ABB BALDOR RELIANCE

Customer information packet

WWL3509

1HP, 3450RPM, 1PH, 60HZ, 48Z, 3428L, TEFC, F1
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/20/2026 12:13:09 AM

Specifications

Enclosure	TEFC
Frame	48Z
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	115.0 V @ 60 HZ
Agency Approvals	CSA
	UR
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	6.300 A @ 230.0 V
	12.600 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	65.0 %
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	6.3 a

Part Detail

Revision	AK
Type	AC
Mech. spec.	34-2908
Base	
Status	PRD/A
Elec. spec.	34WG2204
Layout	34LY2908
Eff. date	11-06-2024
CD Diagram	CD0008
Poles	02
Leads	6#18,1#14 #4TH
Proprietary	False
Created date	01-01-0001

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
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	3428L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.35 IN
Power Factor	71
Product Family	General Purpose
Product Type	WOODWORKING MOTORS
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Key Only (When Non-STD)
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
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	Manual Thermal Overload

Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP1257L											
CAT.NO.											
SPEC.	34-2908-2204										
HP	1										
VOLTS	115/230										
AMP	12.6/6.3										
RPM	3450										
FRAME	48Z		**HZ**	60		**PH**	1				
SER.F.	1.00	**CODE**	K	**DES**	N	**CL**	B				
NEMA-NOM-EFF	65	**PF**	71								
RATING	40C AMB-CONT										
CC											
DE	6203	**ODE**	6203								
ENCL	TEFC	**SN**									

Accessories

Part number	Description	Multiplier
34-171	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 6640
Typical performance - not guaranteed values

Winding: 34WG2204-R001	**Type:** 3428L	**Enclosure:** OPEN

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	1.5 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			12.6/6.3	**Breakdown Torque**	4.3 LB-FT
R.P.M.			3450	**Pull-up Torque**	3.7 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	4.4 LB-FT
NEMA Design Code	N	**KVA Code**	K	**Starting Current**	76 A
Service Factor (S.F.)			1	**No-load Current**	8 A
NEMA Nom. Eff.	65	**Power Factor**	71	**Line-line Res. @ 25ºC**	0.437 Ω A Ph 1.76 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	64°C

Load Characteristics 115 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	41	56	68	75	81	84
Efficiency	46.8	62	68.6	71.5	72.5	72.1
Speed	3564	3538	3509	3478	3443	3404
Line amperes	8.4	9.3	10.5	12	13.9	16

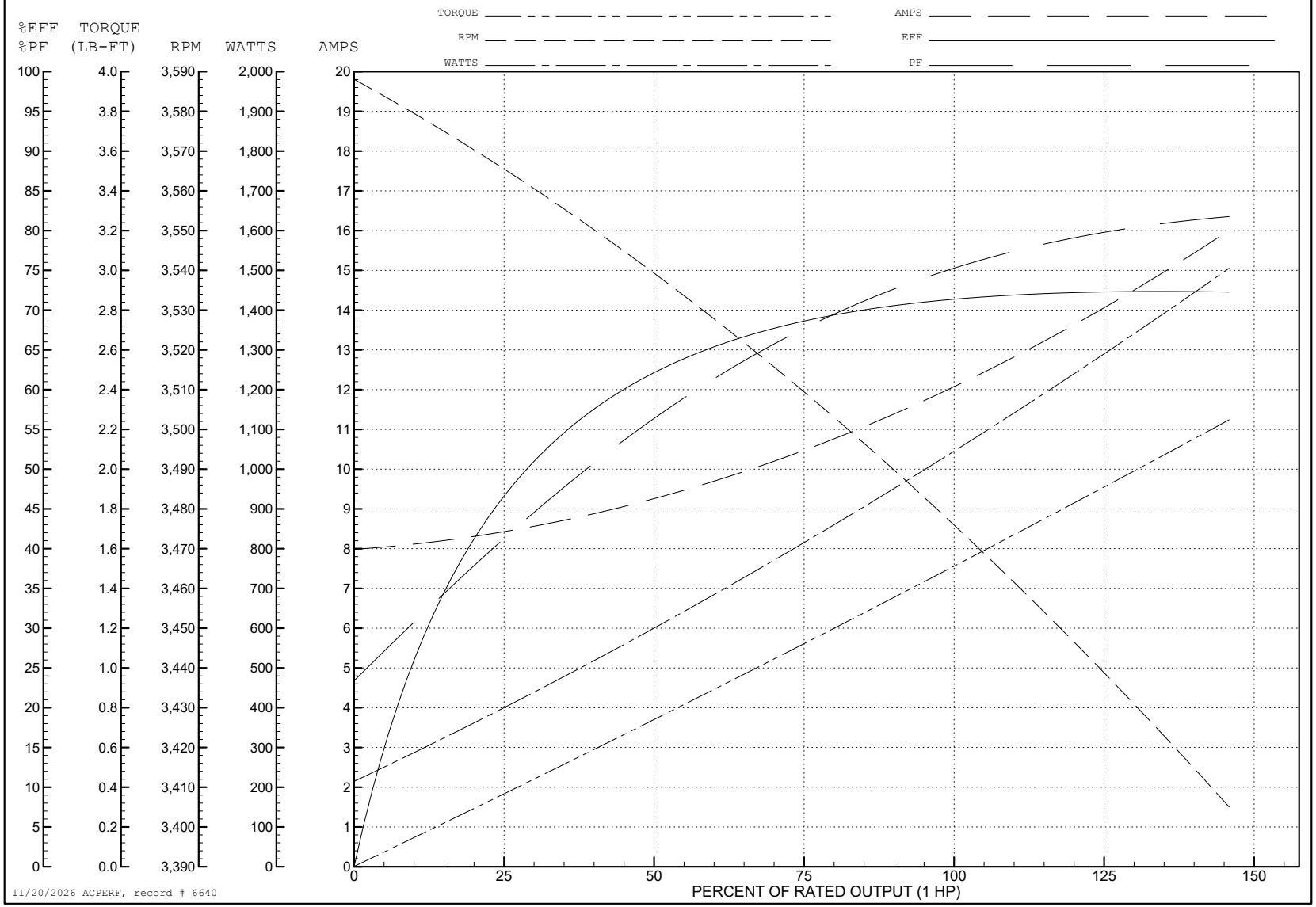
ABB Motors and Mechanical Inc.

WINDING # 34WG2204

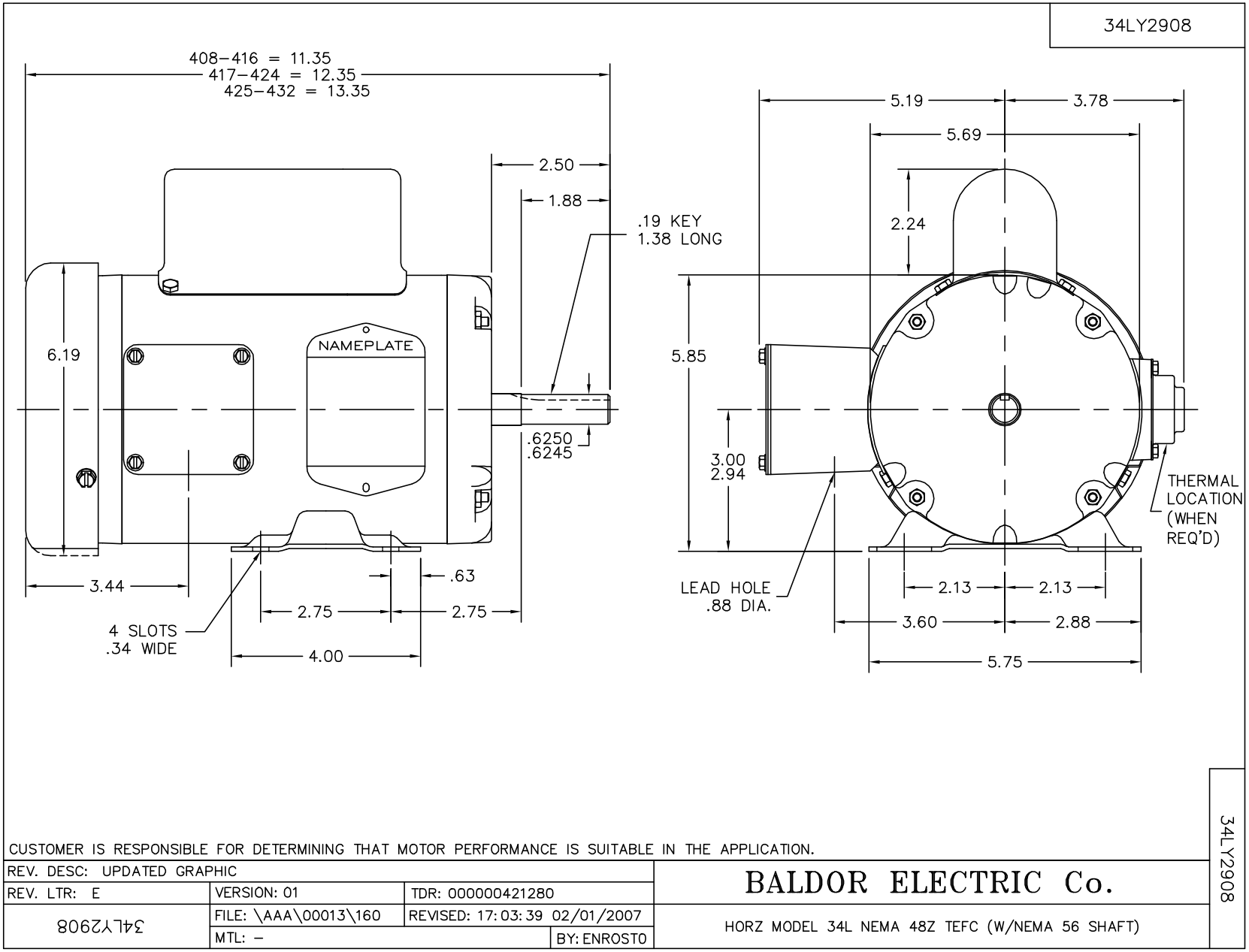
1 HP 1 PH 60 HZ 3450 RPM 115 V 3428L

Typical performance - not guaranteed values.

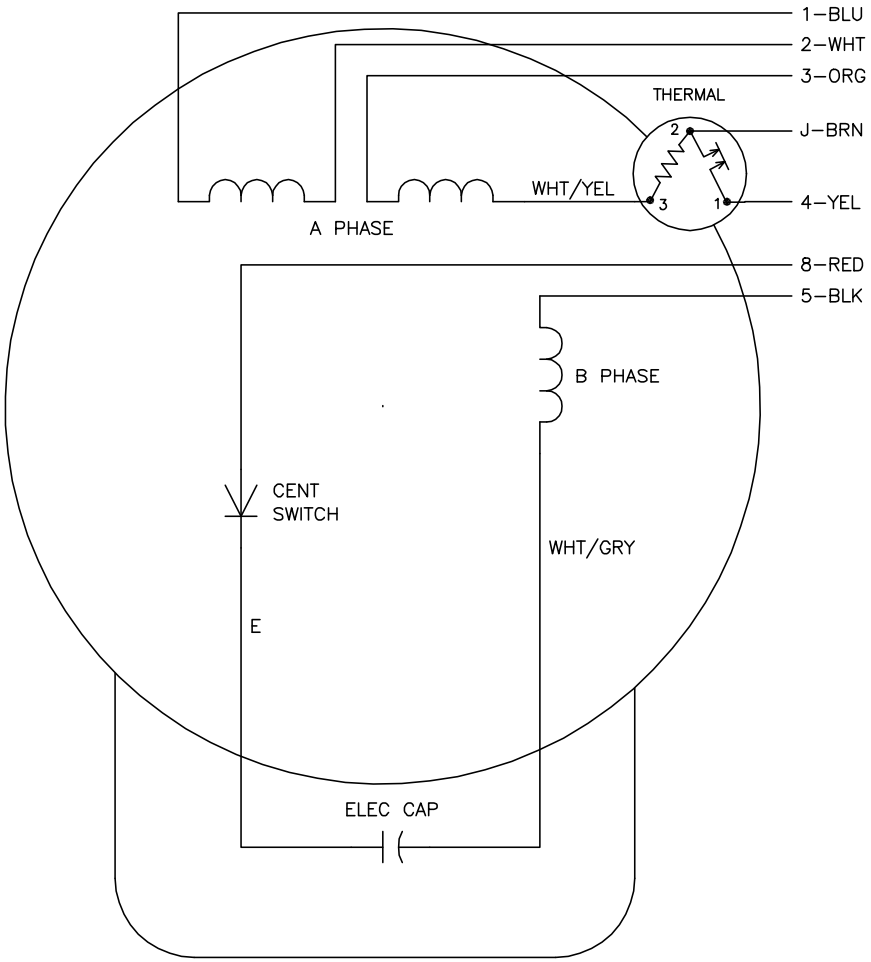
TORQUES(LB-FT): PO=4.3 PU=3.7 LR=4.4 LRA=76



11/20/2026 ACPERF, record # 6640


34LY2908
408–416 = 11.35
417–424 = 12.35
425–432 = 13.35
2.50
1.88
.19 KEY
1.38 LONG
6.19
NAMEPLATE
.6250
.6245
3.44
.63
2.75
2.75
4 SLOTS
.34 WIDE
4.00
5.19
3.78
5.69
2.24
5.85
3.00
2.94
THERMAL
LOCATION
(WHEN
REQ'D)
LEAD HOLE
.88 DIA.
2.13
2.13
3.60
2.88
5.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.
REV. DESC: UPDATED GRAPHIC
REV. LTR: E
VERSION: 01
TDR: 000000421280
FILE: \AAA\00013\160
REVISED: 17:03:39 02/01/2007
MTL: –
BY: ENROSTO
BALDOR ELECTRIC Co.
HORZ MODEL 34L NEMA 48Z TEFC (W/NEMA 56 SHAFT)
34LY2908

CD0008



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

CD0008

REV. DESC: REMOVE 2–TERMINAL THERMAL DETAIL, SEE CD0008A02			BALDOR ELECTRIC Co.
REV. LTR: F	VERSION: 01	TDR: 000000360649	
CD0008	FILE: \AAA\00007\408	REVISED: 10:56:54 04/18/2005	TYPE L, DV, REV, THERMAL, 7 LEADS
	MTL: –	BY: ENJOEP0	