

ABB BALDOR RELIANCE III

Customer information packet

CNM3457

.33HP, 3450RPM, 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	.330 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	C UR US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	.700 A @ 460.0 V 1.400 A @ 230.0 V 1.600 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	G
Type	AC
Mech. spec.	34K008
Base	
Status	PRD/A
Elec. spec.	34WGY170
Layout	34LYK008
Eff. date	10-25-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	06-18-2008

High Voltage Full Load Amps	0.7 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	P
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	3410M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	10.25 IN
Power Factor	64
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	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.	CNM3457										
SPEC.	34K008Y170G3										
HP	.33										
VOLTS	208-230/460										
AMP	1.6-1.4/.7										
RPM	3450										
FRAME	56C		HZ	60				PH	3		
SER.F.	1.15		CODE	P	DES	B		CLASS		B	
NEMA-NOM-EFF	72		PF	64							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE	6203							
ENCL	TENV		SN								

AC Induction Motor Performance Data

Record # 36362

Typical performance - not guaranteed values

Winding: 34WGY170-R006			Type: 3410M		Enclosure: TENV		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.33	Full Load Torque		0.5 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		1.6-1.4/.7	Breakdown Torque		3.4 LB-FT		
R.P.M.		3450	Pull-up Torque		2.4 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		2.6 LB-FT	
NEMA Design Code		B	KVA Code	P	Starting Current		5.8 A
Service Factor (S.F.)		1.15	No-load Current		0.56 A		
NEMA Nom. Eff.		72	Power Factor	64	Line-line Res. @ 25°C		31.3 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		57°C
S.F. Amps					Temp. Rise @ S.F. Load		62°C
					Locked-rotor Power Factor		71
					Rotor inertia		0.0093 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	43	53	64	70	78	73
Efficiency	43.6	61.9	68.2	72.8	74.4	75.8	75
Speed	3569	3544	3526	3497	3477	3444	3464
Line amperes	0.57	0.6	0.63	0.68	0.71	0.79	0.742

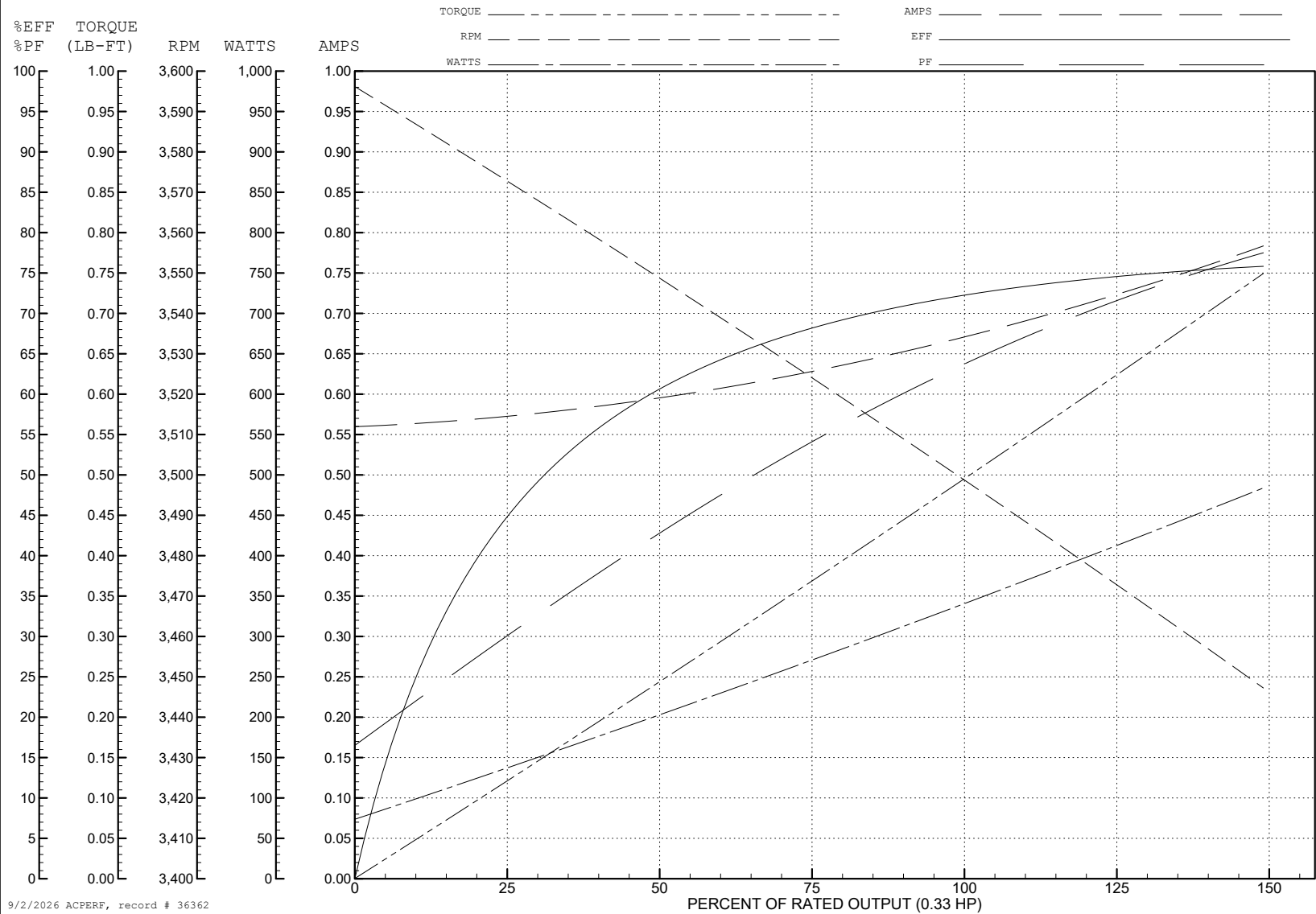
ABB Motors and Mechanical Inc.

WINDING # 34WGY170

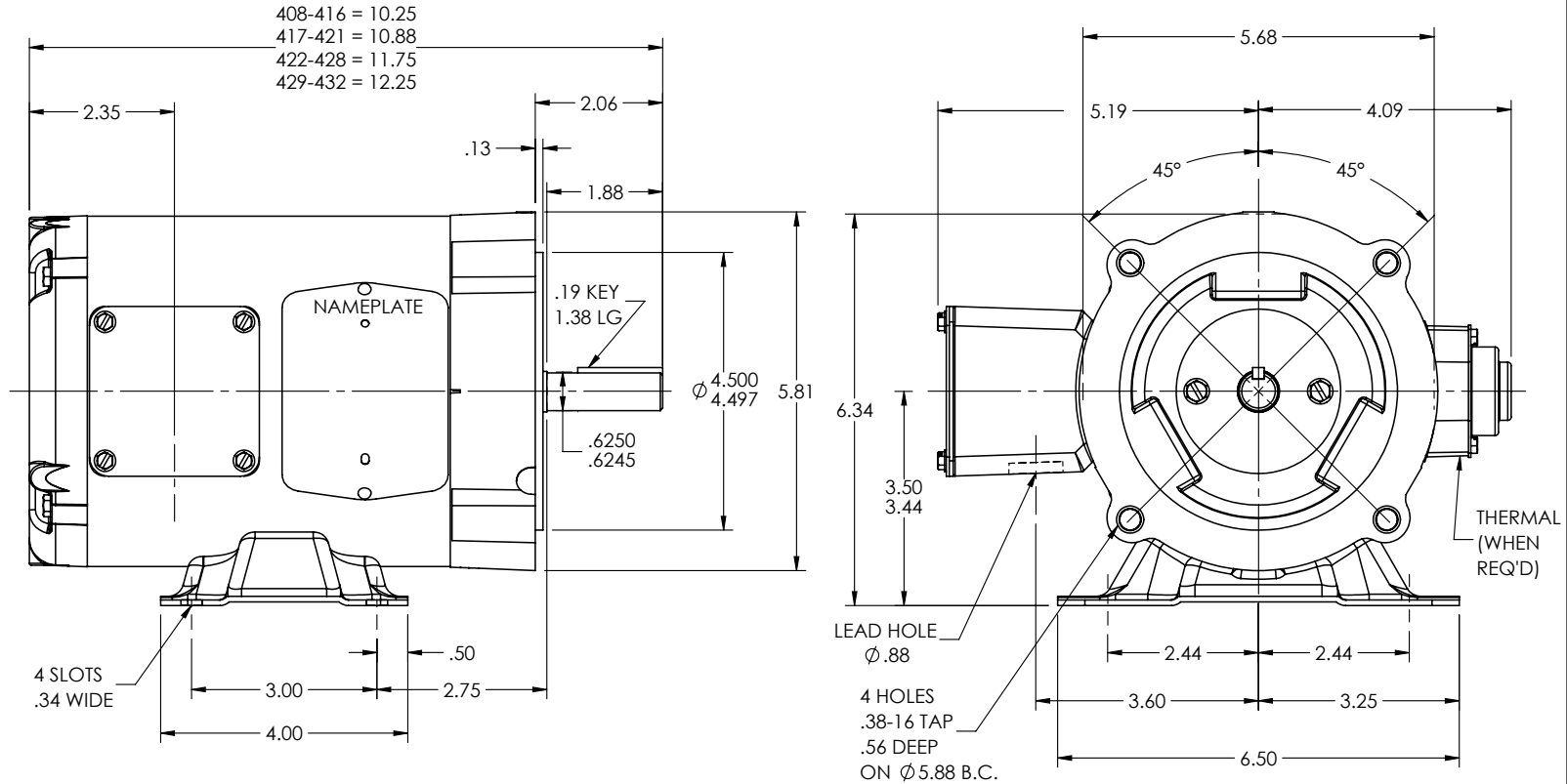
Typical performance - not guaranteed values.

0.33 HP 3 PH 60 HZ 3450 RPM 460 V 3410M

TORQUES (LB-FT) : PO=3.4 PU=2.4 LR=2.6 LRA=5.8



34LYK008



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

REV. DESC: LOAD TO SOLIDWORKS

REV: H

VERSION: 04

REVISED: 09:39:49 08/10/2022

TDR: 000001194274

800XLT4C

MODEL NO. 34LYK008

BY: ENFRAJ0

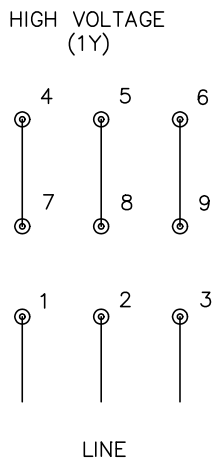
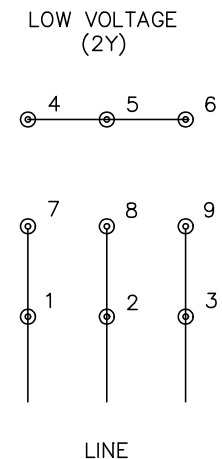
REF: -

BALDOR - RELIANCE®

STD HORZ 34M NEMA 56C TENV

34LYK008

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