ABB BALDOR RELIANCE

Customer information packet

RL1310A

1HP, 1725RPM, 1PH, 60HZ, 56H, 3520L, OPEN, F1, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	56H
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	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	C UR US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	13.000 A @ 115.0 V
	6.500 A @ 230.0 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	6.5 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	A
Type	AC
Mech. spec.	35F391
Base	
Status	PRD/A
Elec. spec.	35WGK600
Layout	35LYF391
Eff. date	03-18-2025
CD Diagram	CD0052
Poles	04
Leads	6#18,1#14 #1TH
Proprietary	False
Created date	01-14-2025

KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.42 IN
Power Factor	73
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 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	ES
Winding Thermal 2	None

Nameplate

NP1257L									
CAT.NO.	RL1310A								
SPEC.	35F391K600G1								
HP	1								
VOLTS	115/230								
AMP	13/6.5								
RPM	1725								
FRAME	56H		**HZ**	60		**PH**	1		
SER.F.	1.15	**CODE**	H	**DES**	N	**CL**	F		
NEMA-NOM-EFF	66	**PF**	73						
RATING	40C AMB-CONT								
CC									
DE	6203	**ODE**	6203						
ENCL	OPEN	**SN**							

AC Induction Motor Performance Data
Record # 111272
Typical performance - not guaranteed values

Winding: 35WGK600-R001	**Type:** 3520L	**Enclosure:** OPSB

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	3.049 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			13/6.5	**Breakdown Torque**	7.38 LB-FT
R.P.M.			1725	**Pull-up Torque**	6.33 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	7.09 LB-FT
NEMA Design Code	N	**KVA Code**	H	**Starting Current**	60.4 A
Service Factor (S.F.)			1.15	**No-load Current**	9.82 A
NEMA Nom. Eff.	66	**Power Factor**	73	**Line-line Res. @ 25ºC**	0.78284 Ω A Ph 1.9 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	48°C
S.F. Amps				**Temp. Rise @ S.F. Load**	58°C

Load Characteristics 115 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	35	50	63	73	80	85	77
Efficiency	47.1	62	67.1	68.2	66.5	62.6	67.2
Speed	1780.6	1765.2	1748	1727.1	1696.7	1658.3	1709
Line amperes	9.9	10.4	11.5	13.1	15.3	18.5	14.4

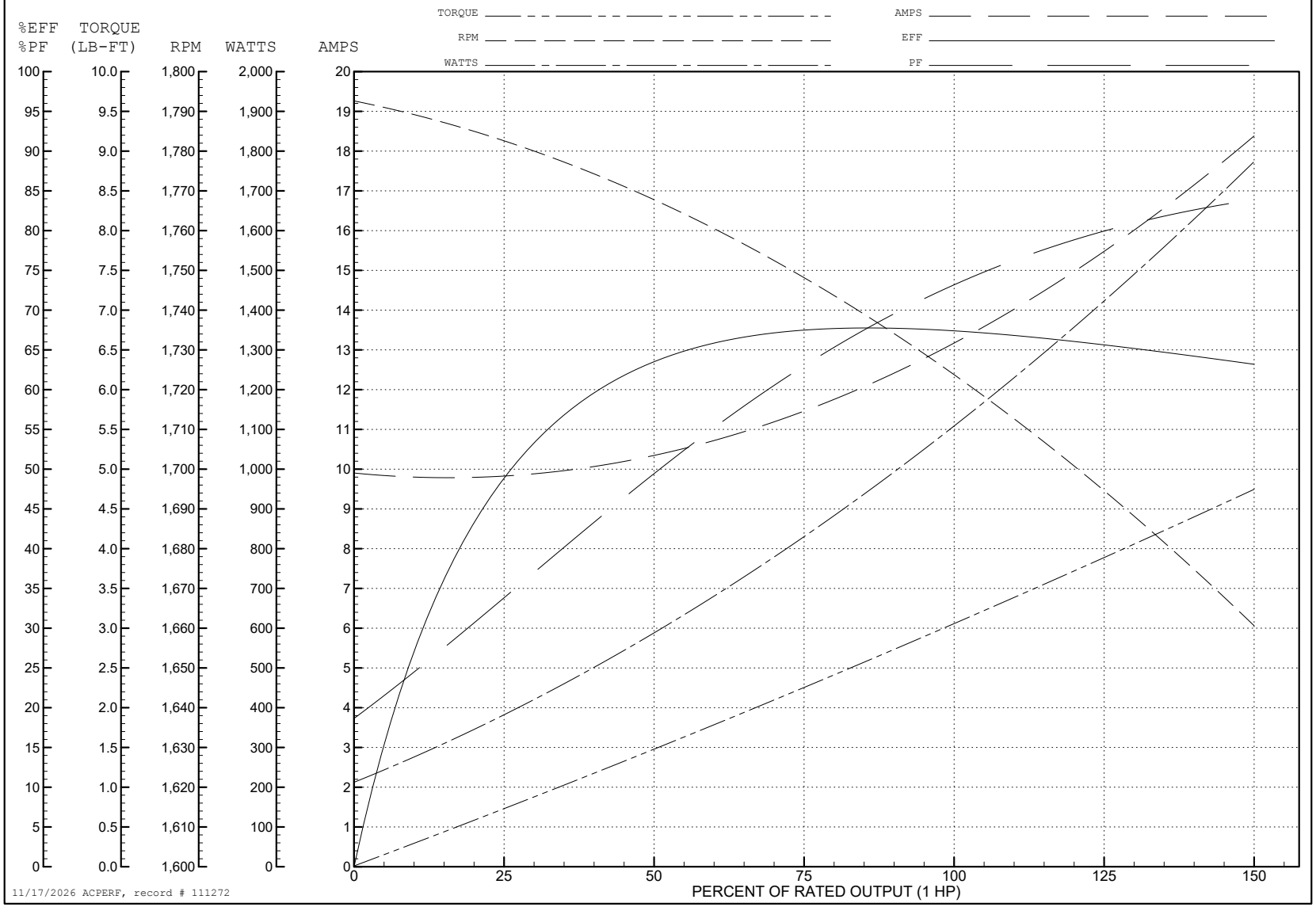
ABB Motors and Mechanical Inc.

WINDING # 35WGK600

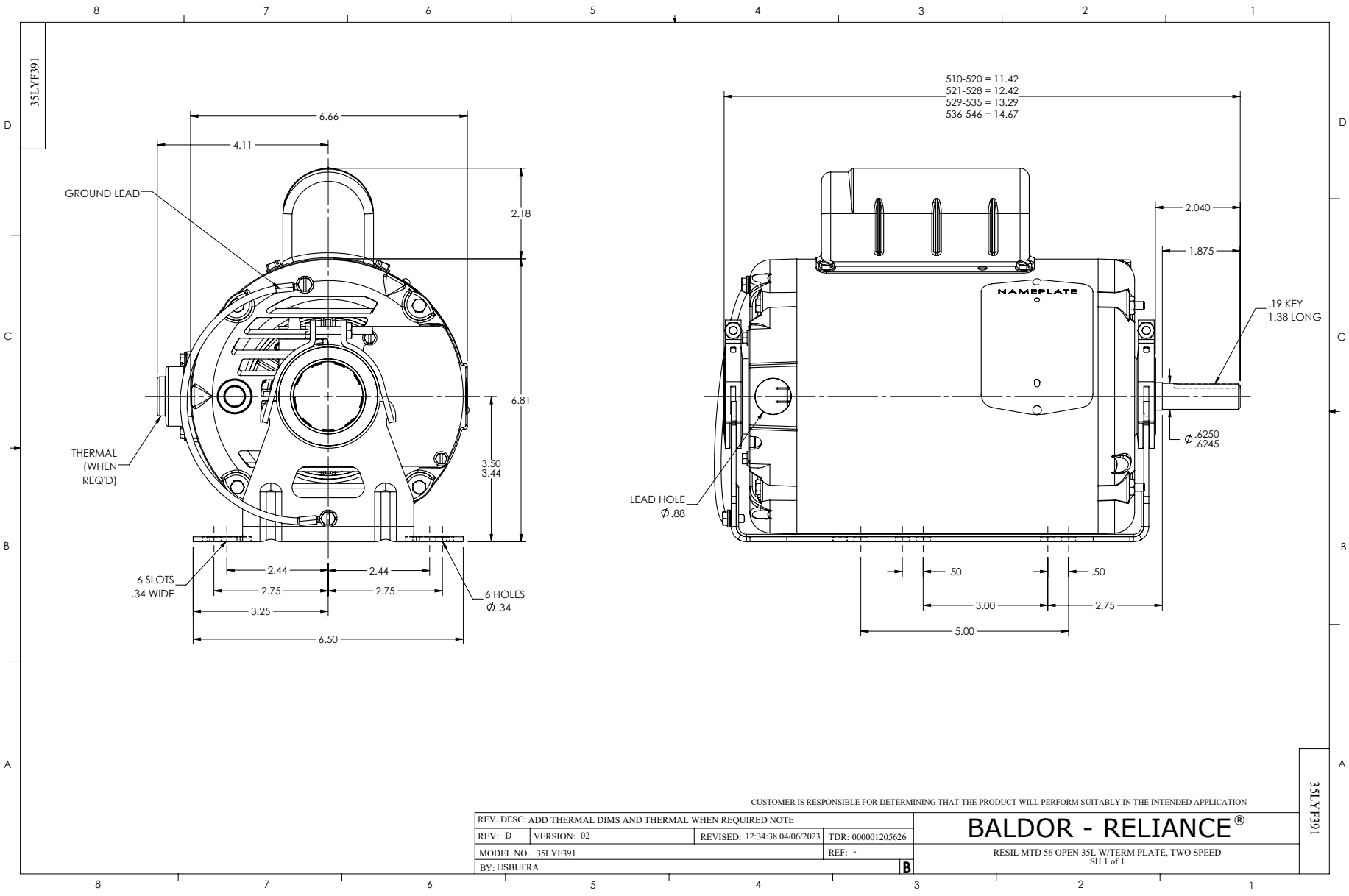
1 HP 1 PH 60 HZ 1725 RPM 115 V 3520L

TORQUES(LB-FT): PO=7.38 PU=6.33 LR=7.09 LRA=60.4

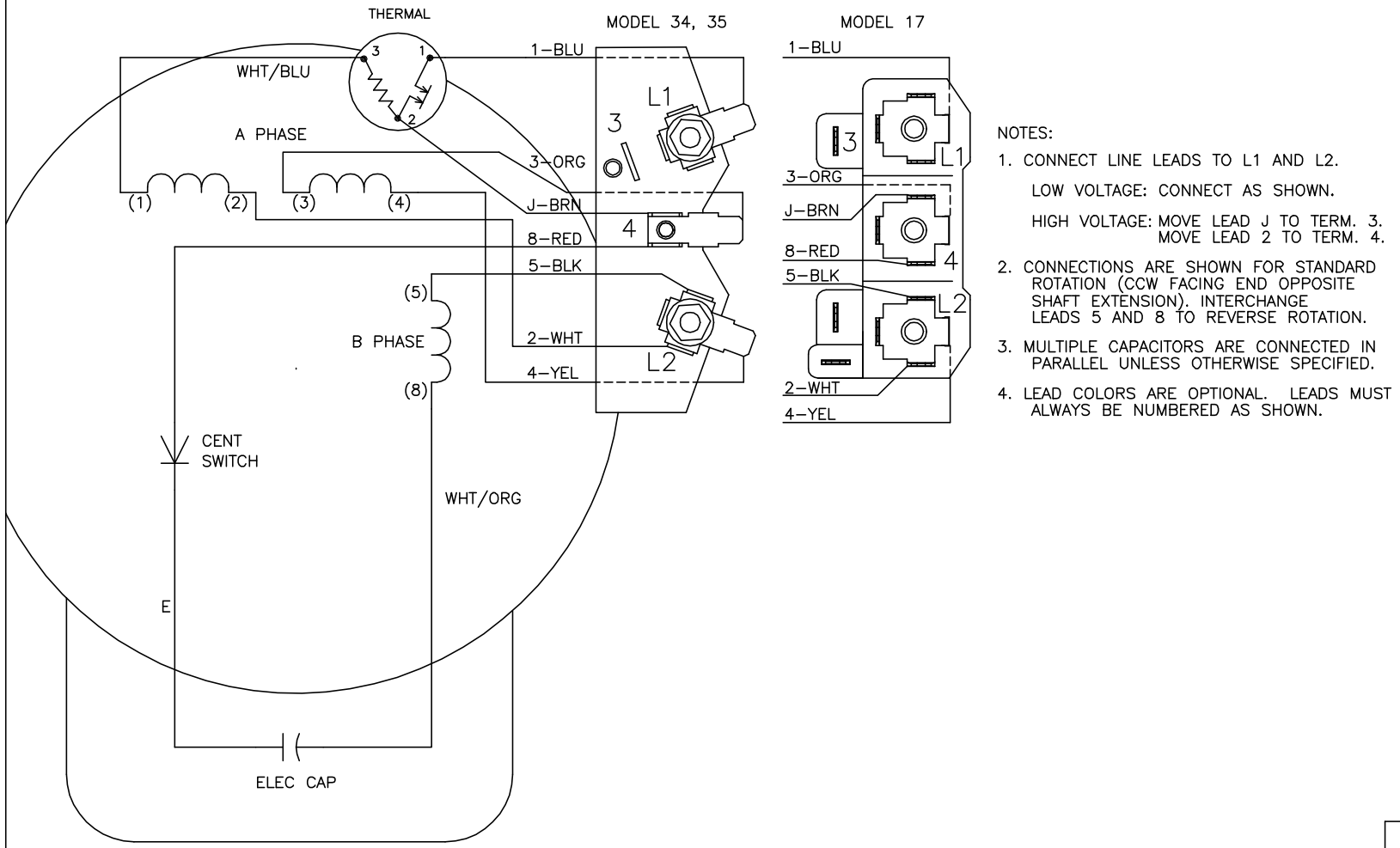
Typical performance - not guaranteed values.



11/17/2026 ACPERF, record # 111272


35LYF391
6.66
4.11
GROUND LEAD
2.18
6.81
3.50
3.44
THERMAL
(WHEN
REQ'D)
6 SLOTS
.34 WIDE
2.44
2.44
2.75
2.75
3.25
6.50
6 HOLES
Ø .34
510-520 = 11.42
521-528 = 12.42
529-535 = 13.29
536-546 = 14.67
2.040
1.875
NAMEPLATE
.19 KEY
1.38 LONG
Ø .6250
.6245
LEAD HOLE
Ø .88
.50
.50
3.00
2.75
5.00
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: 02
REVISED: 12:34:38 04/06/2023
TDR: 000001205626
MODEL NO. 35LYF391
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
RESIL MTD 56 OPEN 35L W/TERM PLATE, TWO SPEED
SH 1 of 1
35LYF391

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	