

ABB BALDOR RELIANCE III

Customer information packet

WWL3509

1HP, 3450RPM, 1PH, 60HZ, 48Z, 3428L, TEFC, F1

Class - None

Division - Not Applicable

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. @ 25°C		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

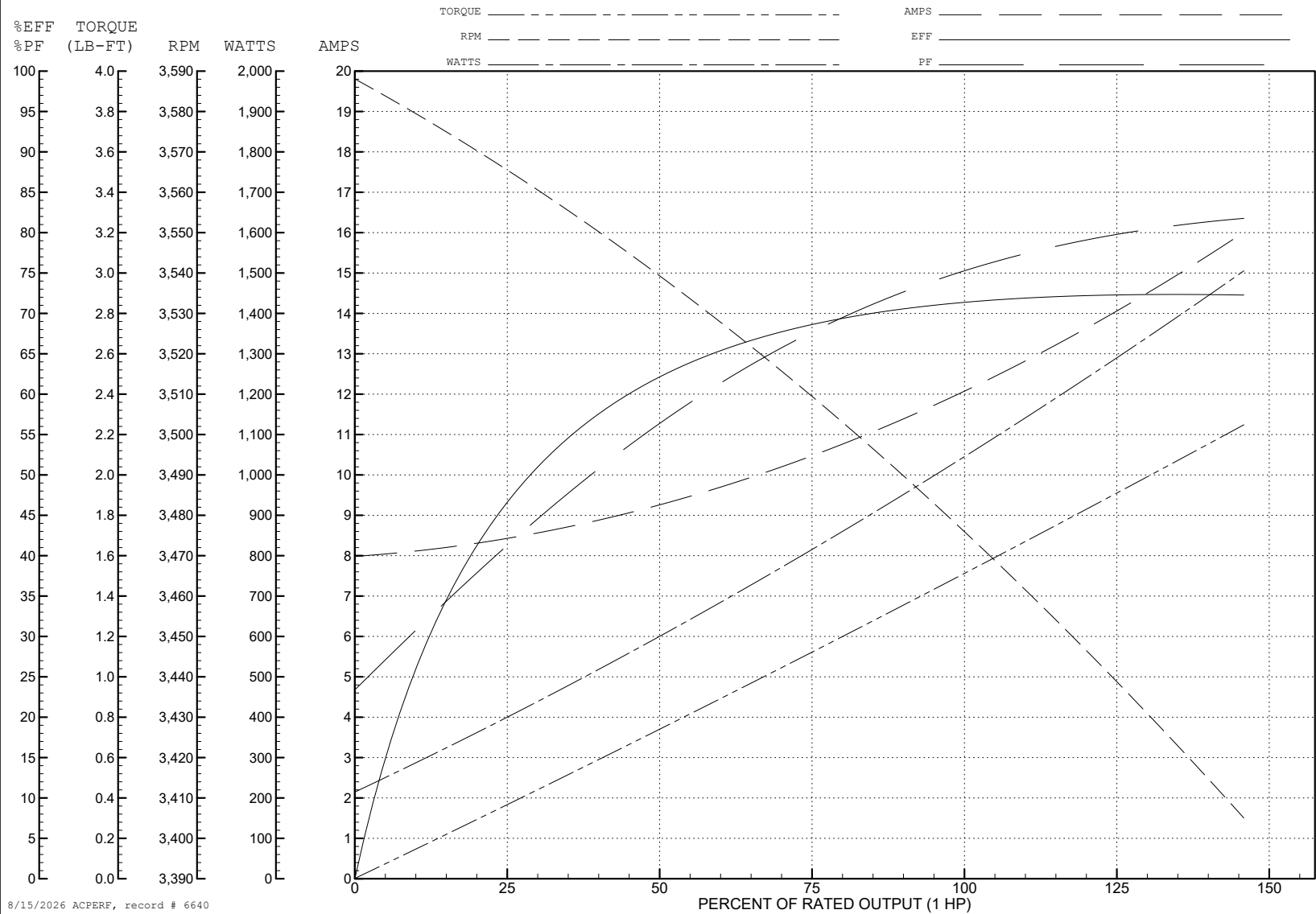
ABB Motors and Mechanical Inc.

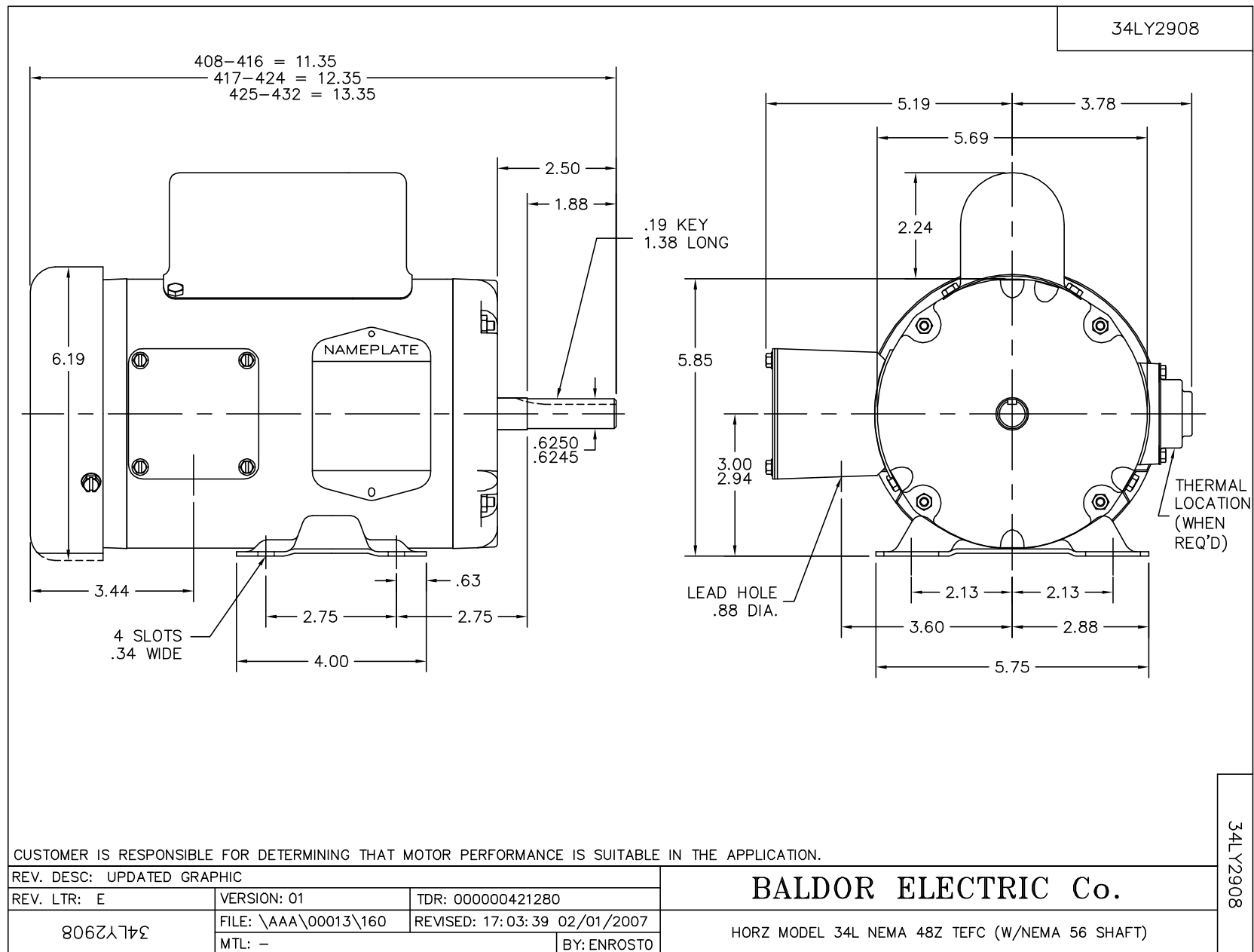
WINDING # 34WG2204

Typical performance - not guaranteed values.

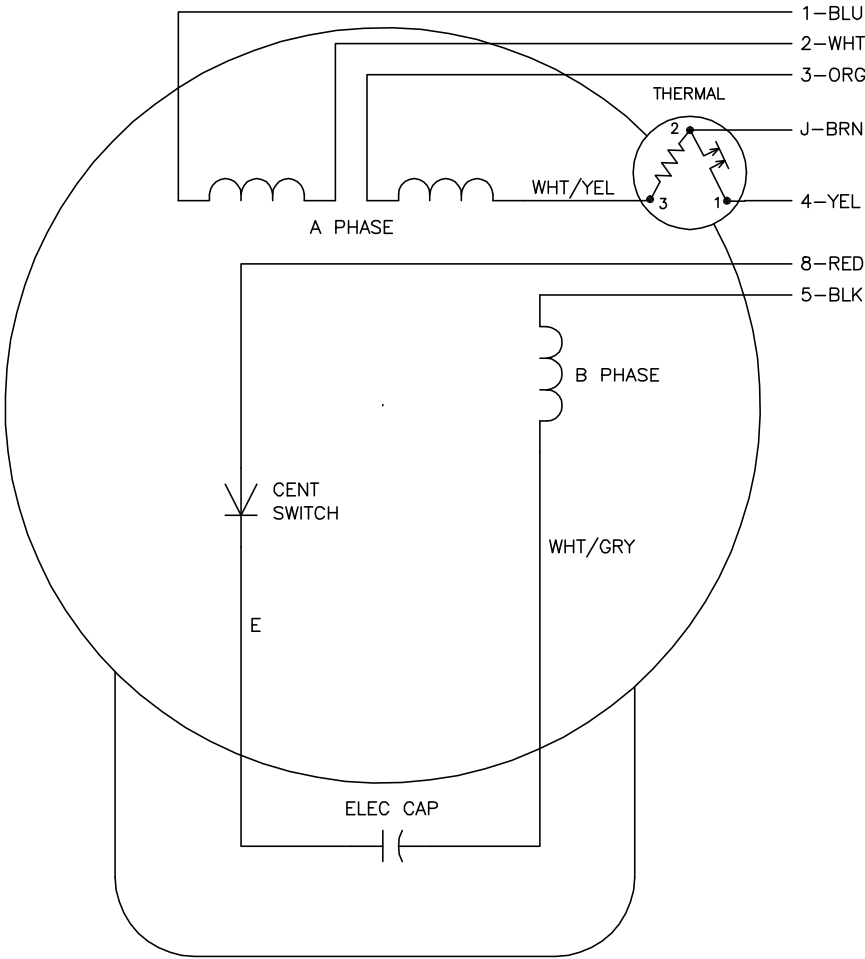
1 HP 1 PH 60 HZ 3450 RPM 115 V 3428L

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





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.

REV. DESC: REMOVE 2-TERMINAL THERMAL DETAIL, SEE CD0008A02		
REV. LTR: F	VERSION: 01	TDR: 000000360649
800000	FILE: \AAA\00007\408	REVISED: 10:56:54 04/18/2005
	MTL: —	BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE L, DV, REV, THERMAL, 7 LEADS

CD0008