ABB BALDOR RELIANCE

Customer information packet

L1205-50

.33/KW .25, 2900RPM, 1PH, 50HZ, 48, 3416LC, OP
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	48
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	.250 KW @ 50 HZ
Phase	1
Synchronous Speed @ Frequency	3000 RPM @ 50 HZ
Voltage @ Frequency	110.0 V @ 50 HZ
	220.0 V @ 50 HZ
Agency Approvals	C UR US
	CE
	CURUS
	UKCA
	WEEE
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.400 A @ 110.0 V
	1.700 A @ 220.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	71.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	J
Type	AC
Mech. spec.	34F351
Base	
Status	PRD/A
Elec. spec.	34WGR744
Layout	34LYF351
Eff. date	12-31-2024
CD Diagram	CD0055
Poles	02
Leads	6#18
Proprietary	False
Created date	02-10-2023

Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
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	3416LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	9.76 IN
Power Factor	92
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.35
Shaft Diameter	0.500 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	2900 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

Nameplate

NP1372L									
CAT.NO.	L1205-50								
SPEC.	34F351R744								
HP	.33/KW .25								
VOLTS	110/220								
AMP	3.4/1.7								
R.P.M. (1/MIN)	2900								
FRAME	48		**HZ**	50			**PH**	1	
SER.F.	1.35	**CODE**	L	**DES**	-	**CL**	B		
NEMA-NOM-EFF	71	**PF**	92						
RATING	40C AMB-S1 CONT								
CC			IP23 11KG IC01						
DE	6203		**ODE**	6203					
ENCL	OPEN	**SN**							
	IE2-50HZ 66 (75%),58 (50%)								

Parts List

Part number	Description	Quantity
SA411256	SA 34F351R744	1.000 ea
RA402894	RA 34F351R744	1.000 ea
OC3025F11	CYL OIL CAP 25MFD/370V	1.000 ea
EC1270A02SP	ELEC CAP, 270-324 MFD, 125V, 1.48D X 3.	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
34CB3002A	CB CAST W/.88 DIA HOLE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
SP1006A01	INSULATOR MODEL 35 SWITCH	1.000 ea
34EP3210A01SP	FR ENDPLATE, MACH	1.000 ea
34GS5003A01	FOAM SLEEVE, ID = 2 1/16" X 4 3/8"	2.000 ea
34CB3801	CAPACITOR BOX, DIE CAST	1.000 ea
51XB1214A08	12-14 X 1/2HX WS SL SR TYBX	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3212A02	PU ENDPLATE, MODEL 34 OPEN	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
34CB4517	CB LID 4 MTG HOLES .22 DIA STAMPED, FOR	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
SP5181A01	MODEL 35 TORQ STATIONARY SWITCH LEAD ASS	1.000 ea
HA3100A44	THRUBOLT 10-32 X 8.000	4.000 ea
LC0001A01	CONN LABEL / WARNING LABEL (LC0001 / LB1	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP1372L	ALUM UL CE UKCA WEEE CC, A60	1.000 ea
34PA1002	PKG GRP, PRINT PK1001A02	1.000 ea
LB1417	LABEL CARTON 6X4 PERFORATED BLANK ROLLS	1.000 ea

AC Induction Motor Performance Data
Record # 101548
Typical performance - not guaranteed values

Winding: 34WGR744-R001	**Type:** 3416LC	**Enclosure:** OPEN

Nameplate Data			**220 V, 50 Hz: High Voltage Connection**	
Rated Output (KW)		.25	**Full Load Torque**	0.6018 LB-FT
Volts		110/220	**Start Configuration**	direct on line
Full Load Amps		3.4/1.7	**Breakdown Torque**	2 LB-FT
R.P.M.		2900	**Pull-up Torque**	1.77 LB-FT
Hz	50 **Phase**	1	**Locked-rotor Torque**	2.34 LB-FT
NEMA Design Code	- **KVA Code**	L	**Starting Current**	14.2 A
Service Factor (S.F.)		1.35	**No-load Current**	0.803 A
NEMA Nom. Eff.	71 **Power Factor**	92	**Line-line Res. @ 25ºC**	6.2658 Ω A Ph 4.6856 Ω B Ph
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	16°C
S.F. Amps		4.4/2.2	**Temp. Rise @ S.F. Load**	19°C

Load Characteristics 220 V, 50 Hz, 0.25 KW

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	72	83	88	92	94	95	94
Efficiency	41.5	58.8	67.2	72.1	74.3	74.7	74.5
Speed	2967.1	2947.3	2927.1	2902	2876.4	2846.5	2864
Line amperes	0.955	1.17	1.4	1.7	2.01	2.37	2.15

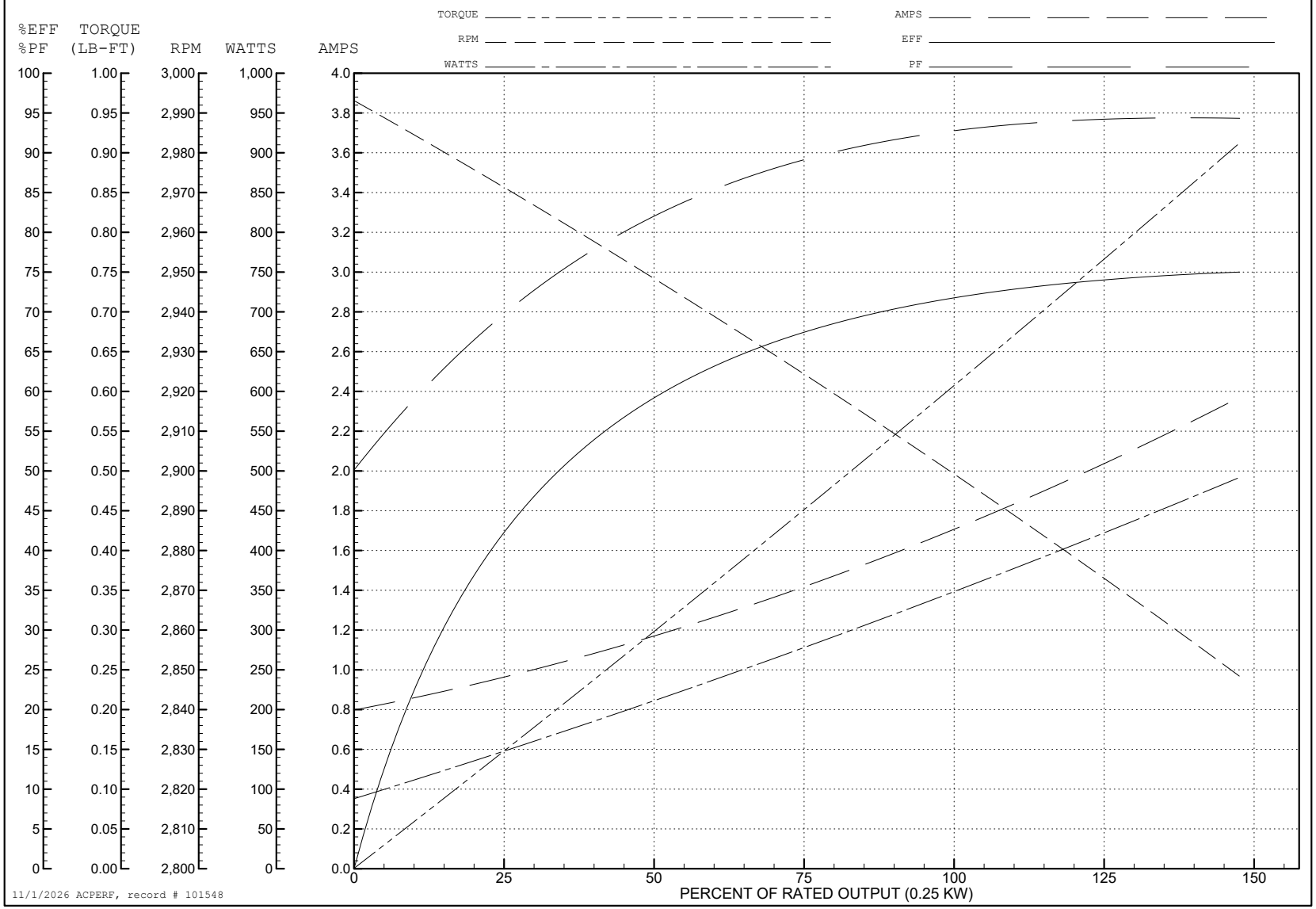
ABB Motors and Mechanical Inc.

WINDING # 34WGR744

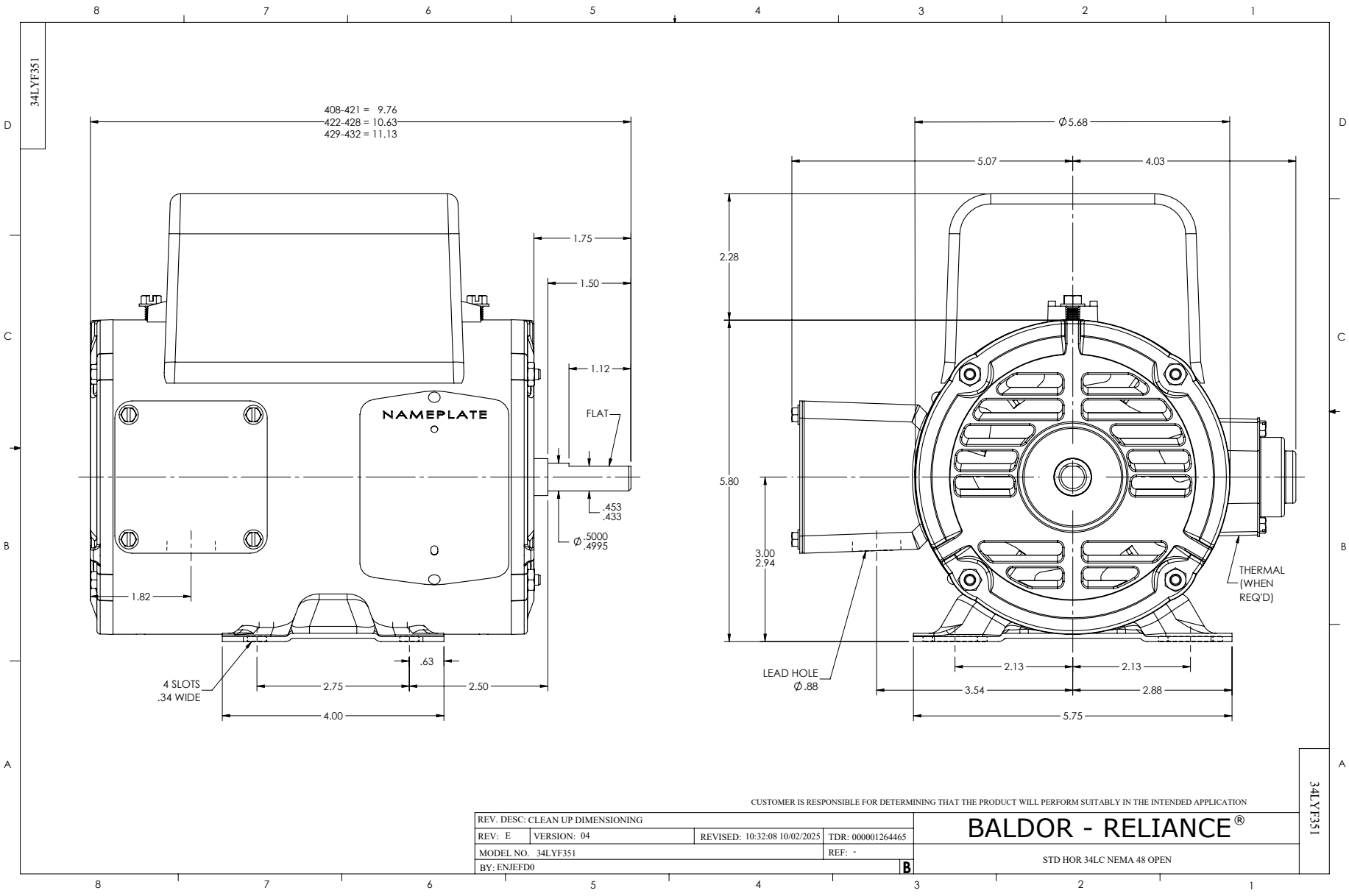
0.25 KW 1 PH 50 HZ 2900 RPM 220 V 3416LC

TORQUES(LB-FT): PO=2 PU=1.77 LR=2.34 LRA=14.2

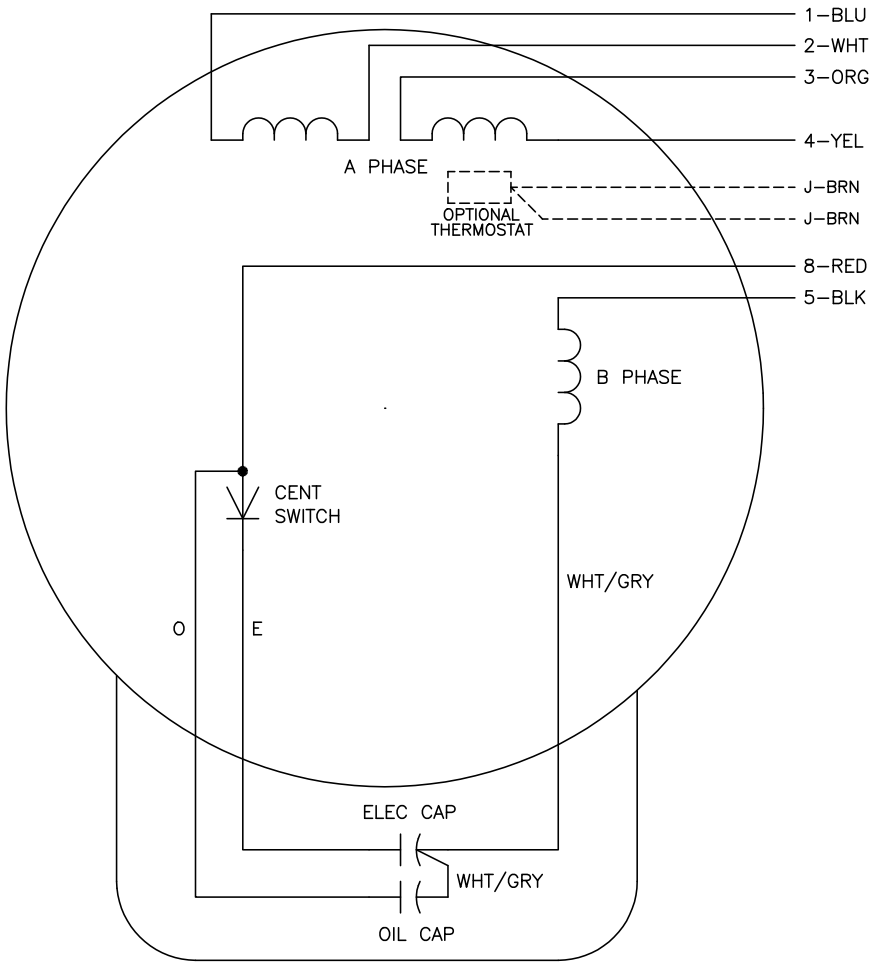
Typical performance - not guaranteed values.



11/1/2026 ACPERF, record # 101548


34LYF351
408-421 = 9.76
422-428 = 10.63
429-432 = 11.13
1.75
1.50
1.12
FLAT
NAMEPLATE
.453
.433
Ø .5000
.4995
1.82
.63
4 SLOTS
.34 WIDE
2.75
2.50
4.00
Ø5.68
5.07
4.03
2.28
5.80
3.00
2.94
THERMAL
(WHEN
REQ'D)
LEAD HOLE
Ø .88
2.13
2.13
3.54
2.88
5.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CLEAN UP DIMENSIONING
REV: E
VERSION: 04
REVISED: 10:32:08 10/02/2025
TDR: 000001264465
MODEL NO. 34LYF351
REF: -
BY: ENJEFD0
B
BALDOR - RELIANCE®
STD HOR 34LC NEMA 48 OPEN
34LYF351

CD0055



	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.

CD0055

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:17	TDR: 0178636
CD0055		FILE: AAA00007414	MDL: –
		MTL: –	TYPE LC, DV, REV, 6 LEADS