ABB BALDOR RELIANCE

Customer information packet

EL11207

.33HP, 1140RPM, 1PH, 60HZ, 48, 3421LC, OPEN, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	48
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	.330 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1200 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	1.900 A @ 230.0 V
	3.800 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
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	1.9 a
Insulation Class	B

Part Detail

Revision	K
Type	AC
Mech. spec.	34F351
Base	
Status	PRD/A
Elec. spec.	34WGR143
Layout	34LYF351
Eff. date	12-31-2024
CD Diagram	CD0055
Poles	06
Leads	6#18
Proprietary	False
Created date	10-07-2014

Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3421LC
Mounting Arrangement	F1
Number of Poles	6
Overall Length	9.76 IN
Power Factor	83
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	1.35
Shaft Diameter	0.500 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1140 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

NP3155L											
CAT.NO.	EL11207										
SPEC.	34F351R143G1										
HP	.33										
VOLTS	115/230										
AMP	3.8/1.9										
RPM	1140										
FRAME	48		**HZ**	60			**PH**	1			
SER.F.	1.35	**CODE**	J	**DES**	N	**CL**	B				
F.L. AVG. EFF.	68	**PF**	83								
RATING	40C AMB-CONT										
CC											
DE	6203		**ODE**	6203							
ENCL	OPEN	**SN**									
	SFA 4.8/2.4										

AC Induction Motor Performance Data
Record # 47417
Typical performance - not guaranteed values

Winding: 34WGR143-R002	**Type:** 3421LC	**Enclosure:** OPEN

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			.33	**Full Load Torque**	1.51 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			3.8/1.9	**Breakdown Torque**	3.24 LB-FT
R.P.M.			1140	**Pull-up Torque**	2.8 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	4.73 LB-FT
NEMA Design Code	N	**KVA Code**	J	**Starting Current**	20.8 A
Service Factor (S.F.)			1.35	**No-load Current**	2.18 A
NEMA Nom. Eff.	68	**Power Factor**	83	**Line-line Res. @ 25ºC**	2.3572 Ω A Ph 7.0402 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	43°C
S.F. Amps			4.8/2.4	**Temp. Rise @ S.F. Load**	59°C

Load Characteristics 115 V, 60 Hz, 0.33 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	60	72	79	83	86	88	87
Efficiency	40.7	59.2	66.9	70.5	71.1	68.5	70.1
Speed	1186.7	1176.5	1165.3	1152	1135.6	1109.8	1125
Line amperes	2.25	2.56	3.07	3.65	4.33	5.33	4.73

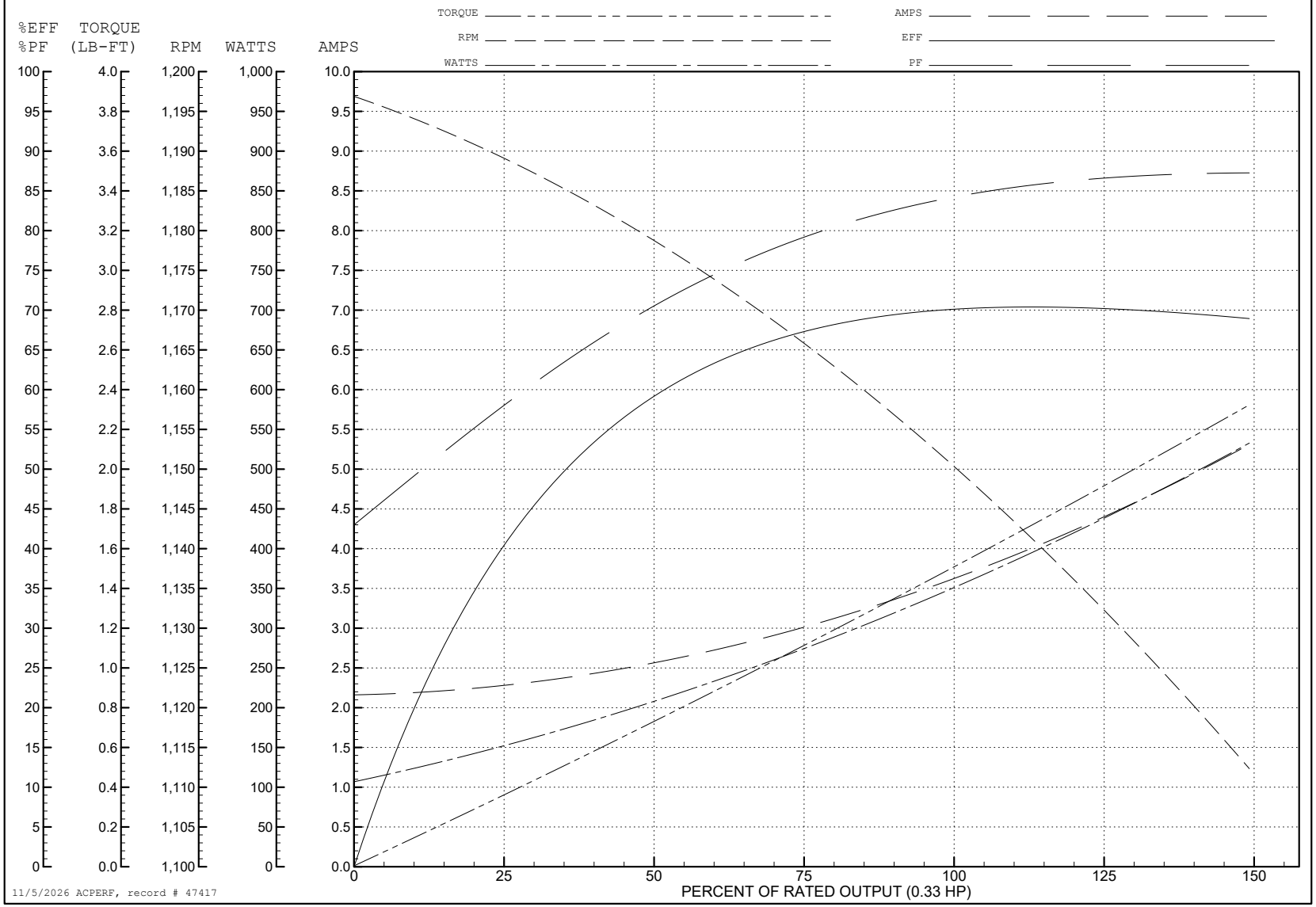
ABB Motors and Mechanical Inc.

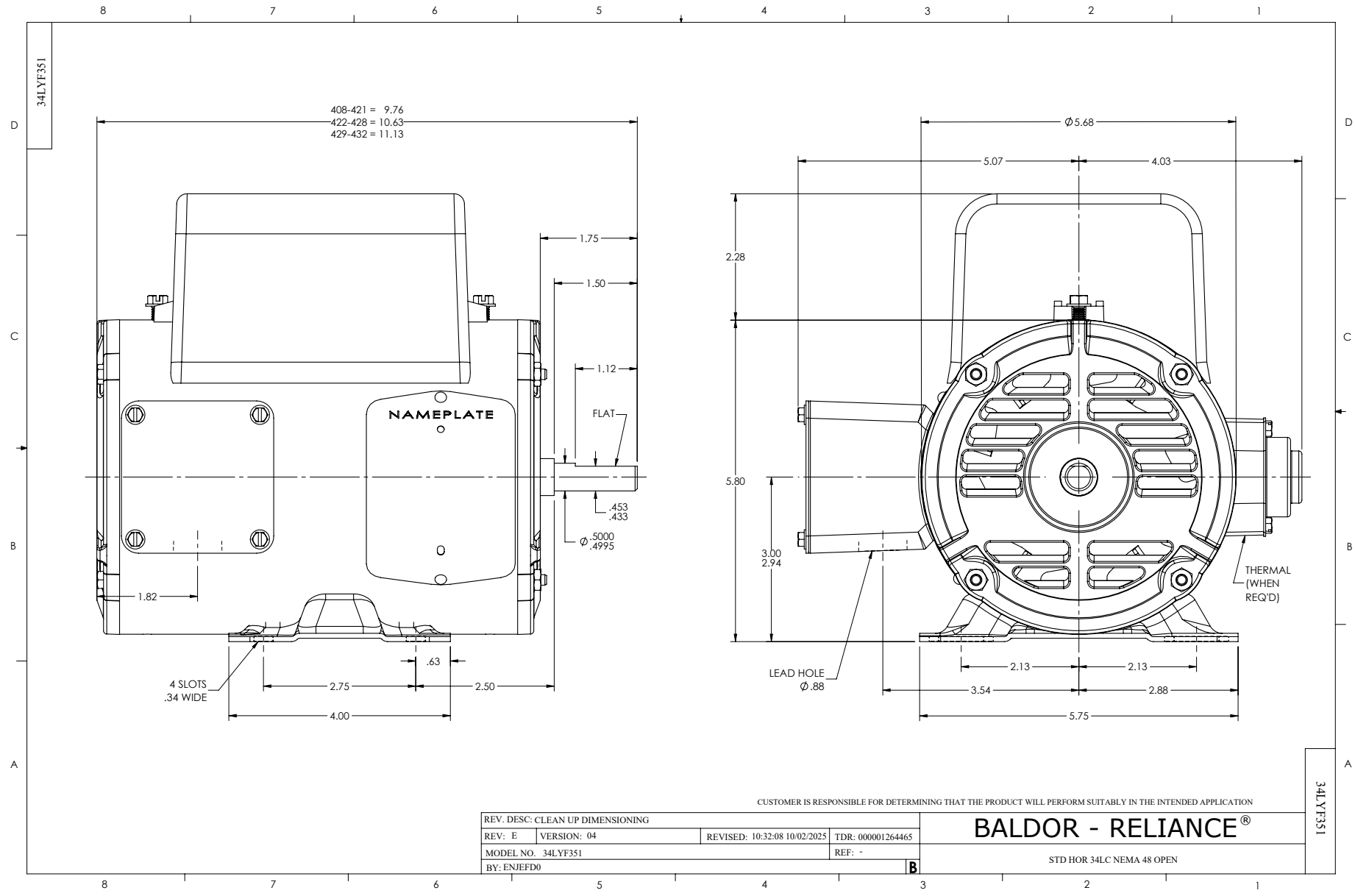
WINDING # 34WGR143

0.33 HP 1 PH 60 HZ 1140 RPM 115 V 3421LC

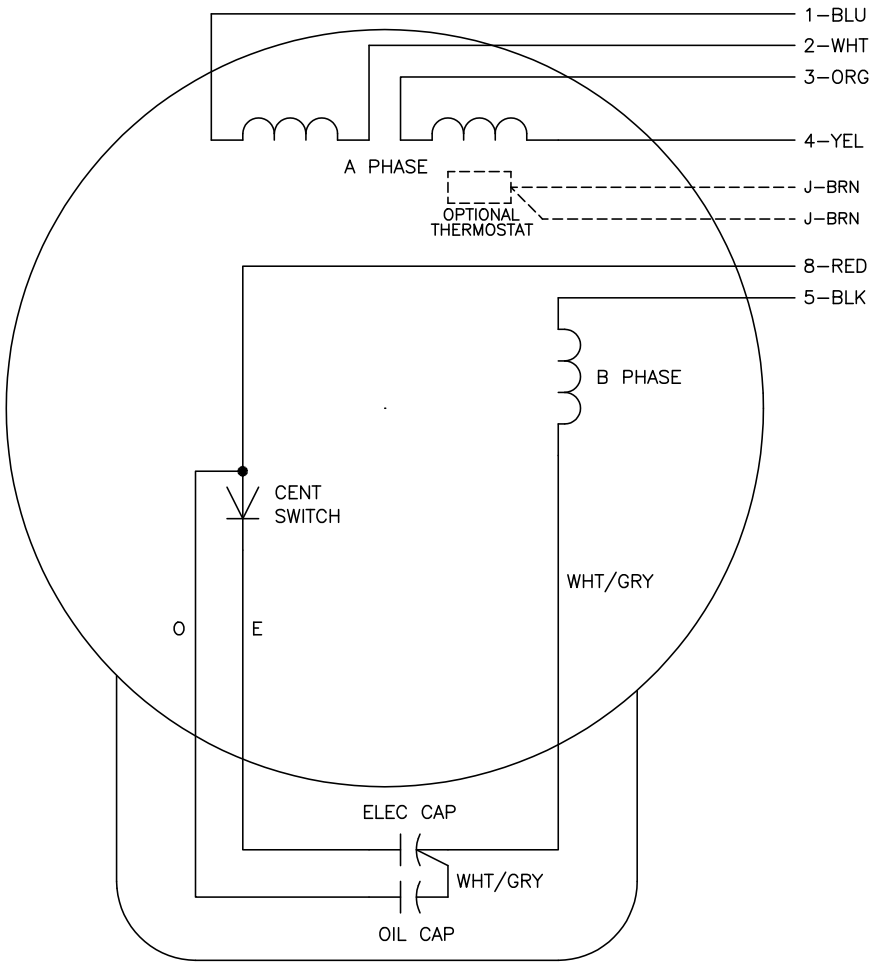
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=3.24 PU=2.8 LR=4.73 LRA=20.8




34LYF351
408-421 = 9.76
422-428 = 10.63
429-432 = 11.13
1.75
1.50
1.12
FLAT
NAMEPLATE
.453
.433
Ø .5000
.4995
1.82
.63
4 SLOTS
.34 WIDE
2.75
2.50
4.00
Ø5.68
5.07
4.03
2.28
5.80
3.00
2.94
THERMAL
(WHEN
REQ'D)
LEAD HOLE
Ø .88
2.13
2.13
3.54
2.88
5.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CLEAN UP DIMENSIONING
REV: E
VERSION: 04
REVISED: 10:32:08 10/02/2025
TDR: 000001264465
MODEL NO. 34LYF351
REF: -
BY: ENJEFD0
B
BALDOR - RELIANCE®
STD HOR 34LC NEMA 48 OPEN
34LYF351

CD0055



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

NOTES:

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

CD0055

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:17	TDR: 0178636
CD0055		FILE: AAA00007414	MDL: –
		MTL: –	TYPE LC, DV, REV, 6 LEADS