



Product Information Packet

AFL3521A

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

Part Detail							
Revision:	AK	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WG0498	CD Diagram:	CD0052	Mfg Plant:	
Mech. Spec:	35T954	Layout:	35LYT954	Poles:	02	Created Date:	06-22-2007
Base:	RG	Eff. Date:	05-31-2018	Leads:	4#16 A&J,2#18 B PH,1#14 #1TH		

Specs			
Catalog Number:	AFL3521A	KVA Code:	K
Enclosure:	TEAO	Lifting Lugs:	No Lifting Lugs
Frame:	56	Locked Bearing Indicator:	No Locked Bearing
Frame Material:	Steel	Motor Lead Quantity/Wire Size:	4 @ 16 AWG, A&J
Output @ Frequency:	1.000 HP @ 60 HZ	Motor Lead Exit:	Terminal Panel Or Lead Hole
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Termination:	Flying Leads
Voltage @ Frequency:	115.0 V @ 60 HZ	Motor Type:	3524L
	230.0 V @ 60 HZ	Mounting Arrangement:	F1
XP Class and Group:	None	Power Factor:	81
XP Division:	Not Applicable	Product Family:	General Purpose
Agency Approvals:	UR	Product Type:	FARM DUTY
	CSA	Pulley End Bearing Type:	Ball
Auxiliary Box:	No Auxiliary Box	Pulley Face Code:	Standard
Auxiliary Box Lead Termination:	None	Pulley Shaft Indicator:	Tapped & Key
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	12.000 A @ 115.0 V	Shaft Ground Indicator:	No Shaft Grounding

	6.000 A @ 230.0 V	Shaft Rotation:	Reversible: Connected Standard
Design Code:	N	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	NONE (OLD)
Front Face Code:	Terminal Panel	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	Automatic Thermal Overload
Insulation Class:	B	Winding Thermal 1 Location:	SB
Inverter Code:	Not Inverter	Winding Thermal 2:	None

Nameplate NP1280L

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

Parts List		
Part Number	Description	Quantity
SA111039	SA 35T954-0498	1.000 EA
RA102418	RA 35T954-0498	1.000 EA
EC1645A06SP	ELEC CAP, 645-774 MFD, 125V, 2.06D X 4.	1.000 EA
53XT0832G07	8-32X7/16 PN STD SR TY23G X	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 EA
35EP3102A01SP	FR ENDPLATE, MACH	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3123A00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 EA
35CB4500SP	TERMINAL BOX LID STAMPED	1.000 EA
35GS1002	GASKET,1/16 THICK LEXIDE	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
RM1001A01	GROMMET "MIDSTATES"	1.000 EA
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	2.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1025C02	WILKOFASST SG, 787.105, TAN	0.017 GA
SP5066A01	35 TERM PANEL SWITCH W/E-BLK, 8-RED	1.000 EA
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 EA
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 EA
35CB4802A02SP	CAPACITOR COVER, STAMPED X	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
35GS3001A02	GASKET, CA.COVER, 5.38 LONG .06 CS301	1.000 EA
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	3.000 EA
LC0052	CONNECTION LABEL	1.000 EA
NP1280L	ALUM FARM DUTY UL CSA CC THERMAL	1.000 EA
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA

Accessories		
Part Number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 8070 - Typical performance - not guaranteed values

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

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	64	75	81	84	86	84
Efficiency	49	65	67	69	68	67.5	68
Speed	3570	3550	3530	3505	3472	3445	3472
Line amperes	3.2	3.7	4.5	5.5	6.75	7.7	6.75

Performance Graph at 230V, 60Hz, 1.0HP Typical performance - Not guaranteed values

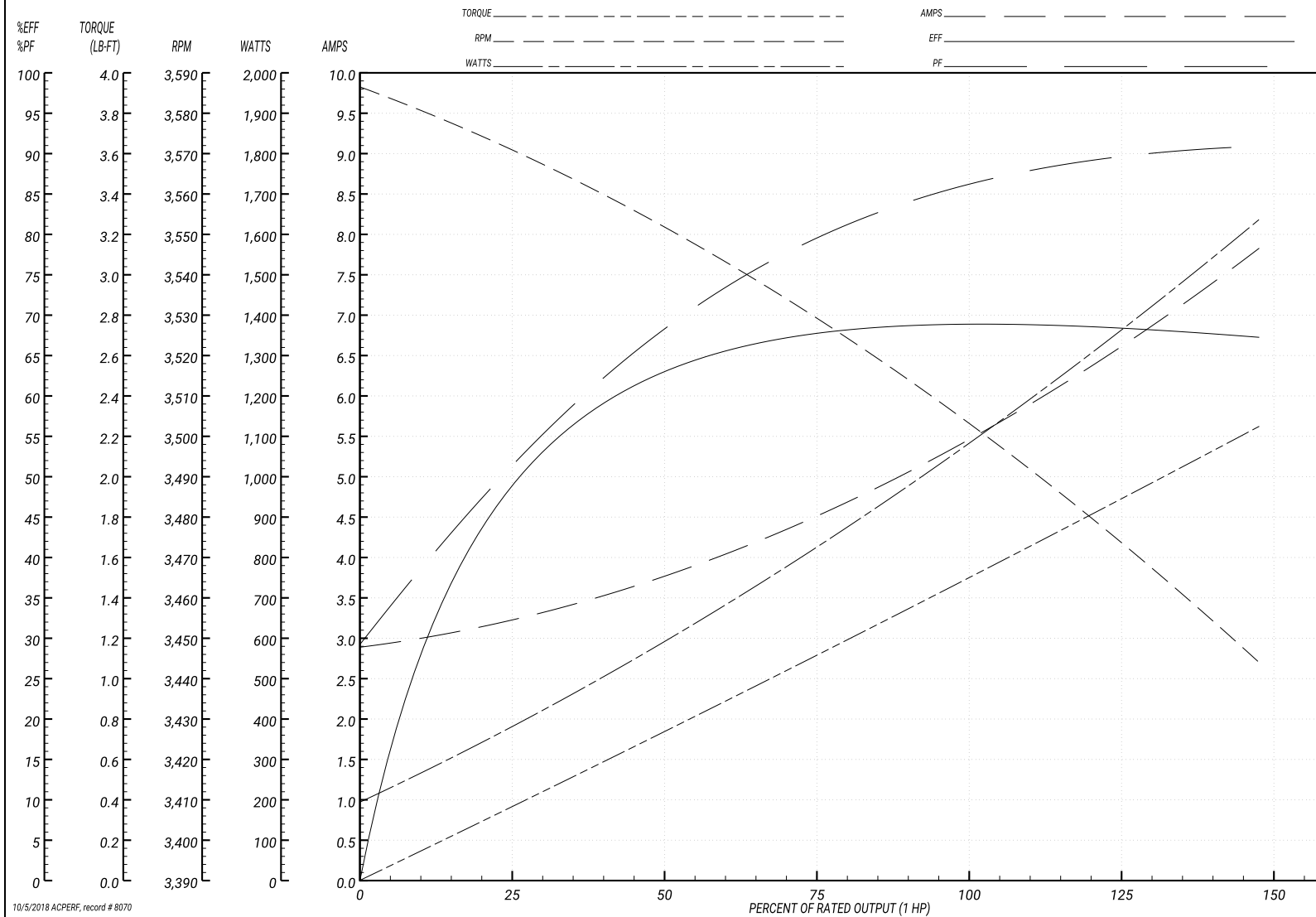
BALDOR ELECTRIC COMPANY

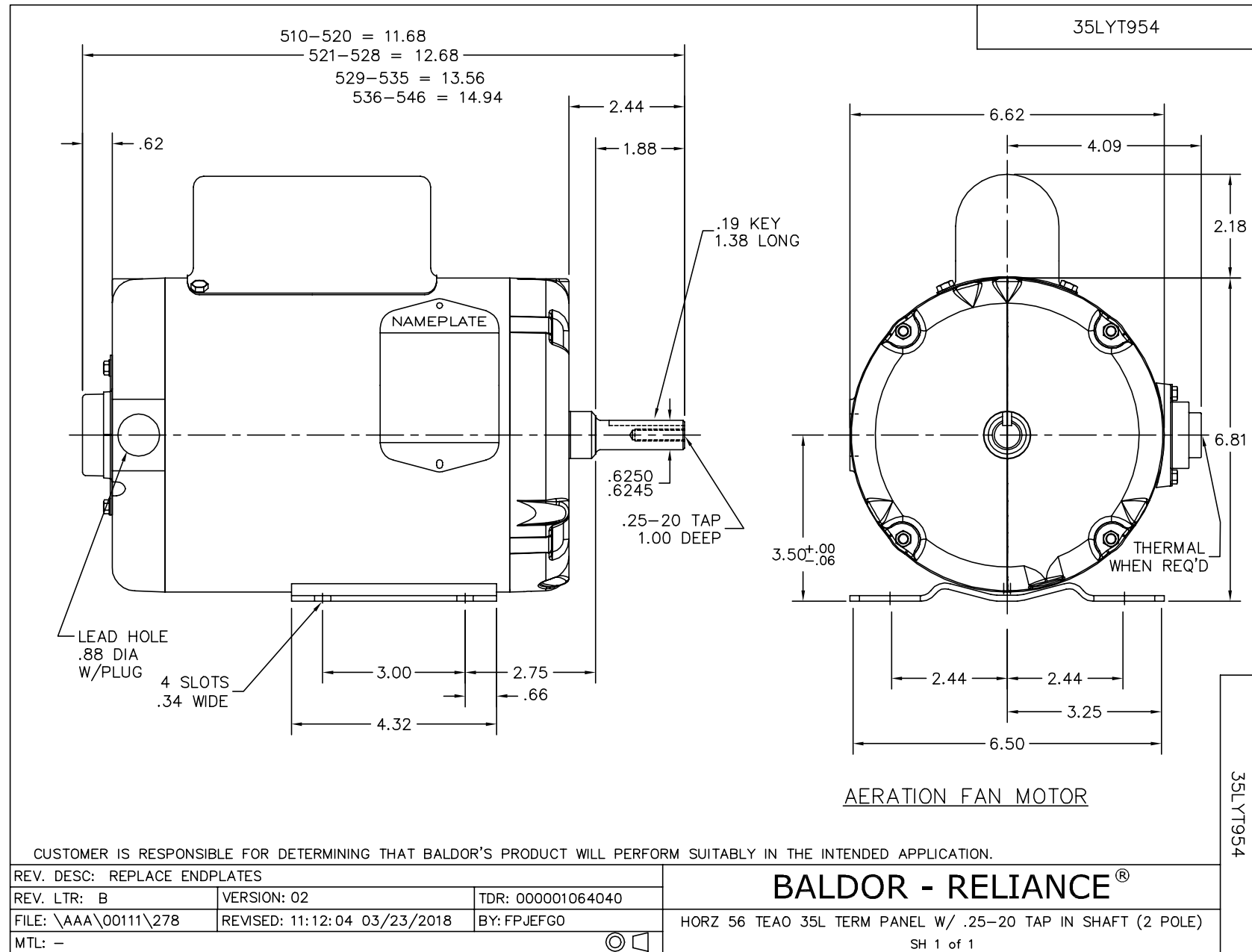
WINDING # 35WG0498

Typical performance - not guaranteed values.

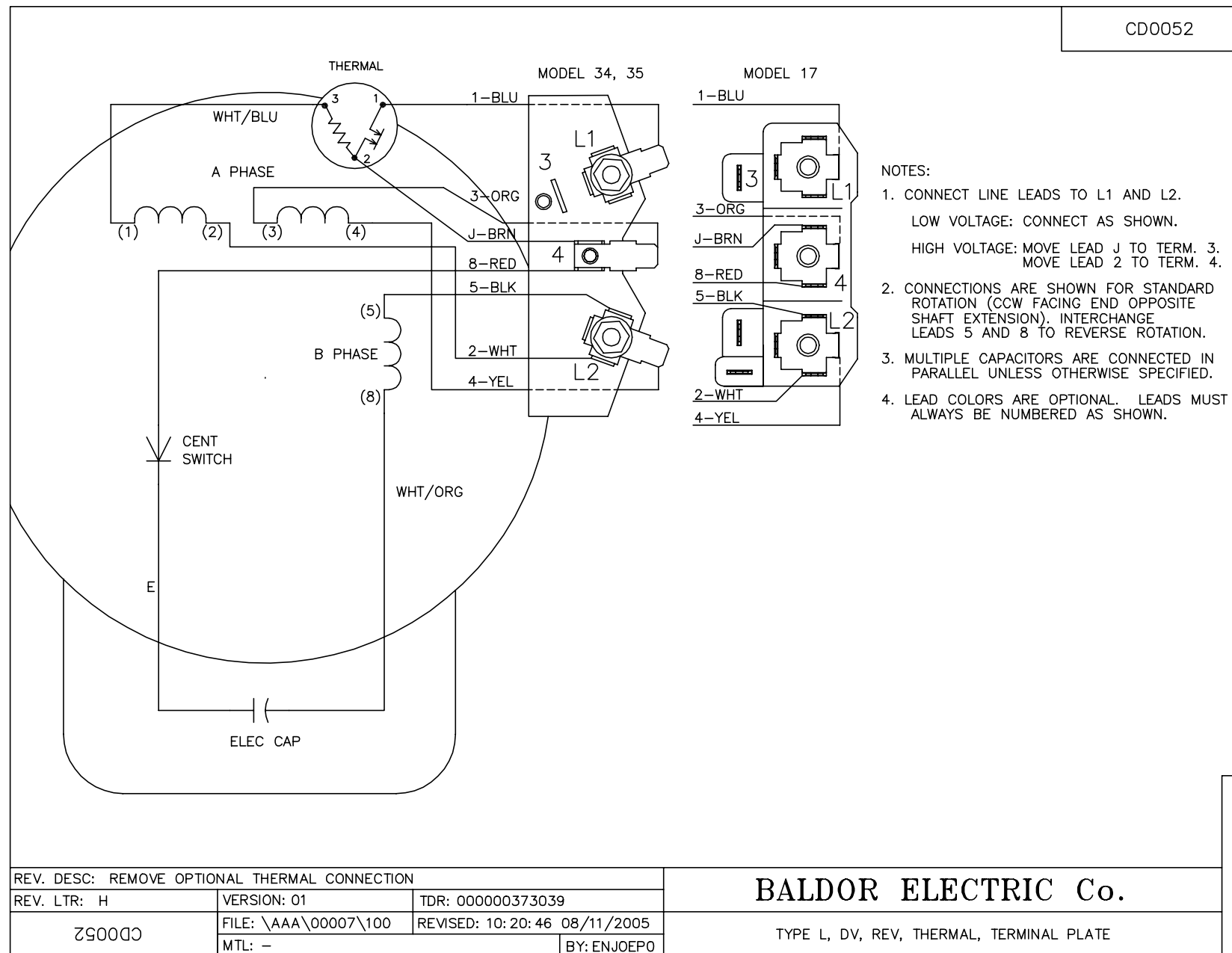
1 HP 1 PH 60 HZ 3450 RPM 230 V 3524L

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





CD0052



CD0052