

**BALDOR • RELIANCE**

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# Customer information packet

## AFL3521A

1HP, 3450RPM, 1PH, 60HZ, 56, 3524L, TEAO, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEAO
Frame	56
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 115.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
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	6.000 A @ 230.0 V 12.000 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 Face Code	Terminal Panel
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.0 a

## Part detail

Revision	AL
Type	AC
Mech. spec.	35T954
Base	
Status	PRD/A
Elec. spec.	35WG0498
Layout	35LYT954
Eff. date	08-01-2022
CD Diagram	CD0052
Poles	02
Leads	4#16 A&J,2#18 B PH,1#14 #1TH
Proprietary	False
Created date	06-22-2007

<b>Insulation Class</b>	B
<b>Inverter Code</b>	Not Inverter
<b>KVA Code</b>	K
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Motor Lead Exit</b>	Terminal Panel Or Lead Hole
<b>Motor Lead Quantity/Wire Size</b>	4 @ 16 AWG, A&J
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3524L
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	12.68 IN
<b>Power Factor</b>	81
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Tapped & Key
<b>Rodent Screen</b>	None
<b>RoHS Status</b>	ROHS COMPLIANT
<b>Service Factor</b>	1.25
<b>Shaft Diameter</b>	0.625 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible: Connected Standard
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	3450 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>	Automatic Thermal Overload
<b>Winding Thermal 1 Location</b>	SB

**Winding Thermal 2**

**None**

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**Nameplate**

<b>NP1280L</b>									
<b>CAT.NO.</b>	AFL3521A								
<b>SPEC.</b>	35T954-0498								
<b>HP</b>	1								
<b>VOLTS</b>	115/230								
<b>AMP</b>	12/6								
<b>RPM</b>	3450								
<b>FRAME</b>	56	<b>HZ</b>	60	<b>PH</b>	1				
<b>SER.F.</b>	1.25	<b>CODE</b>	K	<b>DES</b>	N	<b>CL</b>	B		
<b>NEMA-NOM-EFF</b>	66	<b>PF</b>	81						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>	<b>USABLE AT 208V</b>								
<b>DE</b>	6205	<b>ODE</b>	6203						
<b>ENCL</b>	TEAO	<b>SN</b>							
	SFA 14.4/7.2								

**AC Induction Motor Performance Data**

Record # 8070

Typical performance - not guaranteed values

<b>Winding:</b> 35WG0498-R001		<b>Type:</b> 3524L		<b>Enclosure:</b> TEFC	
<b>Nameplate Data</b>			<b>230 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	1	<b>Full Load Torque</b>	1.5 LB-FT		
<b>Volts</b>	115/230	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	12/6	<b>Breakdown Torque</b>	4.1 LB-FT		
<b>R.P.M.</b>	3450	<b>Pull-up Torque</b>	3.1 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	1	<b>Locked-rotor Torque</b>	5 LB-FT	
<b>NEMA Design Code</b>	N	<b>KVA Code</b>	K	<b>Starting Current</b>	38.5 A
<b>Service Factor (S.F.)</b>	1.25	<b>No-load Current</b>	2.95 A		
<b>NEMA Nom. Eff.</b>	66	<b>Power Factor</b>	81	<b>Line-line Res. @ 25°C</b>	2.46 Ω A Ph 1.75 Ω B Ph
<b>Rating - Duty</b>	40C	<b>AMB-CONT</b>	<b>Temp. Rise @ Rated Load</b>		
<b>S.F. Amps</b>	14.4/7.2	<b>Temp. Rise @ S.F. Load</b>			

**Load Characteristics 230 V, 60 Hz, 1 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>	50	64	75	81	84	86	84
<b>Efficiency</b>	49	65	67	69	68	67.5	68
<b>Speed</b>	3570	3550	3530	3505	3472	3445	3472
<b>Line amperes</b>	3.2	3.7	4.5	5.5	6.75	7.7	6.75

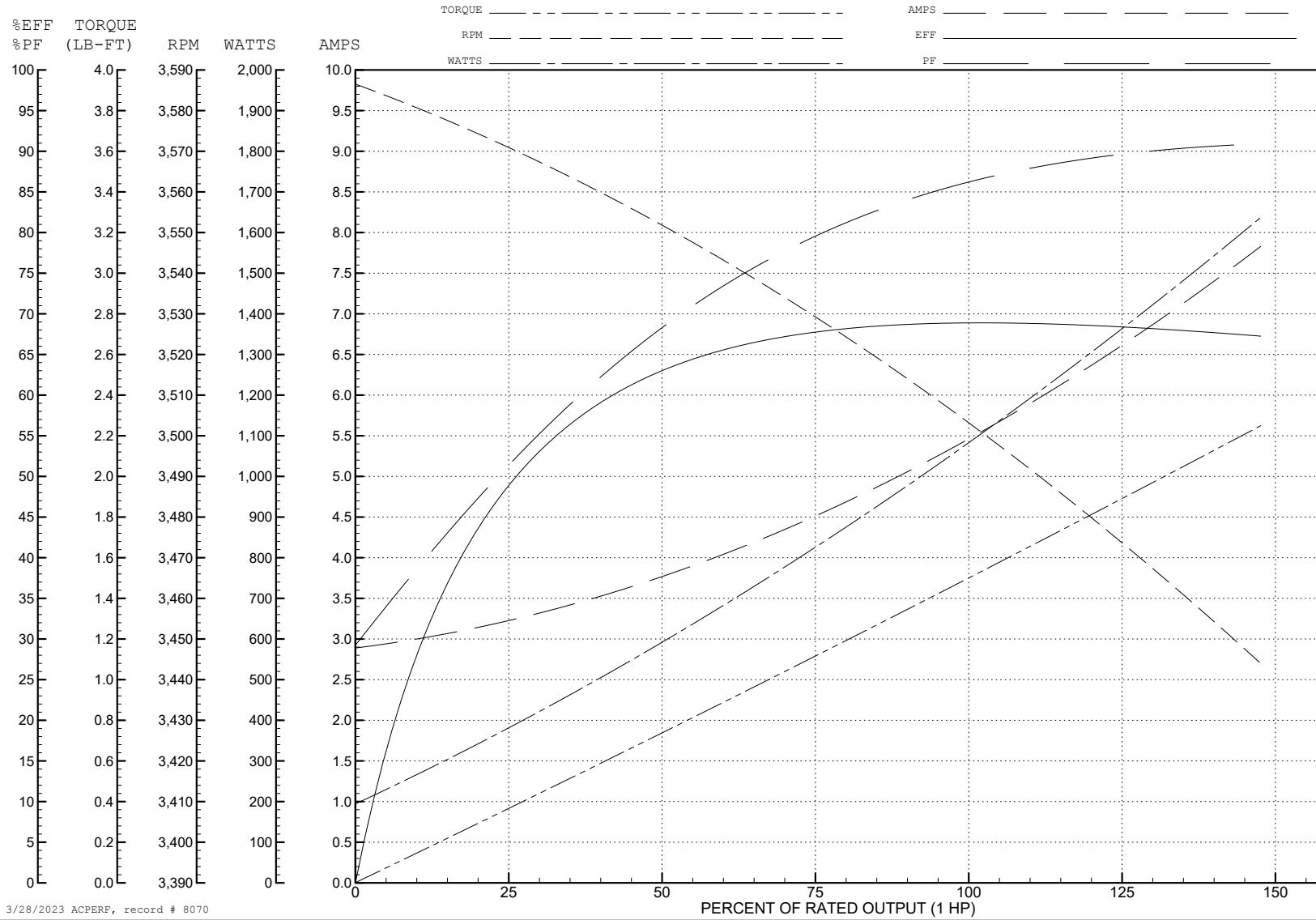
ABB Motors and Mechanical Inc.

WINDING # 35WG0498

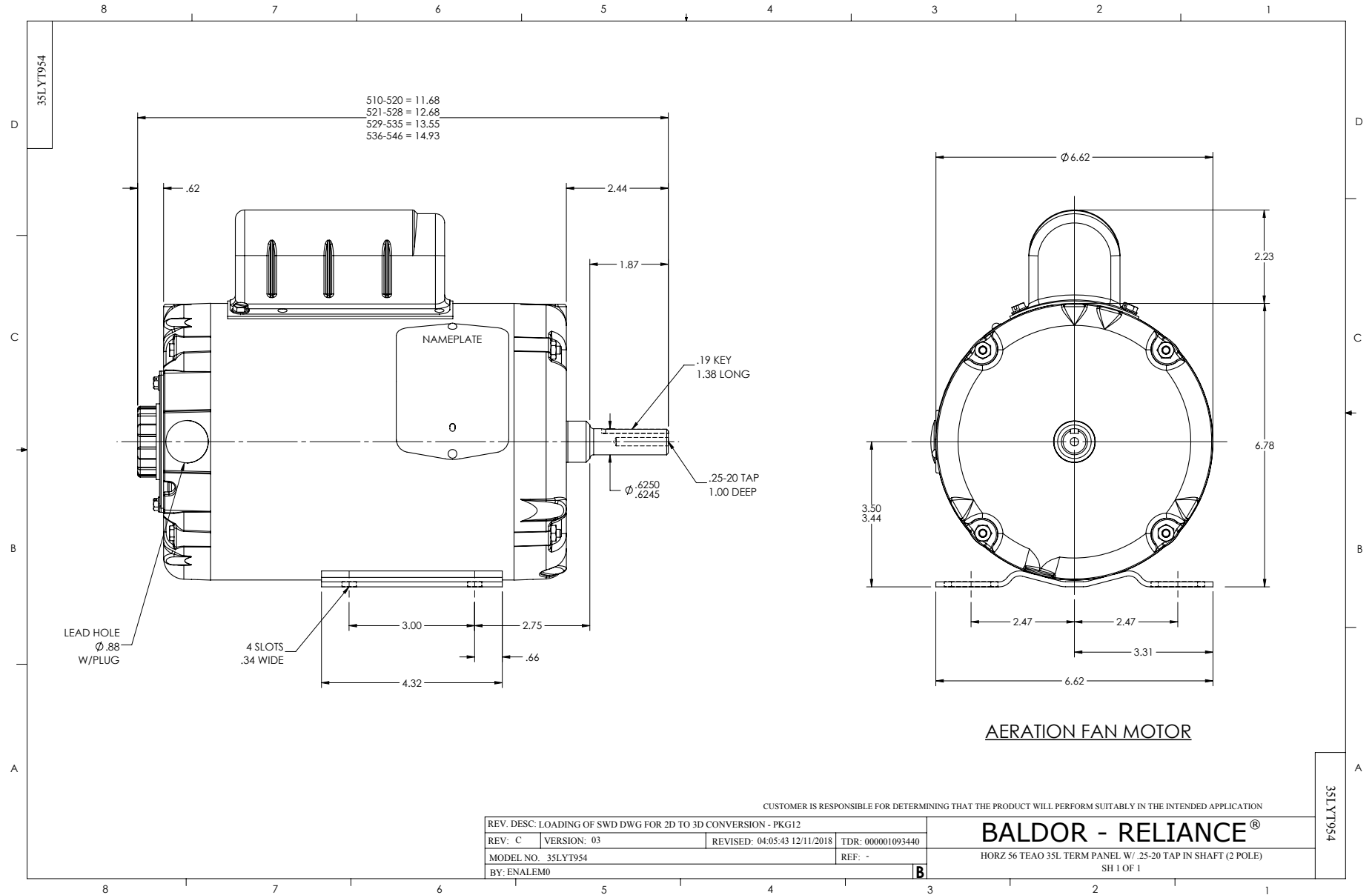
Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 3450 RPM 230 V 3524L

TORQUES (LB-FT): PO=4.1 PU=3.1 LR=5 LRA=38.5

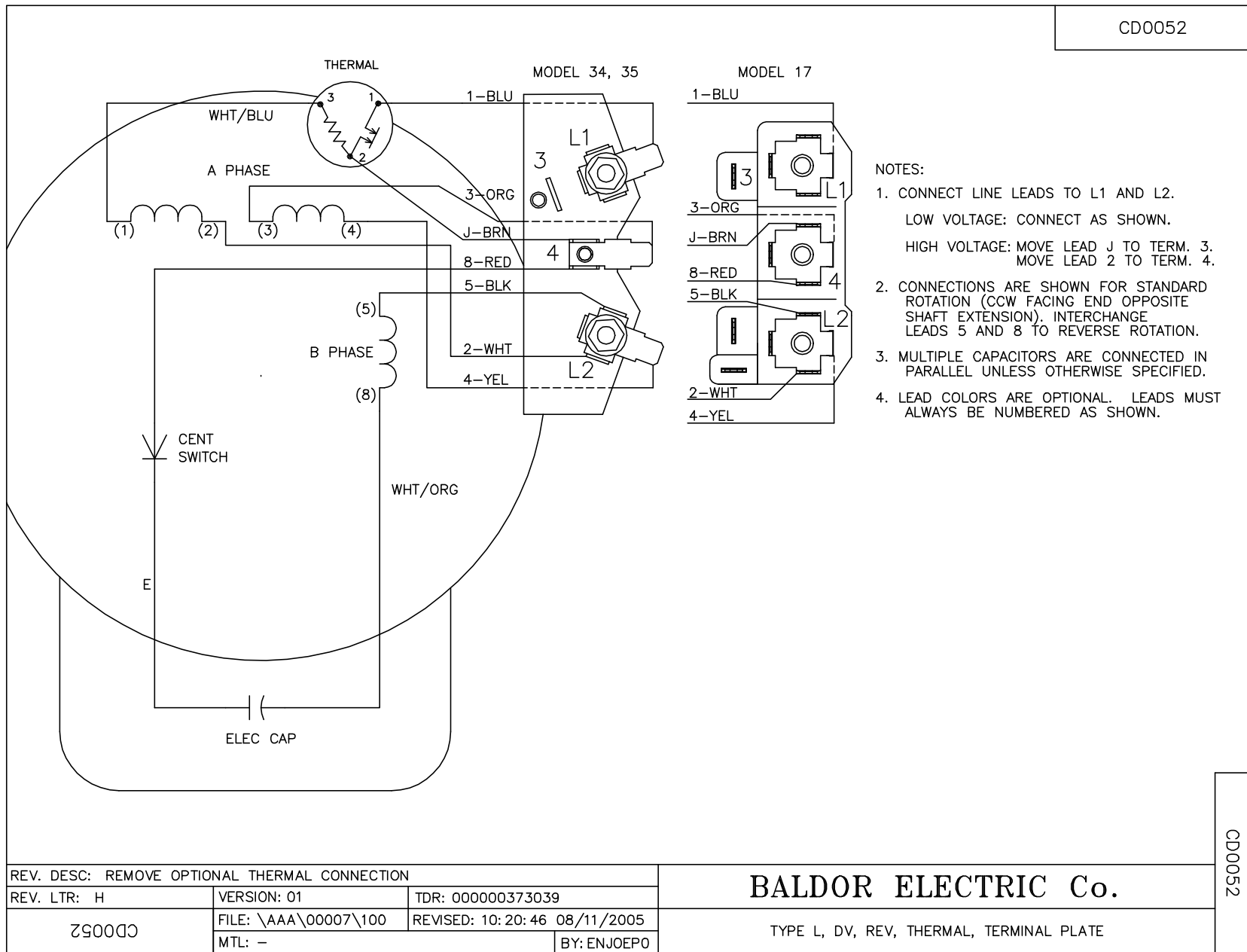


3/28/2023 ACPERF, record # 8070





CD0052



REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION		
REV. LTR: H	VERSION: 01	TDR: 000000373039
CD0052	FILE: \AAA\00007\100	REVISED: 10:20:46 08/11/2005
	MTL: -	BY: ENJOEPO

**BALDOR ELECTRIC Co.**

TYPE L, DV, REV, THERMAL, TERMINAL PLATE

CD0052