ABB BALDOR RELIANCE

Customer information packet

EL11304A

.5HP, 1725RPM, 1PH, 60HZ, 56, 3424LC, OPEN, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	56
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	Rigid
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	No 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	E
Type	AC
Mech. spec.	34F353
Base	
Status	PRD/A
Elec. spec.	34WGR584
Layout	34LYF353
Eff. date	12-31-2024
CD Diagram	CD0320
Poles	04
Leads	7#18
Proprietary	False
Created date	11-08-2018

Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	11.00 IN
Power Factor	94
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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
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.	EL11304A										
SPEC.	34F353R584G2										
HP	.5										
VOLTS	115/230										
AMP	4.6/2.3										
RPM	1725										
FRAME	56		**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										

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	**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. @ 25ºC**	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

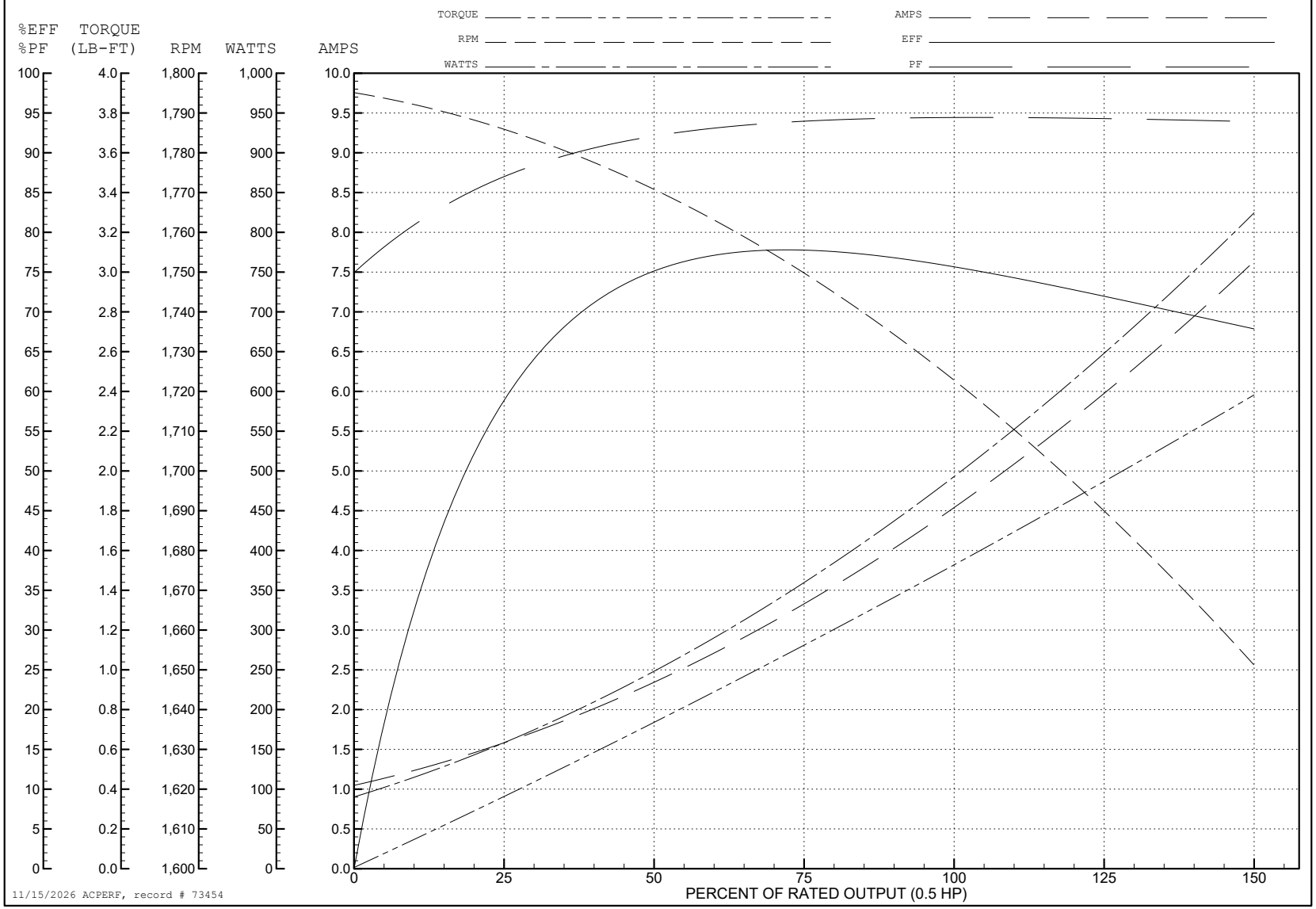
ABB Motors and Mechanical Inc.

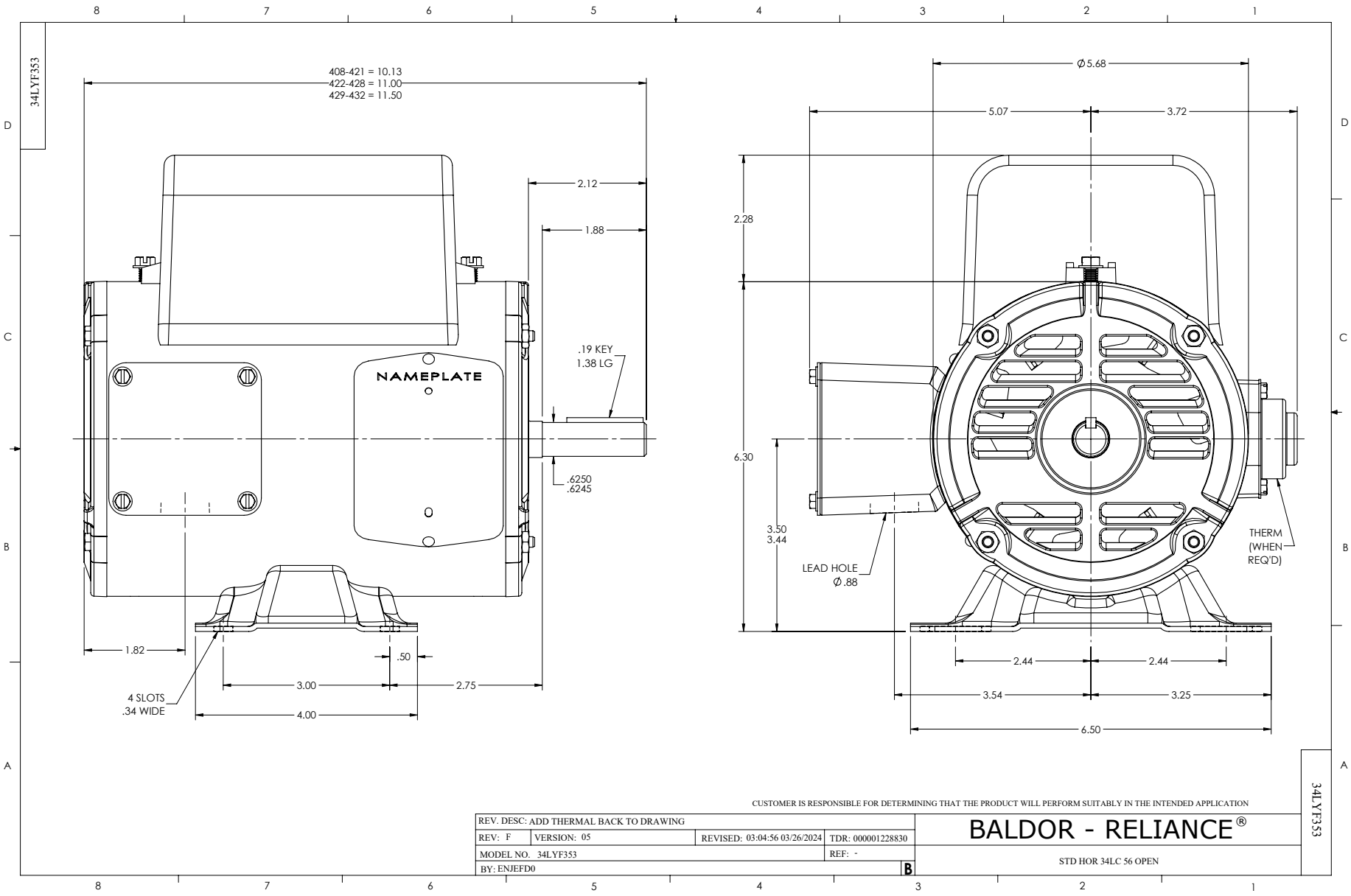
WINDING # 34WGR584

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

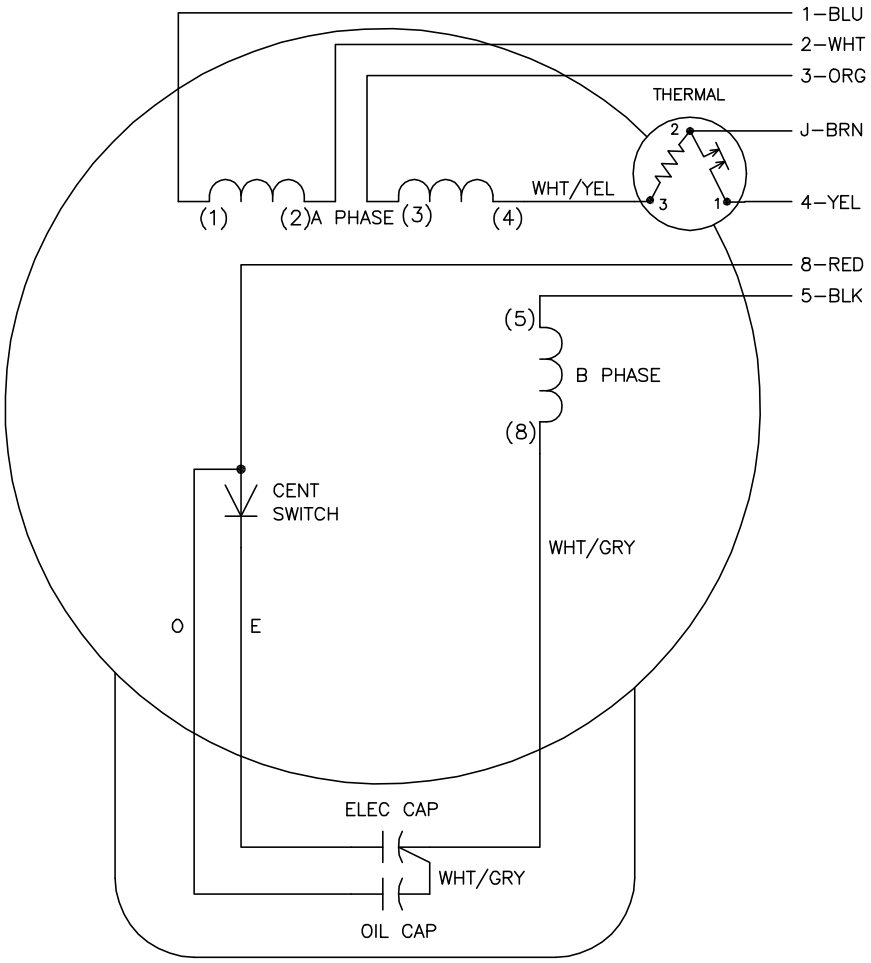
TORQUES(LB-FT): PO=4.01 PU=3.75 LR=6.42 LRA=31.9

Typical performance - not guaranteed values.




34LYF353
408-421 = 10.13
422-428 = 11.00
429-432 = 11.50
2.12
1.88
.19 KEY
1.38 LG
NAMEPLATE
.6250
.6245
1.82
.50
3.00
2.75
4.00
4 SLOTS
.34 WIDE
Ø5.68
5.07
3.72
2.28
6.30
3.50
3.44
LEAD HOLE
Ø .88
THERM
(WHEN
REQ'D)
2.44
2.44
3.54
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD THERMAL BACK TO DRAWING
REV: F
VERSION: 05
REVISED: 03:04:56 03/26/2024
TDR: 000001228830
MODEL NO. 34LYF353
REF: -
BY: ENJEFD0
B
BALDOR - RELIANCE®
STD HOR 34LC 56 OPEN
34LYF353

CD0320



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1,8	4	2,3,5	J
HIGH OPP	1,5	4	2,3,8	J
LOW STD	1,3,8	4	–	2,J,5
LOW OPP	1,3,5	4	–	2,J,8

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0320

REV. DESC: ADD INTERNAL CONNECTION TO HELP MANUFACTURING		
REV. LTR: G	VERSION: 01	TDR: 000000941594
FILE: \AAA\00007\422	REVISED: 02:21:00 08/28/2015	BY: ENALEMO
MTL: –		

BALDOR

TYPE LC, DV, REV, THERMAL, B PH AMPS THRU HTR HVC, 7 LEAD

SH 1 of 1