

**BALDOR • RELIANCE**

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# Customer information packet

## EL1409T

5HP, 3450RPM, 1PH, 60HZ, 184T, 3634LC, OPEN, F1

Class - None

Division - Not Applicable

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6/9/2025 4:24:29 AM

## Specifications

Enclosure	OPEN
Frame	184T
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	5.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	UR CSA CURUSEEV
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	20.000 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.5 %
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	20.0 a
Insulation Class	F

## Part detail

Revision	X
Type	AC
Mech. spec.	36E002
Base	
Status	PRD/A
Elec. spec.	36WGS116
Layout	36LYE002
Eff. date	12-27-2024
CD Diagram	CD0017A02
Poles	02
Leads	2#14 A PH,2#16 B PH
Proprietary	False
Created date	11-13-2008

<b>Inverter Code</b>	Not Inverter
<b>KVA Code</b>	F
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	2 @ 14 AWG, A PH
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3634LC
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	15.00 IN
<b>Power Factor</b>	97
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.125 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	3450 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP2116L</b>									
<b>CAT.NO.</b>	EL1409T								
<b>SPEC.</b>	36E002S116E7								
<b>HP</b>	5								
<b>VOLTS</b>	230								
<b>AMP</b>	20								
<b>RPM</b>	3450								
<b>FRAME</b>	184T			<b>HZ</b>	60		<b>PH</b>	1	
<b>SER.F.</b>	1.15	<b>CODE</b>	F	<b>DES</b>	L	<b>CL</b>	F		
<b>NEMA-NOM-EFF</b>	81.5	<b>PF</b>	97						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>									
<b>DE</b>	6206	<b>ODE</b>	6205						
<b>ENCL</b>	OPEN	<b>SN</b>							

**AC Induction Motor Performance Data**

Record # 61435

Typical performance - not guaranteed values

Winding: 36WGS116-R002		Type: 3634LC	Enclosure: OPEN	
<b>Nameplate Data</b>			<b>230 V, 60 Hz: Single Voltage Motor</b>	
Rated Output (HP)	5	Full Load Torque	7.39 LB-FT	
Volts	230	Start Configuration	direct on line	
Full Load Amps	20	Breakdown Torque	19.7 LB-FT	
R.P.M.	3450	Pull-up Torque	14.3 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque	15.9 LB-FT
NEMA Design Code	L KVA Code	F	Starting Current	114 A
Service Factor (S.F.)	1.15	No-load Current	2.2 A	
NEMA Nom. Eff.	81.5 Power Factor	97	Line-line Res. @ 25°C	0.425 Ω A Ph 1.4 Ω B Ph
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	45°C	
S.F. Amps		Temp. Rise @ S.F. Load	57°C	

**Load Characteristics 230 V, 60 Hz, 5 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	96	98	98	97	97	96	97
Efficiency	67.6	79	82	81.6	79.3	74	80.2
Speed	3556	3527	3493	3456	3409	3334	3428
Line amperes	5.56	9.83	14.6	19.9	25.8	34.6	23.4

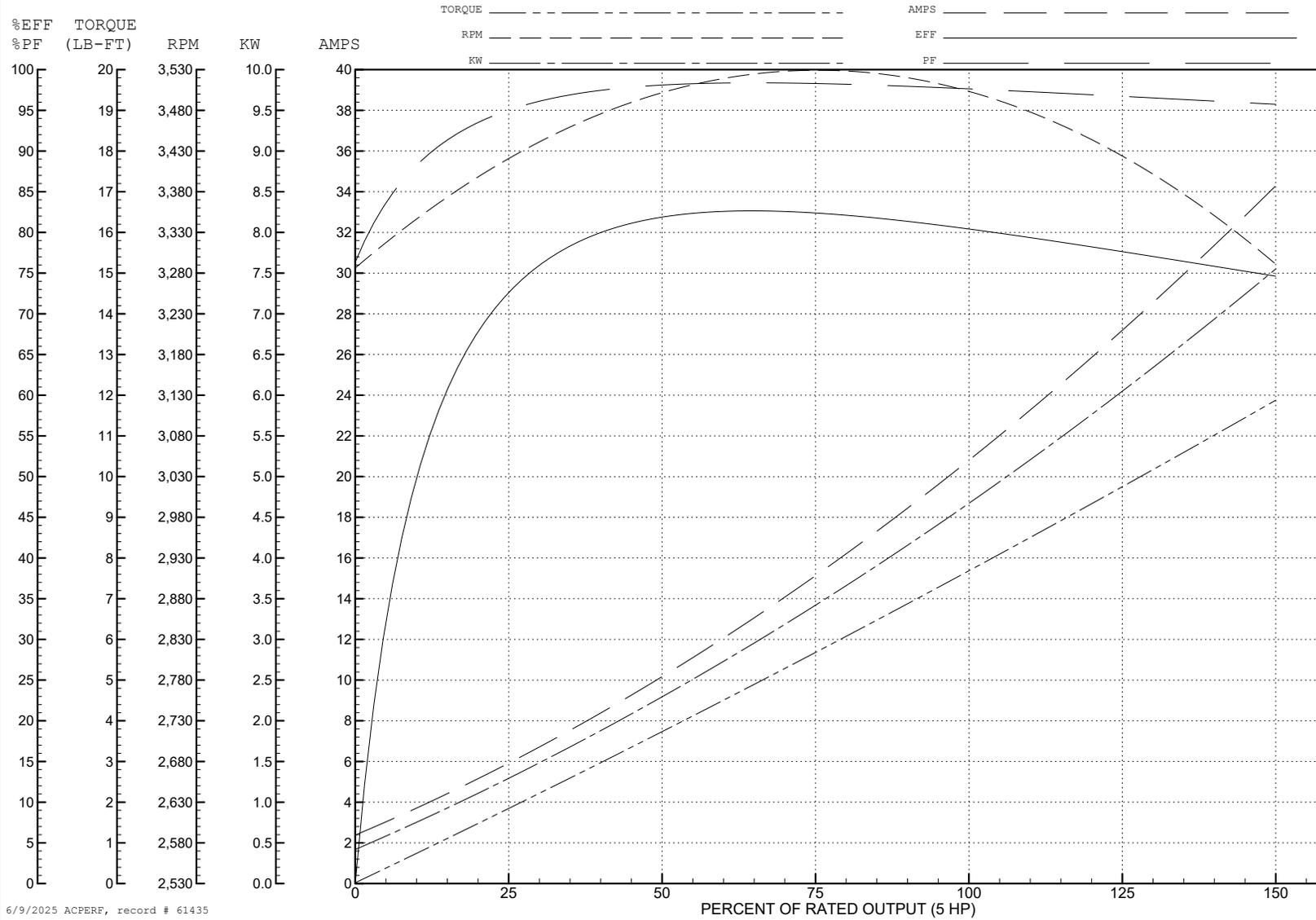
ABB Motors and Mechanical Inc.

WINDING # 36WGS116

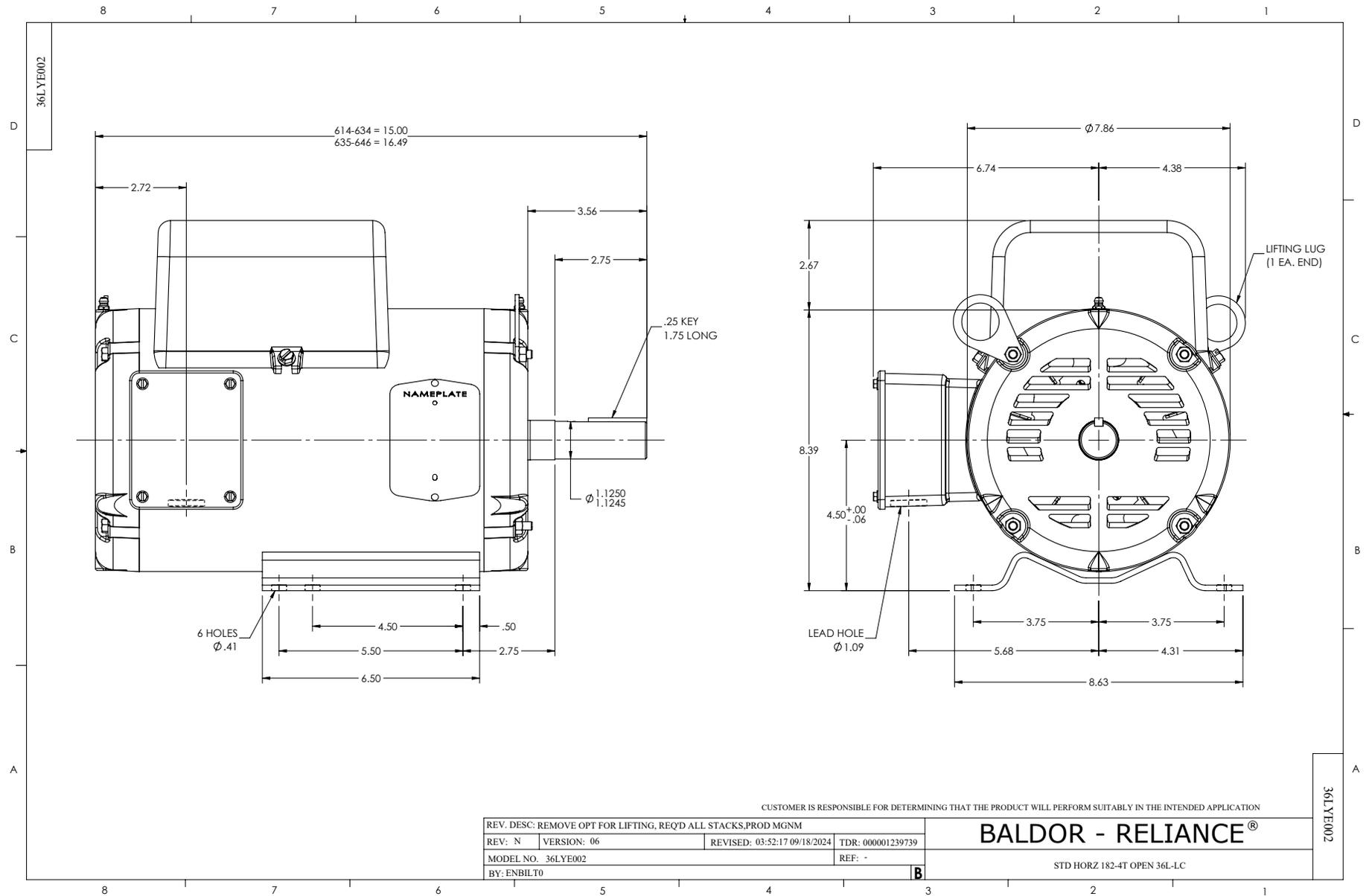
Typical performance - not guaranteed values.

5 HP 1 PH 60 HZ 3450 RPM 230 V 3634LC

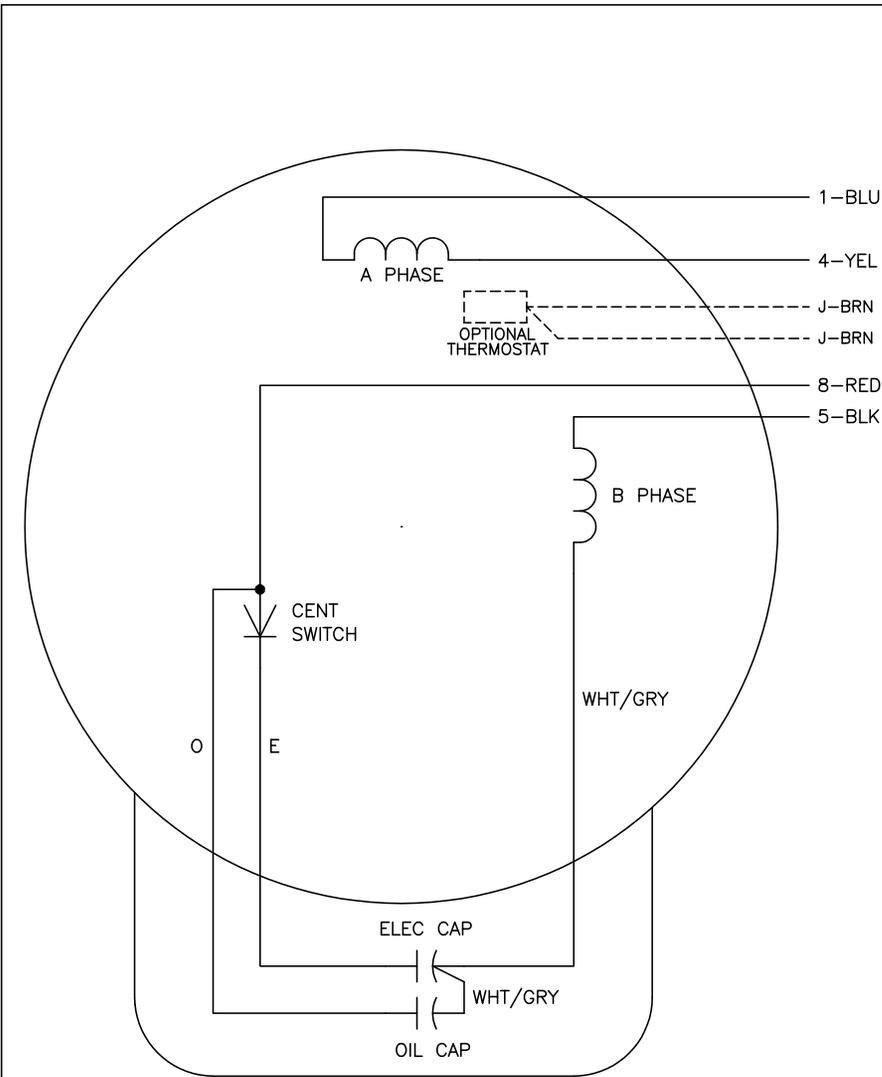
TORQUES (LB-FT): PO=19.7 PU=14.3 LR=15.9 LRA=114



6/9/2025 ACPERF, record # 61435



CD0017A02



	LINE A	LINE B
STD	1,8	4,5
OPP	1,5	4,8

**NOTES:**

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0017A02

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: B	BY: JLP	REVISED: 04/09/99 11:30	TDR: 0178636
CD0017A02		FILE: AAA00007514	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

TYPE LC, SV, REV, 4 LEADS