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# Customer information packet

## CL3516TM

2HP, 1740RPM, 1PH, 60HZ, 145TC, 3534LC, TEFC, F

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	145TC
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	2.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	C UR US
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	8.200 A @ 230.0 V 8.900 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	8.2 a
Insulation Class	F
Inverter Code	Not Inverter

## Part detail

Revision	B
Type	AC
Mech. spec.	35KK375
Base	
Status	PRD/A
Elec. spec.	35WGG819
Layout	35LYKK375
Eff. date	04-25-2025
CD Diagram	CD0002A02
Poles	04
Leads	2#16 A PH,3#18 B&J
Proprietary	False
Created date	12-18-2024

<b>KVA Code</b>	J
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Quantity/Wire Size</b>	2 @ 16 AWG, A PH
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3534LC
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	14.16 IN
<b>Power Factor</b>	99
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	C-Face
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	0.875 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1740 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>	Do Not Use
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	Manual Thermal Overload
<b>Winding Thermal 1 Location</b>	KO
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP1257L</b>									
<b>CAT.NO.</b>	CL3516TM								
<b>SPEC.</b>	35KK375G819G1								
<b>HP</b>	2								
<b>VOLTS</b>	208-230								
<b>AMP</b>	8.9-8.2								
<b>RPM</b>	1740								
<b>FRAME</b>	145TC			<b>HZ</b>	60		<b>PH</b>	1	
<b>SER.F.</b>	1.15	<b>CODE</b>	J	<b>DES</b>	L	<b>CL</b>	F		
<b>NEMA-NOM-EFF</b>	78	<b>PF</b>	99						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>									
<b>DE</b>	6205	<b>ODE</b>	6203						
<b>ENCL</b>	TEFC	<b>SN</b>							

**AC Induction Motor Performance Data**

Record # 110277

Typical performance - not guaranteed values

Winding: 35WGG819-R003		Type: 3534LC		Enclosure: TEFC	
<b>Nameplate Data</b>			<b>230 V, 60 Hz: Single Voltage Motor</b>		
Rated Output (HP)	2		Full Load Torque	6.05 LB-FT	
Volts	208-230		Start Configuration	direct on line	
Full Load Amps	8.9-8.2		Breakdown Torque	17.5 LB-FT	
R.P.M.	1740		Pull-up Torque	12 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque	19.1 LB-FT
NEMA Design Code	L	KVA Code	J	Starting Current	65.2 A
Service Factor (S.F.)	1.15		No-load Current	2.03 A	
NEMA Nom. Eff.	78	Power Factor	99	Line-line Res. @ 25°C	1.6721 Ω A Ph 3.8548 Ω B Ph
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	80°C	
S.F. Amps			Temp. Rise @ S.F. Load	93°C	

**Load Characteristics 230 V, 60 Hz, 2 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	97	99	99	99	99	99	99
Efficiency	52.1	70.1	77.3	79.8	79.5	77.4	79.6
Speed	1785.1	1773.1	1758.2	1743.1	1722.5	1698.8	1731
Line amperes	3.29	4.71	6.38	8.19	10.3	12.7	9.46

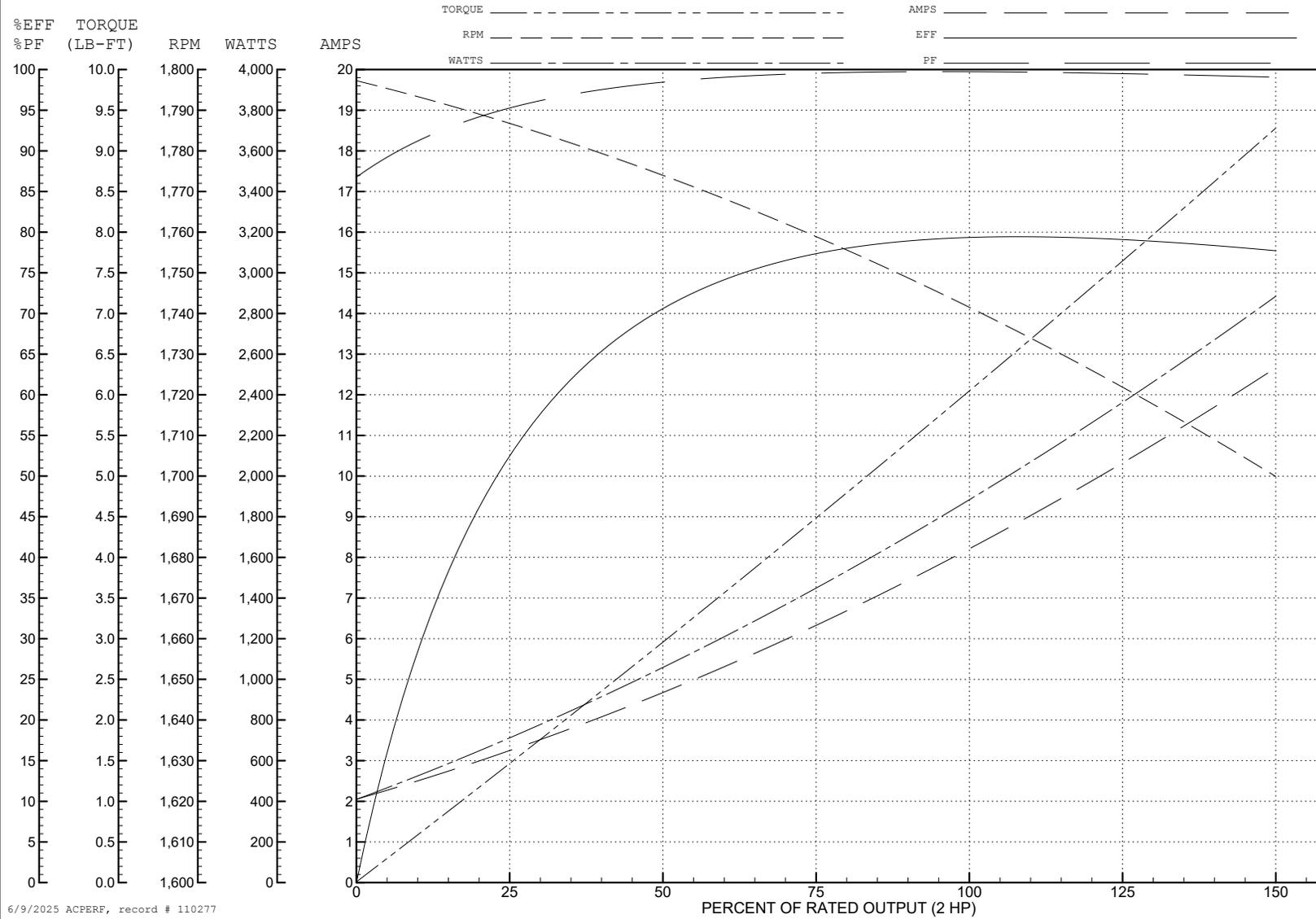
ABB Motors and Mechanical Inc.

WINDING # 35WGG819

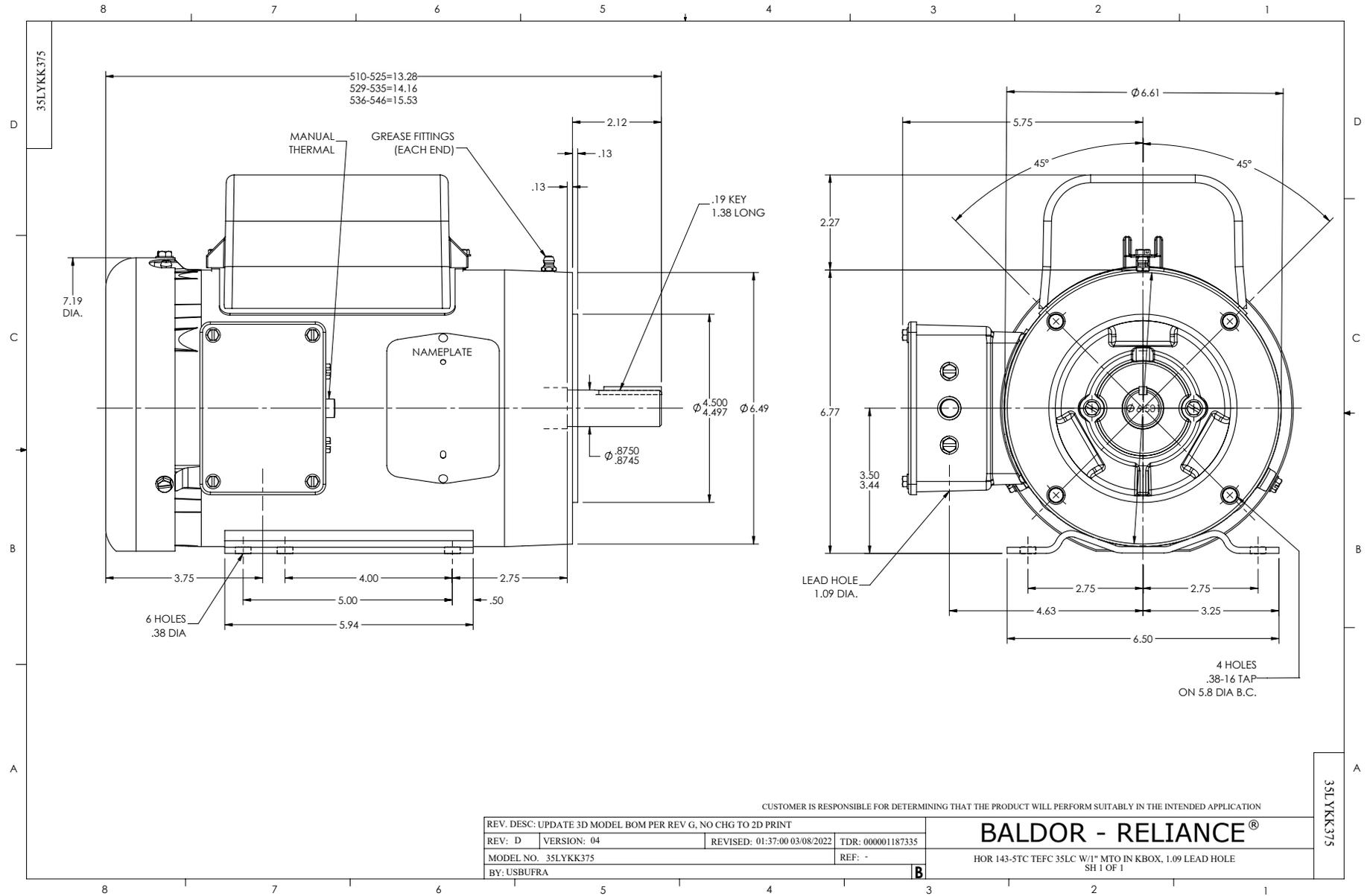
Typical performance - not guaranteed values.

2 HP 1 PH 60 HZ 1740 RPM 230 V 3534LC

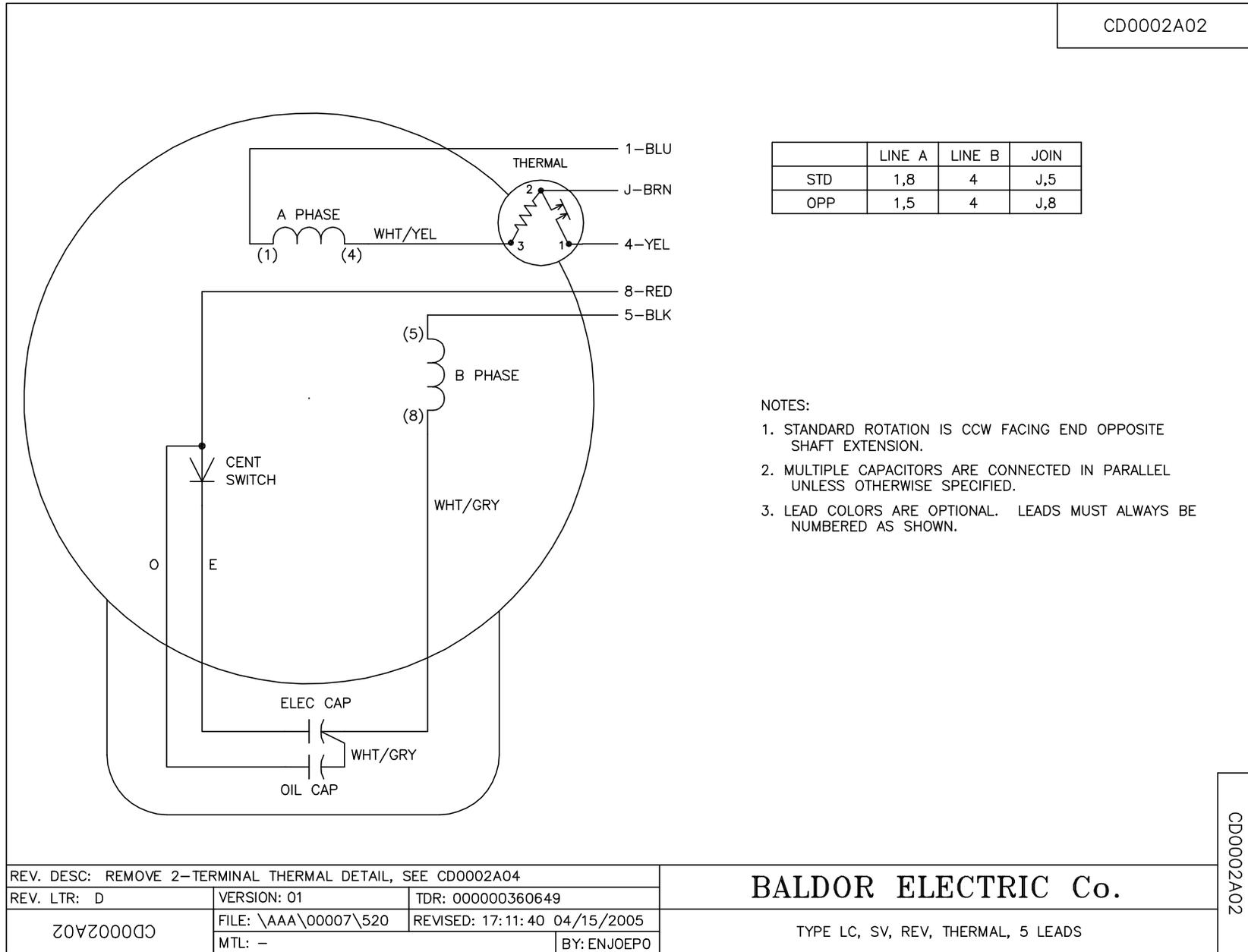
TORQUES (LB-FT): PO=17.5 PU=12 LR=19.1 LRA=65.2



6/9/2025 ACPERF, record # 110277



CD0002A02



REV. DESC: REMOVE 2-TERMINAL THERMAL DETAIL, SEE CD0002A04		
REV. LTR: D	VERSION: 01	TDR: 000000360649
CD0002A02	FILE: \AAA\00007\520	REVISED: 17:11:40 04/15/2005
	MTL: -	BY: ENJOEPO

**BALDOR ELECTRIC Co.**

TYPE LC, SV, REV, THERMAL, 5 LEADS

CD0002A02