ABB BALDOR RELIANCE

Customer information packet

CNM3457

.33HP, 3450RPM, 3PH, 60HZ, 56C, 3410M, TENV, F1
Class - None
Division - Not Applicable

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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

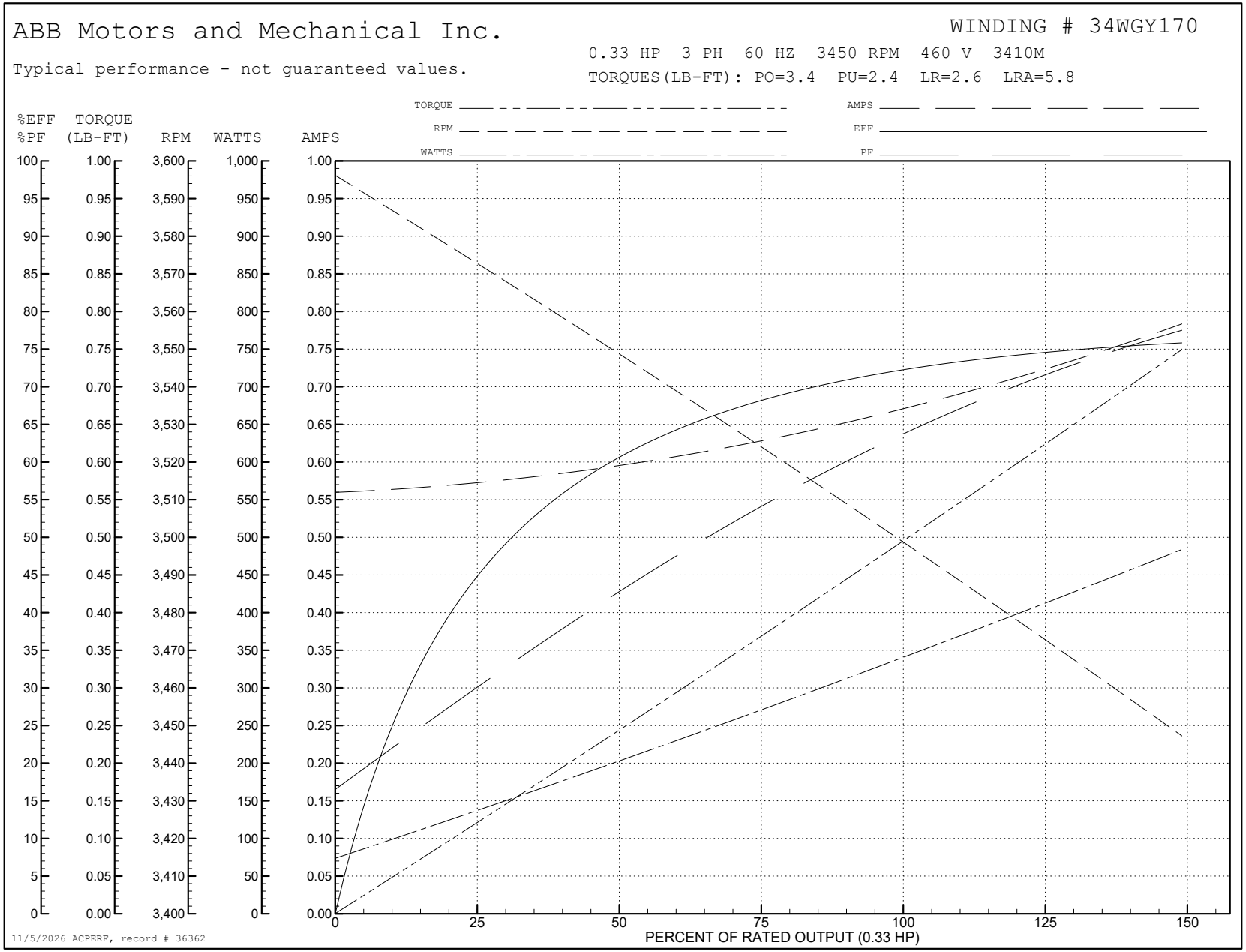
Winding: 34WGY170-R006	**Type:** 3410M	**Enclosure:** TENV

Nameplate Data			
Rated Output (HP)			.33
Volts			208-230/460
Full Load Amps			1.6-1.4/.7
R.P.M.			3450
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	P
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	72	**Power Factor**	64
Rating - Duty			40C AMB-CONT
S.F. Amps			

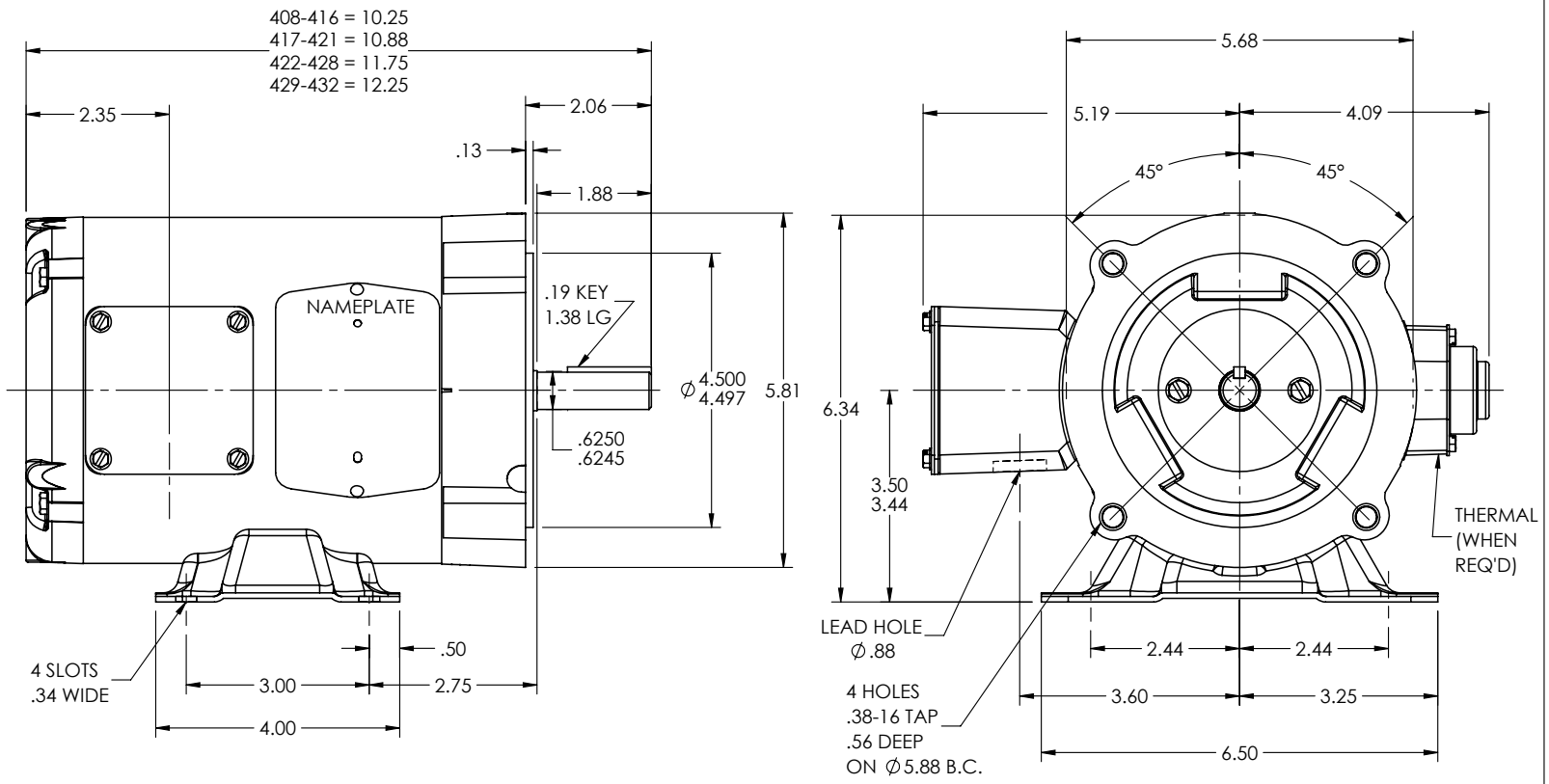
460 V, 60 Hz: High Voltage Connection	
Full Load Torque	0.5 LB-FT
Start Configuration	direct on line
Breakdown Torque	3.4 LB-FT
Pull-up Torque	2.4 LB-FT
Locked-rotor Torque	2.6 LB-FT
Starting Current	5.8 A
No-load Current	0.56 A
Line-line Res. @ 25ºC	31.3 Ω
Temp. Rise @ Rated Load	57°C
Temp. Rise @ S.F. 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
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0
1.00 0.95 0.90 0.85 0.80 0.75 0.70 0.65 0.60 0.55 0.50 0.45 0.40 0.35 0.30 0.25 0.20 0.15 0.10 0.05 0.00
3,600 3,590 3,580 3,570 3,560 3,550 3,540 3,530 3,520 3,510 3,500 3,490 3,480 3,470 3,460 3,450 3,440 3,430 3,420 3,410 3,400
1,000 950 900 850 800 750 700 650 600 550 500 450 400 350 300 250 200 150 100 50 0
1.00 0.95 0.90 0.85 0.80 0.75 0.70 0.65 0.60 0.55 0.50 0.45 0.40 0.35 0.30 0.25 0.20 0.15 0.10 0.05 0.00
0 25 50 75 100 125 150
PERCENT OF RATED OUTPUT (0.33 HP)
11/5/2026 ACPERF, record # 36362

34LYK008



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

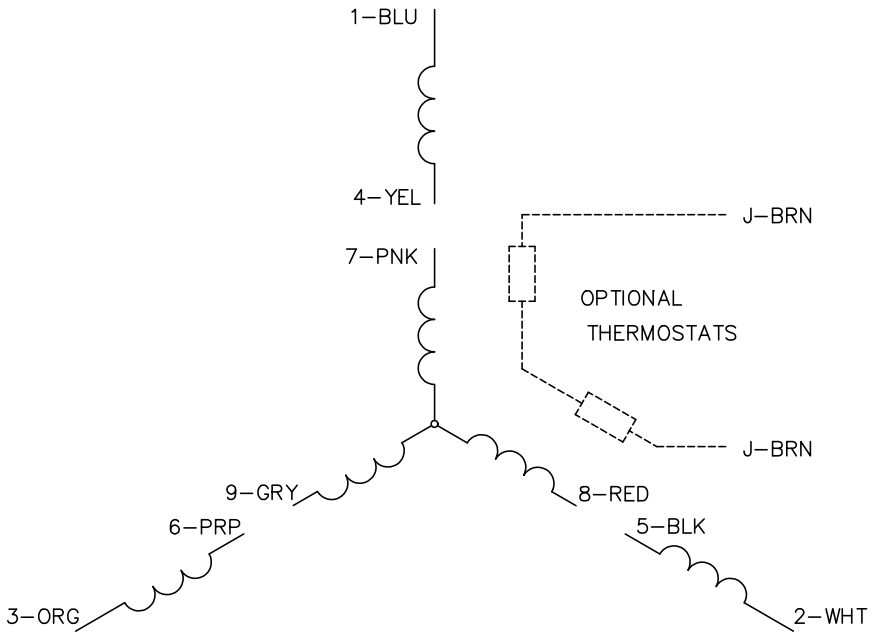
REV. DESC: LOAD TO SOLIDWORKS			
REV: H	VERSION: 04	REVISED: 09:39:49 08/10/2022	TDR: 000001194274
34LYK008	MODEL NO. 34LYK008		REF: -
	BY: ENFRAJ0		

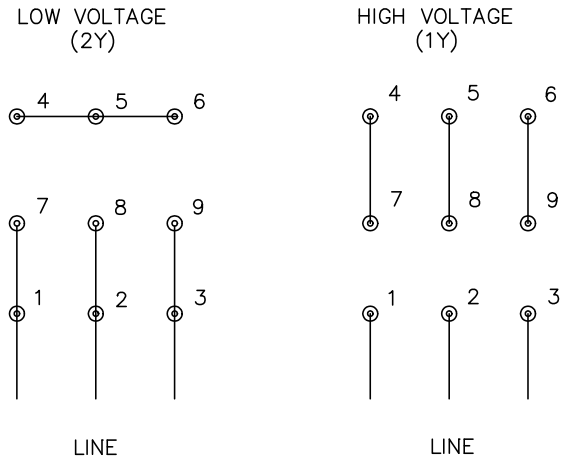
BALDOR - RELIANCE®

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.

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