ABB BALDOR RELIANCE

Customer information packet

AFL3504A

.5HP, 1745RPM, 1PH, 60HZ, 56, 3424LC, TEAO, F1
Class - None
Division - Not Applicable

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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**								

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. @ 25ºC**	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

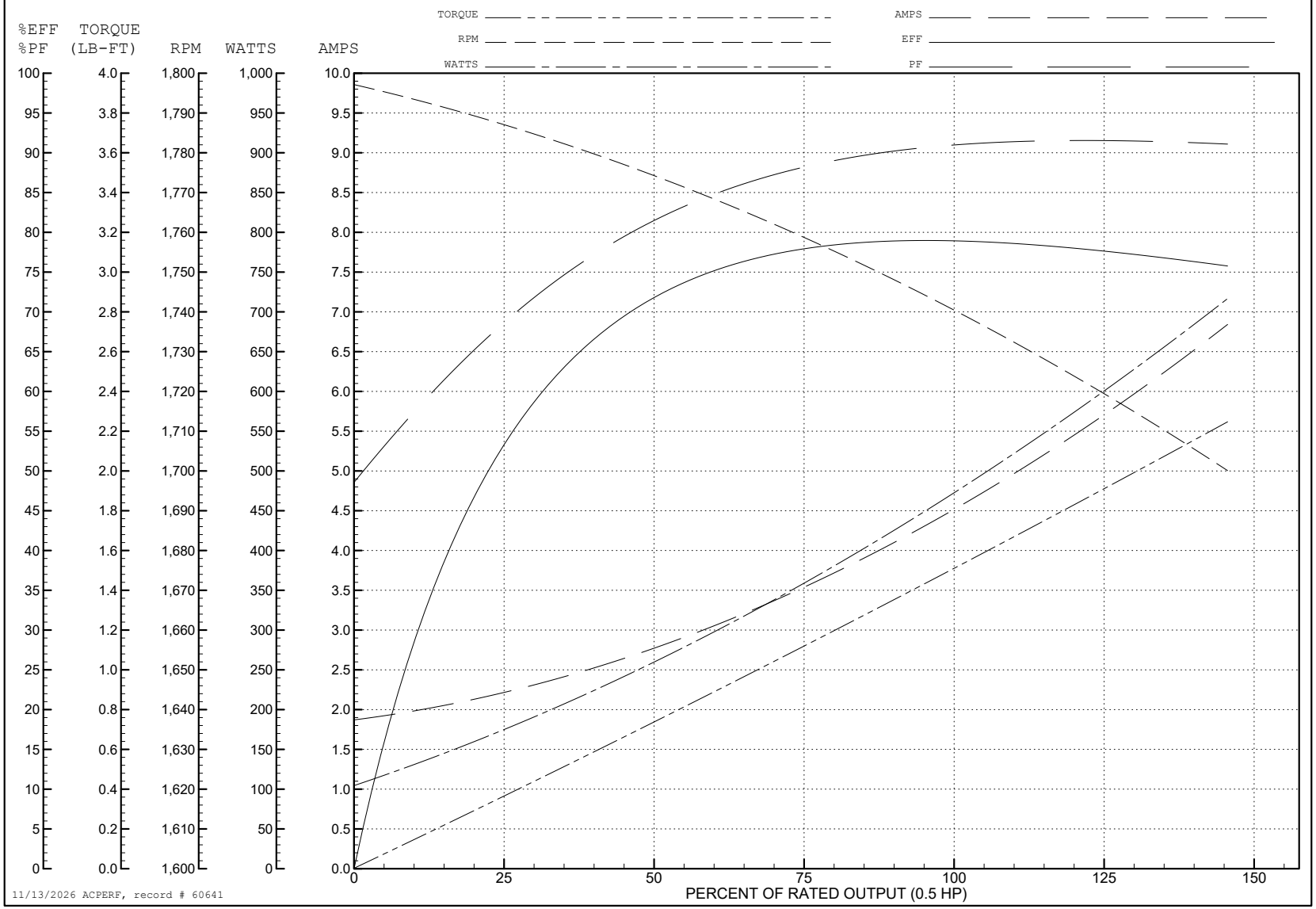
ABB Motors and Mechanical Inc.

WINDING # 34WGX444

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

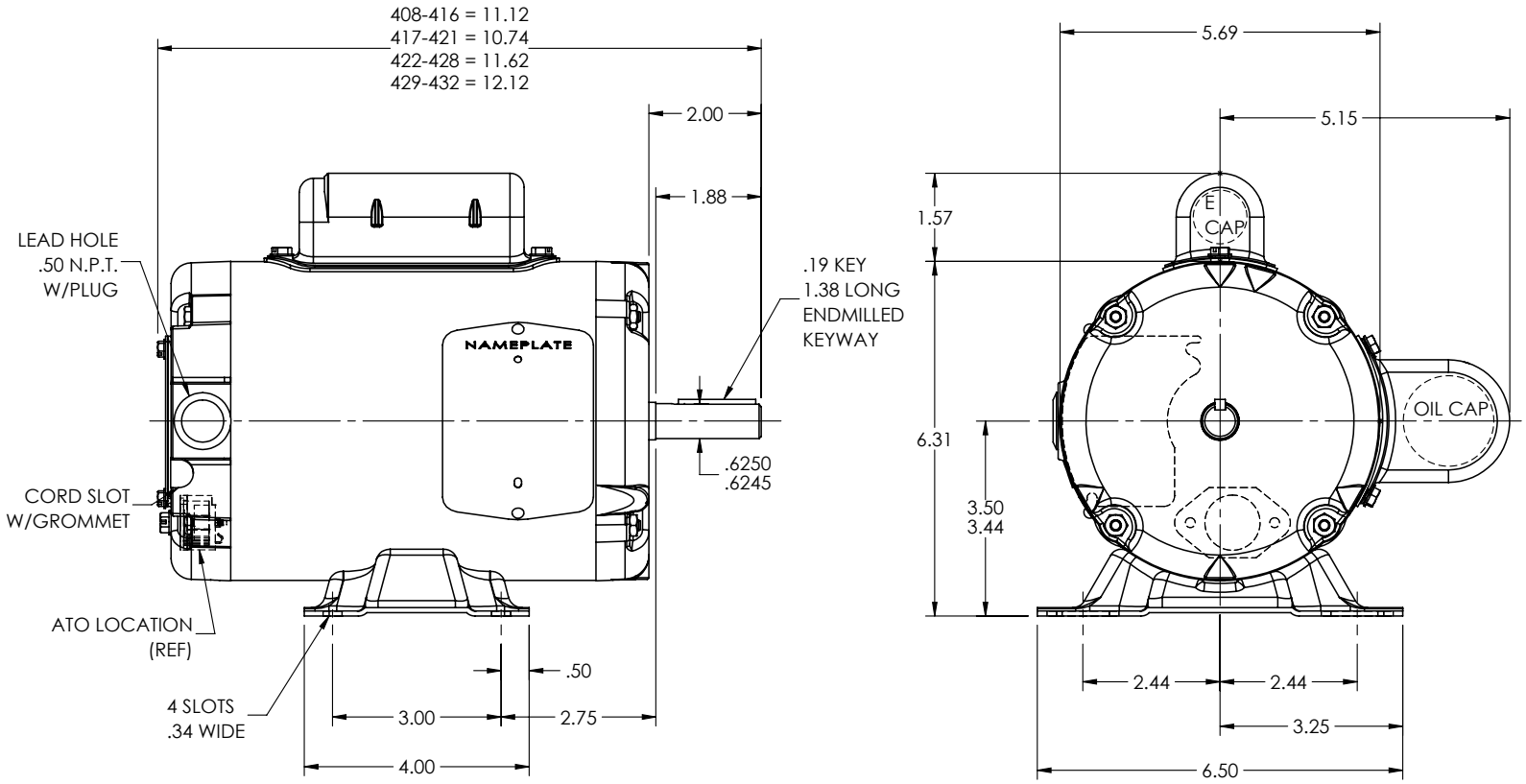
Typical performance - not guaranteed values.

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



11/13/2026 ACPERF, record # 60641

34LYM893



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

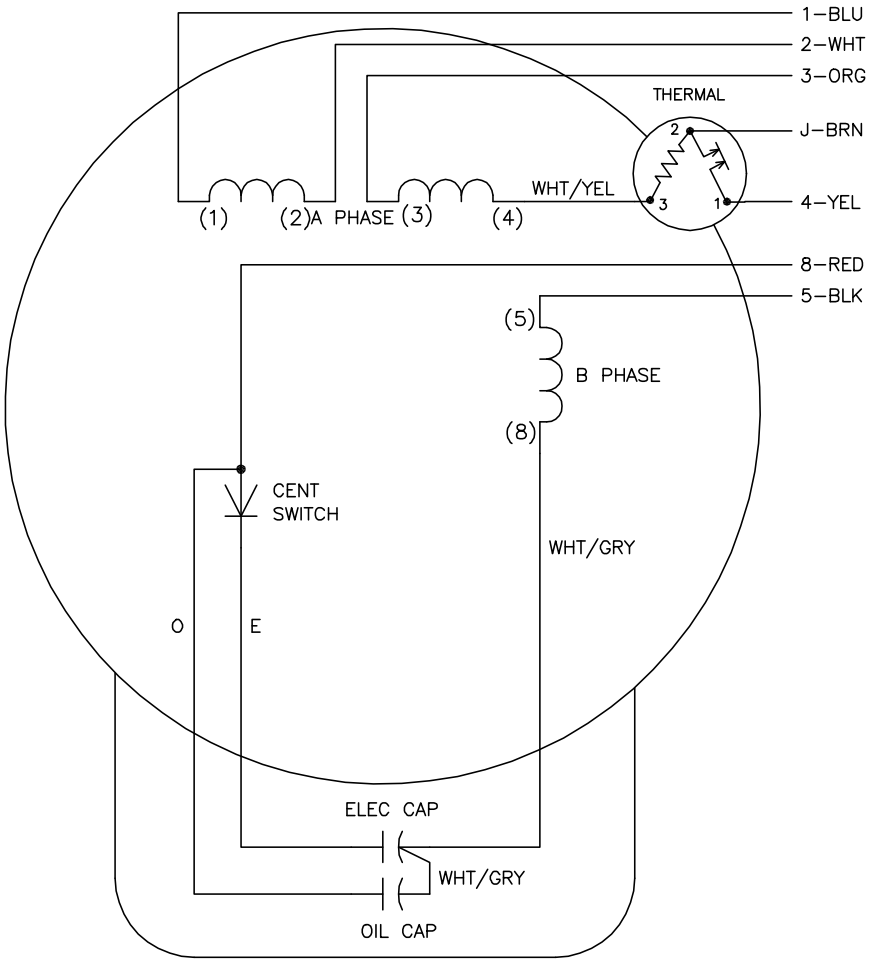
REV. DESC: LOAD TO SOLIDWORKS - REV "-"			
REV: A	VERSION: 01	REVISED: 01:53:25 05/04/2023	TDR: 000001201165
34LYM893	MODEL NO. 34LYM893		REF: -
	BY: ENFRAJ0		

BALDOR - RELIANCE®

HOR 34LC NEMA 56 TEAO W/TERM PLATE, CAP @ 12 & 3:00, ATO

34LYM893

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