

ABB BALDOR RELIANCE III

Customer information packet

VEL11304A

.5HP, 1725RPM, 1PH, 60HZ, 56C, 3424LC, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
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	2.300 A @ 230.0 V 2.500 A @ 208.0 V 4.600 A @ 115.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	76.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a
Insulation Class	F

Part Detail

Revision	C
Type	AC
Mech. spec.	34H551
Base	
Status	PRD/A
Elec. spec.	34WGR584
Layout	34LYH551
Eff. date	10-29-2024
CD Diagram	CD0703
Poles	04
Leads	7#18
Proprietary	False
Created date	11-07-2018

Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3424LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.51 IN
Power Factor	94
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	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected OPP STD
Shaft Slinger Indicator	No Slinger
Speed	1725 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	Automatic Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP3273L												
CAT.NO.	VEL11304A											
SPEC.	34H551R584G1											
HP	.5											
VOLTS	115/230											
AMP	4.6/2.3											
RPM	1725											
FRAME	56C			HZ		60			PH		1	
SER.F.	1.25	CODE		K	DES		N	CL		F		
F.L. AVG. EFF.	76.2	PF		94								
RATING	40C AMB-CONT											
CC												
DE	6203			ODE		6203						
ENCL	OPEN	SN										
	SFA 5.9/2.95											

Parts List

Part number	Description	Quantity
SA362775	SA 34H551R584G1	1.000 ea
RA352026	RA 34H551R584G1	1.000 ea
OC3030F11SP	CAPACITOR 30 MFD 370 VAC	1.000 ea
EC1324A02	ELEC CAP, 324-389 MFD, 125V, 1.48D X 3.	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
34EP3202A02	FR ENDPLATE, MACH	1.000 ea
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 ea
34CB3801	CAPACITOR BOX, DIE CAST	1.000 ea
51XB1214A08	12-14 X 1/2HX WS SL SR TYBX	2.000 ea
NS2501A02	INSULATOR, CAPACITOR BOX	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3400A05	PU ENDPLATE, MACH	1.000 ea
34AD2000	BAFFLE PLATE, STAMPED	1.000 ea
60XW0632A06	6-32 X 3/8 TORX HEAD SCREW TAPTITE II	4.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
34FH4500A02P	DRIPCOVER, MODEL 34	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
34CB4501SP	TERMINAL BOX LID, STAMPED X (PLATED)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
SP5068TA01	34LC TERM PANEL STAT SWITCH #E-6" AND #O	1.000 ea
HA3100A45	THRUBOLT 10-32 X 8.875	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0052	CONNECTION LABEL	1.000 ea
NP3273L	ALUM SUPER-E THERMALLY PROTECTED, LASER	1.000 ea
PK3083	STYROFOAM PACKING CRADLE	1.000 ea

PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea

AC Induction Motor Performance Data

Record # 73454

Typical performance - not guaranteed values

Winding: 34WGR584-R002				Type: 3424LC		Enclosure: OPEN	
Nameplate Data				115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		.5		Full Load Torque		1.51 LB-FT	
Volts		115/230		Start Configuration		direct on line	
Full Load Amps		4.6/2.3		Breakdown Torque		4.01 LB-FT	
R.P.M.		1725		Pull-up Torque		3.75 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		6.42 LB-FT	
NEMA Design Code		N		KVA Code		K	
Service Factor (S.F.)		1.25		Starting Current		31.9 A	
Service Factor (S.F.)		1.25		No-load Current		1.06 A	
NEMA Nom. Eff.		76.2	Power Factor	94	Line-line Res. @ 25°C		1.59 Ω A Ph 2.09 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		37°C	
S.F. Amps		5.9/2.95		Temp. Rise @ S.F. Load		49°C	
				Locked-rotor Power Factor		99.7	
				Rotor inertia		0.057 lb-ft²	

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	89	94	95	96	95	94	95
Efficiency	60	72.9	76.7	76.5	73.2	67.2	73.2
Speed	1783	1768	1749	1727	1694	1648	1694
Line amperes	1.56	2.34	3.34	4.6	5.8	7.69	5.8

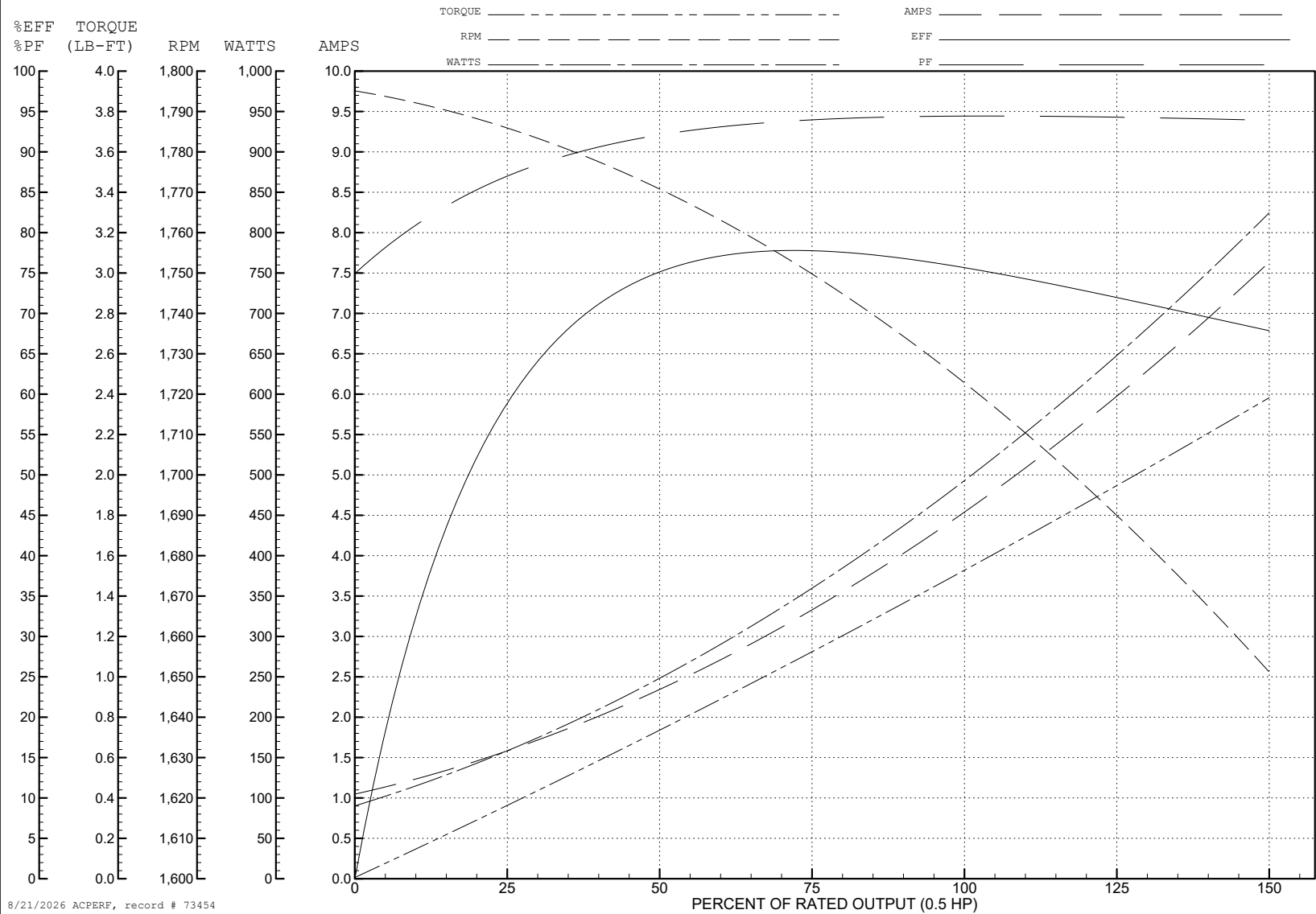
ABB Motors and Mechanical Inc.

WINDING # 34WGR584

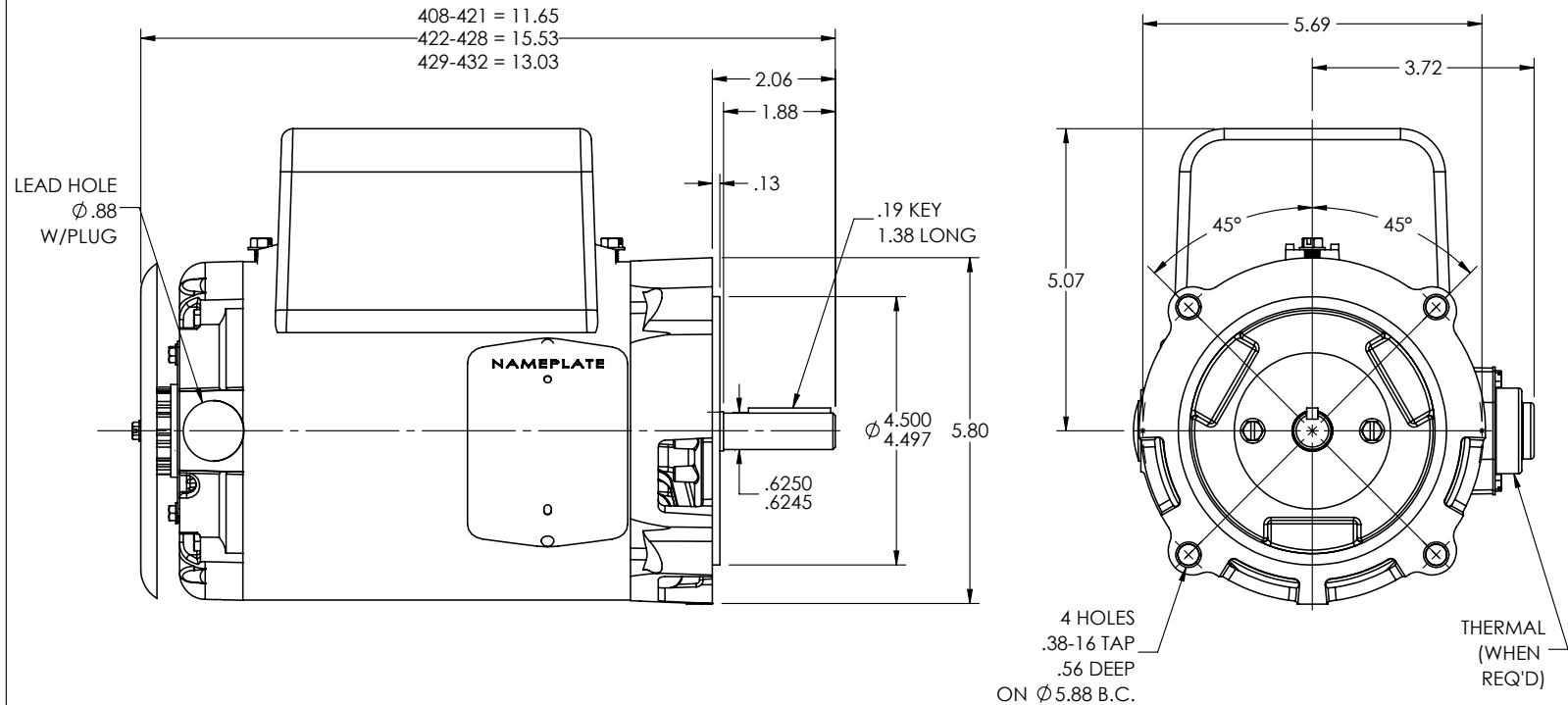
Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1725 RPM 115 V 3424LC

TORQUES (LB-FT): PO=4.01 PU=3.75 LR=6.42 LRA=31.9



34LYH551



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

REV. DESC: LOAD TO SOLIDWORKS - REV "-"

REV: A

VERSION: 01

REVISED: 02:49:47 12/29/2022

TDR: 000001201165

BALDOR - RELIANCE®

34LYH551

MODEL NO. 34LYH551

REF: -

BY: ENFRAJ0

STD 34LC NEMA 56C OPEN W/TERM PANEL & DRIP COVER

34LYH551

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