

ABB BALDOR RELIANCE III

Customer information packet

AFL3504A

.5HP, 1745RPM, 1PH, 60HZ, 56, 3424LC, TEAO, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	56
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	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	4.600 A @ 115.0 V 2.300 A @ 230.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Terminal Panel
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a

Part Detail

Revision	G
Type	AC
Mech. spec.	34M893
Base	
Status	PRD/A
Elec. spec.	34WGX444
Layout	34LYM893
Eff. date	05-22-2026
CD Diagram	CD0320
Poles	04
Leads	7#18
Proprietary	False
Created date	11-23-2016

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
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	11.58 IN
Power Factor	89
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	1.00
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	1745 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	Automatic Thermal Overload
Winding Thermal 1 Location	SB

Winding Thermal 2

None

Nameplate

NP1257L									
CAT.NO.	AFL3504A								
SPEC.	34M893X444G1								
HP	.5								
VOLTS	115/230								
AMP	4.6/2.3								
RPM	1745								
FRAME	56			HZ		60		PH 1	
SER.F.	1.00	CODE	K	DES	N	CL	F		
NEMA-NOM-EFF	78.5	PF	89						
RATING	40C AMB-CONT								
CC									
DE	6203	ODE	6203						
ENCL	TEAO	SN							

Parts List

Part number	Description	Quantity
SA330601	SA 34M893X444G1	1.000 ea
RA318583	RA 34M893X444G1	1.000 ea
OC3020F12SP	CAPACITORS 20 MFD 370 VAC	1.000 ea
TPMRJ38RX	THERMAL 1PH 0.75 AUT 120C	1.000 ea
EC1270A02SP	ELEC CAP, 270-324 MFD, 125V, 1.48D X 3.	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 ea
34EP3204D20	FR EP 34 FRAME ENCL TERM PLATE W/.50 NP	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
WD4100A42	CAPLUG BPF-3/4, FOR 1/2" NPT OR 3/4 HOLE	1.000 ea
RM1001A01	GROMMET "MIDSTATES"	1.000 ea
HA6001A01	THERMAL RETAINER (PLATED)	1.000 ea
51XB1214A10	12-14 X 5/8HX WS SL SR TYBX	2.000 ea
34CB4800SP	CAPACITOR COVER, STAMPED PRIMED	1.000 ea
34GS3000SP	GASKET, CAPACITOR BOX	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	1.000 ea
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	1.000 ea
34GS5003A01	FOAM SLEEVE, ID = 2 1/16" X 4 3/8"	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
34EP3102A02SP	FR/PU ENDPLATE, MACH	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
34CB4501SP	TERMINAL BOX LID, STAMPED X (PLATED)	1.000 ea
34GS1005	GASKET, TERM PLATE LID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
MG1025C02	WILKOFASST SG, 787.105, TAN	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
33CB4800A02	CAPACITOR COVER, STAMPED	1.000 ea
35GS3001A02	GASKET, CA.COVER, 5.38 LONG .06 CS301	1.000 ea

HA3100A45	THRUBOLT 10-32 X 8.875	4.000 ea
SP5090A08	STD 34LC TP STAT SWITCH W/LEADS FOR EP	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0269	1PH,DV,REV,THERMAL,7 LD,L.AMP THRU HTR H	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea

AC Induction Motor Performance Data

Record # 60641

Typical performance - not guaranteed values

Winding: 34WGX444-R007			Type: 3424LC		Enclosure: TEAO			
Nameplate Data				115 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		.5		Full Load Torque		1.5 LB-FT		
Volts		115/230		Start Configuration		direct on line		
Full Load Amps		4.6/2.3		Breakdown Torque		3.6 LB-FT		
R.P.M.		1745		Pull-up Torque		3.1 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		4.2 LB-FT		
NEMA Design Code		N	KVA Code	K	Starting Current		36.2 A	
Service Factor (S.F.)		1		No-load Current		2 A		
NEMA Nom. Eff.		78.5	Power Factor	89	Line-line Res. @ 25°C		1.18 Ω A Ph 4.17 Ω B Ph	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		
						Locked-rotor Power Factor		87.7
						Rotor inertia		0.057 LB-FT2

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	73	81	89	89	91	92
Efficiency	57	72.4	76.9	78.5	78.1	75.9
Speed	1786	1773	1758	1742	1722	1699
Line amperes	2	2.8	3.6	4.6	5.6	6.8

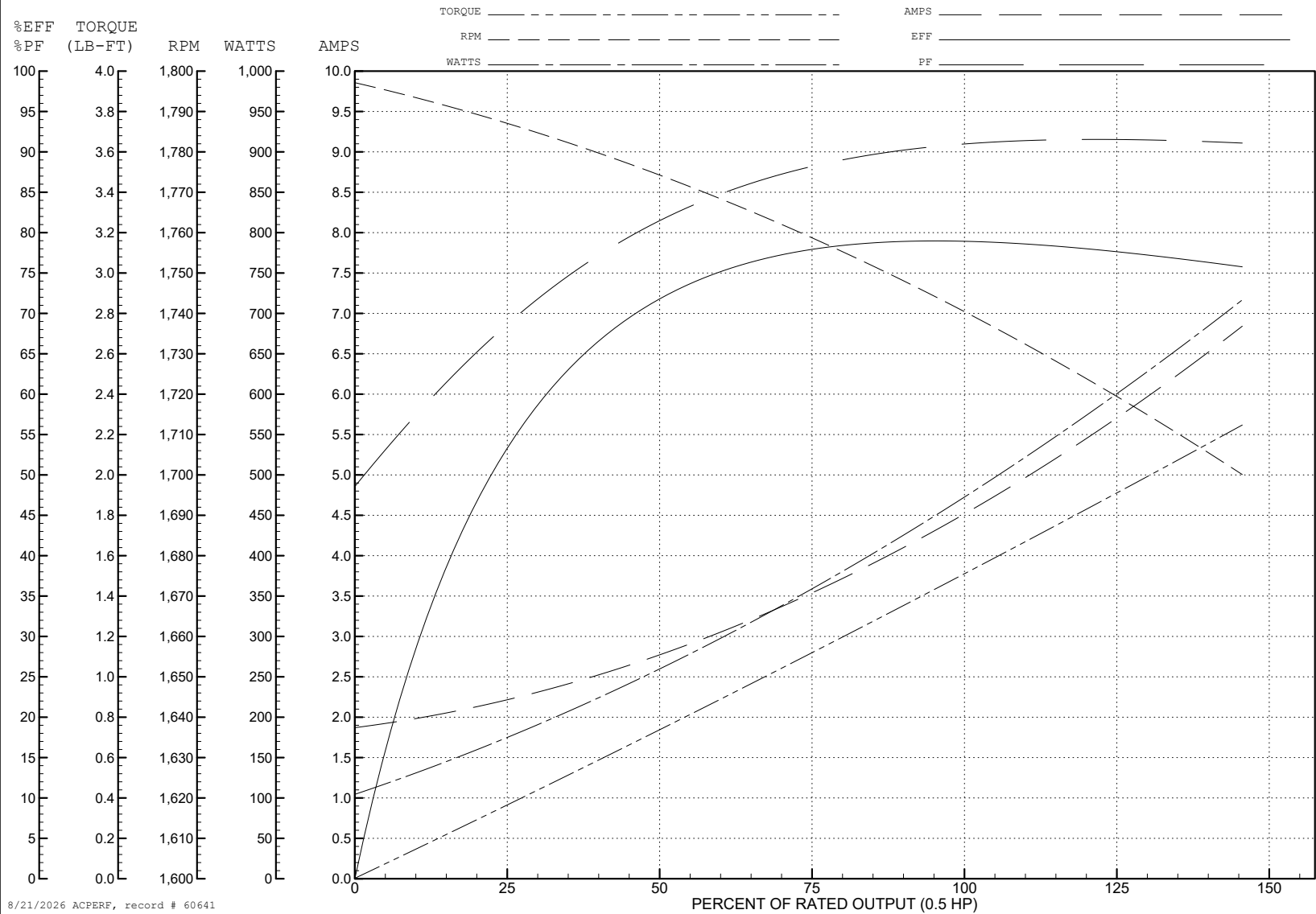
ABB Motors and Mechanical Inc.

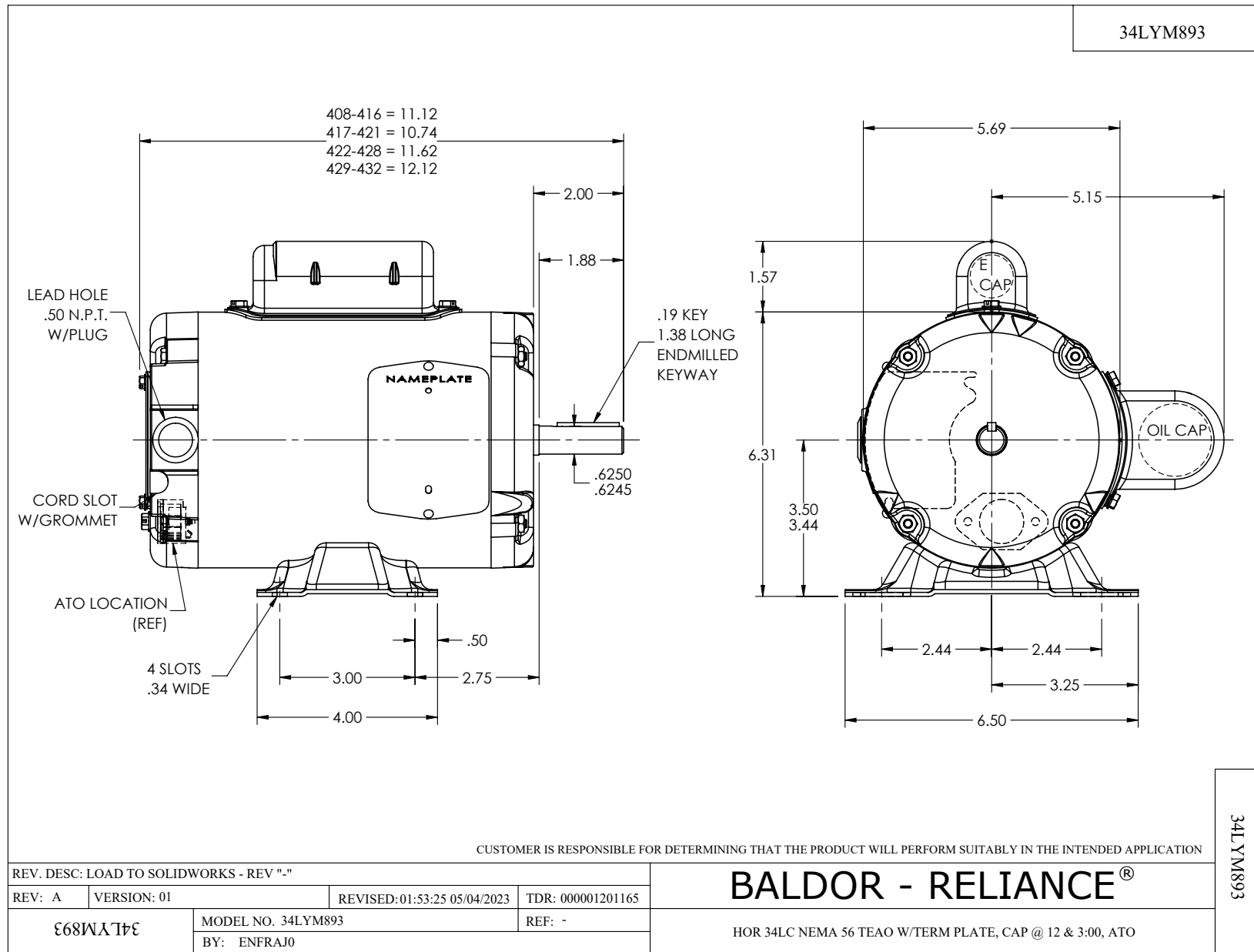
WINDING # 34WGX444

Typical performance - not guaranteed values.

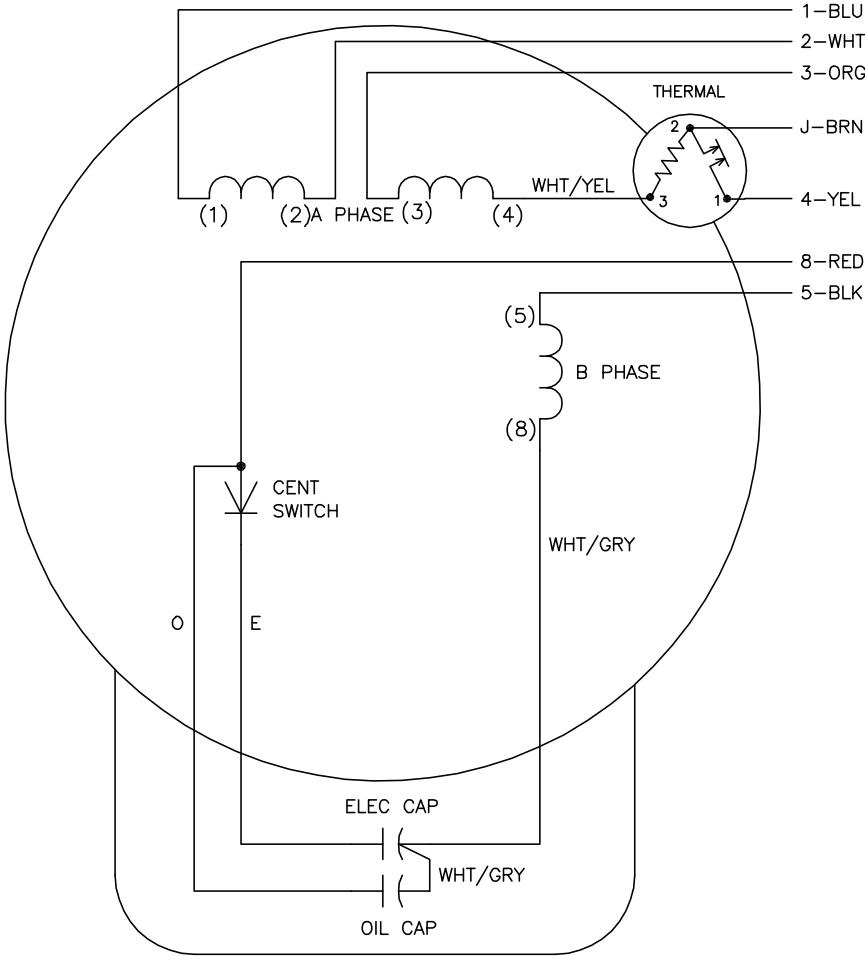
0.5 HP 1 PH 60 HZ 1745 RPM 115 V 3424LC

TORQUES (LB-FT): PO=3.6 PU=3.1 LR=4.2 LRA=36.2





CD0320



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

CD0320

REV. DESC: ADD INTERNAL CONNECTION TO HELP MANUFACTURING		
REV. LTR: G	VERSION: 01	TDR: 000000941594
FILE: \AAA\00007\422	REVISED: 02: 21: 00 08/28/2015	BY: ENALEMO
MTL: —	© □	

BALDOR

TYPE LC, DV, REV, THERMAL, B PH AMPS THRU HTR HVC, 7 LEAD
SH 1 of 1