

# **BALDOR**® • ***RELIANCE***

## **Product Information Packet**

# **CL3501**

**.33HP, 1725RPM, 1PH, 60HZ, 56C, 3414L, TEFC, F1**

Part Detail							
Revision:	AD	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	34WG5507	CD Diagram:	CD0001	Mfg Plant:	
Mech. Spec:	34C062	Layout:	34LYC062	Poles:	04	Created Date:	
Base:	RG	Eff. Date:	08-26-2015	Leads:	6#18		

Specs			
Catalog Number:	CL3501	Insulation Class:	B
Enclosure:	TEFC	Inverter Code:	Not Inverter
Frame:	56C	KVA Code:	L
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	.330 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	6 @ 18 AWG
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	115.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3414L
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	60
	UR	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	3.000 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding

	3.600 A @ 208.0 V	<b>Shaft Rotation:</b>	Reversible
	6.000 A @ 115.0 V	<b>Shaft Slinger Indicator:</b>	No Slinger
<b>Design Code:</b>	N	<b>Speed Code:</b>	Single Speed
<b>Drip Cover:</b>	No Drip Cover	<b>Motor Standards:</b>	NEMA
<b>Duty Rating:</b>	CONT	<b>Starting Method:</b>	Direct on line
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Thermal Device - Bearing:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Thermal Device - Winding:</b>	None
<b>Front Face Code:</b>	Standard	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Front Shaft Indicator:</b>	None	<b>Winding Thermal 1:</b>	None
<b>Heater Indicator:</b>	No Heater	<b>Winding Thermal 2:</b>	None

Nameplate NP1256L										
CAT.NO.	CL3501									
SPEC.	34C62-5507									
HP	.33									
VOLTS	115/230									
AMP	6/3									
RPM	1725									
FRAME	56C				HZ	60			PH	1
SER.F.	1.35			CODE	L	DES	N		CLASS	B
NEMA-NOM-EFF	60			PF	60					
RATING	40C AMB-CONT									
CC									USABLE AT 208V	3.6
DE	6203				ODE	6203				
ENCL	TEFC			SN						
	SFA 6.8/3.4									

**AC Induction Motor Performance Data**  
Record # 6774 - Typical performance - not guaranteed values

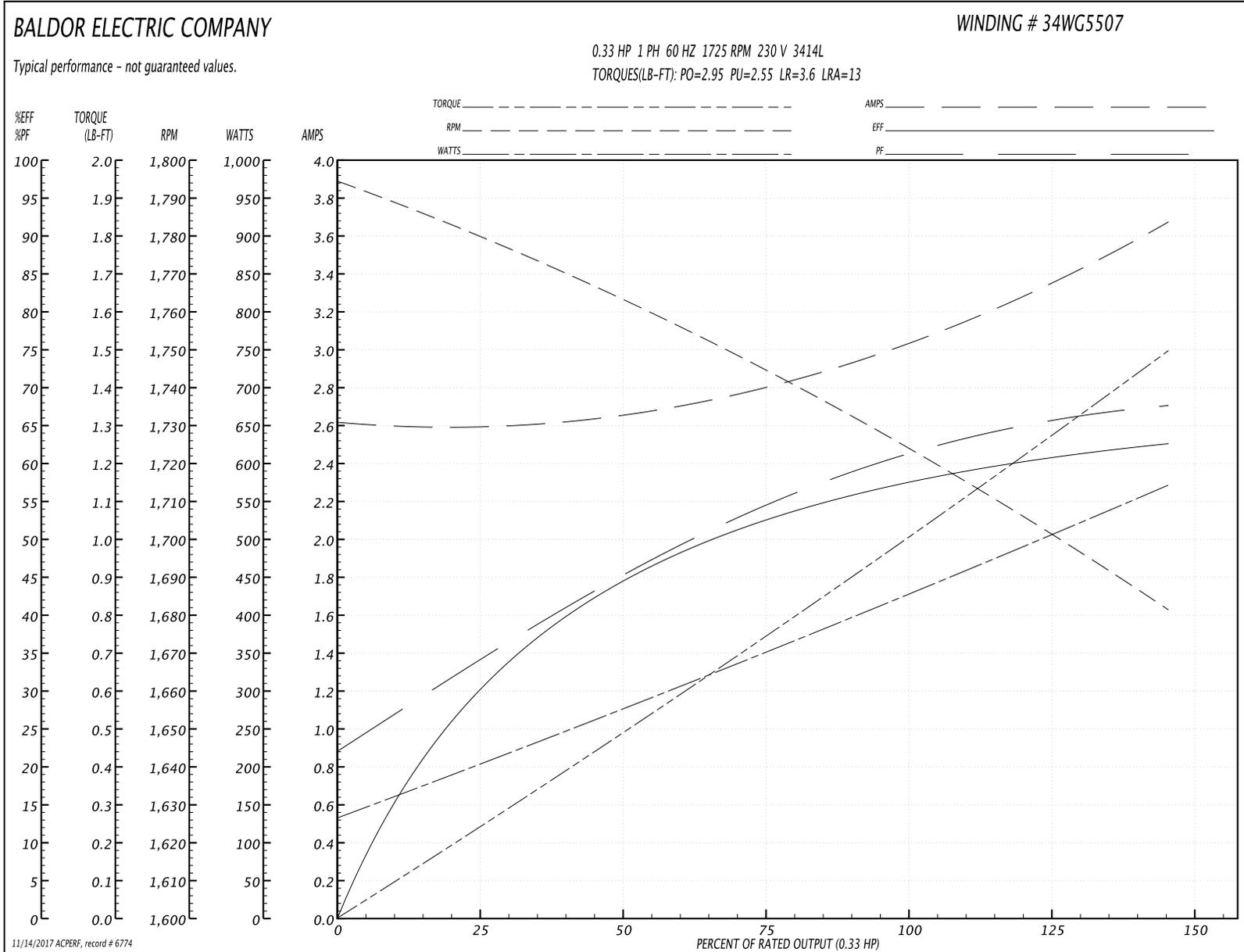
<b>Winding:</b> 34WG5507-R001	<b>Type:</b> 3414L	<b>Enclosure:</b> TEFC
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Nameplate Data				230 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	.33			Full Load Torque	1 LB-FT
Volts	115/230			Start Configuration	direct on line
Full Load Amps	6/3			Breakdown Torque	2.95 LB-FT
R.P.M.	1725			Pull-up Torque	2.55 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	3.6 LB-FT
NEMA Design Code	N	KVA Code	L	Starting Current	13 A
Service Factor (S.F.)	1.35			No-load Current	2.6 A
NEMA Nom. Eff.	60	Power Factor	60	Line-line Res. @ 25°C	6.32 Ω A Ph 4.93 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	67°C
S.F. Amps	6.8/3.4			Temp. Rise @ S.F. Load	83°C

Load Characteristics 230 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	41	52	60	67	73	71
Efficiency	33	41	52	60	61.5	61.5	61.5
Speed	1780	1760	1745	1725	1705	1680	1690
Line amperes	2.6	2.7	2.8	3	3.3	3.7	3.4

Performance Graph at 230V, 60Hz, 0.33HP Typical performance - Not guaranteed values



**AC Induction Motor Performance Data**

Record # 29314 - Typical performance - not guaranteed values

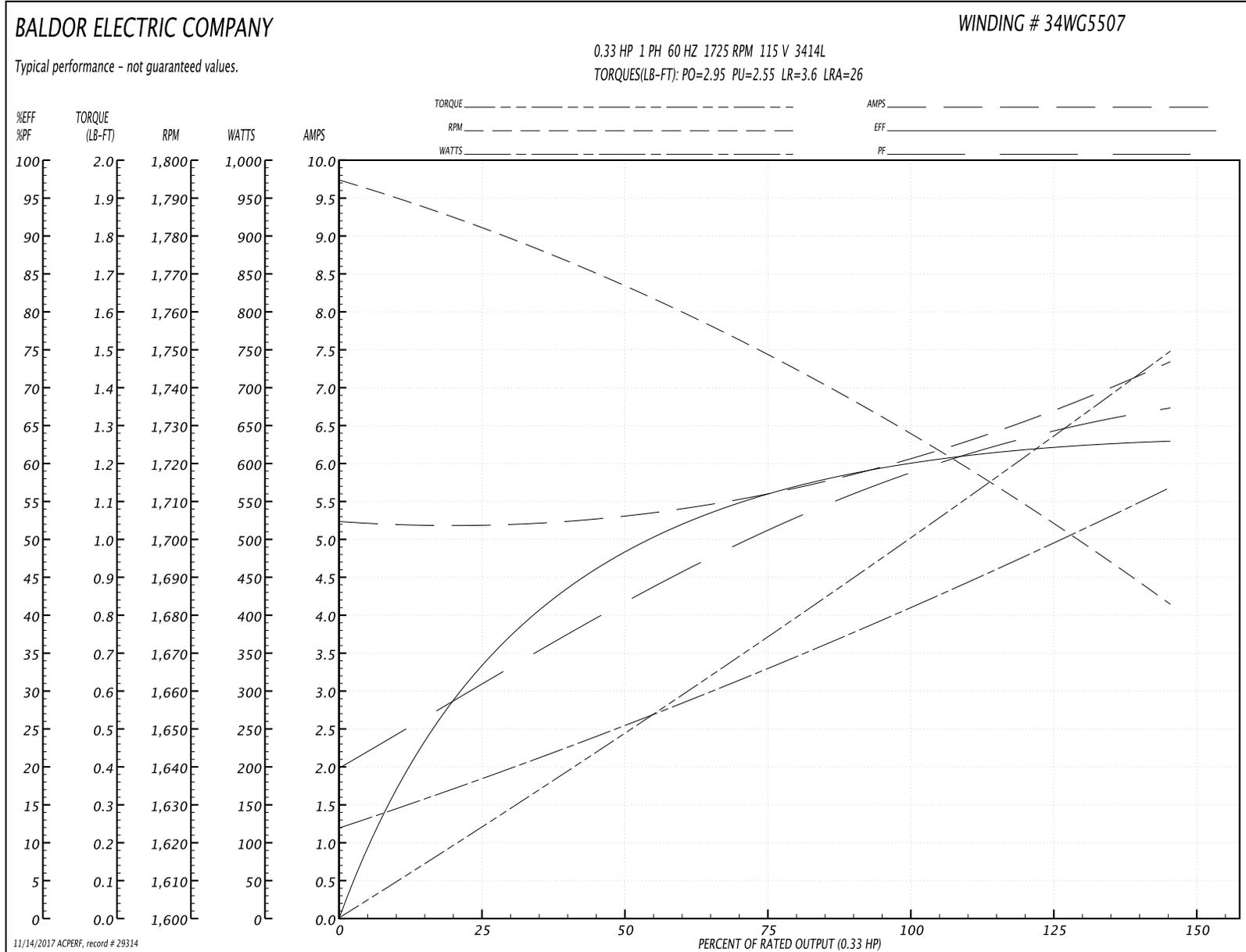
<b>Winding:</b> 34WG5507-R001	<b>Type:</b> 3414L	<b>Enclosure:</b> TEFC
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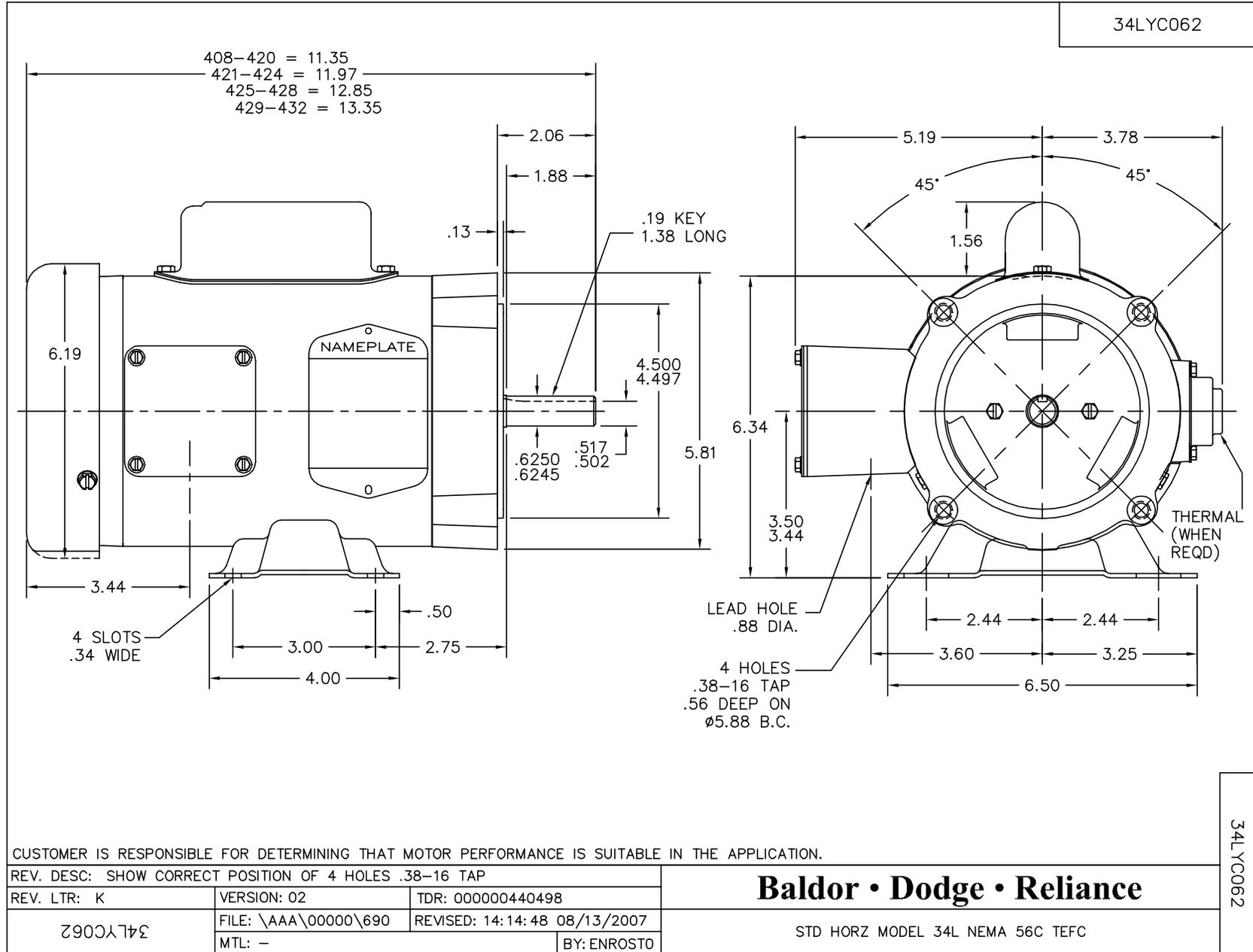
Nameplate Data				115 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)	.33			Full Load Torque	1 LB-FT
Volts	115/230			Start Configuration	direct on line
Full Load Amps	6/3			Breakdown Torque	2.95 LB-FT
R.P.M.	1725			Pull-up Torque	2.55 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	3.6 LB-FT
NEMA Design Code	N	KVA Code	L	Starting Current	26 A
Service Factor (S.F.)	1.35			No-load Current	5.2 A
NEMA Nom. Eff.	60	Power Factor	60	Line-line Res. @ 25°C	1.5 Ω A Ph 4.81 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	68°C
S.F. Amps	6.8/3.4			Temp. Rise @ S.F. Load	81°C

Load Characteristics 115 V, 60 Hz, 0.33 HP

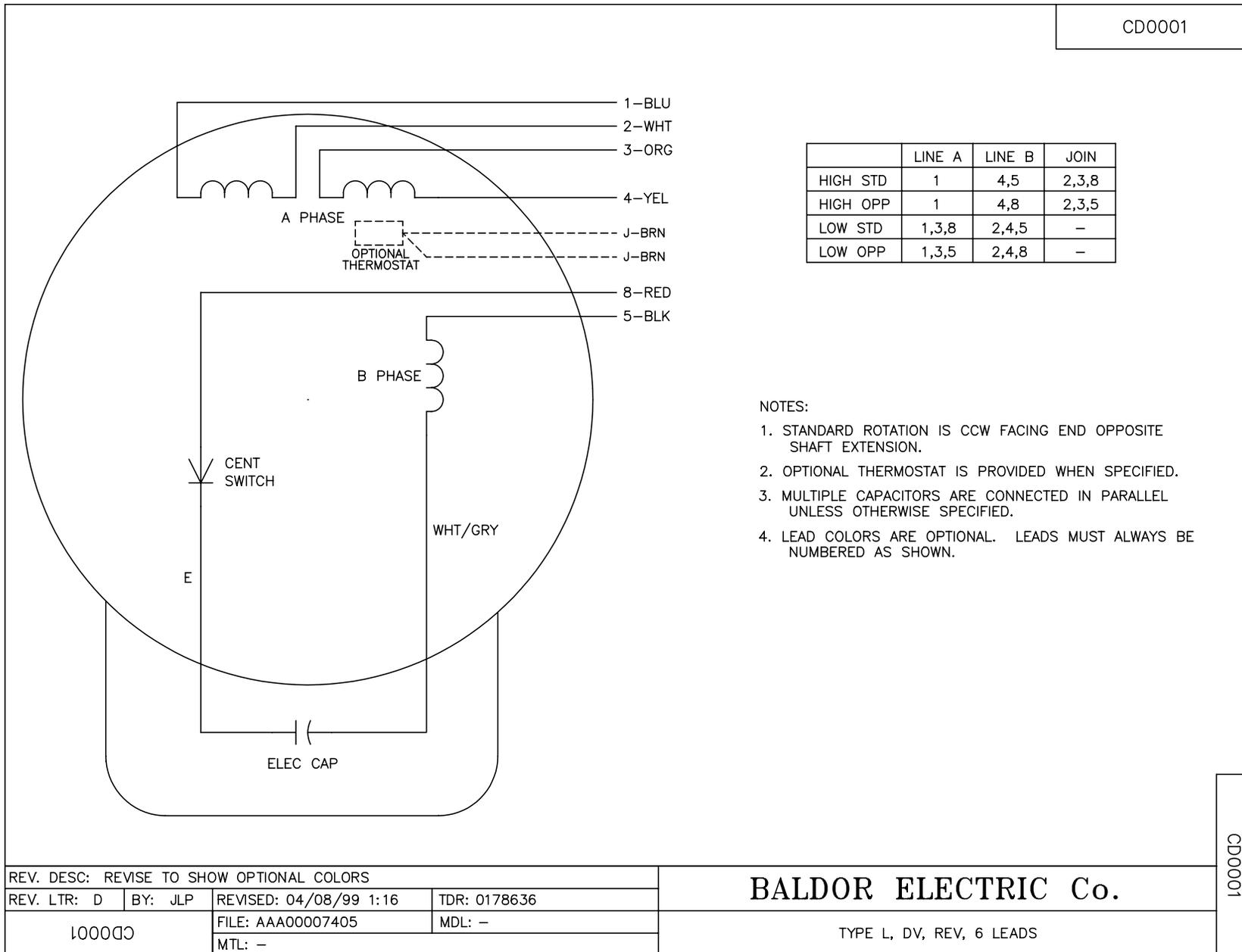
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	41	52	59	65	67	66
Efficiency	34	49	56	59.9	62	63	62.4
Speed	1783	1765	1745	1730	1710	1680	1698
Line amperes	5.2	5.4	5.6	6	6.6	7.4	6.92

Performance Graph at 115V, 60Hz, 0.33HP Typical performance - Not guaranteed values





CD0001



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.

CD0001

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:16	TDR: 0178636
100000		FILE: AAA00007405	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

TYPE L, DV, REV, 6 LEADS