

**BALDOR • RELIANCE**

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# Customer information packet

## CWDL3504

.5HP, 1740RPM, 1PH, 60HZ, 56C, 3520L, TEFC, F1

Class - None

Division - Not Applicable

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## Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA UR
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	3.450 A @ 208.0 V 3.500 A @ 230.0 V 7.000 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	66.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.5 a

## Part detail

Revision	C
Type	AC
Mech. spec.	35J306
Base	
Status	PRD/A
Elec. spec.	35WGG470
Layout	35LYJ306
Eff. date	02-29-2024
CD Diagram	CD0001
Poles	04
Leads	6#18
Proprietary	False
Created date	08-01-2022

<b>Insulation Class</b>	F
<b>Inverter Code</b>	Not Inverter
<b>KVA Code</b>	L
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Quantity/Wire Size</b>	6 @ 18 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3520L
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	12.23 IN
<b>Power Factor</b>	70
<b>Product Family</b>	Wash Down
<b>Pulley End Bearing Type</b>	Sealed Bearing
<b>Pulley Face Code</b>	C-Face
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.25
<b>Shaft Diameter</b>	0.625 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	Shaft 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>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP1496L</b>									
<b>CAT.NO.</b>	CWDL3504								
<b>SPEC.</b>	35J306G470								
<b>HP</b>	.5								
<b>VOLTS</b>	115/230								
<b>AMP</b>	7/3.5								
<b>RPM</b>	1740								
<b>FRAME</b>	56C		<b>HZ</b>	60		<b>PH</b>	1		
<b>SER.F.</b>	1.25	<b>CODE</b>	L	<b>DES</b>	N	<b>CLASS</b>	F		
<b>NEMA-NOM-EFF</b>	66	<b>PF</b>	70						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>									
<b>DE</b>	6205		<b>ODE</b>	6203					
<b>ENCL</b>	TEFC	<b>SN</b>							
	SFA 8.2/4.1								

**AC Induction Motor Performance Data**

Record # 94791

Typical performance - not guaranteed values

Winding: 35WGG470-R001		Type: 3520L		Enclosure: TEFC			
<b>Nameplate Data</b>			<b>115 V, 60 Hz: Low Voltage Connection</b>				
Rated Output (HP)	.5	Full Load Torque	1.511 LB-FT				
Volts	115/230	Start Configuration	direct on line				
Full Load Amps	7/3.5	Breakdown Torque	4.22 LB-FT				
R.P.M.	1740	Pull-up Torque	3.95 LB-FT				
Hz	60 Phase	1	Locked-rotor Torque	6.21 LB-FT			
NEMA Design Code	N	KVA Code	L	Starting Current	43.3 A		
Service Factor (S.F.)	1.25		No-load Current	5.29 A			
NEMA Nom. Eff.	66	Power Factor	70	Line-line Res. @ 25°C	1.3669 Ω A Ph		
					2.3003 Ω B Ph		
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	62°C			
S.F. Amps	8/4		Temp. Rise @ S.F. Load	78°C			
			Locked-rotor Power Factor	98.3			

**Load Characteristics 115 V, 60 Hz, 0.5 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	49	61	70	77	82	77
Efficiency	42.8	57.5	63.6	65.7	65.6	63.7	65.6
Speed	1781.1	1768.1	1752.9	1735.9	1715.7	1690.5	1716
Line amperes	5.38	5.7	6.26	7.01	8.01	9.26	8.01

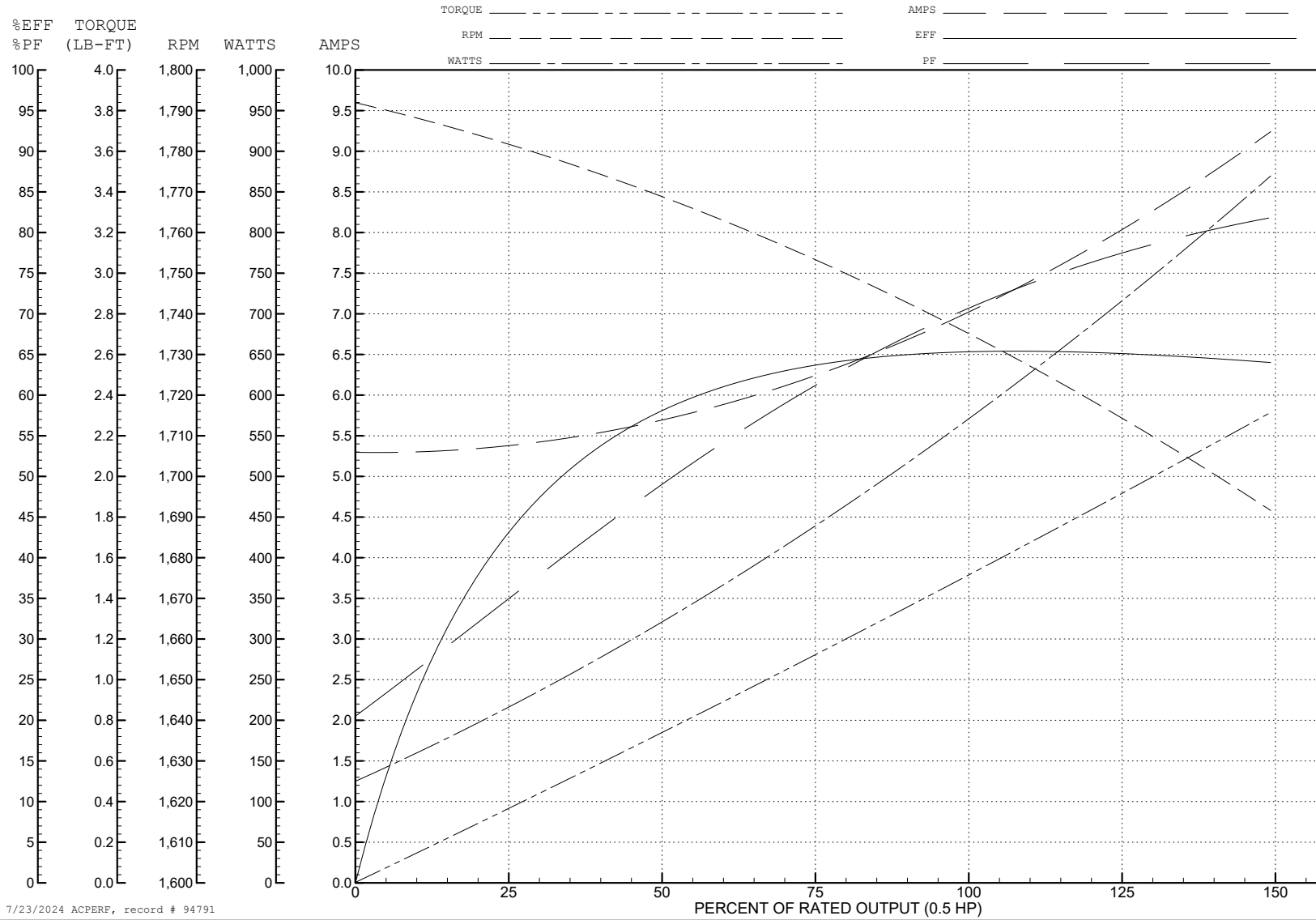
ABB Motors and Mechanical Inc.

WINDING # 35WGG470

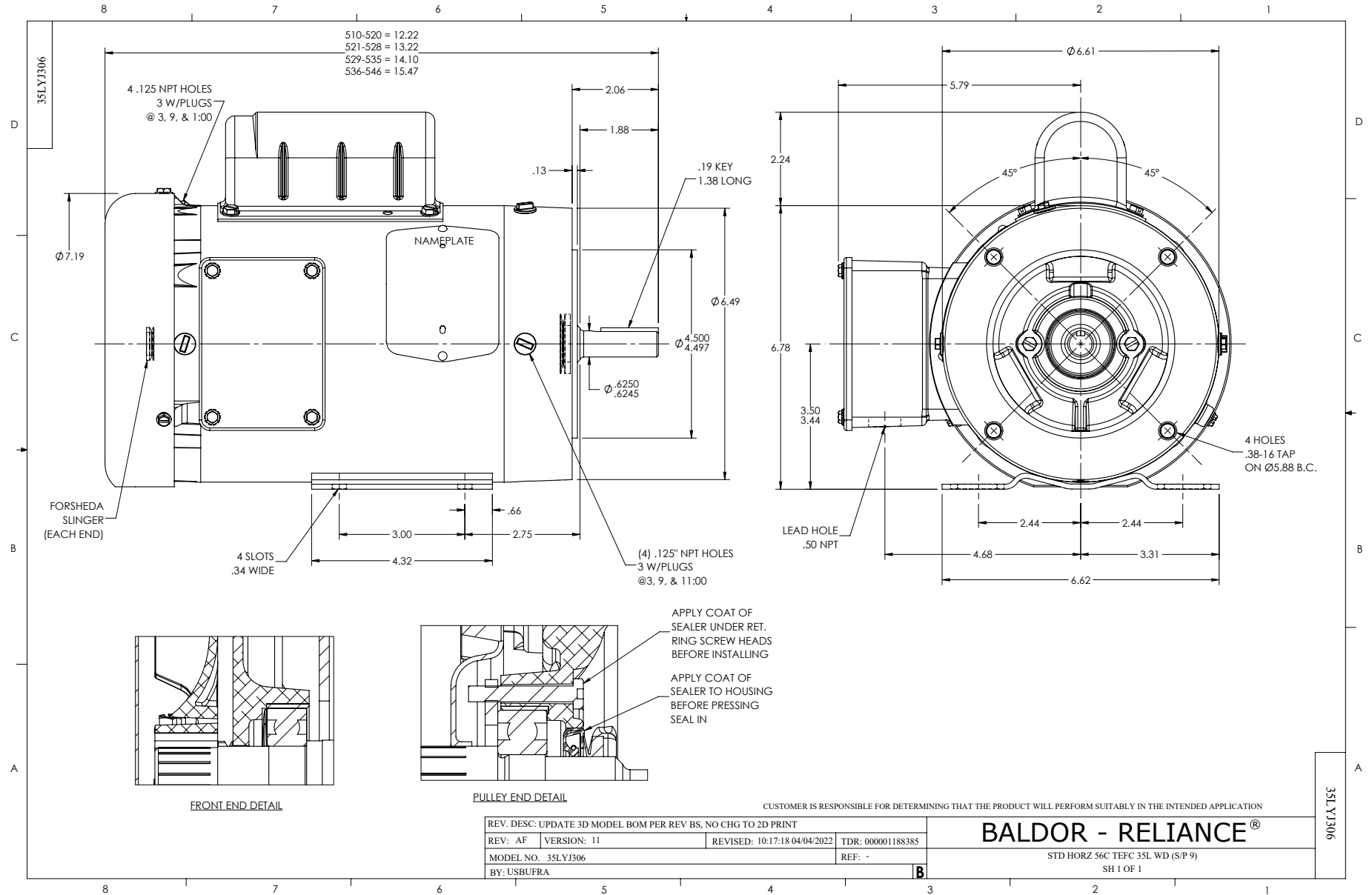
Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1740 RPM 115 V 3520L

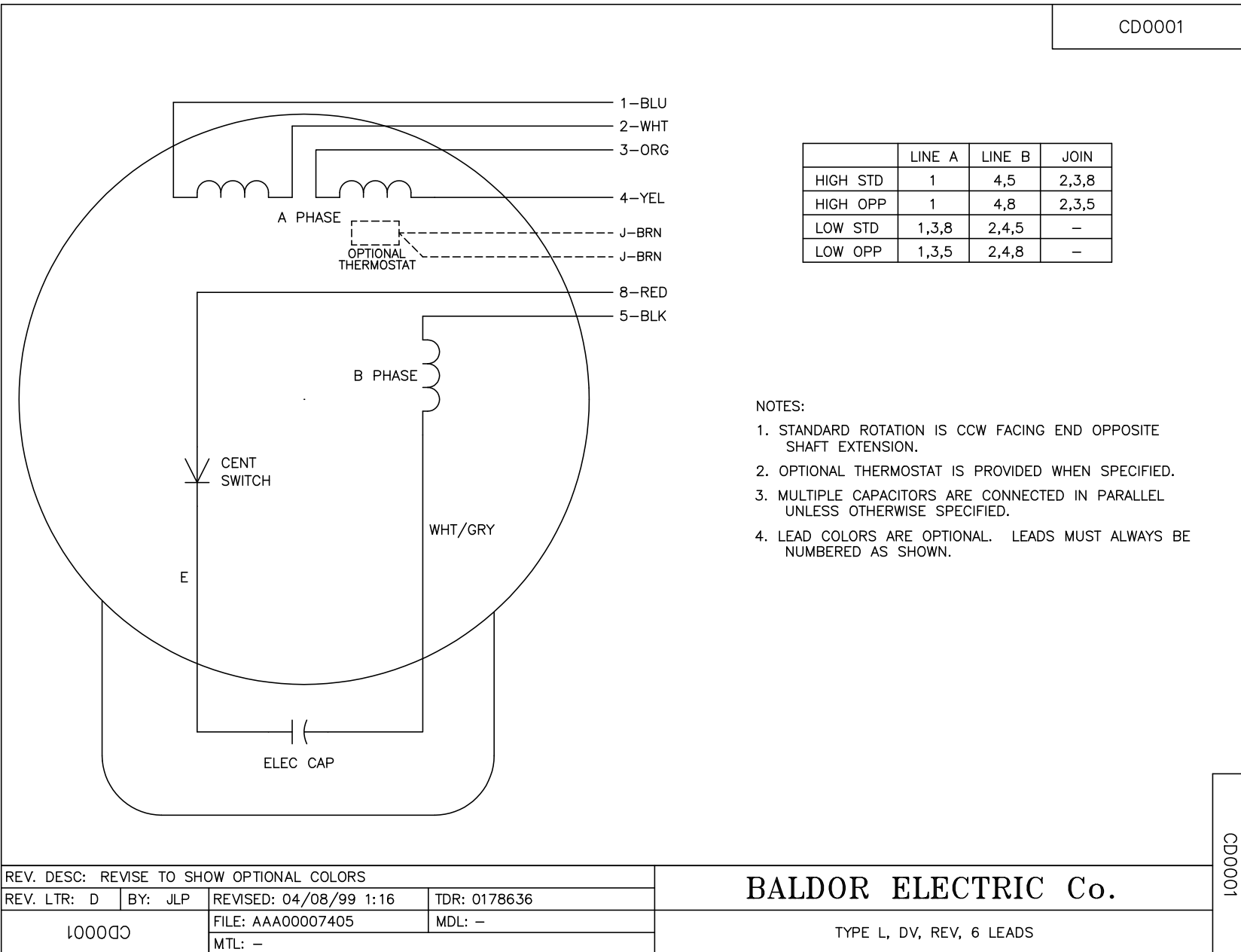
TORQUES (LB-FT): PO=4.22 PU=3.95 LR=6.21 LRA=43.3



7/23/2024 ACPERF, record # 94791



CD0001



	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.

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