

**BALDOR® • RELIANCE™**

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# Customer information packet

## VL3513T

1.5HP, 3450RPM, 1PH, 60HZ, 3524L, N

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	143TC
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	1.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	16.000 A @ 115.0 V 8.000 A @ 230.0 V 8.400 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

## Part detail

Revision	R
Type	AC
Mech. spec.	35Y522
Base	
Status	PRD/A
Elec. spec.	35WGY748
Layout	35LYY522
Eff. date	05-08-2024
CD Diagram	CD0001
Poles	02
Leads	4#16 A PH,2#18 B PH
Proprietary	False
Created date	12-04-2009

High Voltage Full Load Amps	8.0 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.29 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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	None

**Winding Thermal 2**

**None**

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**Nameplate**

<b>NP1256L</b>									
<b>CAT.NO.</b>	VL3513T								
<b>SPEC.</b>	35Y522Y748G1								
<b>HP</b>	1.5								
<b>VOLTS</b>	115/230								
<b>AMP</b>	16/8								
<b>RPM</b>	3450								
<b>FRAME</b>	143TC		<b>HZ</b>	60		<b>PH</b>	1		
<b>SER.F.</b>	1.15	<b>CODE</b>	J	<b>DES</b>	L	<b>CLASS</b>	B		
<b>NEMA-NOM-EFF</b>	70	<b>PF</b>	85						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>									
<b>DE</b>	6205		<b>ODE</b>	6203					
<b>ENCL</b>	TEFC	<b>SN</b>							

**AC Induction Motor Performance Data**

Record # 10315

Typical performance - not guaranteed values

Winding: 35WGY748-R001		Type: 3524L		Enclosure: TEFC	
<b>Nameplate Data</b>			<b>230 V, 60 Hz: High Voltage Connection</b>		
Rated Output (HP)	1.5		Full Load Torque	2.25 LB-FT	
Volts	115/230		Start Configuration	direct on line	
Full Load Amps	16/8		Breakdown Torque	5.4 LB-FT	
R.P.M.	3450		Pull-up Torque	5 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque	6.4 LB-FT	
NEMA Design Code	L	KVA Code	J	Starting Current	50 A
Service Factor (S.F.)	1.15		No-load Current	3.9 A	
NEMA Nom. Eff.	70	Power Factor	85	Line-line Res. @ 25°C	1.58 Ω A Ph 1.29 Ω B Ph
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	80°C	
S.F. Amps			Temp. Rise @ S.F. Load	90°C	

**Load Characteristics 230 V, 60 Hz, 1.5 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	68	78	85	89	90	87
Efficiency	56	68	70	70	67	64	69.5
Speed	3560	3530	3490	3450	3395	3335	3430
Line amperes	4.3	5.2	6.3	8	9.8	11.8	9

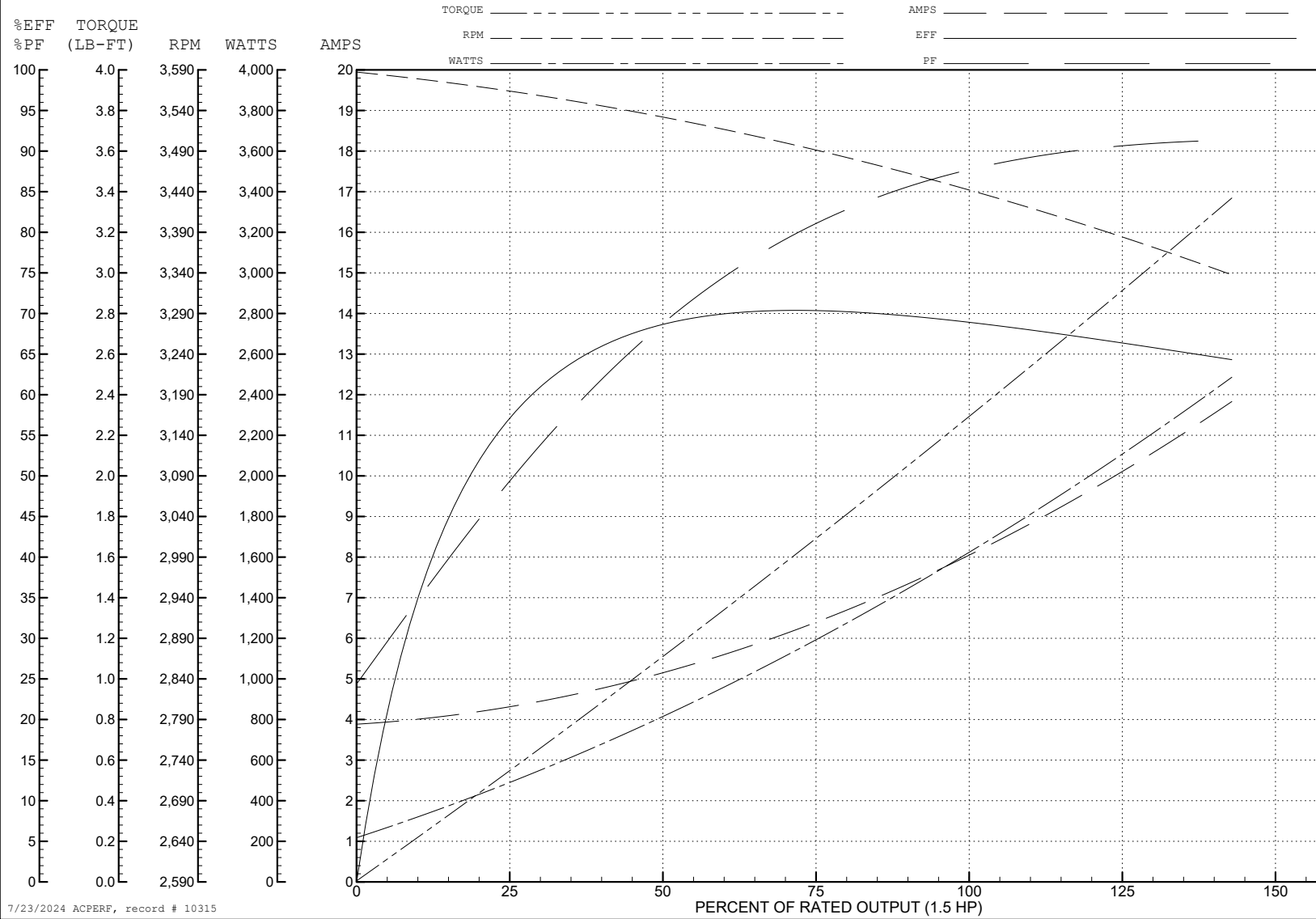
ABB Motors and Mechanical Inc.

WINDING # 35WGY748

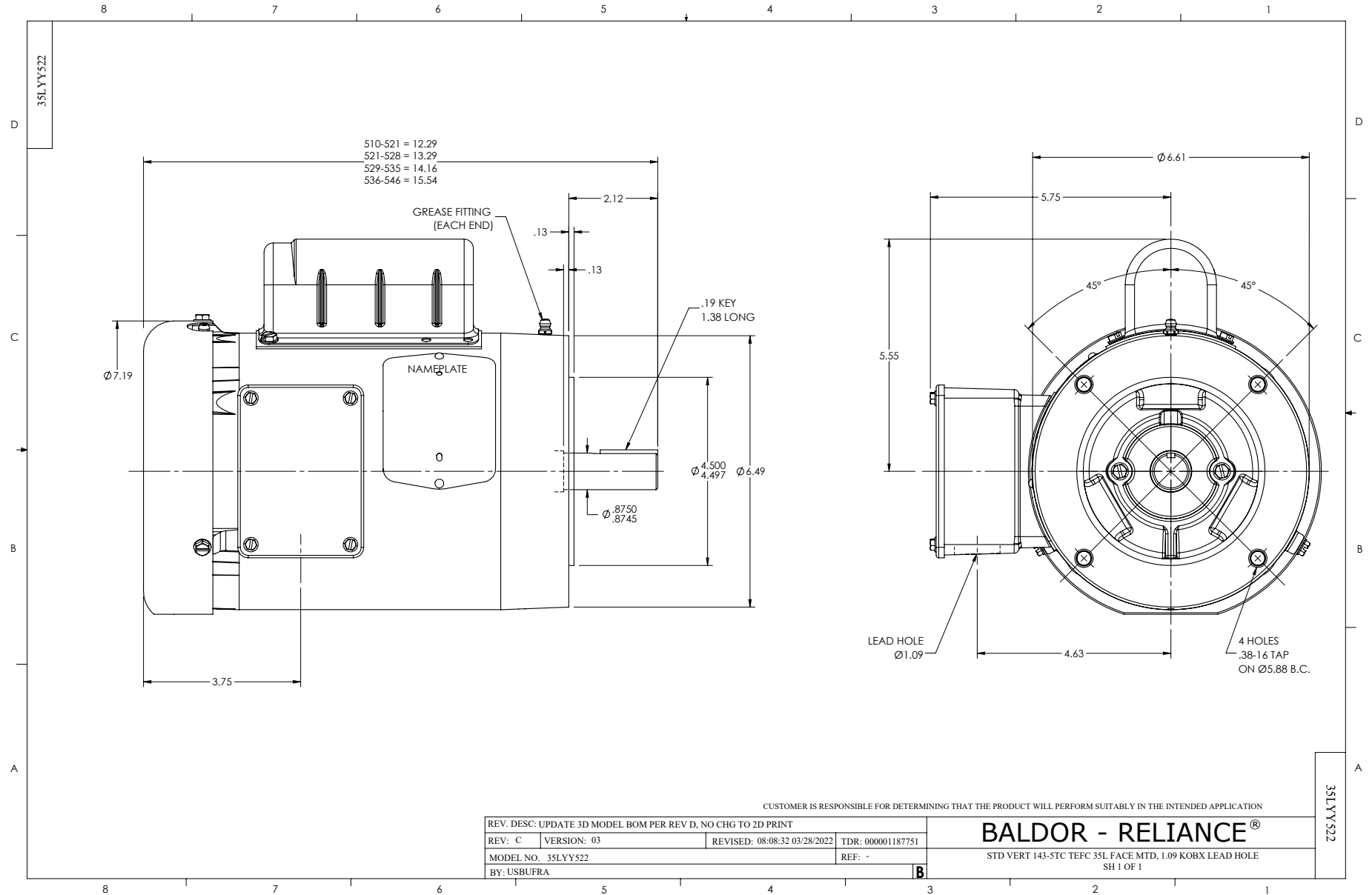
Typical performance - not guaranteed values.

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

TORQUES (LB-FT): PO=5.4 PU=5 LR=6.4 LRA=50

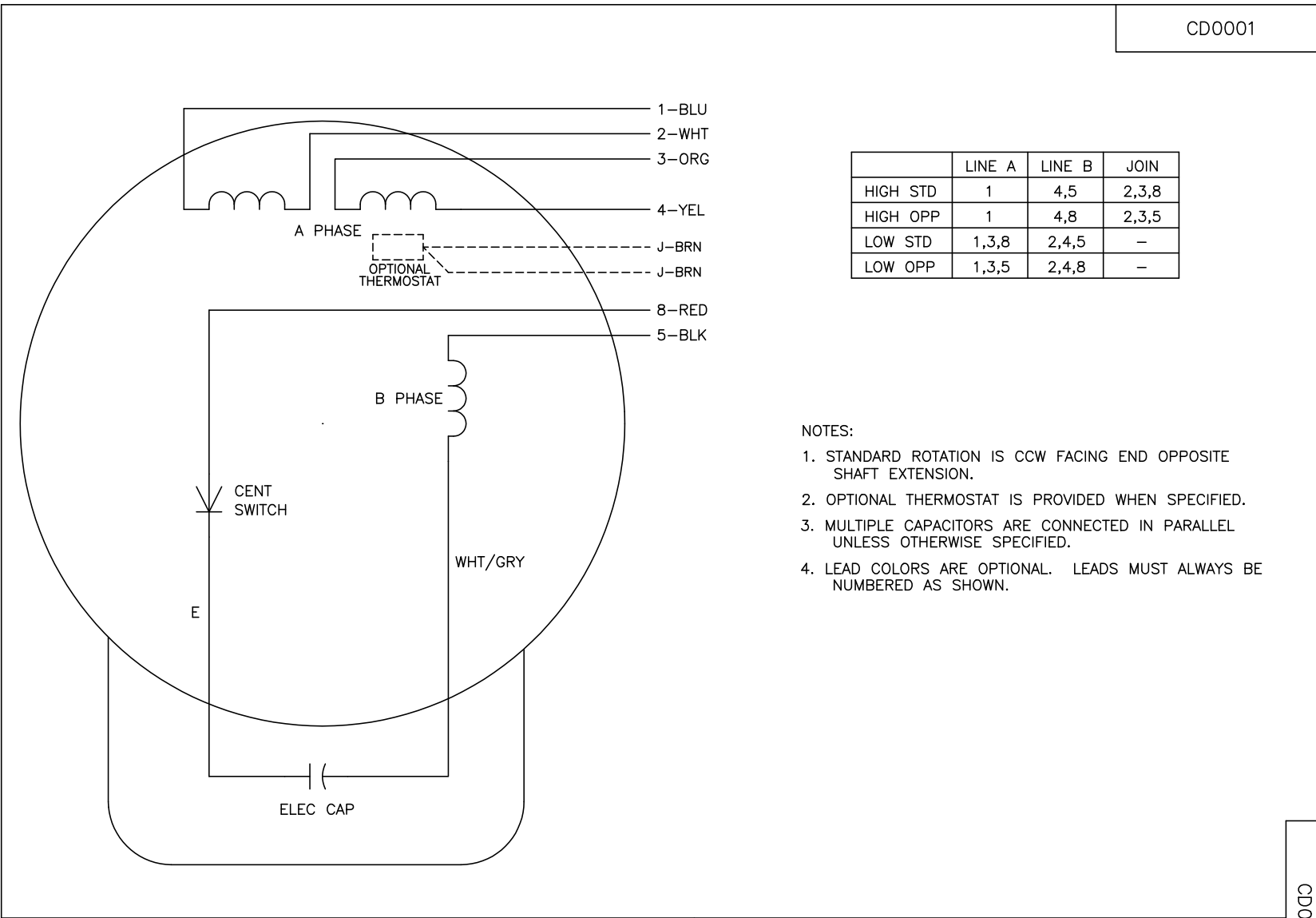


7/23/2024 ACPERF, record # 10315





CD0001



	LINE A	LINE B	JOIN
HIGH STD	1	4,5	2,3,8
HIGH OPP	1	4,8	2,3,5
LOW STD	1,3,8	2,4,5	-
LOW OPP	1,3,5	2,4,8	-

- NOTES:
1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
  2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
  3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
  4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0001

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:16	TDR: 0178636
100000		FILE: AAA00007405	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

TYPE L, DV, REV, 6 LEADS