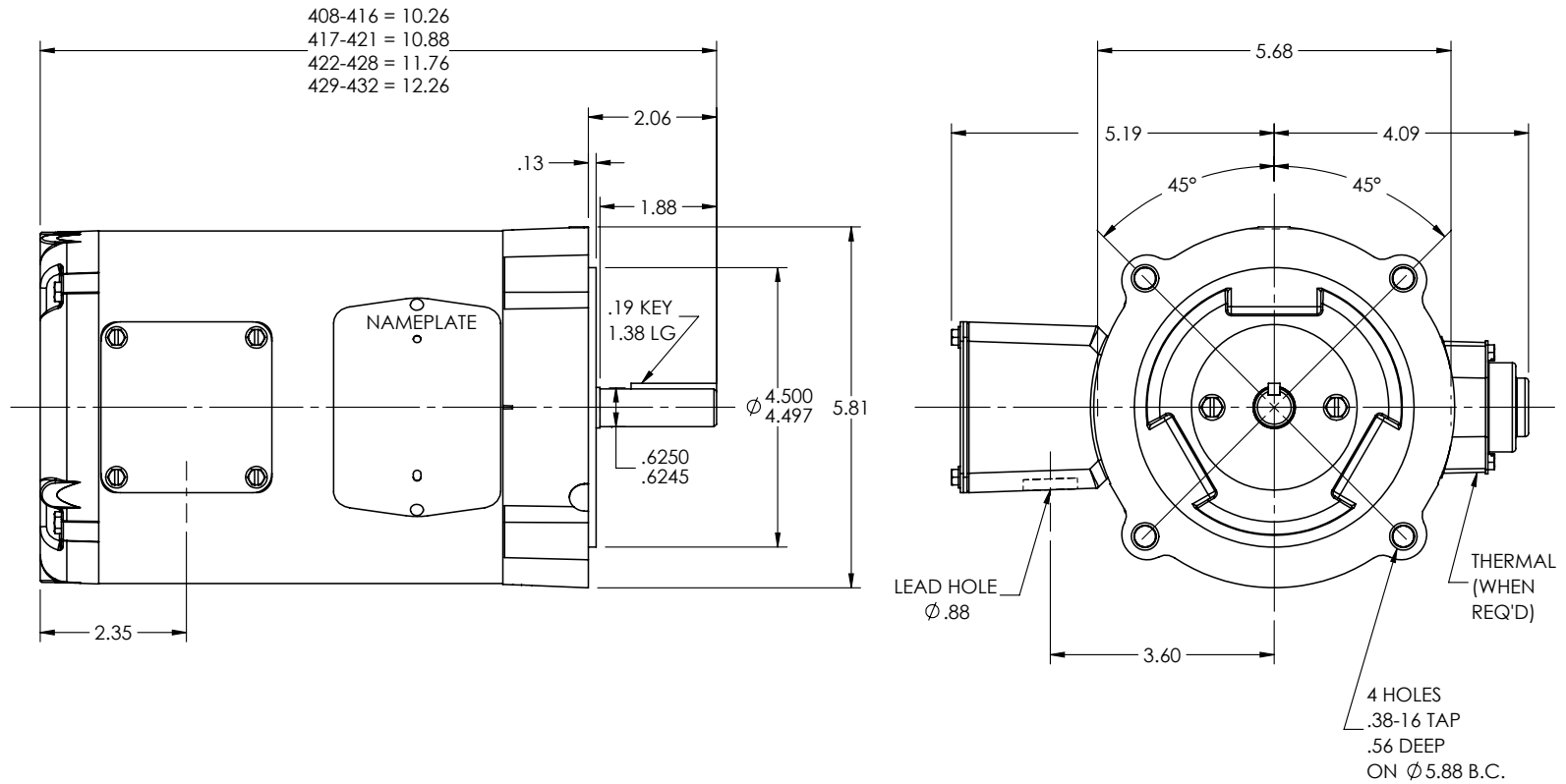
Typical performance - not guaranteed values.

0.25 HP 3 PH 60 HZ 1735 RPM 460 V 3410M

TORQUES (LB-FT) : PO=2.77 PU=1.83 LR=2.03 LRA=2.89



34LYK013



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

REV. DESC: LOAD - REV E

REV: F

VERSION: 03

REVISED: 10:58:09 09/22/2022

TDR: 000001194274

34LYK013

MODEL NO. 34LYK013

BY: ENFRAJ0

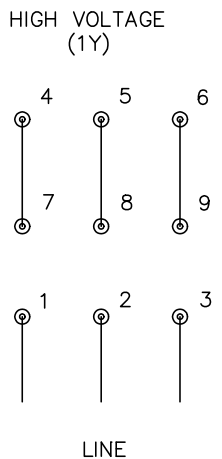
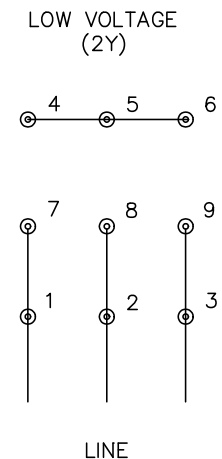
REF: -

BALDOR - RELIANCE®

STD VERT 34M NEMA 56C TENV

34LYK013

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.

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

CD0005