ABB BALDOR RELIANCE

Customer information packet

RL144A

.25HP, 1725RPM, 1PH, 60HZ, 48, 3411L, OPEN, F1
Class - None
Division - Not Applicable

8/26/2026 12:13:18 PM

Specifications

Enclosure	OPEN
Frame	48
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	.250 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	UR
	CSA
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	2.500 A @ 230.0 V
	3.000 A @ 208.0 V
	5.000 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	55.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	G
Type	AC
Mech. spec.	34K014
Base	
Status	INA/A
Elec. spec.	34WG5603
Layout	34LYK014
Eff. date	03-07-2017
CD Diagram	CD0052
Poles	04
Leads	7#18
Proprietary	False
Created date	03-11-2013

High Voltage Full Load Amps	2.5 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	None
Motor Standards	NEMA
Motor Type	3411L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	10.34 IN
Power Factor	57
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	1.25
Shaft Diameter	0.500 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
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	SB
Winding Thermal 2	None

Nameplate

	NP1257L									
CAT.NO.	RL1203A									
SPEC.	34K014-5603G5									
HP	.25									
VOLTS	115/230									
AMP	5/2.5									
RPM	1725									
FRAME	48		**HZ**	60		**PH**	1			
SER.F.	1.25	**CODE**	L	**DES**	N	**CL**	B			
NEMA-NOM-EFF	55	**PF**	57							
RATING	40C AMB-CONT									
CC										
DE	6203	**ODE**	6203							
ENCL	OPEN	**SN**								
	SFA 5.4/2.7									

AC Induction Motor Performance Data
Record # 41577
Typical performance - not guaranteed values

Winding: 34WG5603-R003	**Type:** 3411L	**Enclosure:** OPEN

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.25	**Full Load Torque**	0.75 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			5/2.5	**Breakdown Torque**	2.13 LB-FT
R.P.M.			1725	**Pull-up Torque**	1.88 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	2.48 LB-FT
NEMA Design Code	N	**KVA Code**	L	**Starting Current**	9.95 A
Service Factor (S.F.)			1.25	**No-load Current**	2.2 A
NEMA Nom. Eff.	55	**Power Factor**	57	**Line-line Res. @ 25ºC**	8.88 Ω A Ph 7.06 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	42°C
S.F. Amps			5.4/2.7	**Temp. Rise @ S.F. Load**	50°C

Load Characteristics 230 V, 60 Hz, 0.25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	40	49	57	63	69	67
Efficiency	27	42	51	55	58	59	59
Speed	1779	1763	1745	1725	1705	1680	1690
Line amperes	2.2	2.3	2.4	2.5	2.7	2.9	2.8

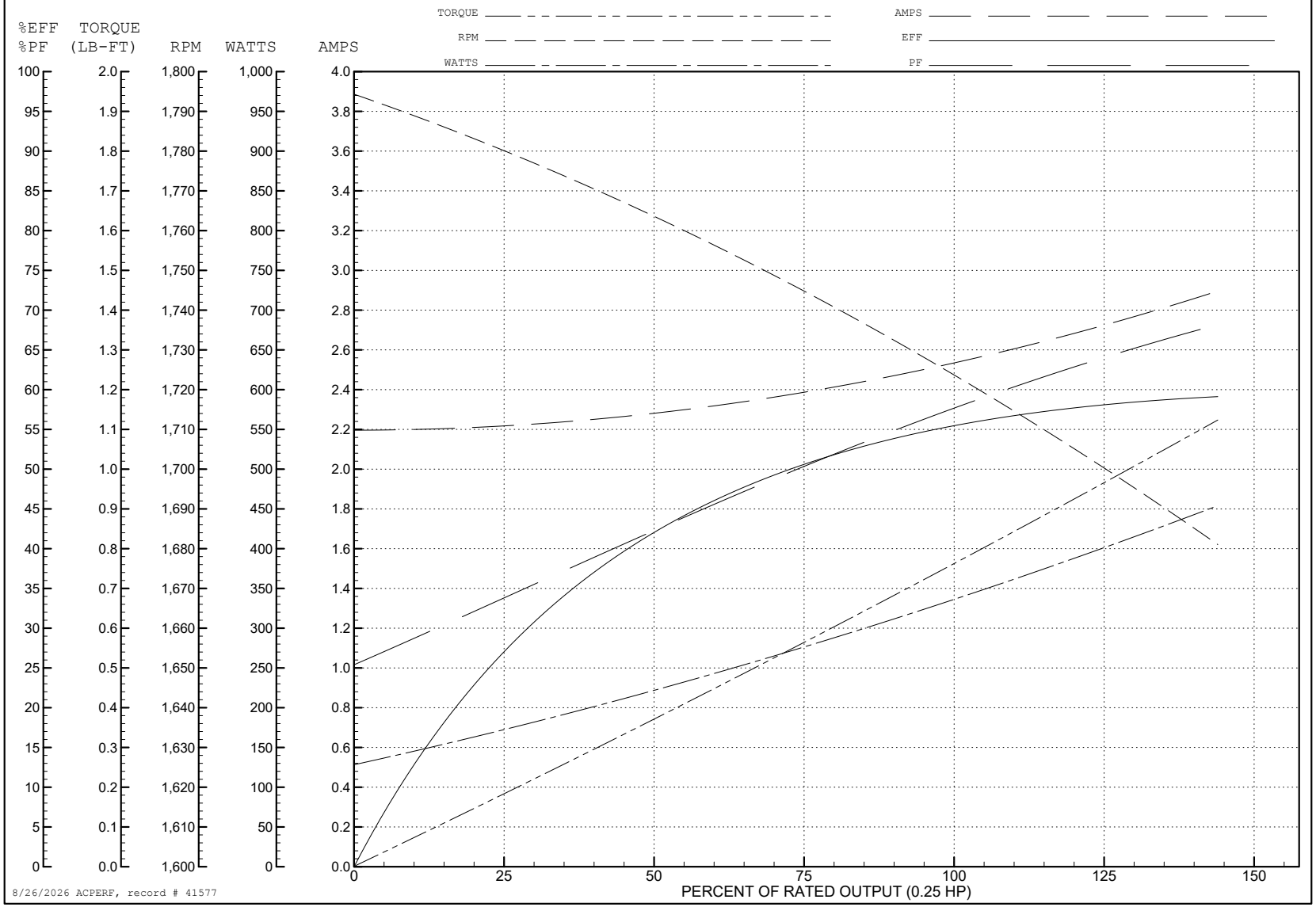
ABB Motors and Mechanical Inc.

WINDING # 34WG5603

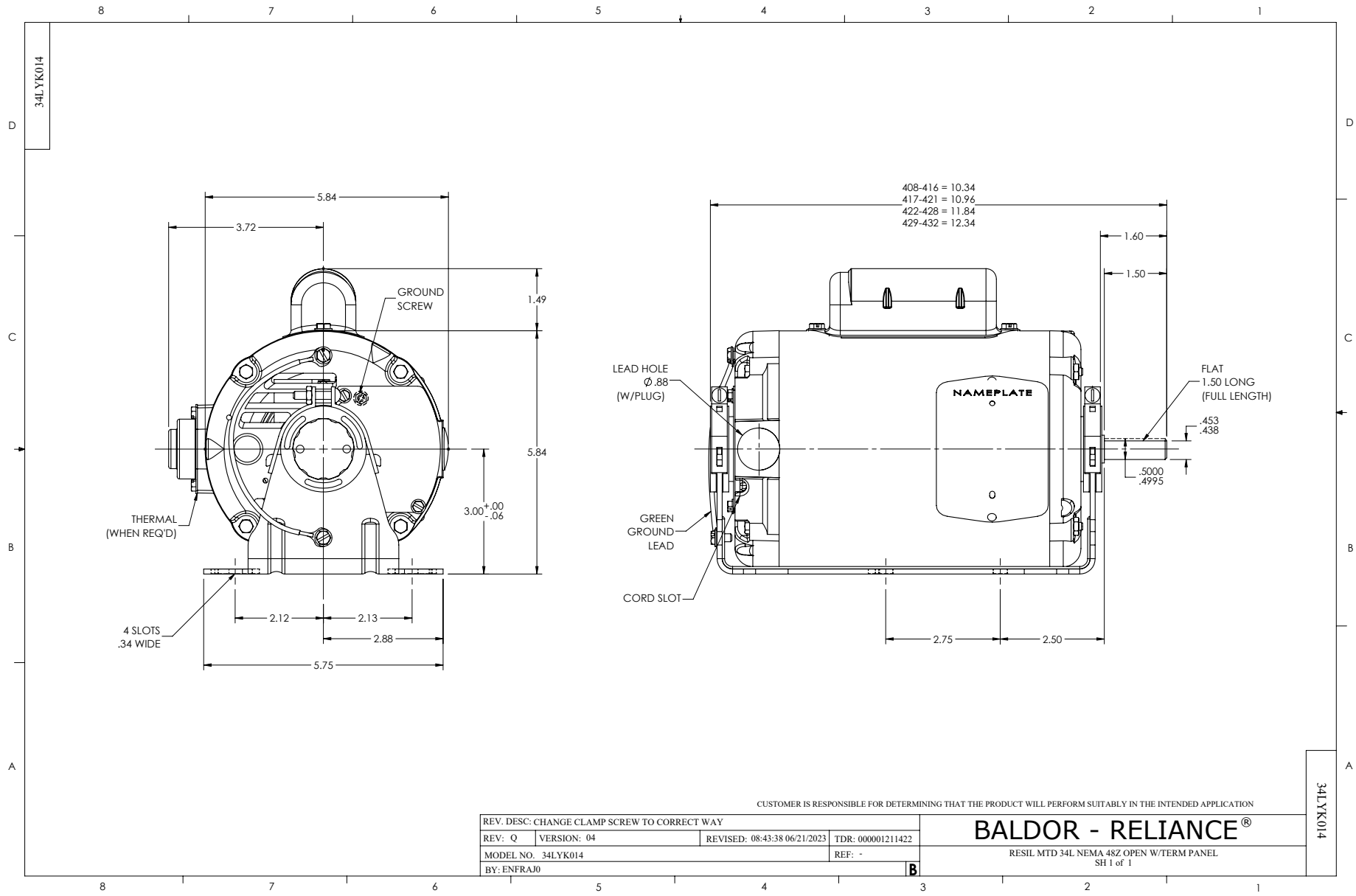
0.25 HP 1 PH 60 HZ 1725 RPM 230 V 3411L

Typical performance - not guaranteed values.

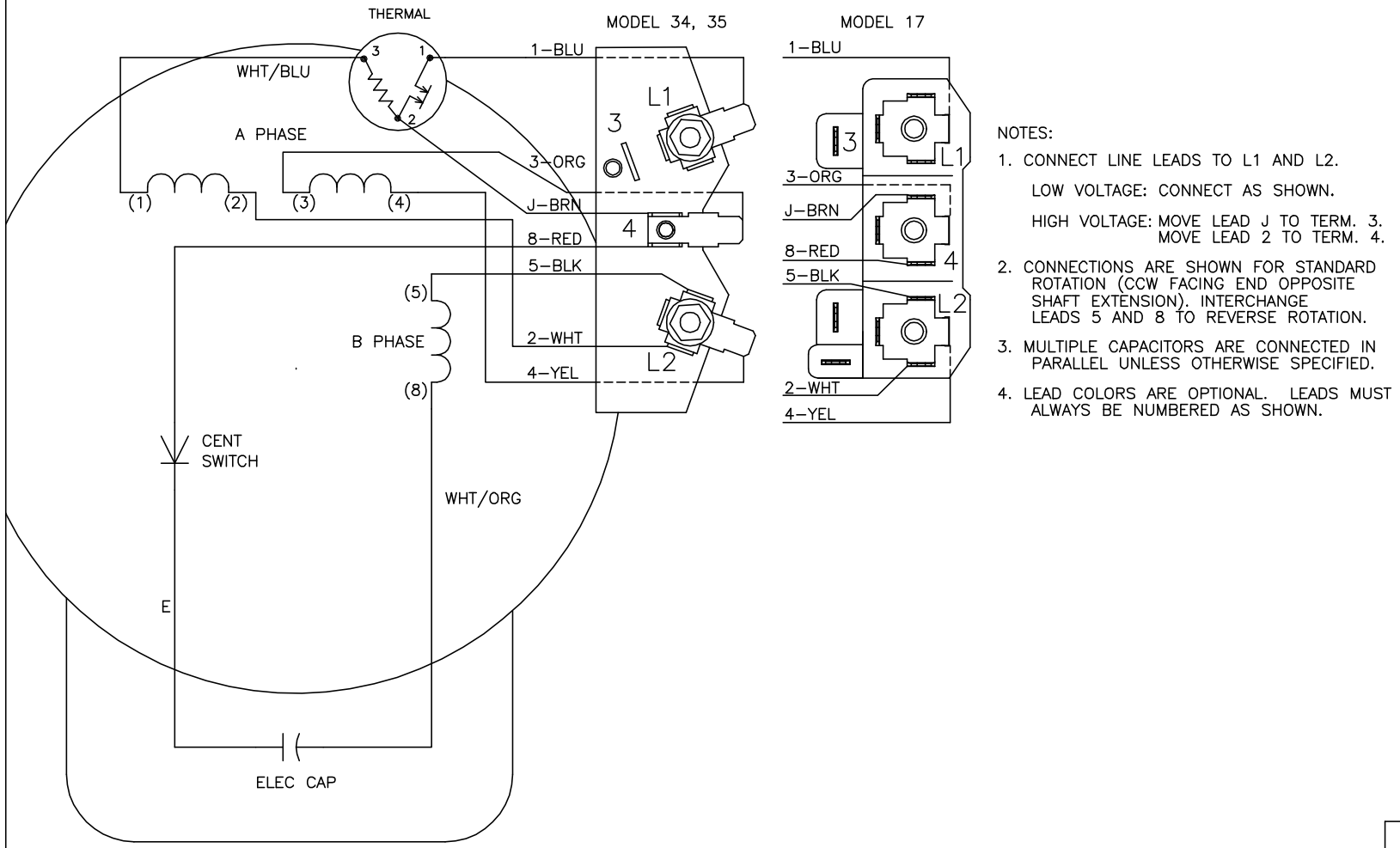
TORQUES(LB-FT): PO=2.13 PU=1.88 LR=2.48 LRA=9.95



8/26/2026 ACPERF, record # 41577


34LYK014
5.84
3.72
GROUND SCREW
1.49
5.84
3.00 +.00 -.06
THERMAL (WHEN REQ'D)
4 SLOTS .34 WIDE
2.12
2.13
2.88
5.75
408-416 = 10.34
417-421 = 10.96
422-428 = 11.84
429-432 = 12.34
1.60
1.50
LEAD HOLE Ø .88 (W/PLUG)
NAMEPLATE
FLAT 1.50 LONG (FULL LENGTH)
.453
.438
.5000
.4995
GREEN GROUND LEAD
CORD SLOT
2.75
2.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE CLAMP SCREW TO CORRECT WAY
REV: Q
VERSION: 04
REVISED: 08:43:38 06/21/2023
TDR: 000001211422
MODEL NO. 34LYK014
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
RESIL MTD 34L NEMA 48Z OPEN W/TERM PANEL
SH 1 of 1
34LYK014

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	