ABB BALDOR RELIANCE

Customer information packet

L1205-50

.33/KW .25, 2900RPM, 1PH, 50HZ, 48, 3416LC, OP
Class - None
Division - Not Applicable

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11/5/2026 11:32:10 AM

Specifications

Enclosure	OPEN
Frame	48
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	.250 KW @ 50 HZ
Phase	1
Synchronous Speed @ Frequency	3000 RPM @ 50 HZ
Voltage @ Frequency	110.0 V @ 50 HZ
	220.0 V @ 50 HZ
Agency Approvals	C UR US
	CE
	CURUS
	UKCA
	WEEE
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	3.400 A @ 110.0 V
	1.700 A @ 220.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	71.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	J
Type	AC
Mech. spec.	34F351
Base	
Status	PRD/A
Elec. spec.	34WGR744
Layout	34LYF351
Eff. date	12-31-2024
CD Diagram	CD0055
Poles	02
Leads	6#18
Proprietary	False
Created date	02-10-2023

Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3416LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	9.76 IN
Power Factor	92
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	2900 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

NP1372L									
CAT.NO.	L1205-50								
SPEC.	34F351R744								
HP	.33/KW .25								
VOLTS	110/220								
AMP	3.4/1.7								
R.P.M. (1/MIN)	2900								
FRAME	48		**HZ**	50			**PH**	1	
SER.F.	1.35	**CODE**	L	**DES**	-	**CL**	B		
NEMA-NOM-EFF	71	**PF**	92						
RATING	40C AMB-S1 CONT								
CC			IP23 11KG IC01						
DE	6203		**ODE**	6203					
ENCL	OPEN	**SN**							
	IE2-50HZ 66 (75%),58 (50%)								

AC Induction Motor Performance Data
Record # 101548
Typical performance - not guaranteed values

Winding: 34WGR744-R001	**Type:** 3416LC	**Enclosure:** OPEN

Nameplate Data			**220 V, 50 Hz: High Voltage Connection**	
Rated Output (KW)		.25	**Full Load Torque**	0.6018 LB-FT
Volts		110/220	**Start Configuration**	direct on line
Full Load Amps		3.4/1.7	**Breakdown Torque**	2 LB-FT
R.P.M.		2900	**Pull-up Torque**	1.77 LB-FT
Hz	50 **Phase**	1	**Locked-rotor Torque**	2.34 LB-FT
NEMA Design Code	- **KVA Code**	L	**Starting Current**	14.2 A
Service Factor (S.F.)		1.35	**No-load Current**	0.803 A
NEMA Nom. Eff.	71 **Power Factor**	92	**Line-line Res. @ 25ºC**	6.2658 Ω A Ph 4.6856 Ω B Ph
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	16°C
S.F. Amps		4.4/2.2	**Temp. Rise @ S.F. Load**	19°C

Load Characteristics 220 V, 50 Hz, 0.25 KW

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	72	83	88	92	94	95	94
Efficiency	41.5	58.8	67.2	72.1	74.3	74.7	74.5
Speed	2967.1	2947.3	2927.1	2902	2876.4	2846.5	2864
Line amperes	0.955	1.17	1.4	1.7	2.01	2.37	2.15

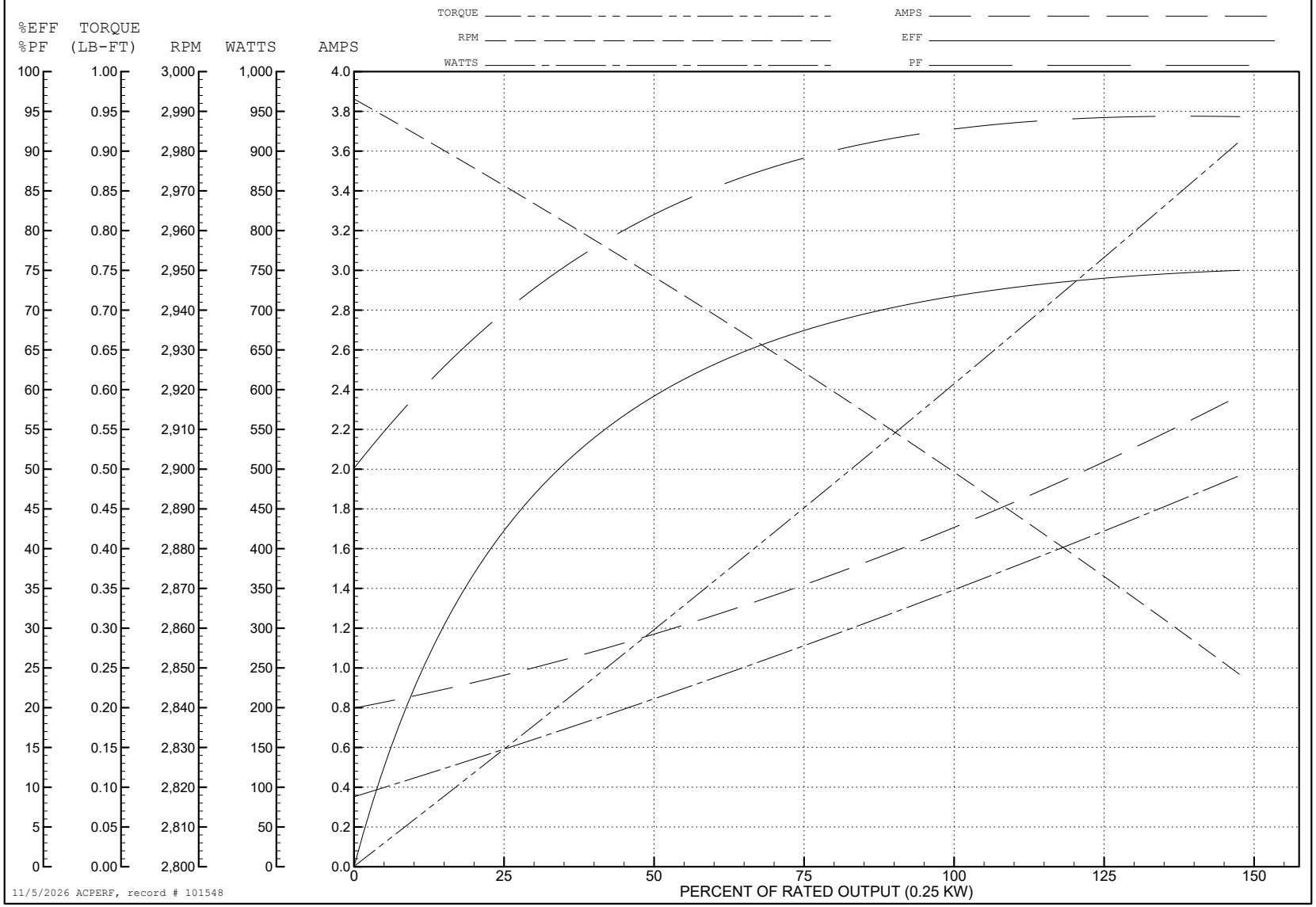
ABB Motors and Mechanical Inc.

WINDING # 34WGR744

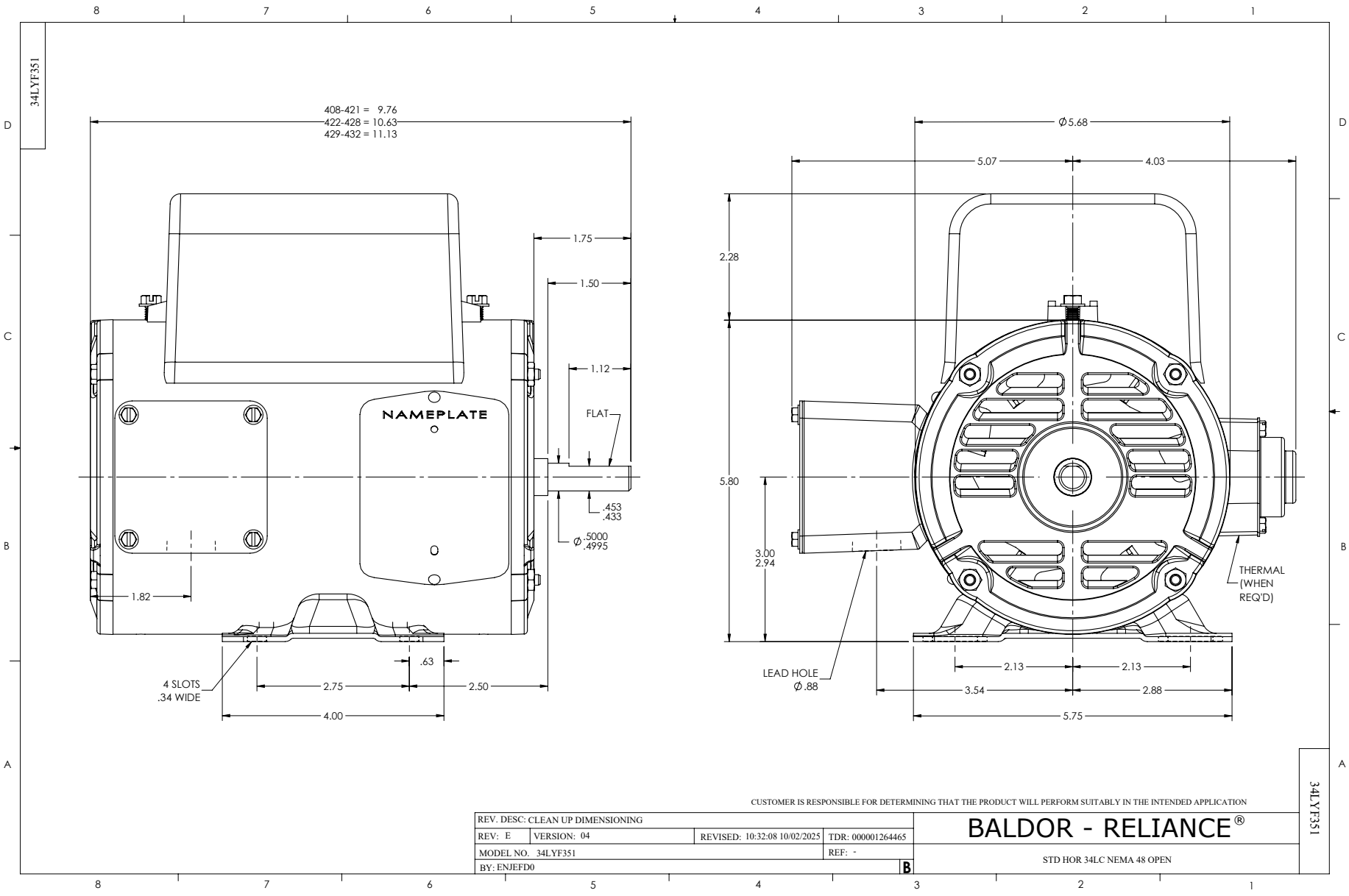
0.25 KW 1 PH 50 HZ 2900 RPM 220 V 3416LC

TORQUES(LB-FT): PO=2 PU=1.77 LR=2.34 LRA=14.2

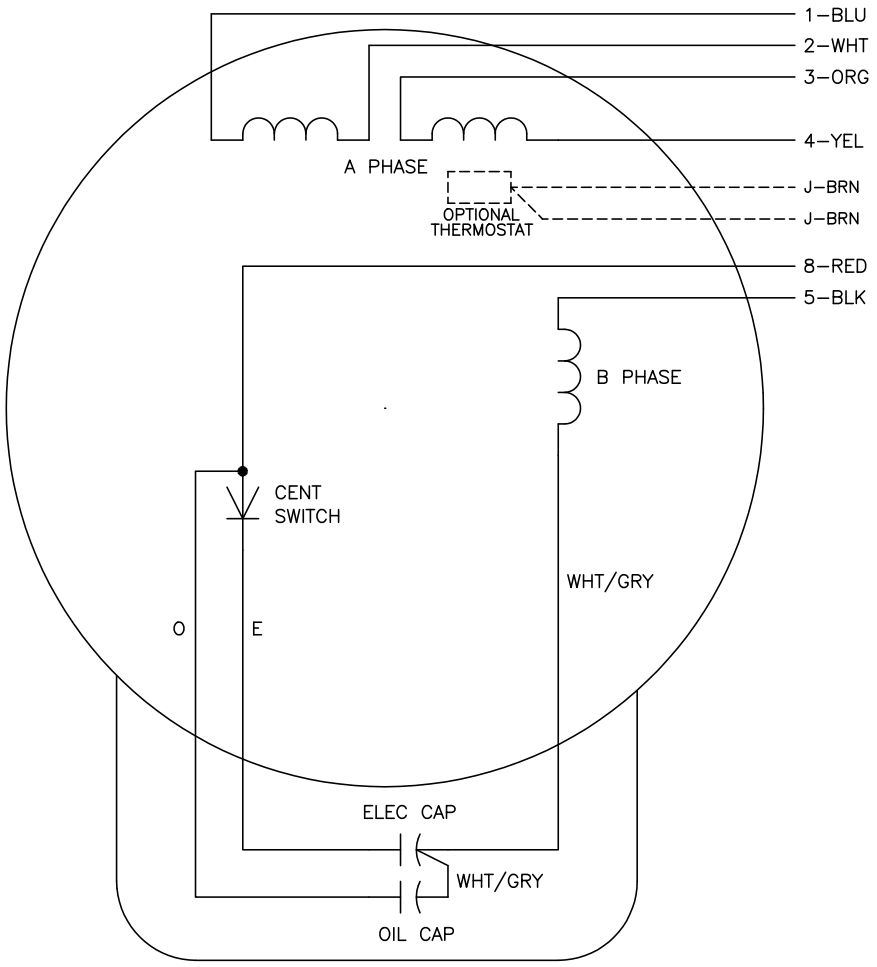
Typical performance - not guaranteed values.



11/5/2026 ACPERF, record # 101548


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