ABB BALDOR RELIANCE

Customer information packet

CDRXL050344

.33HP, 1740RPM, 1PH, 60HZ, 56C, 3512L, XPFC, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	.330 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	UL
	CSA
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	3.200 A @ 230.0 V
	6.400 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	54.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.2 a

Part Detail

Revision	D
Type	AC
Mech. spec.	35X723
Base	
Status	PRD/A
Elec. spec.	35WGG869
Layout	35LYX723
Eff. date	05-29-2026
CD Diagram	CD0001
Poles	04
Leads	6#18
Proprietary	False
Created date	05-08-2024

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3512L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.28 IN
Power Factor	62
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1740 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0977XPSL									
NO.					**CC**				
SER.					**TEMP CODE**	T3C			
SPEC.	35X723G869								
CAT.NO.	CDRXL050344								
HP	.33								
VOLTS	115/230								
AMPS	6.4/3.2								
RPM	1740				**MOTOR WEIGHT**	41			
HERTZ	60	**PH**	1	**CL**	B	**DE BRG**	6205		
SER.F.	1.15	**DES**	N	**CODE**	N	**ODE BRG**	6203		
FRAME	56C	**GREASE**	POLYREX EM						
RATING	40C AMB-CONT								
				NEMA-NOM-EFF	54	**PF**	62		

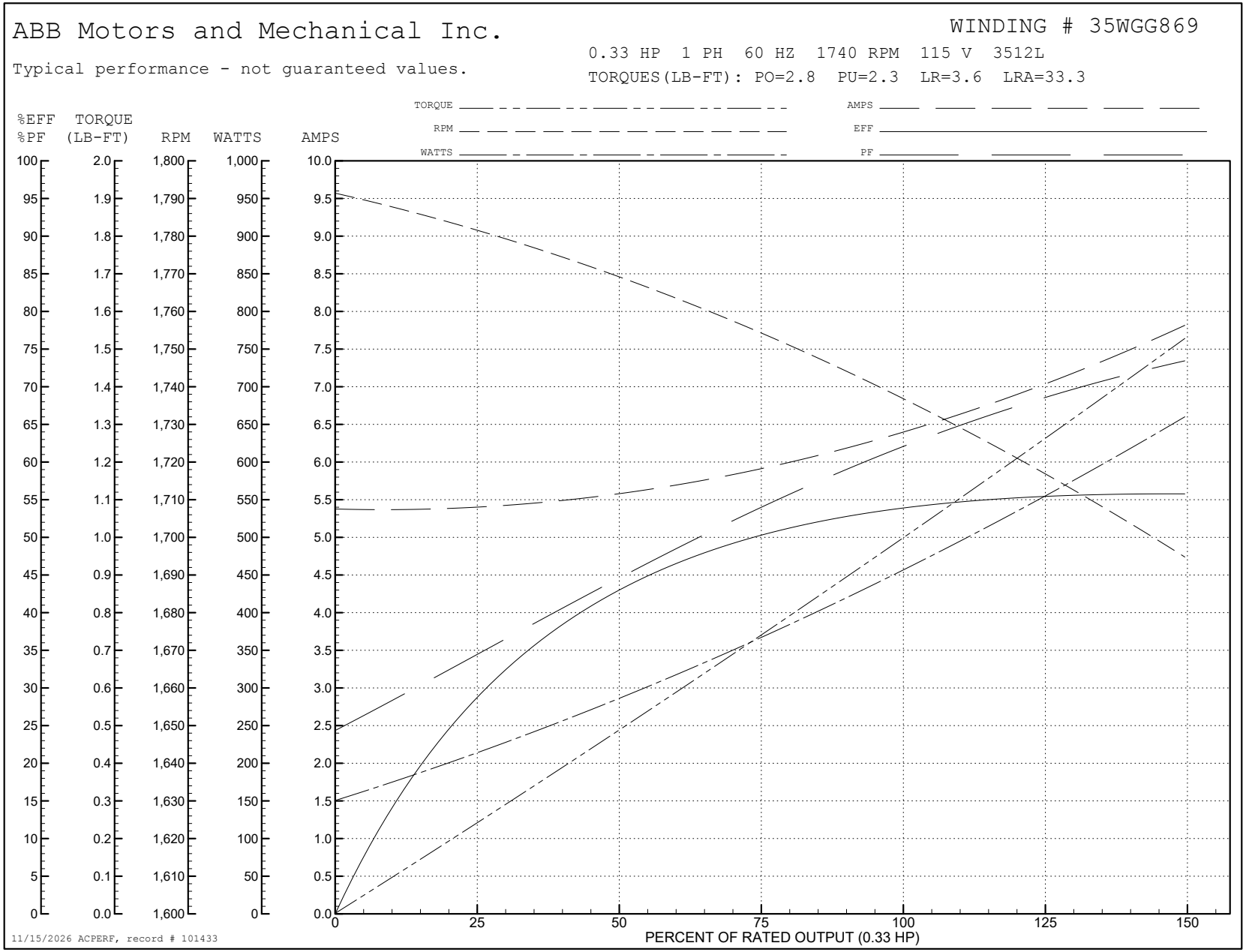
AC Induction Motor Performance Data
Record # 101433
Typical performance - not guaranteed values

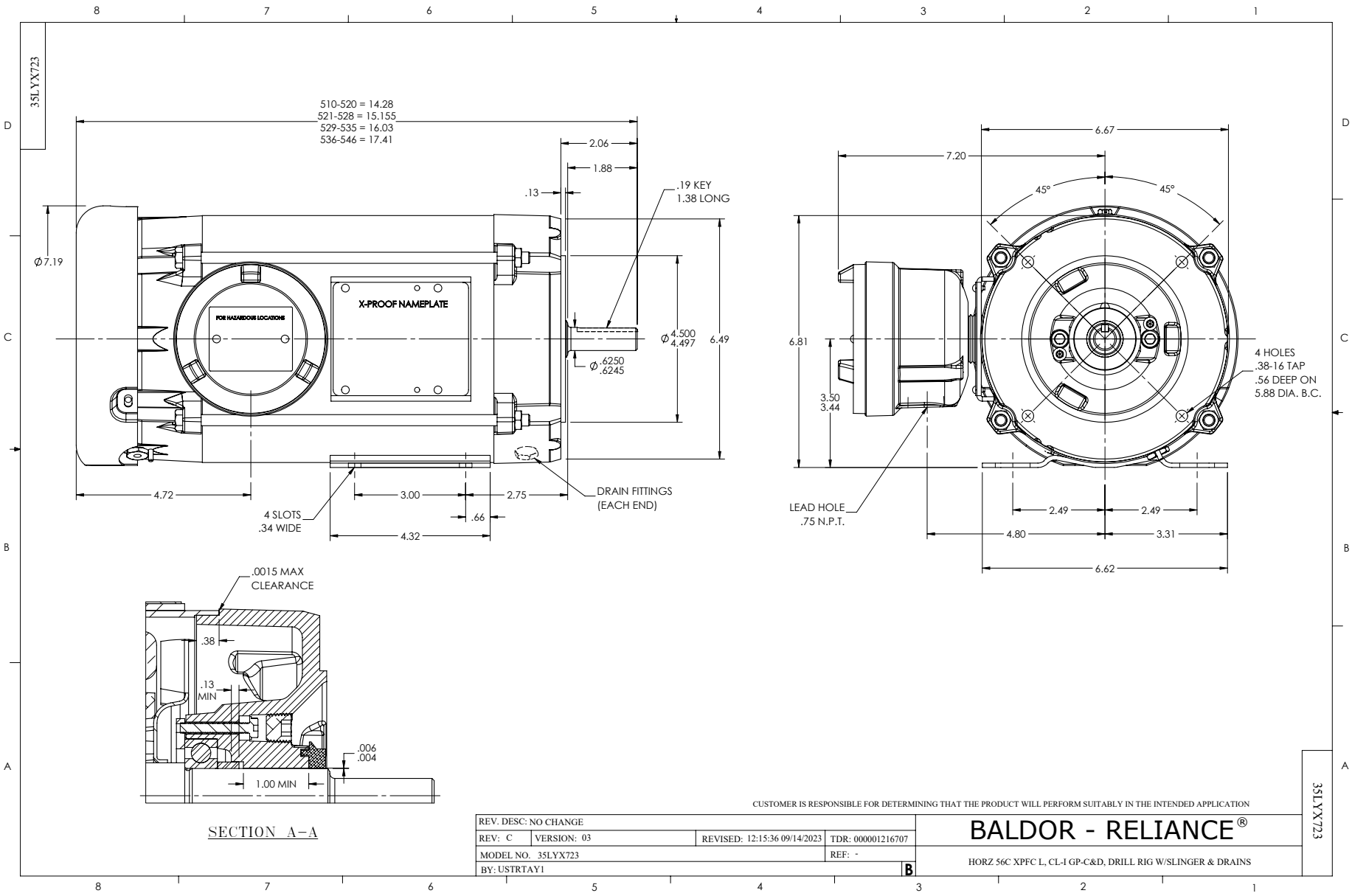
Winding: 35WGG869-R001	**Type:** 3512L	**Enclosure:** XPFC

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			.33	**Full Load Torque**	1 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			6.4/3.2	**Breakdown Torque**	2.8 LB-FT
R.P.M.			1740	**Pull-up Torque**	2.3 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	3.6 LB-FT
NEMA Design Code	N	**KVA Code**	N	**Starting Current**	33.3 A
Service Factor (S.F.)			1.15	**No-load Current**	5.38 A
NEMA Nom. Eff.	54	**Power Factor**	62	**Line-line Res. @ 25ºC**	1.88 Ω A Ph 4.22 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	69°C
S.F. Amps				**Temp. Rise @ S.F. Load**	72°C
				Locked-rotor Power Factor	97.5
				Rotor inertia	0.0866 lb-ft²

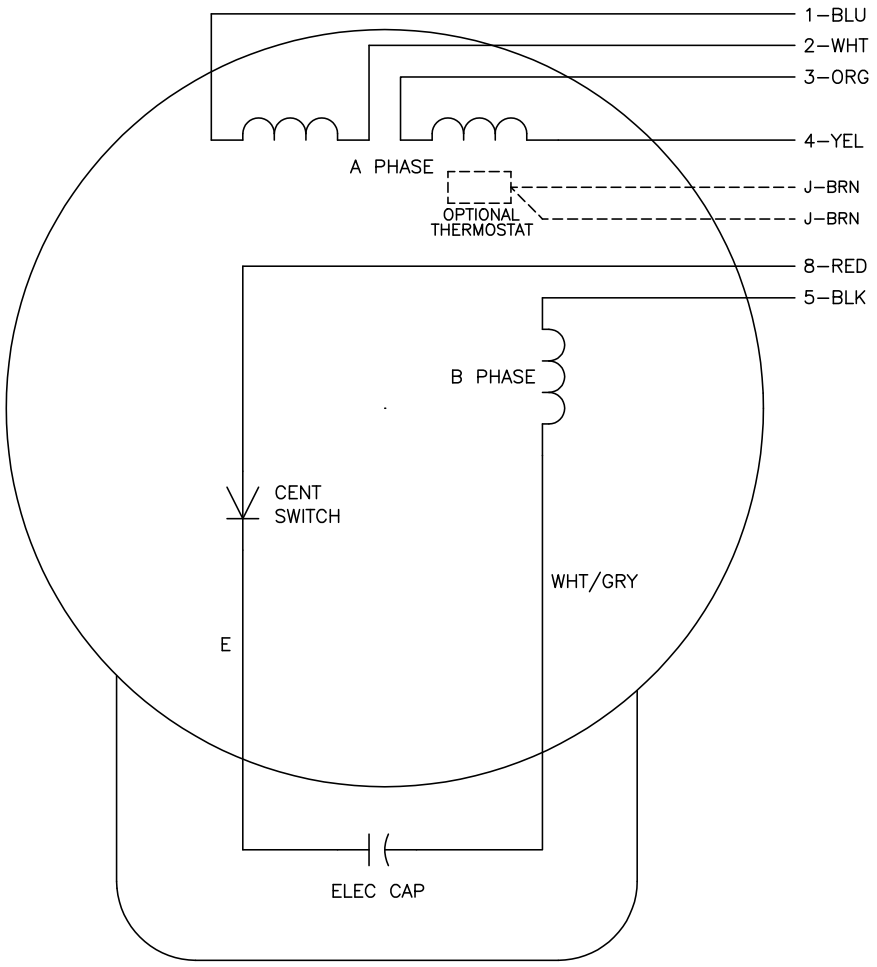
Load Characteristics 115 V, 60 Hz, 0.33 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	35	45	54	62	68	74	66
Efficiency	28.3	43	50.1	54.3	55.9	55.4	55.3
Speed	1781	1769	1754	1737	1718	1694	1726
Line amperes	5.39	5.58	5.93	6.39	7.03	7.82	6.77


ABB Motors and Mechanical Inc.
WINDING # 35WGG869
Typical performance - not guaranteed values.
0.33 HP 1 PH 60 HZ 1740 RPM 115 V 3512L
TORQUES(LB-FT): PO=2.8 PU=2.3 LR=3.6 LRA=33.3
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0
2.0 1.9 1.8 1.7 1.6 1.5 1.4 1.3 1.2 1.1 1.0 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0
1,800 1,790 1,780 1,770 1,760 1,750 1,740 1,730 1,720 1,710 1,700 1,690 1,680 1,670 1,660 1,650 1,640 1,630 1,620 1,610 1,600
1,000 950 900 850 800 750 700 650 600 550 500 450 400 350 300 250 200 150 100 50 0
10.0 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0
0 25 50 75 100 125 150
PERCENT OF RATED OUTPUT (0.33 HP)
11/15/2026 ACPERF, record # 101433


35LYX723
510-520 = 14.28
521-528 = 15.155
529-535 = 16.03
536-546 = 17.41
2.06
1.88
.13
.19 KEY
1.38 LONG
Ø7.19
X-PROOF NAMEPLATE
FOR HAZARDOUS LOCATIONS
Ø 4.500
4.497
6.49
Ø .6250
.6245
4.72
3.00
2.75
.66
4.32
4 SLOTS
.34 WIDE
DRAIN FITTINGS
(EACH END)
6.67
7.20
45°
45°
6.81
3.50
3.44
4 HOLES
.38-16 TAP
.56 DEEP ON
5.88 DIA. B.C.
LEAD HOLE
.75 N.P.T.
2.49
2.49
4.80
3.31
6.62
.0015 MAX
CLEARANCE
.38
.13
MIN
.006
.004
1.00 MIN
SECTION A–A
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NO CHANGE
REV: C
VERSION: 03
REVISED: 12:15:36 09/14/2023
TDR: 000001216707
MODEL NO. 35LYX723
REF: -
BY: USTRTAY1
B
BALDOR - RELIANCE®
HORZ 56C XPFC L, CL-I GP-C&D, DRILL RIG W/SLINGER & DRAINS
35LYX723

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			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:16	TDR: 0178636
CD0001		FILE: AAA00007405	MDL: –
		MTL: –	TYPE L, DV, REV, 6 LEADS