

ABB BALDOR RELIANCE III

Customer information packet

KM3457

.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	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										

Parts List

Part number	Description	Quantity
SA085074	SA 34K013Y170	1.000 ea
RA078218	RA 34K013Y170	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
34CB3002A	CB CAST W/.88 DIA HOLE	1.000 ea
34GS1029A01	GASKET, CONDUIT BOX	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
34EP3100A03SP	FR ENDPLATE, MACH	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3300A24SP	PU ENDPLATE, MACH	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
34CB4517	CB LID 4 MTG HOLES .22 DIA STAMPED, FOR	1.000 ea
34GS1031A01	GASKET, FLAT CONDUIT BOX LID (LEXIDE)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 ea
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
34PA1002	PKG GRP, PRINT PK1001A01	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
PK3083	STYROFOAM PACKING CRADLE	1.000 ea
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea

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. @ 25°C	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

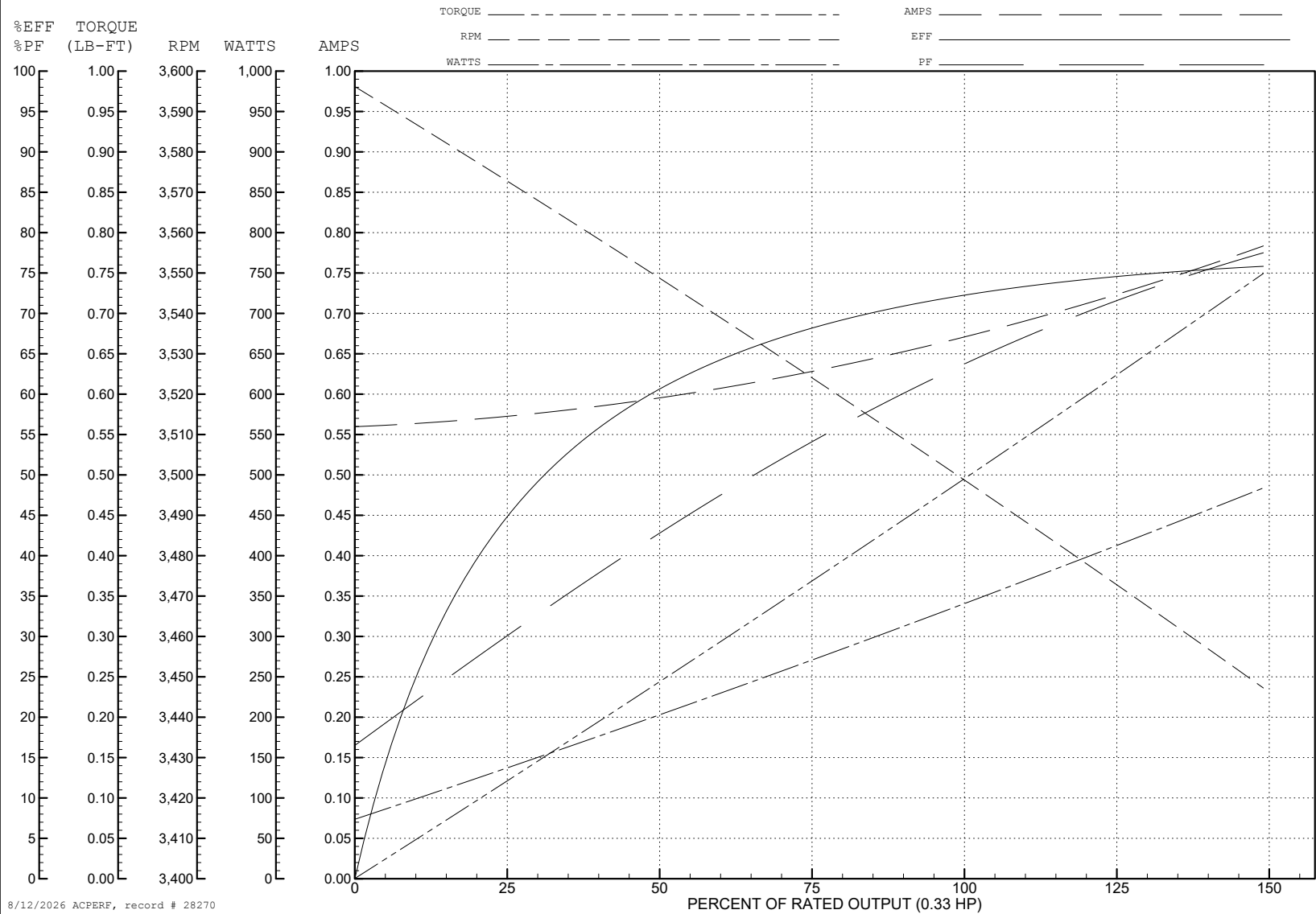
ABB Motors and Mechanical Inc.

WINDING # 34WGY170

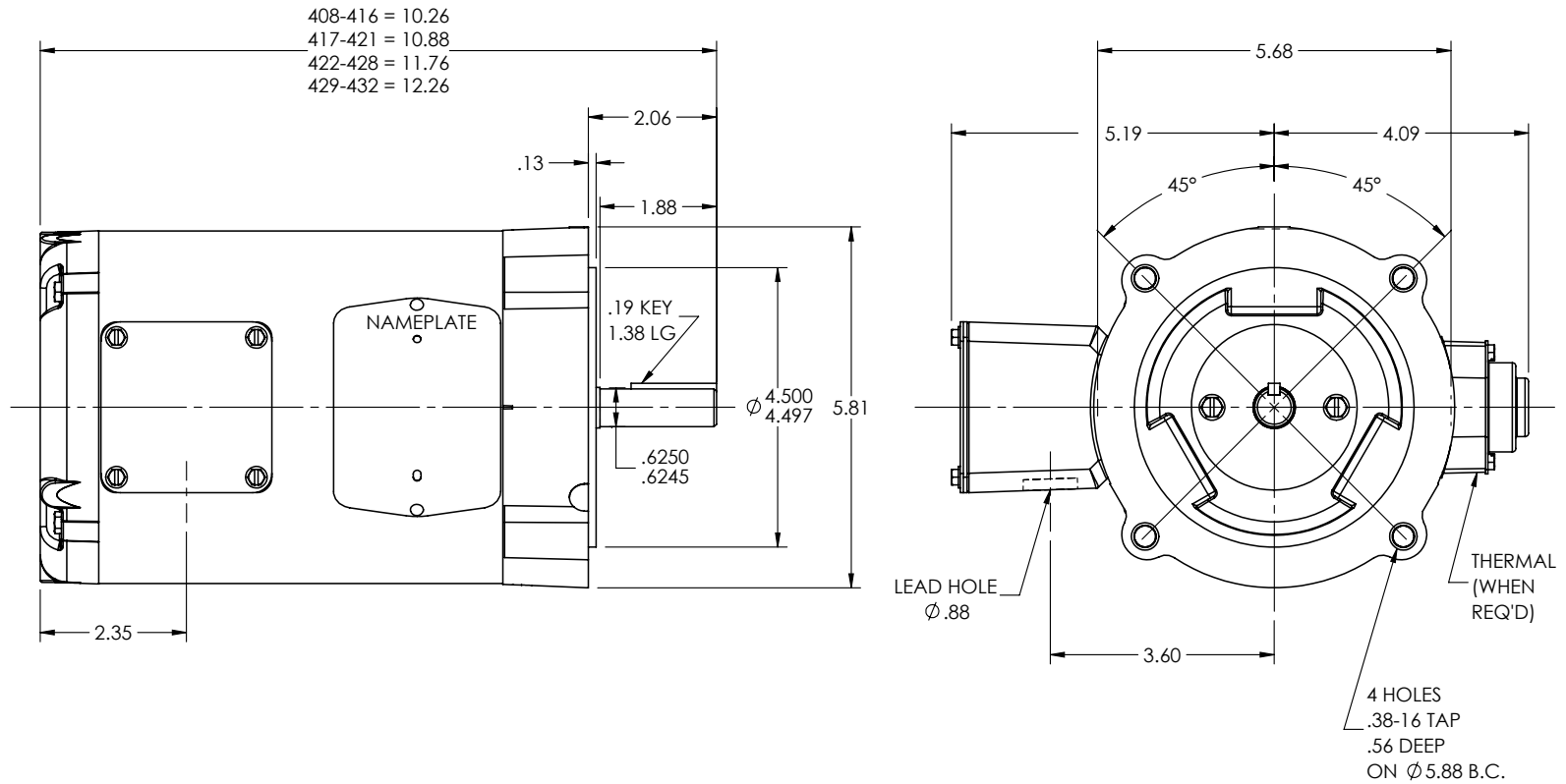
Typical performance - not guaranteed values.

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



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

