

ABB BALDOR RELIANCE III

Customer information packet

EL11209M

.5HP, 1725RPM, 1PH, 60HZ, 48, 3424LC, OPEN, F1

Class - None

Division - Not Applicable

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	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 115.0 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	4.400 A @ 115.0 V 2.500 A @ 208.0 V 2.200 A @ 230.0 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 Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.2 a

Part Detail

Revision	H
Type	AC
Mech. spec.	34F868
Base	
Status	PRD/A
Elec. spec.	34WGR217
Layout	34LYF868
Eff. date	10-29-2024
CD Diagram	CD0881
Poles	04
Leads	7#18
Proprietary	False
Created date	10-02-2014

Insulation Class	F
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	7 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3424LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	10.63 IN
Power Factor	98
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	0.500 IN
Shaft Extension Location	Pulley End
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	Manual Thermal Overload
Winding Thermal 1 Location	SB

Winding Thermal 2

None

Nameplate

NP3273L												
CAT.NO.	EL11209M											
SPEC.	34F868R217G1											
HP	.5											
VOLTS	115/230											
AMP	4.4/2.2											
RPM	1725											
FRAME	48			HZ		60			PH		1	
SER.F.	1.25	CODE		K	DES	N	CL	F				
F.L. AVG. EFF.	76.2	PF		98								
RATING	40C AMB-CONT											
CC												
DE	6203			ODE		6203						
ENCL	OPEN	SN										
	SFA 5.8/2.9											

AC Induction Motor Performance Data

Record # 62065

Typical performance - not guaranteed values

Winding: 34WGR217-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		4.4/2.2		Breakdown Torque		4.01 LB-FT
R.P.M.		1725		Pull-up Torque		3.75 LB-FT
Hz		60 Phase		Locked-rotor Torque		6.42 LB-FT
NEMA Design Code		N KVA Code		Starting Current		31.9 A
Service Factor (S.F.)		1.25		No-load Current		1.06 A
NEMA Nom. Eff.		76.2 Power Factor		Line-line Res. @ 25°C		1.6786 Ω A Ph 2.0496 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		37°C
S.F. Amps		5.8/2.9		Temp. Rise @ S.F. Load		55°C

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	95	95	94	95
Efficiency	59.9	73	76.8	76.6	73.3	67.1	73.3
Speed	1782.8	1767.7	1748.6	1726.8	1694.2	1648.1	1694
Line amperes	1.56	2.34	3.34	4.39	5.8	7.69	5.8

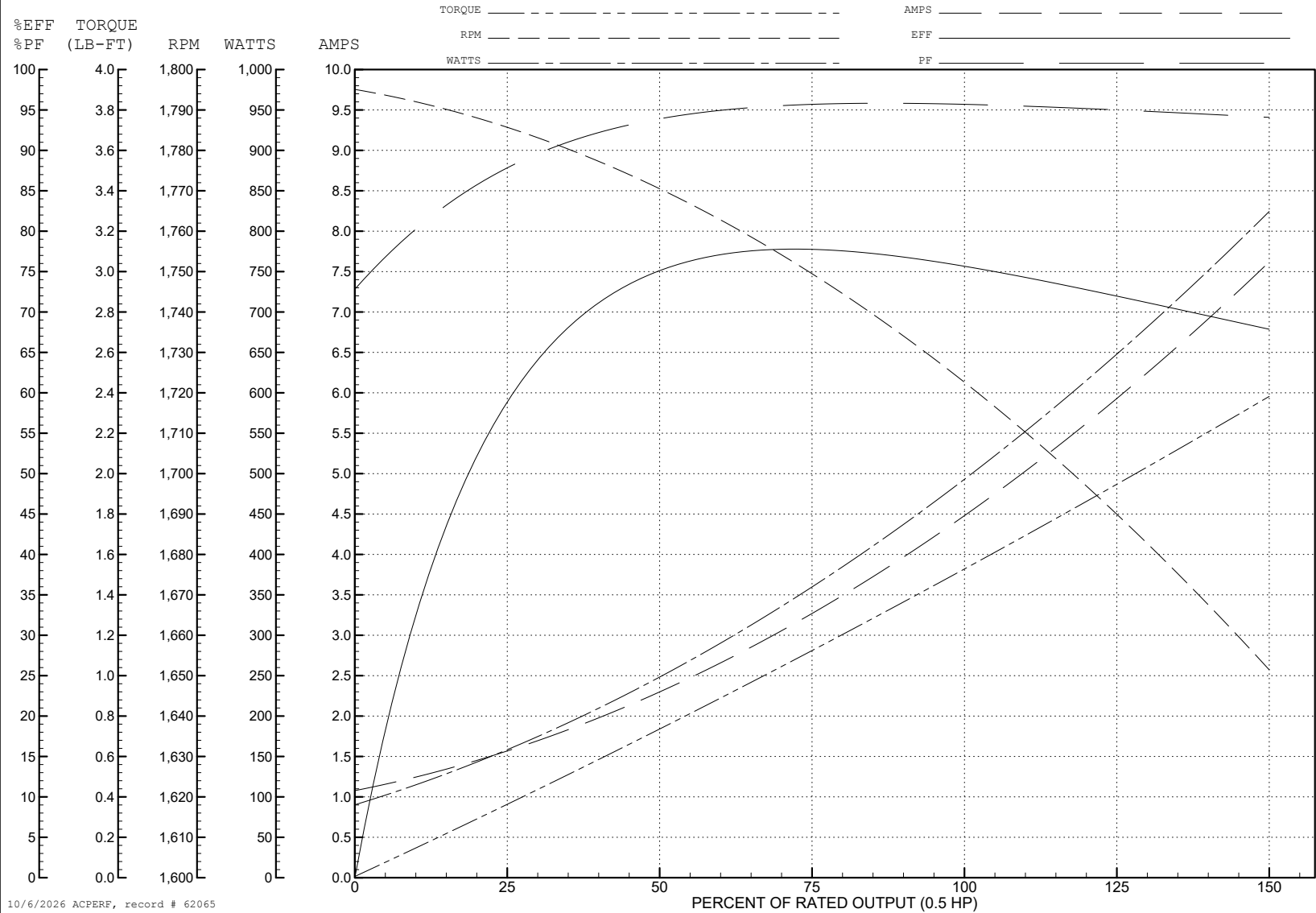
ABB Motors and Mechanical Inc.

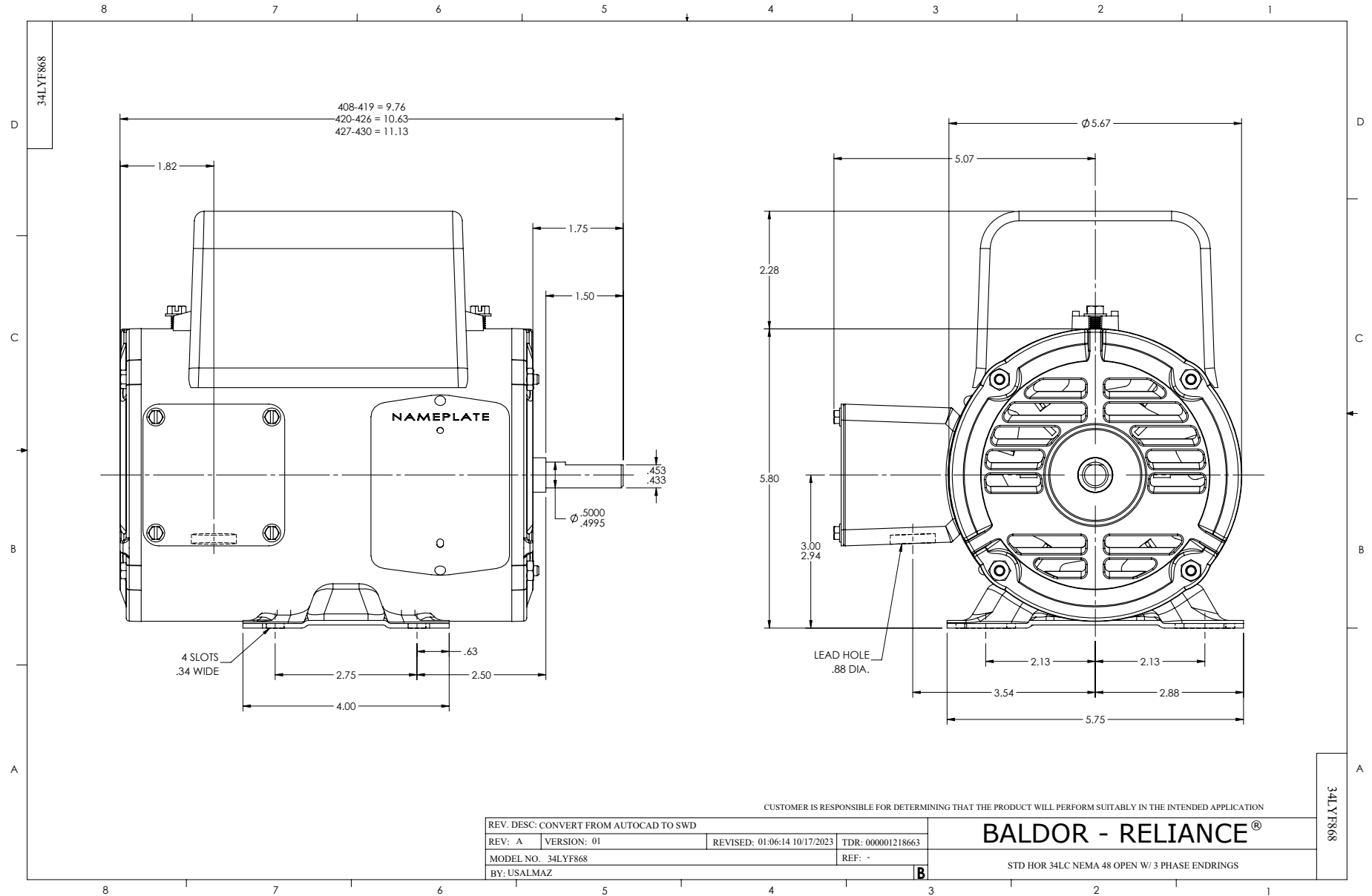
WINDING # 34WGR217

Typical performance - not guaranteed values.

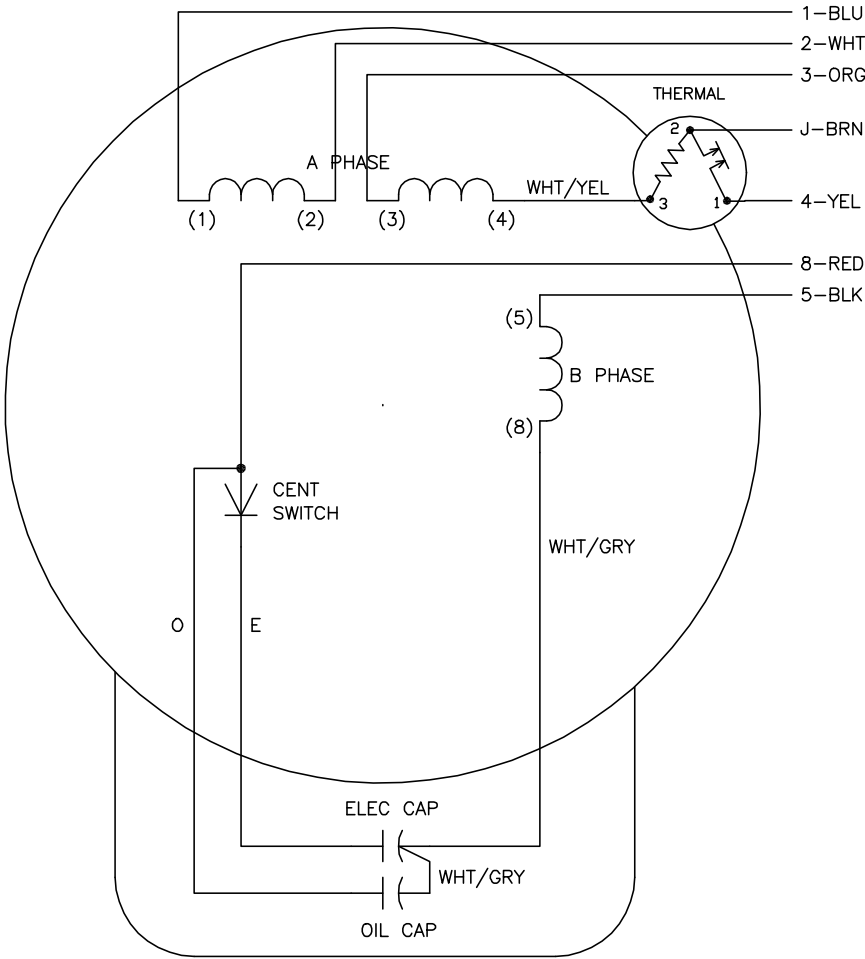
0.5 HP 1 PH 60 HZ 1725 RPM 115 V 3424LC

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





CD0881



	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 OPTIONAL THERMAL CONNECTION		
REV. LTR: C	VERSION: 01	TDR: 000000373051
CD0881	FILE: \AAA\00007\429	REVISED: 11:52:48 09/09/2005
	MTL: —	BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE LC, DV, REV, THERMAL, 7 LEAD

CD0881