

ABB BALDOR RELIANCE III

Customer information packet

L3710T

7.5HP, 1745RPM, 1PH, 60HZ, 215T, 3734LC, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	7.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	C UR US
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	29.000 A @ 230.0 V 31.000 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	29.0 a
Insulation Class	F

Part Detail

Revision	L
Type	AC
Mech. spec.	37M307
Base	
Status	PRD/A
Elec. spec.	37WGT876
Layout	37LYM307
Eff. date	09-19-2025
CD Diagram	CD0086
Poles	04
Leads	2#10 A PH,2#14 B PH
Proprietary	False
Created date	01-21-2010

Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 10 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3734LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.02 IN
Power Factor	97
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1745 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

NP1256L									
CAT.NO.	L3710T								
SPEC.	37M307T876								
HP	7.5								
VOLTS	208-230								
AMP	31-29								
RPM	1745								
FRAME	215T		HZ	60			PH	1	
SER.F.	1.00	CODE	G	DES	L	CLASS	F		
NEMA-NOM-EFF	86.5	PF	97						
RATING	40C AMB-CONT								
CC									
DE	6307		ODE	6206					
ENCL	TEFC	SN							

Parts List

Part number	Description	Quantity
SA189994	SA 37M307T876	1.000 ea
RA177683	RA 37M307T876	1.000 ea
OC3050F09SP	CAPACITOR 50 MFD 370 VAC	1.000 ea
OC3035F09SP	CYL OIL CAP 35MFD/370V	1.000 ea
EC1216C06SP	ELEC CAP, 216-259 MFD, 250V, 2.06D X 4.	3.000 ea
37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
37EP3101A01	FR ENDPLATE, FOR ROUTING PURPOSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 ea
37CB5001A21	ENCL, A01 BOX W/LID, GASKETS & 1.09 LEAD	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP3100A01	PUEP ASSEMBLY - ROUTING PUPROSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
07FH4007A06	IEC FH W/GRS, NOT @6, 3 F/C HOL & NOT FO	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.028 ga
SP5172A03	37 TYPE L TORQ STAT SWITCH LEAD ASSEMBLY	1.000 ea
HA3104A17	5/16-18X13.250 T-BLT/OHIO	4.000 ea
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	10.000 ea
NS2605	INSULATOR FOR 37 FRAMESWITCH (MH1011A10)	1.000 ea
LC0086	CONNECTION LABEL	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea

MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

Accessories

Part number	Description	Multiplier
37-3301	C FACE KIT	P1

AC Induction Motor Performance Data

Record # 68287

Typical performance - not guaranteed values

Winding: 37WGT876-R012			Type: 3734LC		Enclosure: TEFC		
Nameplate Data				230 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		7.5		Full Load Torque		22.61 LB-FT	
Volts		208-230		Start Configuration		direct on line	
Full Load Amps		31-29		Breakdown Torque		70.1 LB-FT	
R.P.M.		1745		Pull-up Torque		37.3 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		66.3 LB-FT	
NEMA Design Code		L	KVA Code	G	Starting Current		184 A
Service Factor (S.F.)		1		No-load Current		5.37 A	
NEMA Nom. Eff.		86.5	Power Factor	97	Line-line Res. @ 25°C		0.27231 Ω A Ph 0.64764 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		86°C	

Load Characteristics 230 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	91	96	97	97	97	96
Efficiency	73	84.6	87.5	87.6	85.5	81.7
Speed	1786.7	1774.6	1761.5	1745.4	1725.9	1700.6
Line amperes	9.1	14.9	21.4	28.6	36.8	46.8

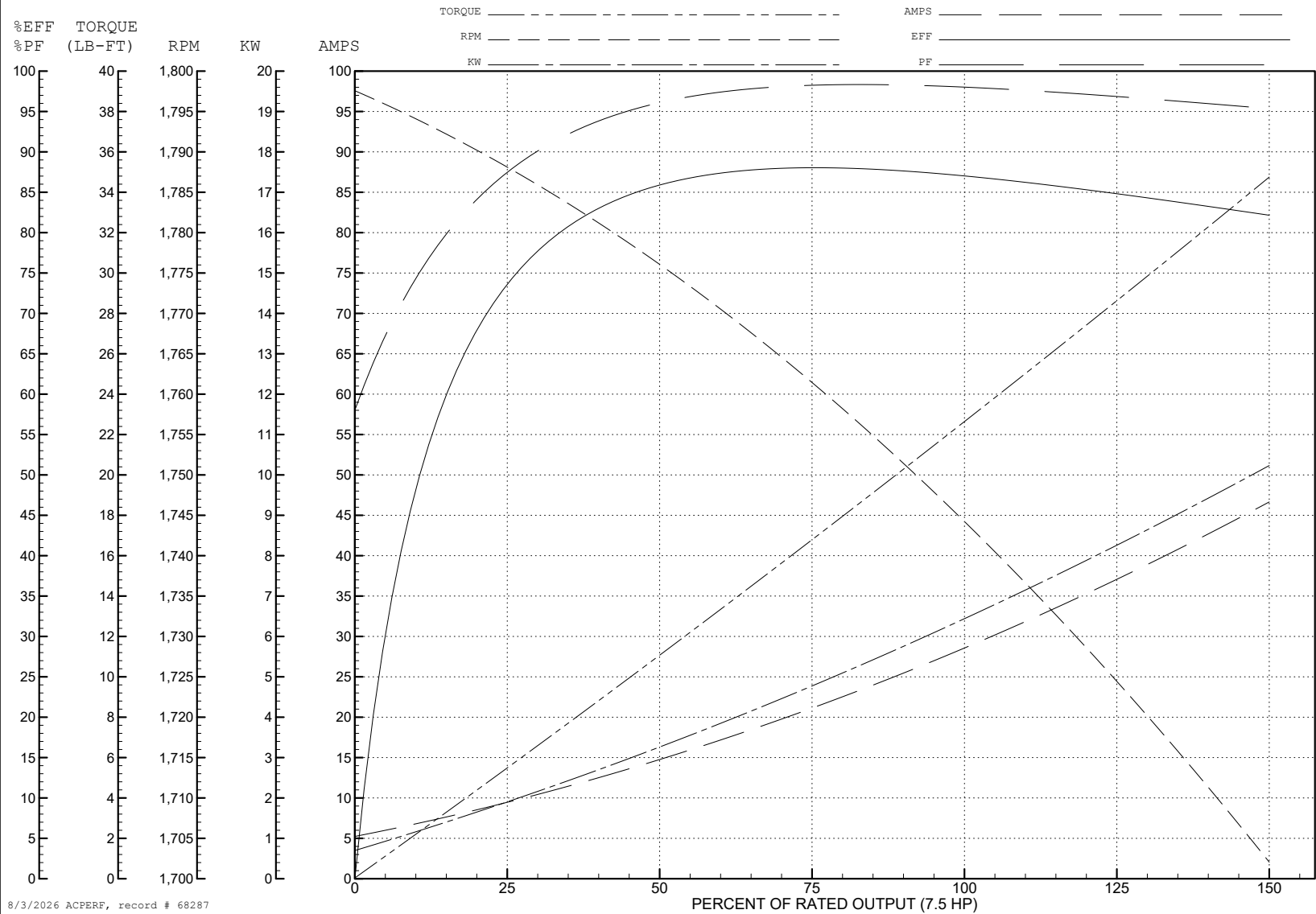
ABB Motors and Mechanical Inc.

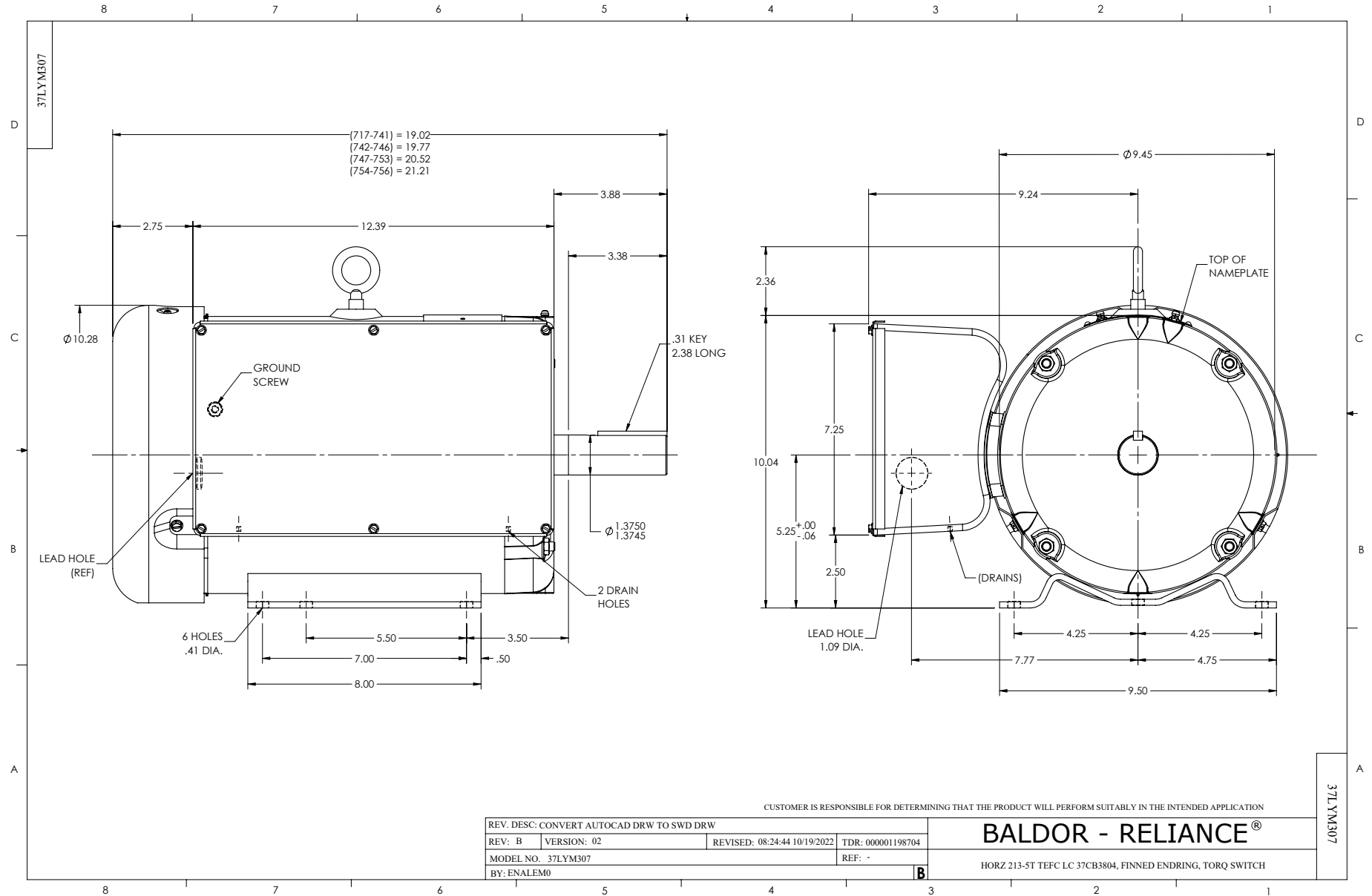
WINDING # 37WGT876

Typical performance - not guaranteed values.

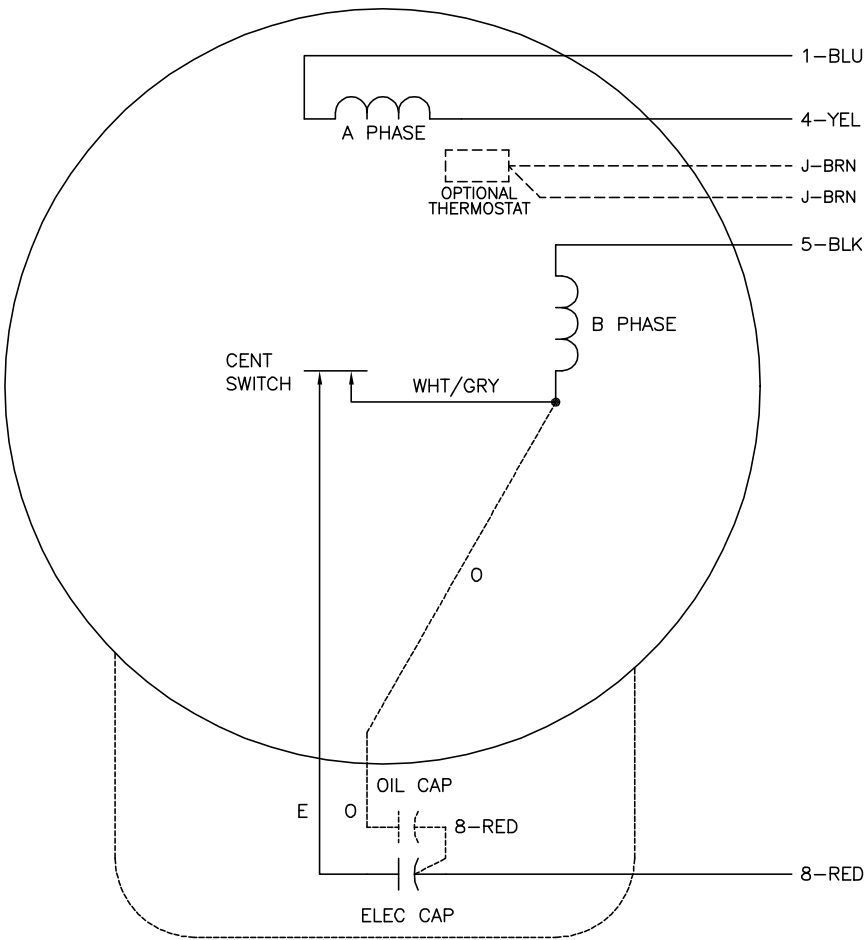
7.5 HP 1 PH 60 HZ 1745 RPM 230 V 3734LC

TORQUES (LB-FT): PO=70.1 PU=37.3 LR=66.3 LRA=184





CD0086



	LINE A	LINE B
STD	1,8	4,5
OPP	1,5	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. OPTIONAL OIL CAPACITOR IS PROVIDED WHEN SPECIFIED.
 - 5. CAPACITORS MAY BE SEPERATELY MOUNTED.
 - 6. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADDED CK TO PLANT CODE			
REV. LTR: F	BY: JD	REVISED: 16:01:12 01/07/2002	TDR: 259409
980000		FILE: AAA00026904	REF: CD0086
		MTL: -	

BALDOR ELECTRIC Co.

TYPE L OR LC, SV, REV, 4 LEADS, CAPS MAY BE SEP MTD

CD0086