

**BALDOR® • RELIANCE** 

**Product Information Packet**

**EL3501**

**.33HP, 1740RPM, 1PH, 60HZ, 56, 3418LC, TEFC, F1**

Part Detail							
Revision:	AH	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	34WGX028	CD Diagram:	CD0055	Mfg Plant:	
Mech. Spec:	34G375	Layout:	34LYG375	Poles:	04	Created Date:	
Base:	RG	Eff. Date:	04-22-2021	Leads:	6#18		

Specs			
Catalog Number:	EL3501	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	56	Inverter Code:	Not Inverter
Frame Material:	Steel	KVA Code:	J
Motor Letter Type:	Cap Start, Cap Run	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	.330 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	6 @ 18 AWG
Voltage @ Frequency:	115.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3418LC
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	88
	CSA EEV	Product Family:	General Purpose
	NEMA_PREMIUM	Pulley End Bearing Type:	Ball
	UR	Pulley Face Code:	Standard
Auxillary Box:	No Auxillary Box	Pulley Shaft Indicator:	Standard
Auxillary Box Lead Termination:	None	Rodent Screen:	None
Base Indicator:	Rigid	RoHS Status:	ROHS COMPLIANT

<b>Bearing Grease Type:</b>	Polyrex EM (-20F +300F)	<b>Shaft Extension Location:</b>	Pulley End
<b>Blower:</b>	None	<b>Shaft Ground Indicator:</b>	No Shaft Grounding
<b>Current @ Voltage:</b>	3.200 A @ 115.0 V	<b>Shaft Rotation:</b>	Reversible
	1.600 A @ 230.0 V	<b>Shaft Slinger Indicator:</b>	No Slinger
<b>Design Code:</b>	-	<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>Winding Thermal 2:</b>	None

<b>Nameplate NP2117L</b>									
<b>CAT.NO.</b>	EL3501								
<b>SPEC.</b>	34G375X28G1								
<b>HP</b>	.33								
<b>VOLTS</b>	115/230								
<b>AMP</b>	3.2/1.6								
<b>RPM</b>	1740								
<b>FRAME</b>	56			<b>HZ</b>	60		<b>PH</b>	1	
<b>SER.F.</b>	1.35			<b>CODE</b>	J		<b>DES</b>	-	
<b>NEMA-NOM-EFF</b>	77			<b>PF</b>	88		<b>CL</b>	F	
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>							<b>USABLE AT 208V</b>	N/A	
<b>DE</b>	6203			<b>ODE</b>	6203				
<b>ENCL</b>	TEFC			<b>SN</b>					
	SFA 4.2/2.1								

**AC Induction Motor Performance Data**

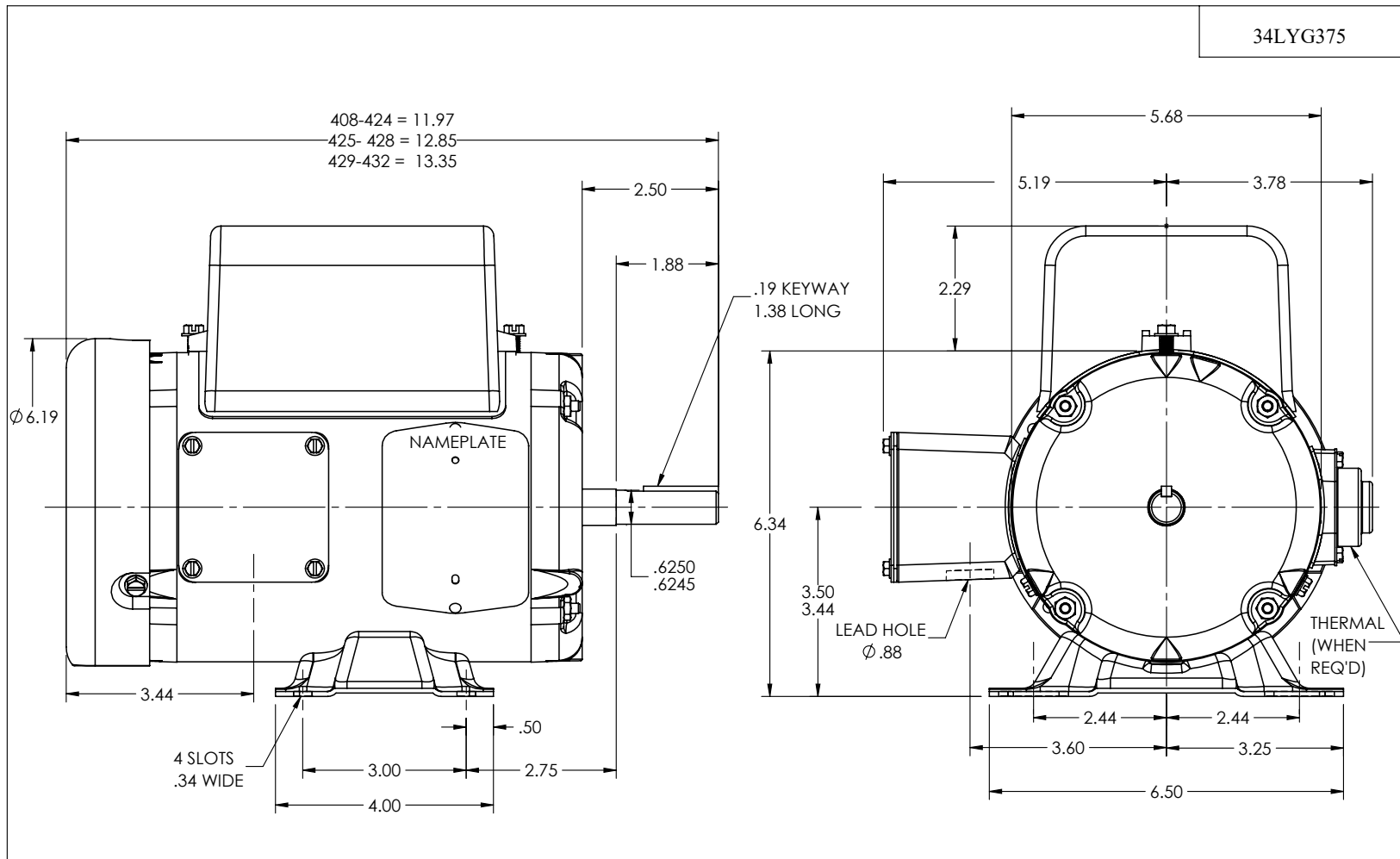
Record # 20835

Typical performance - not guaranteed values

<b>Winding: 34WGX028-R002</b>		<b>Type: 3418LC</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>230 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	.33		<b>Full Load Torque</b>	1 LB-FT	
<b>Volts</b>	115/230		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	3.2/1.6		<b>Breakdown Torque</b>	2.6 LB-FT	
<b>R.P.M.</b>	1740		<b>Pull-up Torque</b>	2.3 LB-FT	
<b>Hz</b>	<b>60 Phase</b>	1	<b>Locked-rotor Torque</b>	3.4 LB-FT	
<b>NEMA Design Code</b>	<b>- KVA Code</b>		<b>Starting Current</b>	11 A	
<b>Service Factor (S.F.)</b>	1.35		<b>No-load Current</b>	0.7 A	
<b>NEMA Nom. Eff.</b>	<b>77 Power Factor</b>	88	<b>Line-line Res. @ 25°C</b>	7.34 Ω A Ph 5.89 Ω B Ph	
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	31°C	
<b>S.F. Amps</b>	4.2/2.1		<b>Temp. Rise @ S.F. Load</b>	37°C	

**Load Characteristics 230 V, 60 Hz, 0.33 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	60	80	83	87	90	90	91
<b>Efficiency</b>	50.6	68.6	75.5	77.3	77.7	76.1	77.9
<b>Speed</b>	1782	1772	1759	1741	1724	1703	1717
<b>Line amperes</b>	0.9	1	1.3	1.6	1.9	2.3	2.1



34LYG375

34LYG375

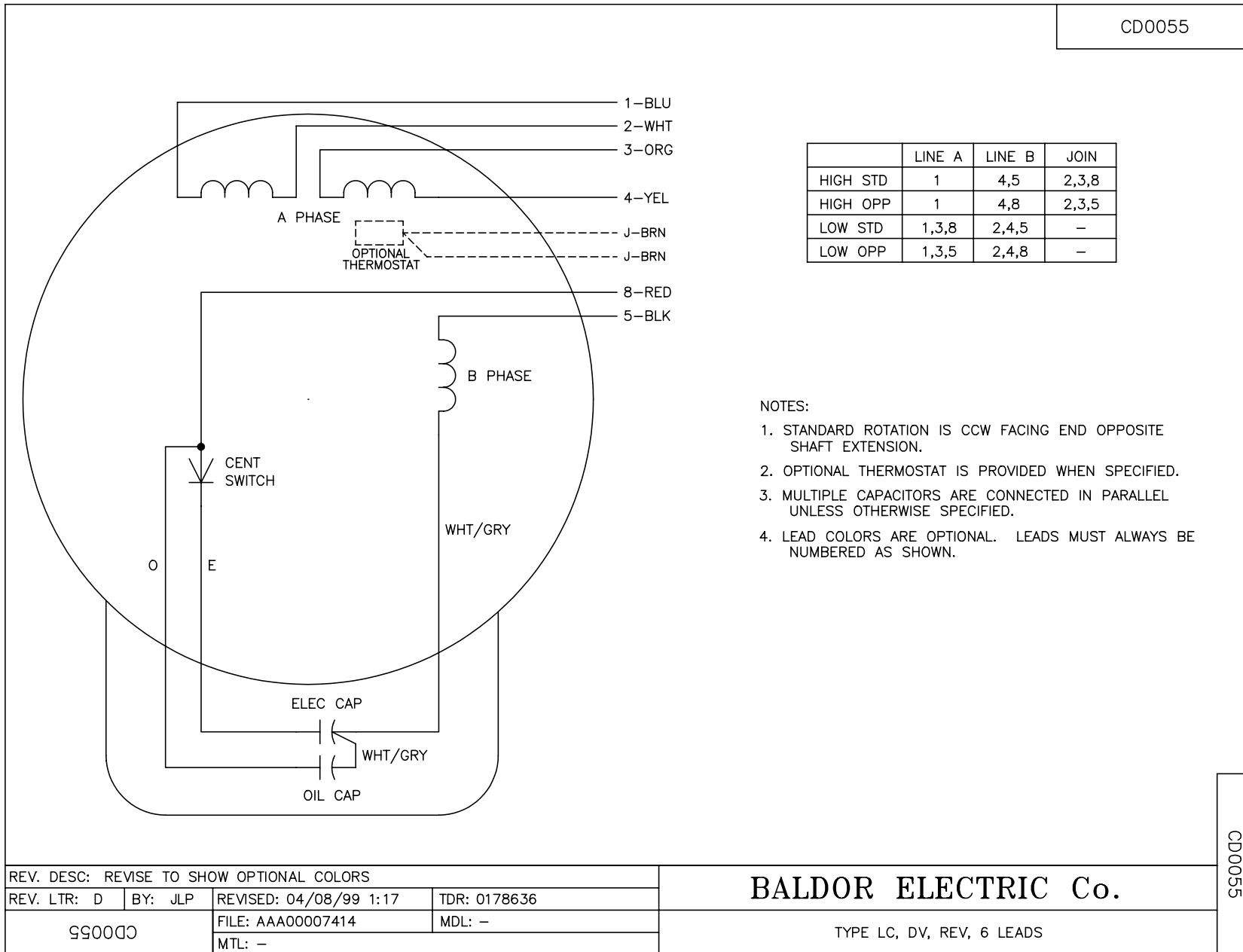
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: LOAD TO SOLIDWORKS			
REV: E	VERSION: 04	REVISED: 03:58:39 08/09/2022	TDR: 000001194274
34LYG375		MODEL NO. 34LYG375	REF: -
		BY: ENFRAJ0	

**BALDOR - RELIANCE®**

HORZ 34LC NEMA 56 TEFC

CD0055



	LINE A	LINE B	JOIN
HIGH STD	1	4,5	2,3,8
HIGH OPP	1	4,8	2,3,5
LOW STD	1,3,8	2,4,5	-
LOW OPP	1,3,5	2,4,8	-

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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:17	TDR: 0178636
990000		FILE: AAA00007414	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

TYPE LC, DV, REV, 6 LEADS

CD0055