

BALDOR® • RELIANCE 

Product Information Packet

VL3501

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

Part Detail							
Revision:	AN	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	34WG5507	CD Diagram:	CD0001	Mfg Plant:	
Mech. Spec:	34C063	Layout:	34LYC063	Poles:	04	Created Date:	
Base:	N	Eff. Date:	02-08-2024	Leads:	6#18		

Specs			
Catalog Number:	VL3501	Insulation Class:	B
Enclosure:	TEFC	Inverter Code:	Not Inverter
Frame:	56C	KVA Code:	L
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Motor Letter Type:	Cap Start, Induction Run	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	.330 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	6 @ 18 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	115.0 V @ 60 HZ	Motor Type:	3414L
Haz Area Class and Group:	None	Mounting Arrangement:	F1
Haz Area Division:	Not Applicable	Power Factor:	60
Agency Approvals:	CSA	Product Family:	General Purpose
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	C-Face
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	No Mounting	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End

Current @ Voltage:	3.600 A @ 208.0 V	Shaft Ground Indicator:	No Shaft Grounding
	6.000 A @ 115.0 V	Shaft Rotation:	Reversible
	3.000 A @ 230.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	N	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
Heater Indicator:	No Heater	Winding Thermal 2:	None

Nameplate NP1256L										
CAT.NO.	VL3501									
SPEC.	34C63-5507									
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										
DE	6203				ODE	6203				
ENCL	TEFC		SN							
	SFA 6.8/3.4									

AC Induction Motor Performance Data

Record # 6774

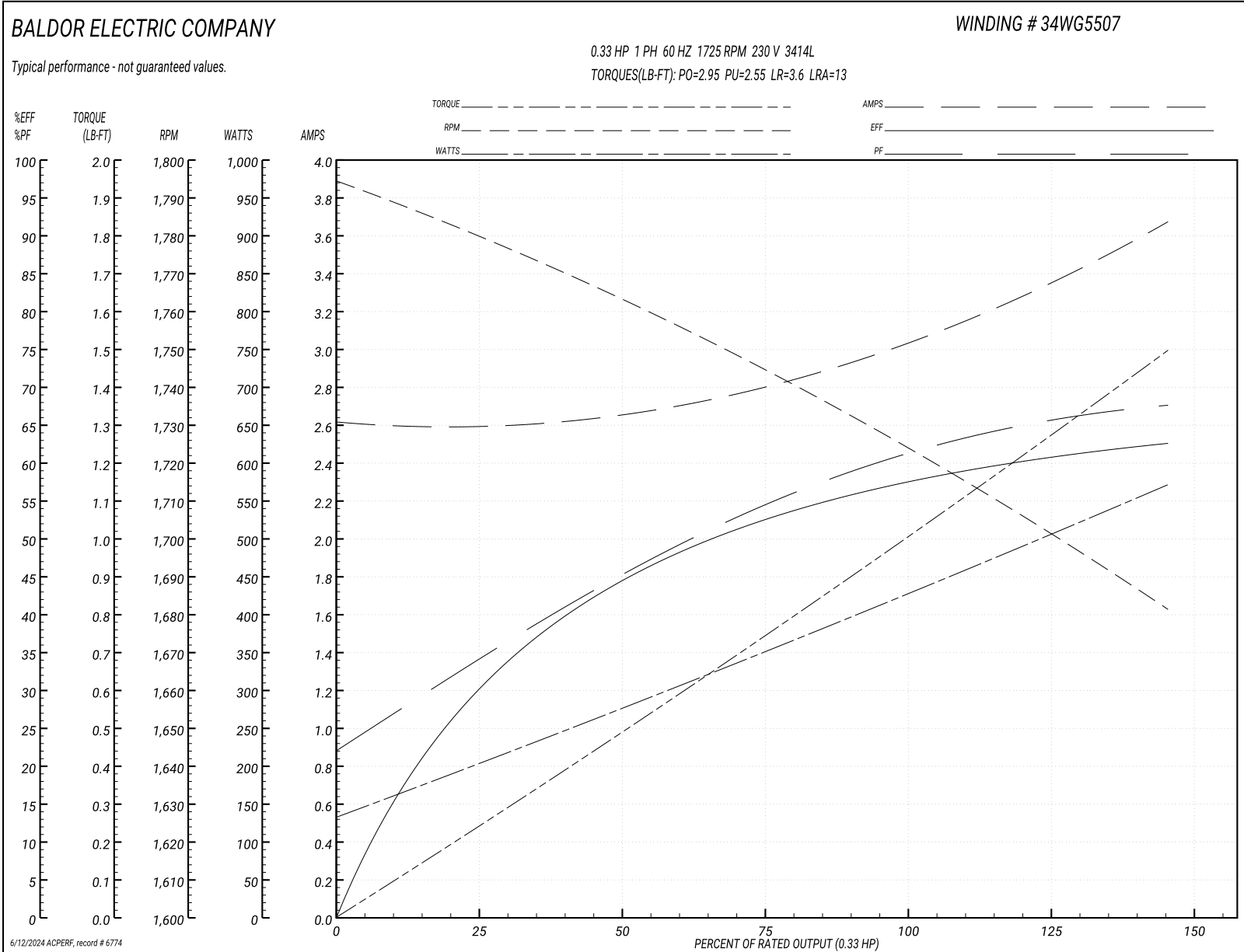
Typical performance - not guaranteed values

Winding: 34WG5507-R001		Type: 3414L	Enclosure: TEFC	
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	Locked-rotor Torque	3.6 LB-FT	
NEMA Design Code	N KVA Code	Starting Current	13 A	
Service Factor (S.F.)	1.35	No-load Current	2.6 A	
NEMA Nom. Eff.	60 Power Factor	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

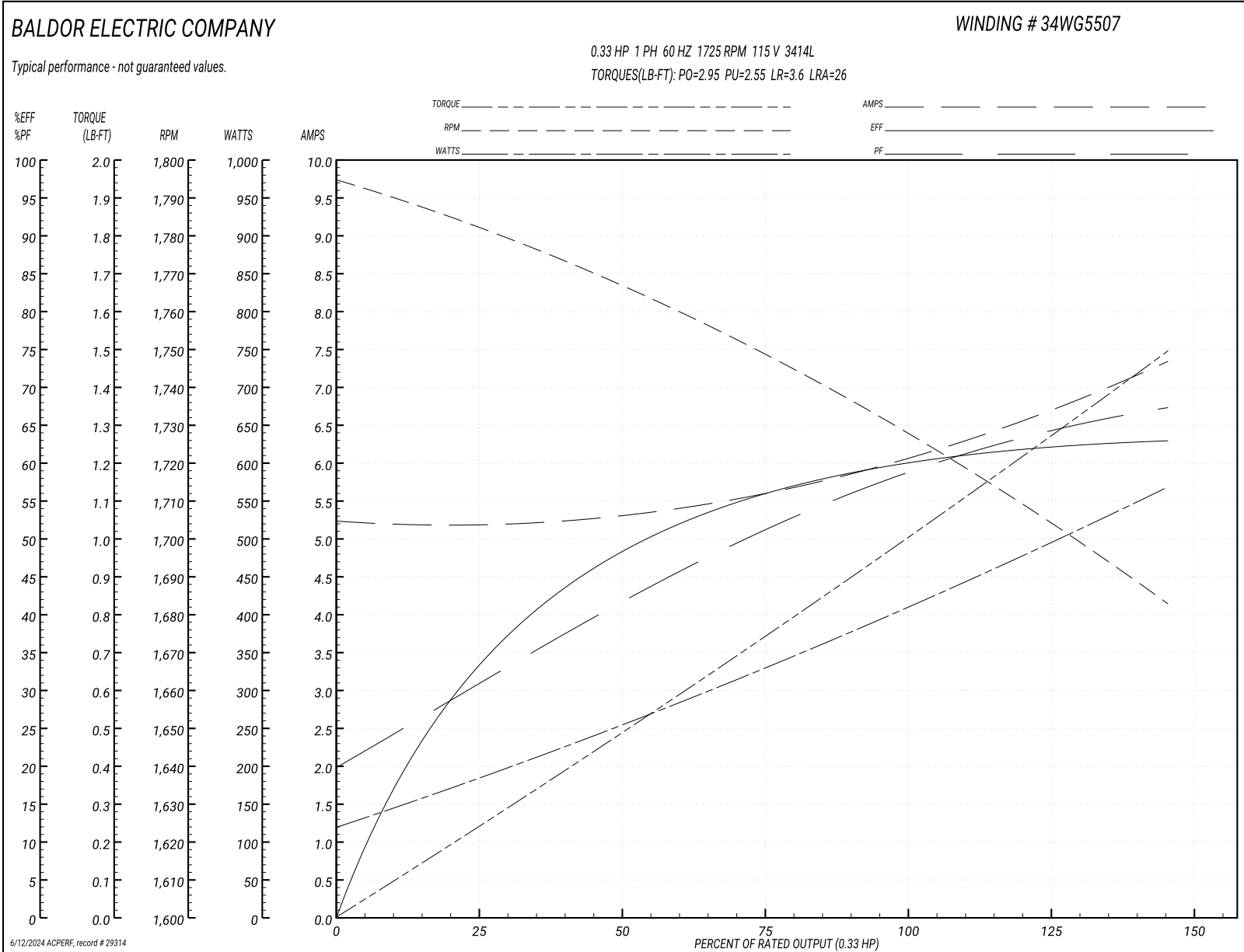
Typical performance - not guaranteed values

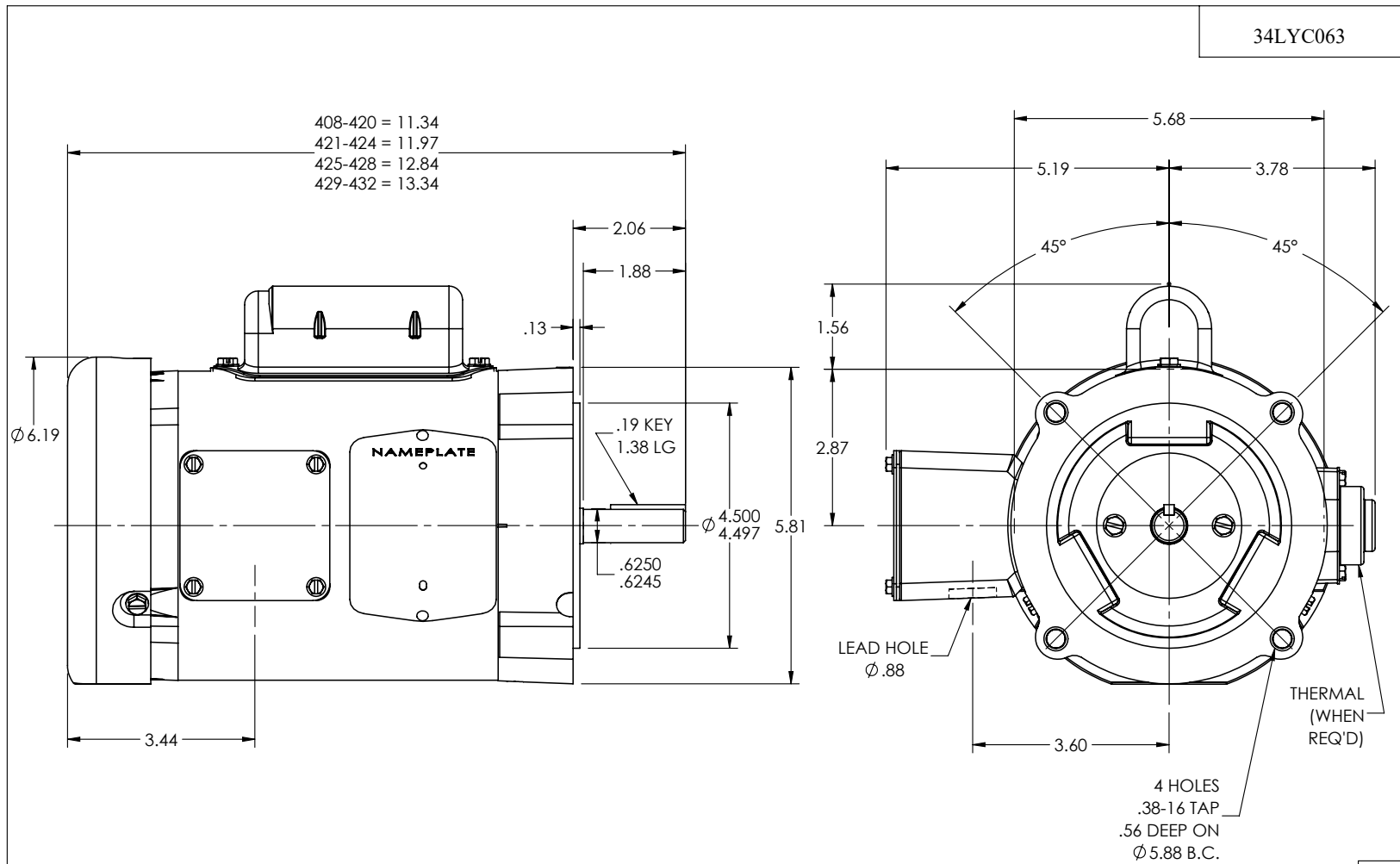
Winding: 34WG5507-R001		Type: 3414L	Enclosure: TEFC
Nameplate Data		115 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)	.33	Full Load Torque	1 LB-FT
Volts	115/230	Start Configuration	direct on line
Full Load Amps	6/3	Breakdown Torque	2.95 LB-FT
R.P.M.	1725	Pull-up Torque	2.55 LB-FT
Hz	60 Phase 1	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





34LYC063

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

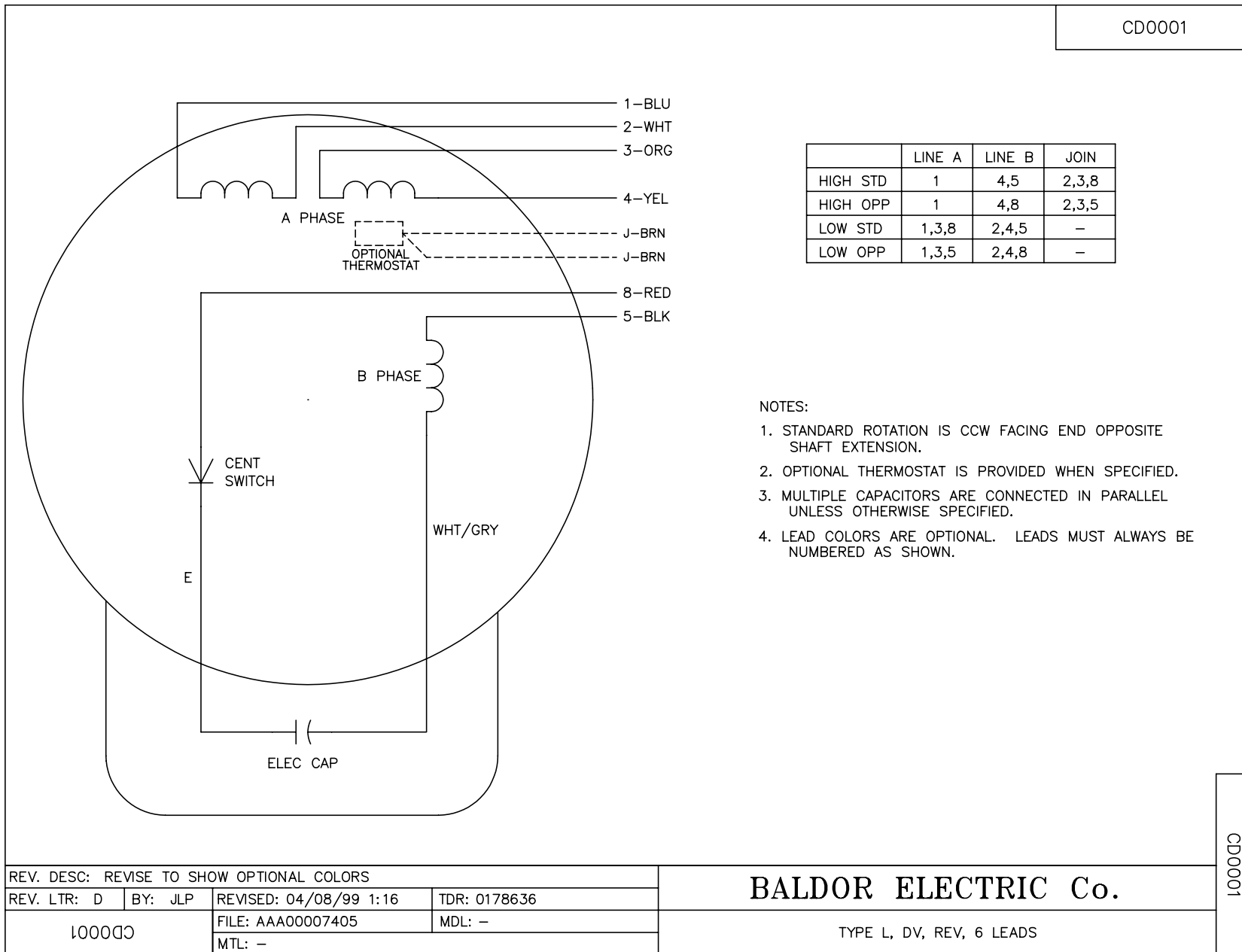
REV. DESC: LOAD TO SOLIDWORKS			
REV: N	VERSION: 06	REVISED: 11:14:59 04/13/2023	TDR: 000001194274
34LYC063	MODEL NO. 34LYC063	REF: -	
	BY: ENFRAJ0		

BALDOR - RELIANCE®

STD VERT 34L NEMA 56C TEFC

34LYC063

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.

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

CD0001