ABB BALDOR RELIANCE

Customer information packet

AFL3521A

1HP, 3450RPM, 1PH, 60HZ, 56, 3524L, TEAO, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	56
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	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
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary 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	AN
Type	AC
Mech. spec.	35T954
Base	
Status	PRD/A
Elec. spec.	35WG0498
Layout	35LYT954
Eff. date	01-12-2026
CD Diagram	CD0052
Poles	02
Leads	4#16 A&J,2#18 B PH,1#14 #1TH
Proprietary	False
Created date	06-22-2007

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

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									
DE	6205	**ODE**	6203						
ENCL	TEAO	**SN**							
	SFA 14.4/7.2								

AC Induction Motor Performance Data
Record # 8070
Typical performance - not guaranteed values

Winding: 35WG0498-R001	**Type:** 3524L	**Enclosure:** TEFC

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. @ 25ºC**	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

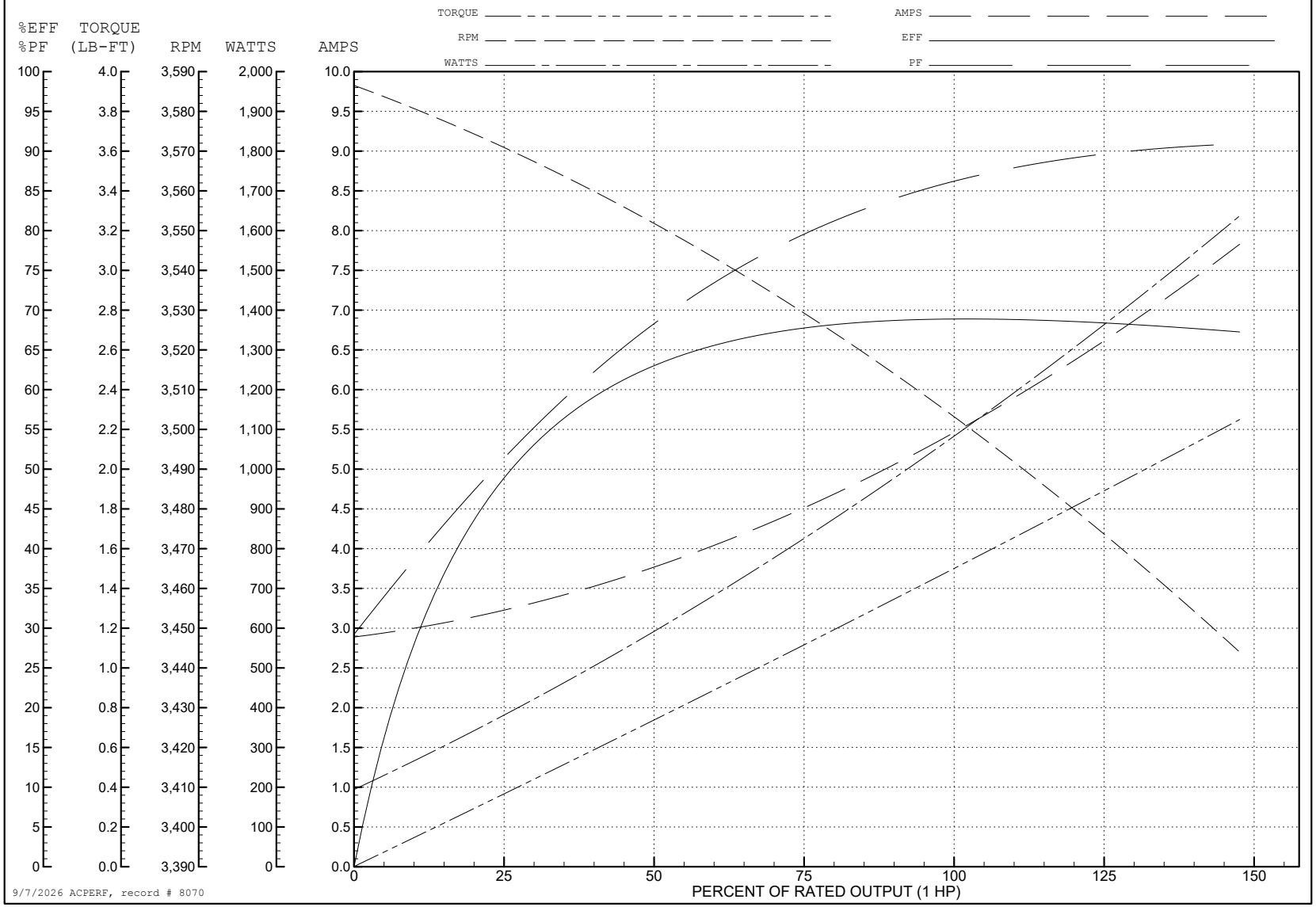
ABB Motors and Mechanical Inc.

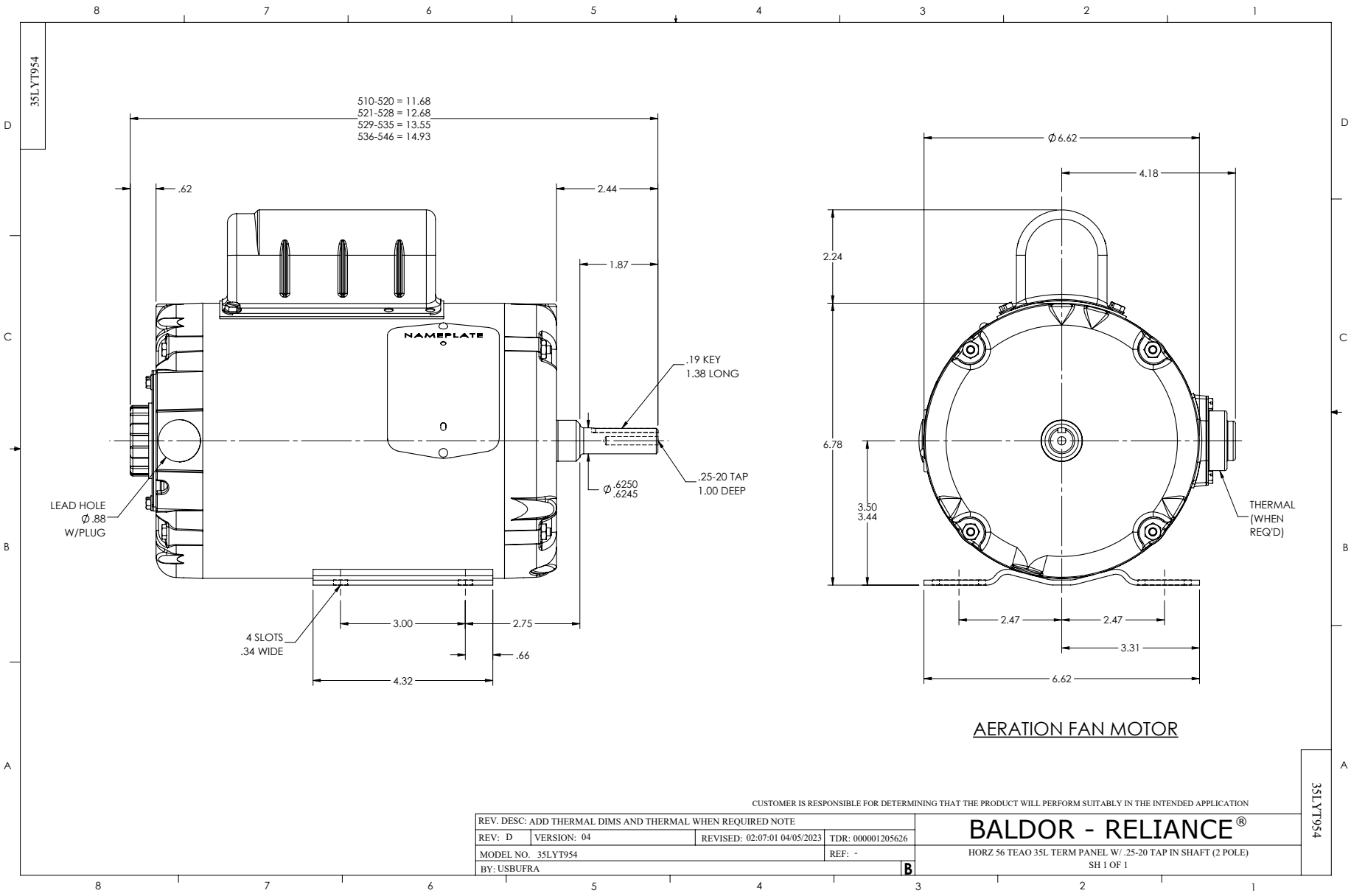
WINDING # 35WG0498

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

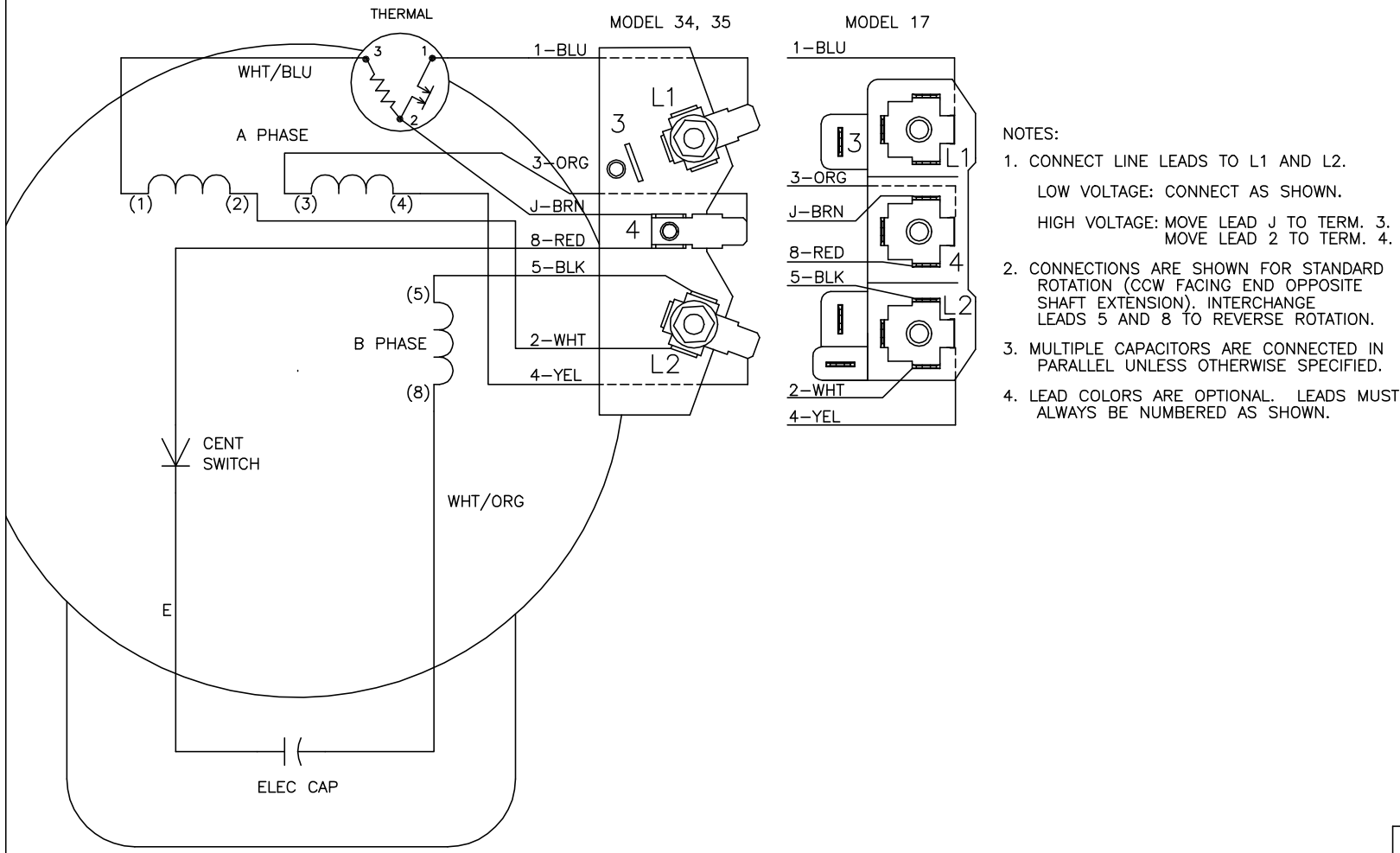
Typical performance - not guaranteed values.

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




35LYT954
510-520 = 11.68
521-528 = 12.68
529-535 = 13.55
536-546 = 14.93
.62
2.44
1.87
NAMEPLATE
.19 KEY
1.38 LONG
.25-20 TAP
1.00 DEEP
Ø.6250
Ø.6245
LEAD HOLE
Ø.88
W/PLUG
4 SLOTS
.34 WIDE
3.00
2.75
.66
4.32
Ø6.62
4.18
2.24
6.78
3.50
3.44
THERMAL
(WHEN
REQ'D)
2.47
2.47
3.31
6.62
AERATION FAN MOTOR
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD THERMAL DIMS AND THERMAL WHEN REQUIRED NOTE
REV: D
VERSION: 04
REVISED: 02:07:01 04/05/2023
TDR: 000001205626
MODEL NO. 35LYT954
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ 56 TEAO 35L TERM PANEL W/ .25-20 TAP IN SHAFT (2 POLE)
SH 1 OF 1
35LYT954

CD0052



NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.
   LOW VOLTAGE: CONNECT AS SHOWN.
   HIGH VOLTAGE: MOVE LEAD J TO TERM. 3. MOVE LEAD 2 TO TERM. 4.
2. CONNECTIONS ARE SHOWN FOR STANDARD ROTATION (CCW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE LEADS 5 AND 8 TO REVERSE ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0052

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: H	VERSION: 01	TDR: 000000373039	
CD0052	FILE: \AAA\00007\100	REVISED: 10:20:46 08/11/2005	TYPE L, DV, REV, THERMAL, TERMINAL PLATE
	MTL: –	BY: ENJOEP0	