ABB BALDOR RELIANCE

Customer information packet

KM3457

.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	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	No Mounting
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
High Voltage Full Load Amps	0.7 a

Part Detail

Revision	M
Type	AC
Mech. spec.	34K013
Base	
Status	PRD/A
Elec. spec.	34WGY170
Layout	34LYK013
Eff. date	10-25-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	01-01-0001

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
RoHS Status	ROHS COMPLIANT
Service Factor	1.35
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.	KM3457							
SPEC.	34K013Y170							
HP	.33							
VOLTS	230/460							
AMP	1.4/.7							
RPM	3450							
FRAME	56C	**HZ**	60			**PH**	3	
SER.F.	1.35	**CODE**	P	**DES**	B	**CLASS**	B	
NEMA-NOM-EFF	72	**PF**	64					
RATING	40C AMB-CONT							
CC								
DE	6203	**ODE**	6203					
ENCL	TENV	**SN**						
	SFA 1.5/.75							

AC Induction Motor Performance Data
Record # 28270
Preliminary Data Sheet

Winding: 34WGY170-R001	**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			230/460	**Start Configuration**	direct on line
Full Load Amps			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.)			1.35	**No-load Current**	0.56 A
NEMA Nom. Eff.	72	**Power Factor**	64	**Line-line Res. @ 25ºC**	31.7 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	57°C
S.F. Amps			1.5/.75	**Temp. Rise @ S.F. Load**	66°C

Load Characteristics 460 V, 60 Hz, 0.33 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	42	55	63	73	77	75
Efficiency	43.7	62	68.3	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

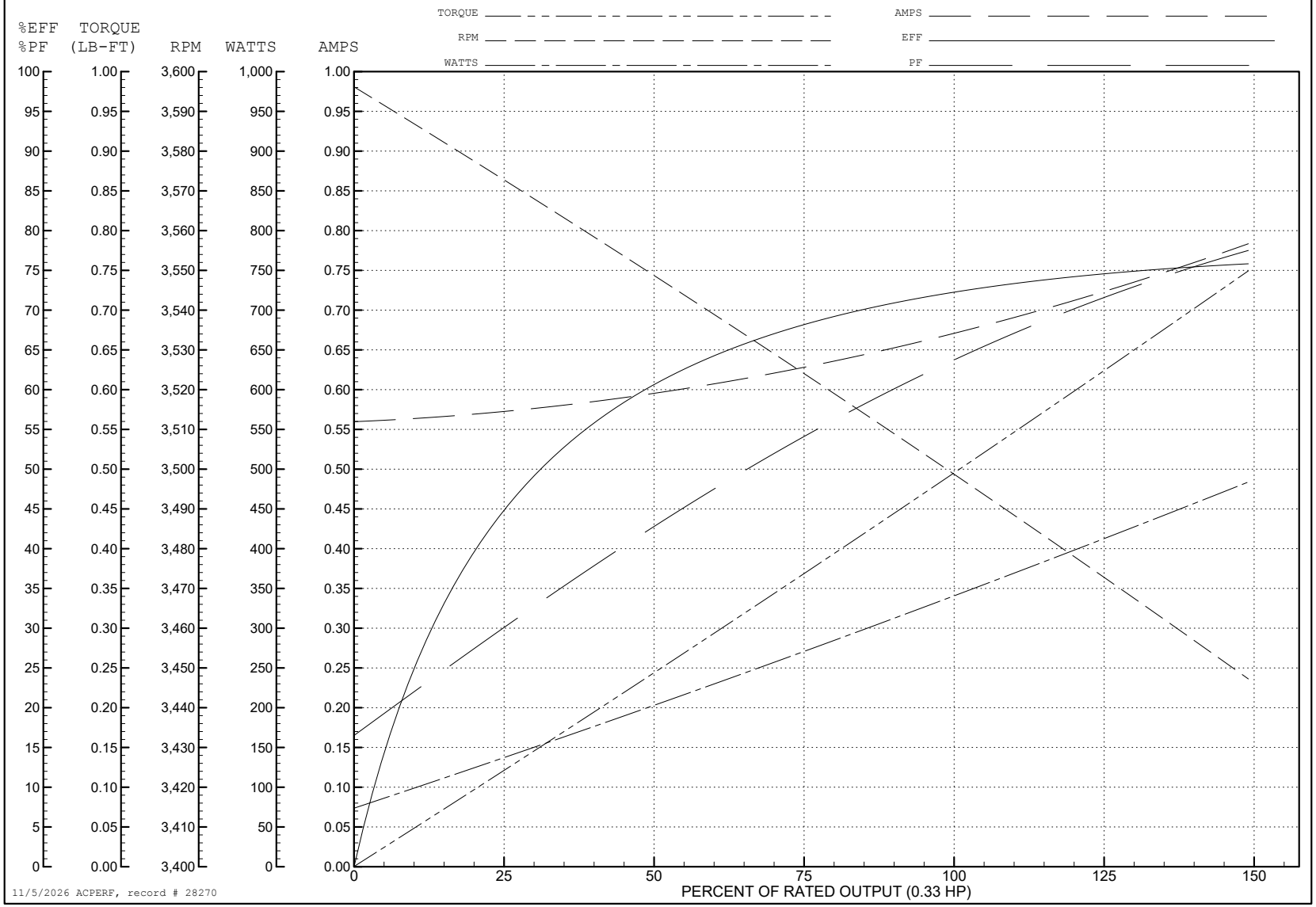
ABB Motors and Mechanical Inc.

WINDING # 34WGY170

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

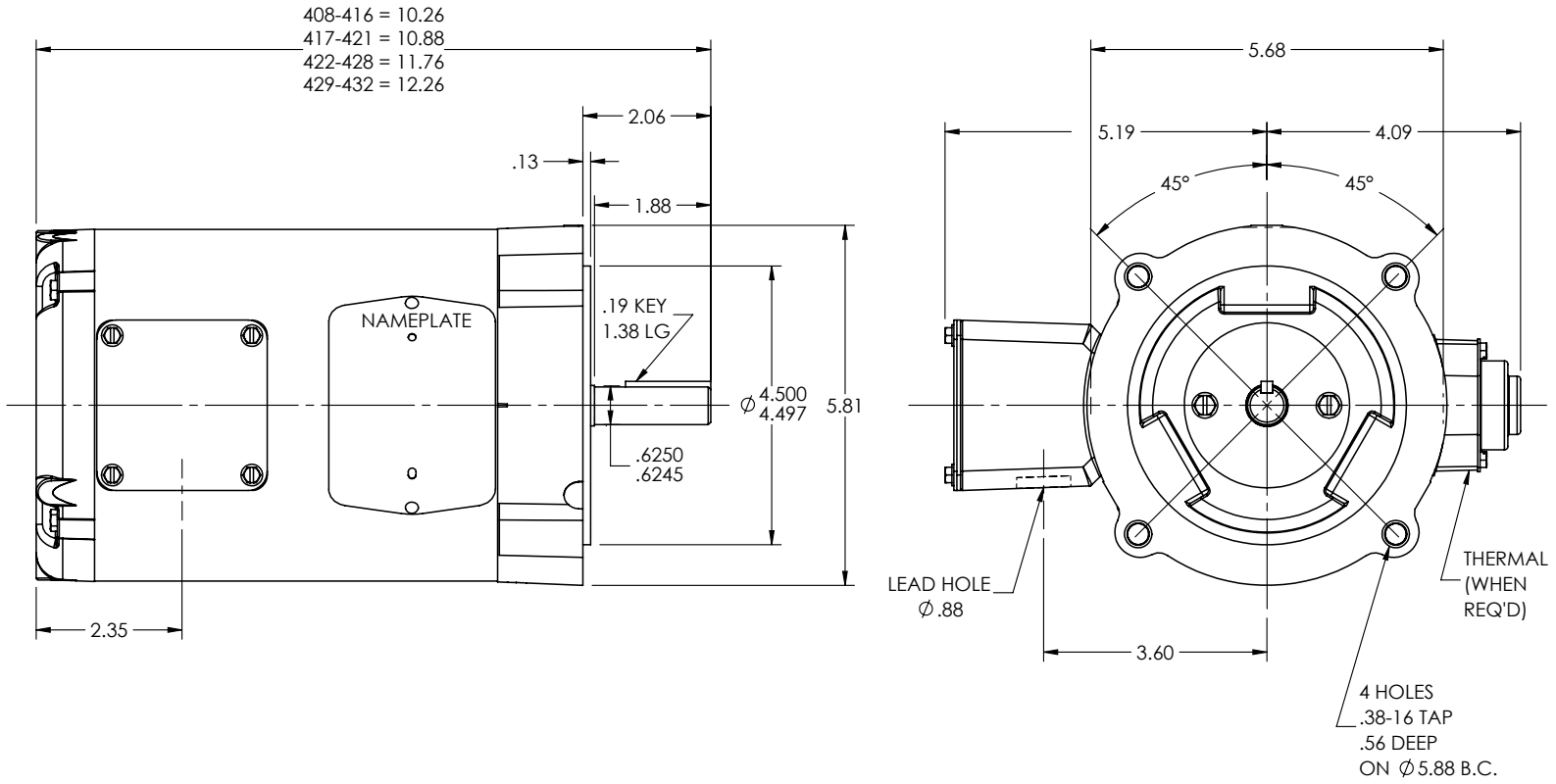
Typical performance - not guaranteed values.

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



11/5/2026 ACPERF, record # 28270

34LYK013

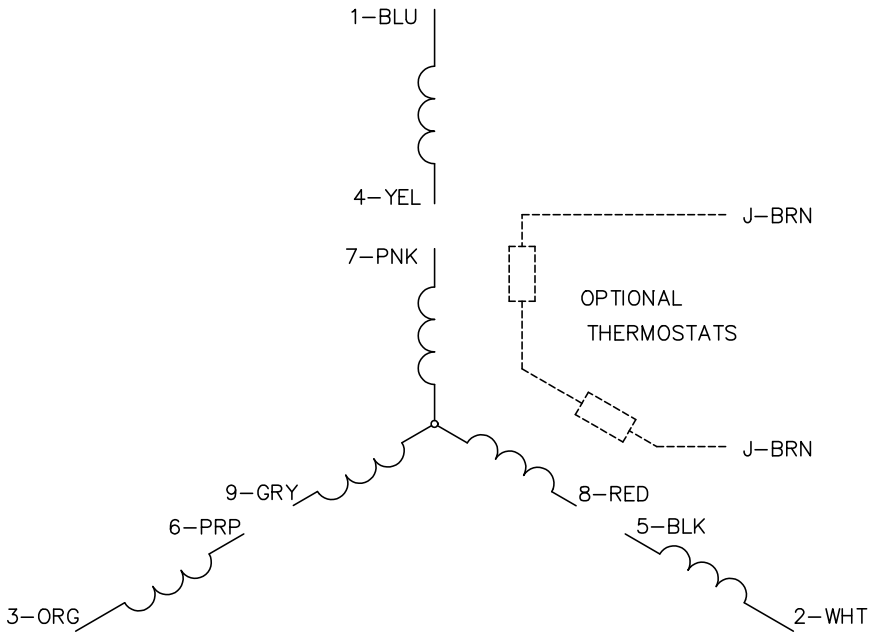


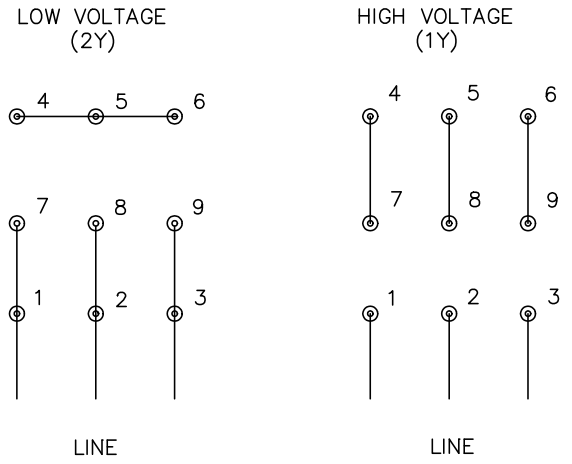
34LYK013

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

REV. DESC: LOAD - REV E			BALDOR - RELIANCE®
REV: F	VERSION: 03	REVISED: 10:58:09 09/22/2022	TDR: 000001194274
34LYK013	MODEL NO. 34LYK013		REF: -
	BY: ENFRAJ0		STD VERT 34M NEMA 56C TENV

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