



Customer information packet

L3503-50

.5/KW .37, 2895RPM, 1PH, 50HZ, 56, 3420LC, TEF

ABB Ltd Drives

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56
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	.370 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	4.900 A @ 110.0 V 2.450 A @ 220.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	69.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part detail

Revision	E
Type	AC
Mech. spec.	34G375
Base	
Status	PRD/A
Elec. spec.	34WGR747
Layout	34LYG375
Eff. date	10-25-2024
CD Diagram	CD0055
Poles	02
Leads	6#18
Proprietary	False
Created date	02-14-2023

Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J
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	3420LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.97 IN
Power Factor	93
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	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	2895 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.	L3503-50								
SPEC.	34G375R747G1								
HP	.5/KW .37								
VOLTS	110/220								
AMP	4.9/2.45								
R.P.M. (1/MIN)	2895								
FRAME	56		HZ	50			PH	1	
SER.F.	1.25	CODE	J	DES	-	CL	B		
NEMA-NOM-EFF	69.5	PF	93						
RATING	40C AMB-S1 CONT								
CC			IP44 KG12 IC411						
DE	6203		ODE	6203					
ENCL	TEFC	SN							
	IE2-50HZ 68(75%),62 (50%)								

Parts list

Part number	Description	Quantity
SA411535	SA 34G375R747G1	1.000 ea
RA403179	RA 34G375R747G1	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
34GS1029A01	GASKET, CONDUIT BOX	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	3.000 ea
34EP3102A01SP	FR ENDPLATE, MACH	1.000 ea
34CB3801	CAPACITOR BOX, DIE CAST	1.000 ea
34GS3002	GASKET, CAPACITOR BOX	1.000 ea
51XB1214A08	12-14 X 1/2HX WS SL SR TYBX	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3102A02SP	FR/PU ENDPLATE, MACH	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
34FH4002A01SP	IEC FH NO GREASER PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
34CB4517	CB LID 4 MTG HOLES .22 DIA STAMPED, FOR	1.000 ea
34GS1031A01	GASKET, FLAT CONDUIT BOX LID (LEXIDE)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
34GS5003A01	FOAM SLEEVE, ID = 2 1/16" X 4 3/8"	3.000 ea
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
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/22	1.000 ea
LC0001A01	CONN LABEL / WARNING LABEL (LC0001 / LB1	1.000 ea

NP1372L	ALUM UL CE UKCA WEEE CC, A60	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A06	1.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 ea
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 ea

Accessories

Part number	Description	Multiplier
34-171	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 101492

Typical performance - not guaranteed values

Winding: 34WGR747-R001			Type: 3420LC		Enclosure: TEFC	
Nameplate Data				220 V, 50 Hz: High Voltage Connection		
Rated Output (KW)		.37		Full Load Torque		0.8999 LB-FT
Volts		110/220		Start Configuration		direct on line
Full Load Amps		4.9/2.45		Breakdown Torque		2.33 LB-FT
R.P.M.		2850		Pull-up Torque		1.53 LB-FT
Hz	50	Phase	1	Locked-rotor Torque		2.74 LB-FT
NEMA Design Code		- KVA Code		Starting Current		18 A
Service Factor (S.F.)		1.25		No-load Current		1.08 A
NEMA Nom. Eff.		69.5	Power Factor	93	Line-line Res. @ 25°C 5.0949 Ω A Ph 3.7473 Ω B Ph	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		41°C
S.F. Amps		6/3		Temp. Rise @ S.F. Load		57°C

Load Characteristics 220 V, 50 Hz, 0.37 KW

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	72	83	90	93	95	95	95
Efficiency	47.5	63.9	71.3	74.2	74.9	73.8	74.9
Speed	2970.3	2950.1	2926	2897.9	2867.8	2826.1	2868
Line amperes	1.27	1.58	1.96	2.44	2.94	3.58	2.94

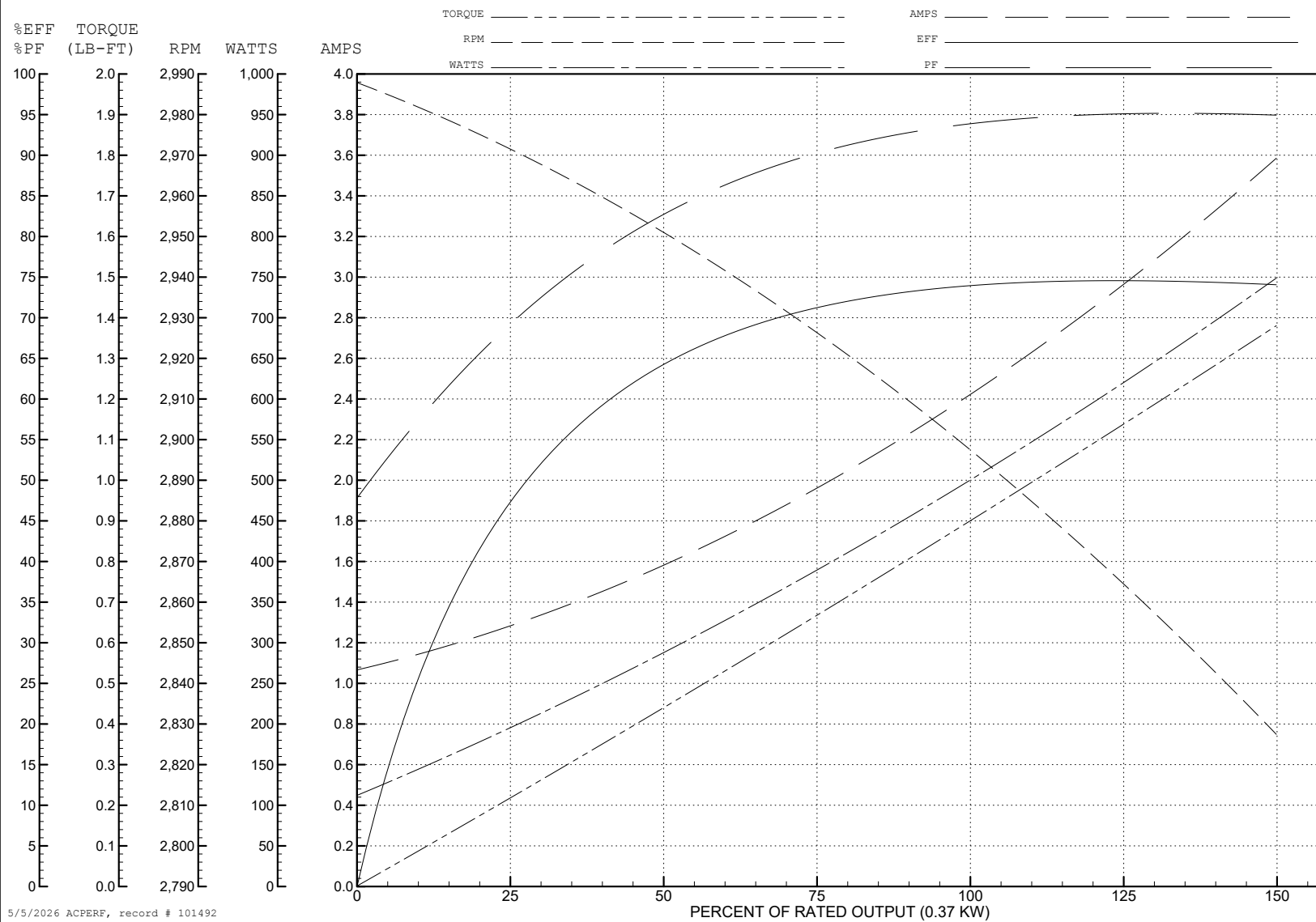
ABB Motors and Mechanical Inc.

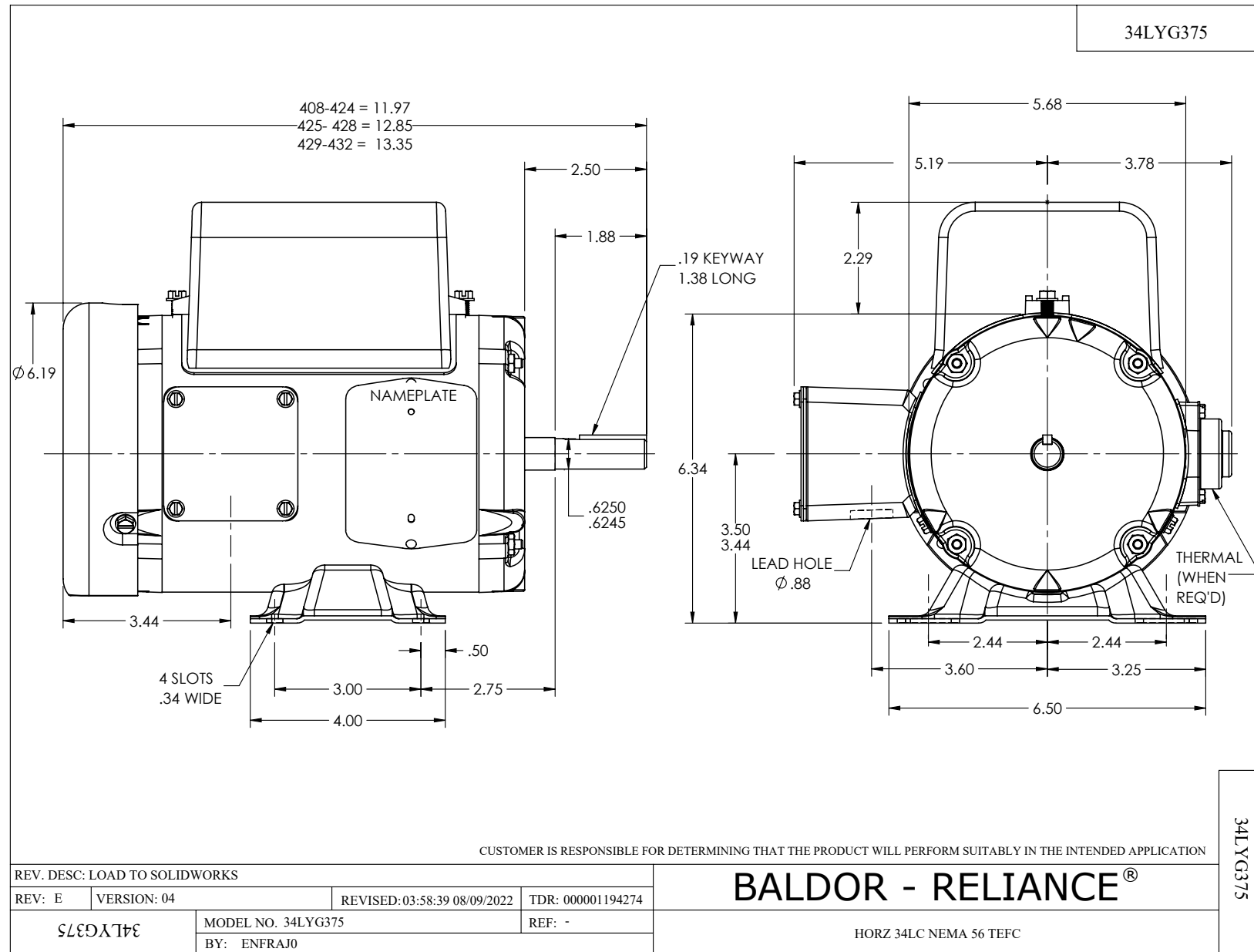
WINDING # 34WGR747

Typical performance - not guaranteed values.

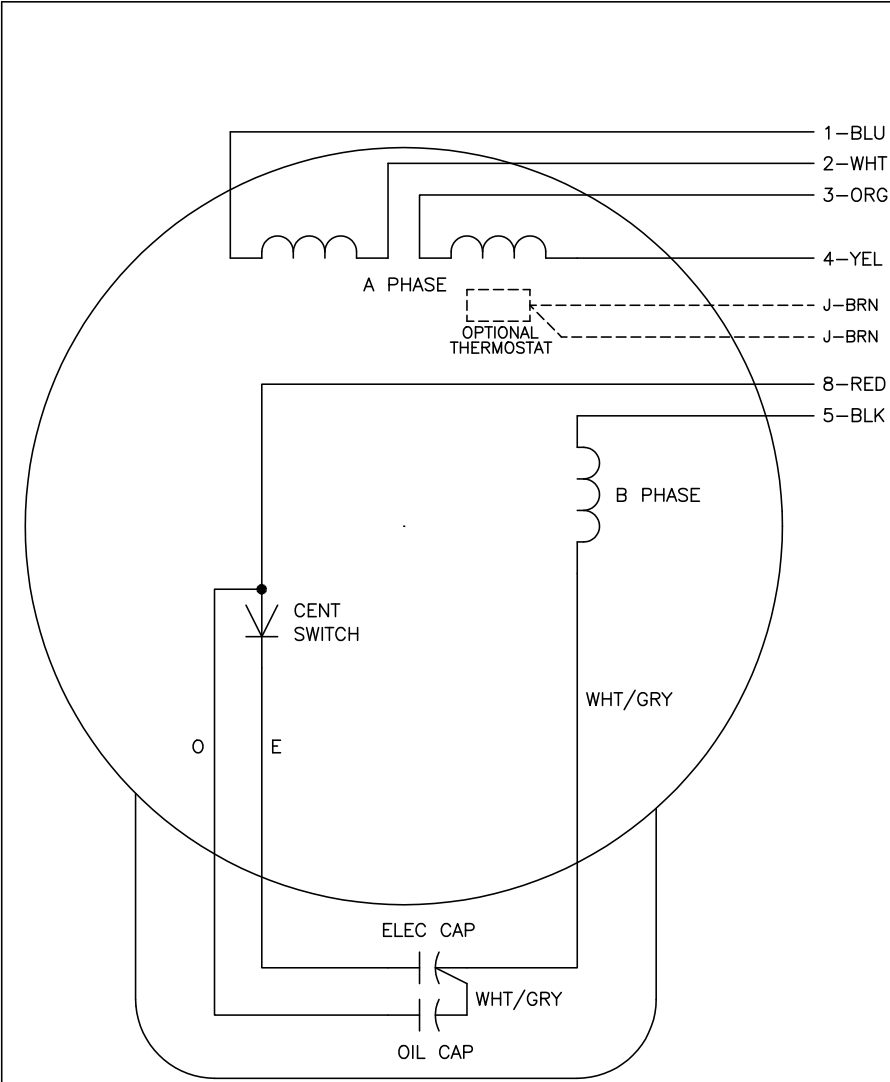
0.37 KW 1 PH 50 HZ 2850 RPM 220 V 3420LC

TORQUES (LB-FT): PO=2.33 PU=1.53 LR=2.74 LRA=18





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:17	TDR: 0178636
SS0000		FILE: AAA00007414	MDL: —
		MTL: —	

BALDOR ELECTRIC Co.	
TYPE LC, DV, REV, 6 LEADS	

CD0055