BALDOR • RELIANCE

Customer information packet

RL1307A277

.75HP, 1725RPM, 1PH, 60HZ, 56H, 3428L, OPEN, F1
Class - None
Division - Not Applicable

12/22/2025 4:29:37 PM

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	.750 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	277.0 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	4.200 A @ 277.0 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	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 a
Insulation Class	F
Inverter Code	Not Inverter

Part detail

Revision	D
Type	AC
Mech. spec.	34L986
Base	
Status	PRD/A
Elec. spec.	34WGX691
Layout	34LYL986
Eff. date	10-28-2024
CD Diagram	CD0085
Poles	04
Leads	5#18
Proprietary	False
Created date	08-21-2012

KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	5 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3428L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.47 IN
Power Factor	69
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	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.	RL1307A277									
SPEC.	34L986X691G1									
HP	.75									
VOLTS	277									
AMP	4.2									
RPM	1725									
FRAME	56H		**HZ**	60		**PH**	1			
SER.F.	1.25	**CODE**	M	**DES**	N	**CL**	F			
NEMA-NOM-EFF	66	**PF**	69							
RATING	40C AMB-CONT									
CC										
DE	6203	**ODE**	6203							
ENCL	OPEN	**SN**								
	SFA 4.6									

AC Induction Motor Performance Data
Record # 50726
Typical performance - not guaranteed values

Winding: 34WGX691-R002	**Type:** 3428L	**Enclosure:** OPEN

Nameplate Data				**277 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			.75	**Full Load Torque**	2.25 LB-FT
Volts			277	**Start Configuration**	direct on line
Full Load Amps			4.2	**Breakdown Torque**	6 LB-FT
R.P.M.			1725	**Pull-up Torque**	5.7 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	10.8 LB-FT
NEMA Design Code	N	**KVA Code**	M	**Starting Current**	29 A
Service Factor (S.F.)			1.25	**No-load Current**	3.1 A
NEMA Nom. Eff.	66	**Power Factor**	69	**Line-line Res. @ 25ºC**	3.94 Ω A Ph 6.8 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	75°C
S.F. Amps			4.6	**Temp. Rise @ S.F. Load**	91°C
				Locked-rotor Power Factor	98.9
				Rotor inertia	0.0665 LB-FT2

Load Characteristics 277 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	50	62	71	75	78	75
Efficiency	43.4	60.3	65.7	67.4	67	64.7	67
Speed	1779	1765	1750	1733	1711	1685	1711
Line amperes	3.2	3.4	3.7	4.2	4.9	5.8	4.9

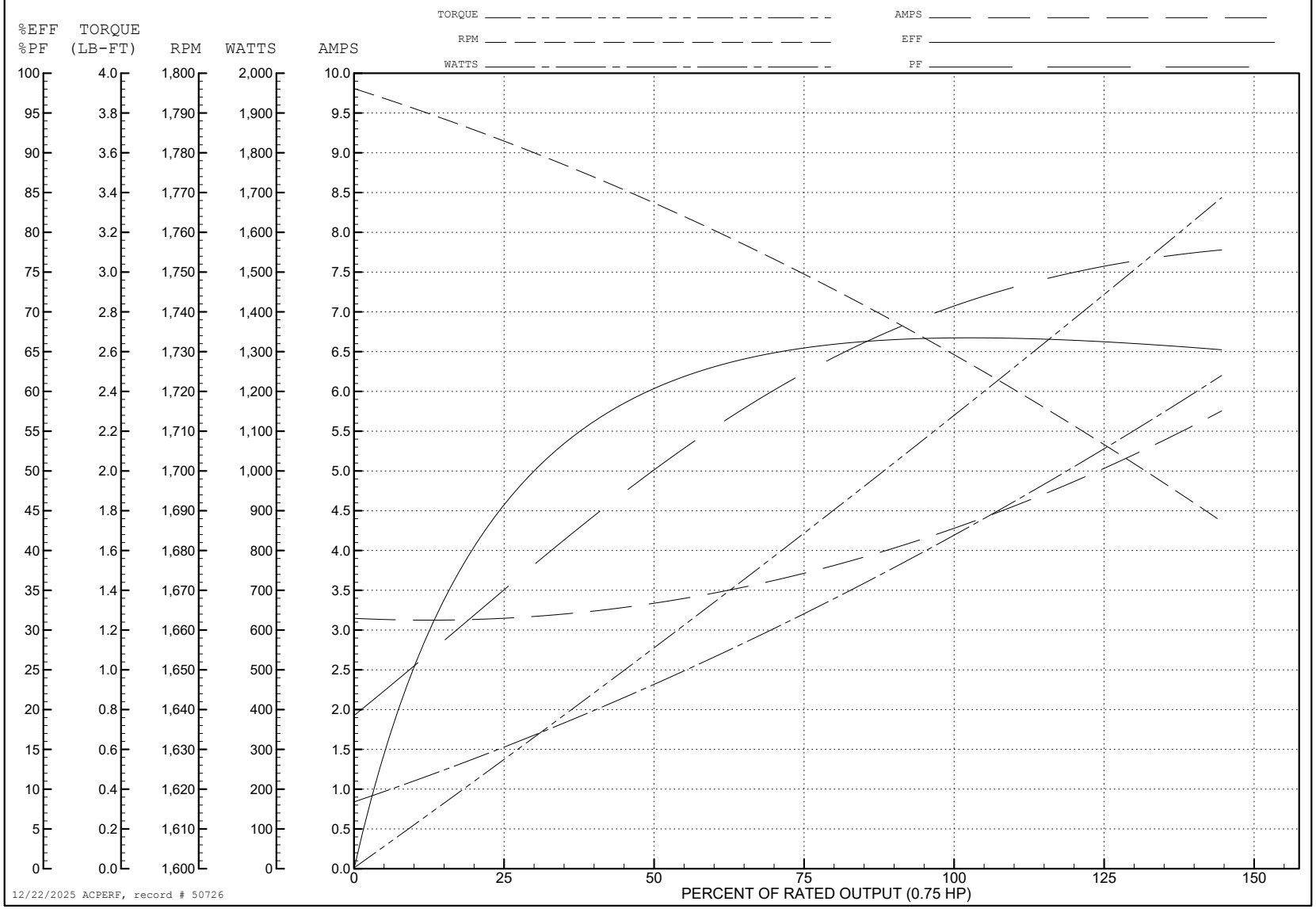
ABB Motors and Mechanical Inc.

WINDING # 34WGX691

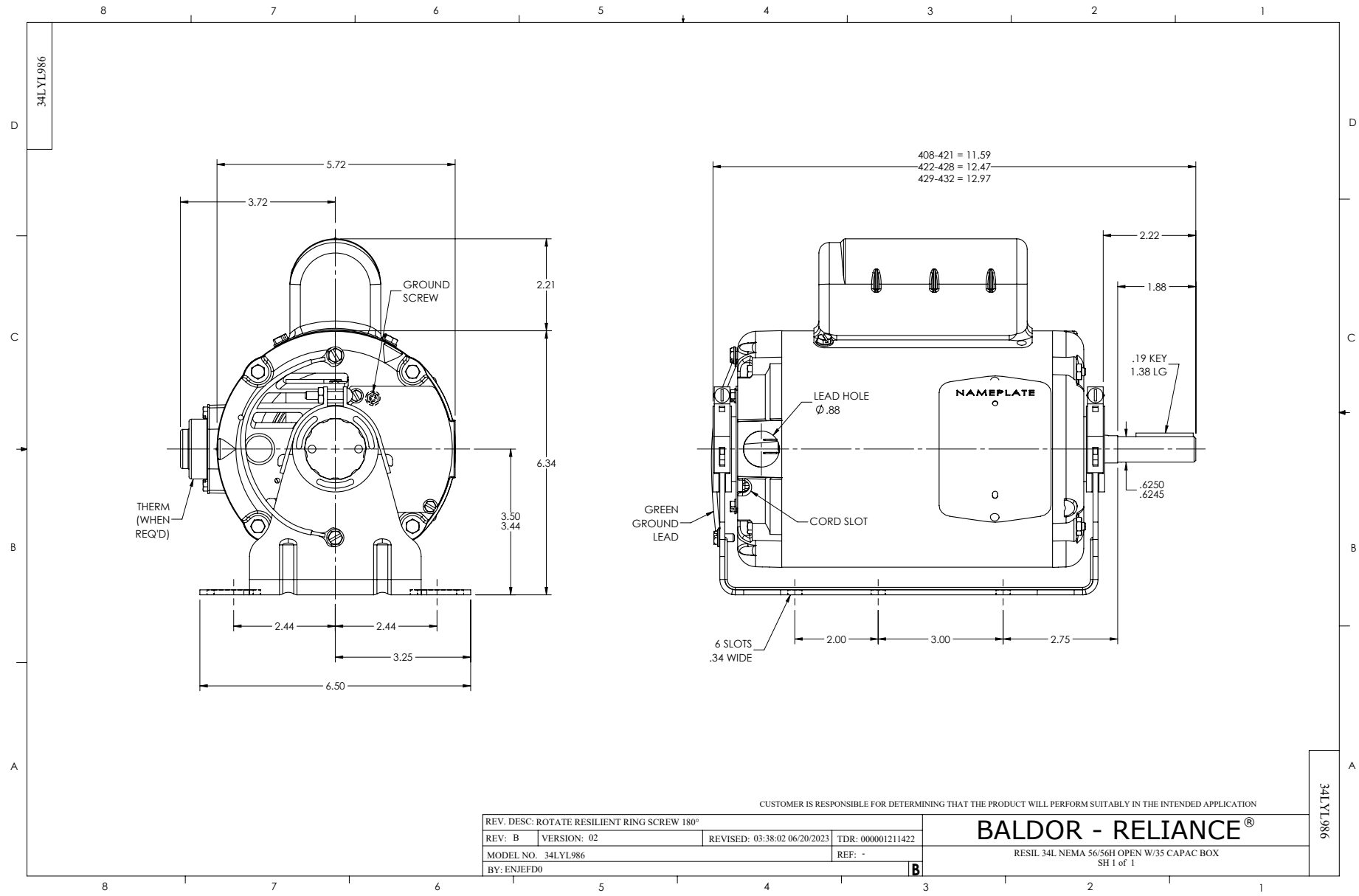
0.75 HP 1 PH 60 HZ 1725 RPM 277 V 3428L

Typical performance - not guaranteed values.

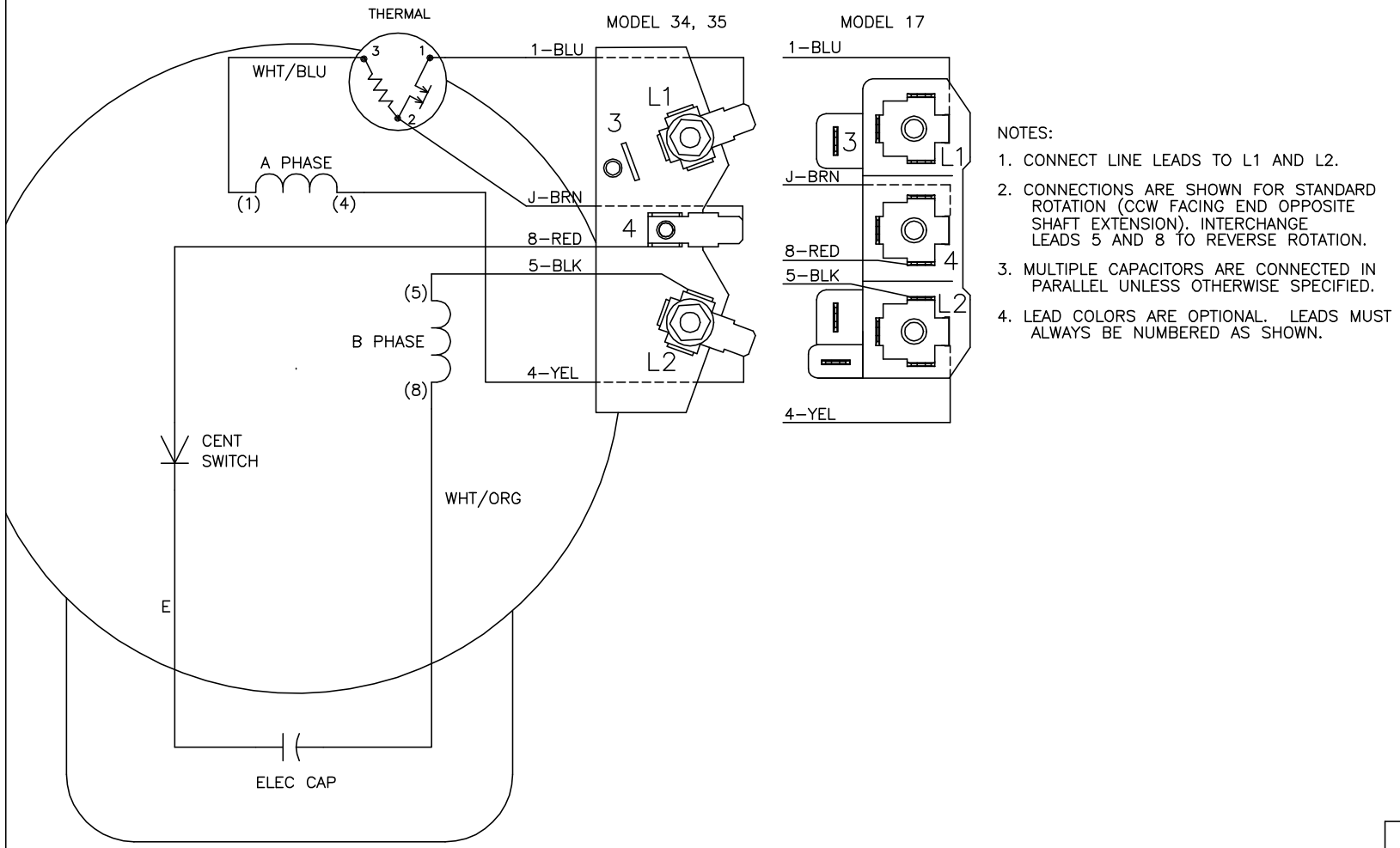
TORQUES(LB-FT): PO=6 PU=5.7 LR=10.8 LRA=29



12/22/2025 ACPERF, record # 50726


34LYL986
5.72
3.72
GROUND SCREW
2.21
6.34
3.50
3.44
THERM (WHEN REQ'D)
2.44
2.44
3.25
6.50
408-421 = 11.59
422-428 = 12.47
429-432 = 12.97
2.22
1.88
.19 KEY
1.38 LG
LEAD HOLE
Ø.88
NAMEPLATE
.6250
.6245
GREEN GROUND LEAD
CORD SLOT
6 SLOTS
.34 WIDE
2.00
3.00
2.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ROTATE RESILIENT RING SCREW 180°
REV: B
VERSION: 02
REVISED: 03:38:02 06/20/2023
TDR: 000001211422
MODEL NO. 34LYL986
REF: -
BY: ENJEFD0
B
BALDOR - RELIANCE®
RESIL 34L NEMA 56/56H OPEN W/35 CAPAC BOX
SH 1 of 1
34LYL986

CD0085



NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.
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.

CD0085

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: J	VERSION: 01	TDR: 000000373039	
CD0085	FILE: \AAA\00007\109	REVISED: 13:27:48 08/11/2005	TYPE L, SV, REV, THERMAL, TERMINAL PLATE
	MTL: –	BY: ENJOEP0	