ABB BALDOR RELIANCE

Customer information packet

CHC3414A

.25HP, 1100RPM, 1PH, 60HZ, 48Z, 3418C, TEAO, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	48Z
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Oil Capacitor Start and Run
Output @ Frequency	.250 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1200 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	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	4.400 A @ 115.0 V
	2.200 A @ 230.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	51.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.2 a

Part Detail

Revision	AF
Type	AC
Mech. spec.	34K052
Base	
Status	PRD/A
Elec. spec.	34WG5634
Layout	34LYK052
Eff. date	01-30-2026
CD Diagram	CD0381
Poles	06
Leads	7#18
Proprietary	False
Created date	01-01-0001

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3418C
Mounting Arrangement	F1
Number of Poles	6
Overall Length	11.97 IN
Power Factor	67
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	1.00
Shaft Diameter	0.500 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1100 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.									
SPEC.	34K52-5634								
HP	.25								
VOLTS	115/230								
AMP	4.4/2.2								
RPM	1100								
FRAME	48Z	**HZ**	60		**PH**	1			
SER.F.	1.00	**CODE**	F	**DES**	-	**CL**	B		
NEMA-NOM-EFF	51	**PF**	67						
RATING	40C AMB-CONT								
CC									
DE	6203	**ODE**	6203						
ENCL	TEAO	**SN**							
	CHC3414A								

AC Induction Motor Performance Data
Record # 50788
Typical performance - not guaranteed values

Winding: 34WG5634-R001	**Type:** 3418C	**Enclosure:** TEAO

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.25	**Full Load Torque**	1.15 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			4.4/2.2	**Breakdown Torque**	2.38 LB-FT
R.P.M.			1100	**Pull-up Torque**	0.39 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	0.71 LB-FT
NEMA Design Code	-	**KVA Code**	F	**Starting Current**	5.6 A
Service Factor (S.F.)			1	**No-load Current**	1.91 A
NEMA Nom. Eff.	51	**Power Factor**	67	**Line-line Res. @ 25ºC**	11.6 Ω A Ph 35.2 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	

Load Characteristics 230 V, 60 Hz, 0.25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	45	52	60	67	72	75
Efficiency	21	34	46	51	53	53
Speed	1176	1161	1137	1108	1073	1041
Line amperes	1.92	1.95	2.04	2.21	2.44	2.67

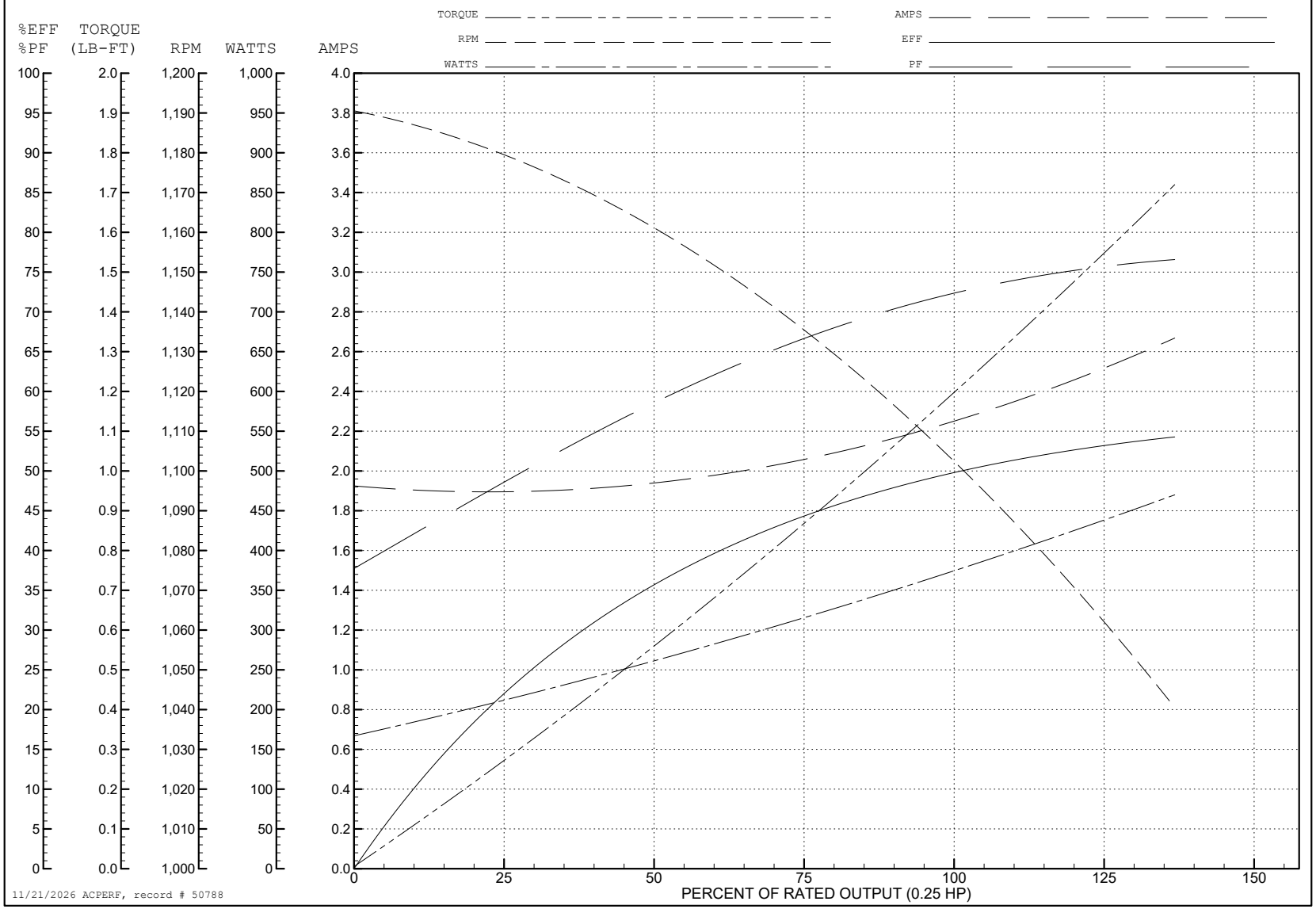
ABB Motors and Mechanical Inc.

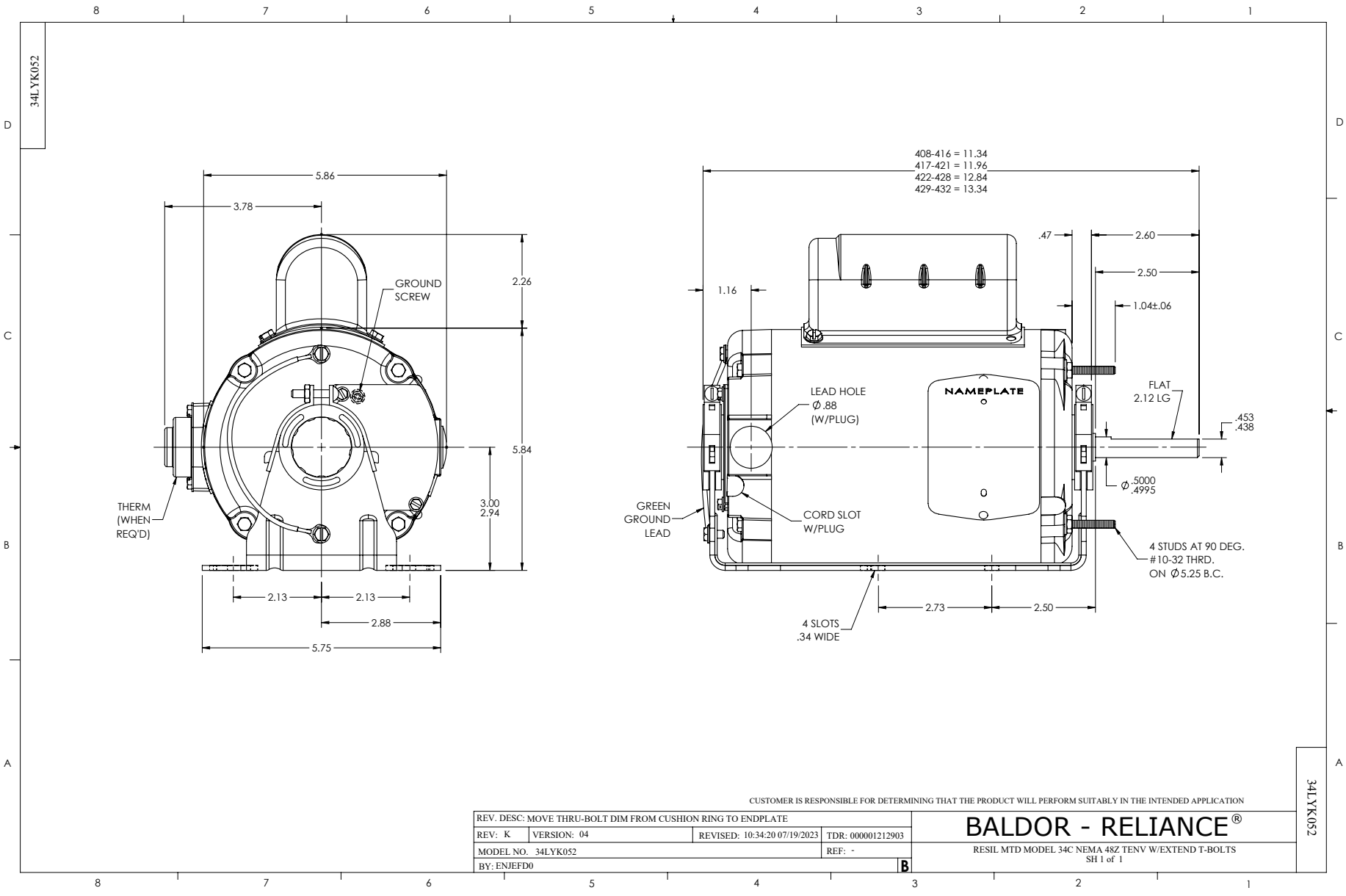
WINDING # 34WG5634

0.25 HP 1 PH 60 HZ 1100 RPM 230 V 3418C

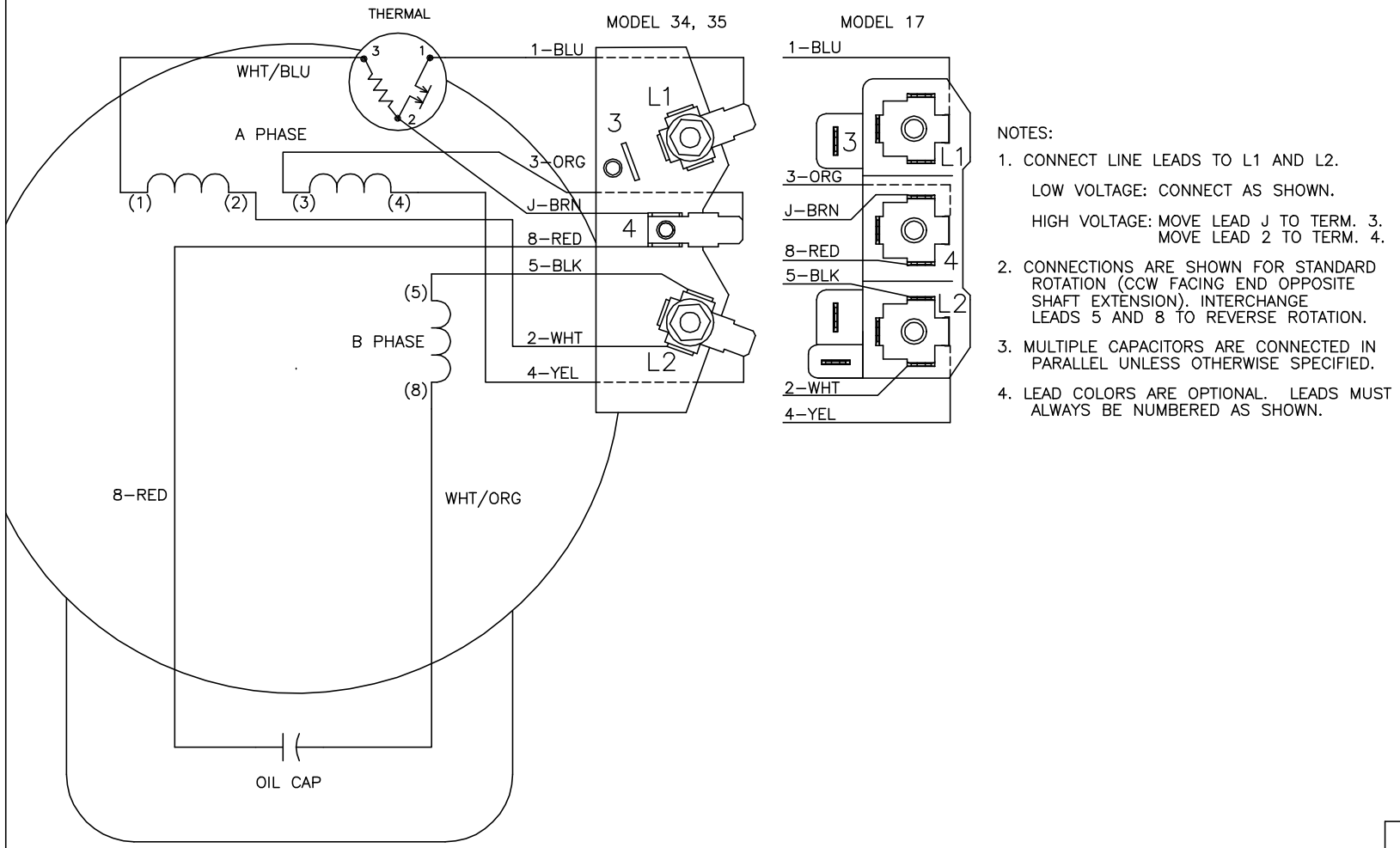
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=2.38 PU=0.39 LR=0.71 LRA=5.6




34LYK052
5.86
3.78
GROUND SCREW
2.26
5.84
3.00
2.94
THERM (WHEN REQ'D)
2.13
2.13
2.88
5.75
408-416 = 11.34
417-421 = 11.96
422-428 = 12.84
429-432 = 13.34
.47
2.60
2.50
1.16
1.04±.06
LEAD HOLE Ø .88 (W/PLUG)
NAMEPLATE
FLAT 2.12 LG
.453
.438
Ø .5000
.4995
GREEN GROUND LEAD
CORD SLOT W/PLUG
4 STUDS AT 90 DEG. #10-32 THRD. ON Ø5.25 B.C.
2.73
2.50
4 SLOTS .34 WIDE
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: MOVE THRU-BOLT DIM FROM CUSHION RING TO ENDPLATE
REV: K
VERSION: 04
REVISED: 10:34:20 07/19/2023
TDR: 000001212903
MODEL NO. 34LYK052
REF: -
BY: ENJEFD0
B
BALDOR - RELIANCE®
RESIL MTD MODEL 34C NEMA 48Z TENV W/EXTEND T-BOLTS
SH 1 of 1
34LYK052

CD0381



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.

CD0381

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: F	VERSION: 01	TDR: 000000373051	
CD0381	FILE: \AAA\00007\119	REVISED: 08:56:57 09/08/2005	TYPE C, DV, REV, THERMAL, TERMINAL PLATE
	MTL: –	BY: ENJOEP0	

CD0381