

BALDOR® • **RELIANCE**

Product Information Packet

VL3513

1.5HP,3450RPM,1PH,60HZ,56C,3524L,TEFC,F1

Part Detail							
Revision:	AG	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGY748	CD Diagram:	CD0001	Mfg Plant:	
Mech. Spec:	35C013	Layout:	35LYC013	Poles:	02	Created Date:	06-21-2007
Base:	N	Eff. Date:	11-03-2017	Leads:	4#16 A PH,2#18 B PH		

Specs			
Catalog Number:	VL3513	Insulation Class:	B
Enclosure:	TEFC	Inverter Code:	Not Inverter
Frame:	56C	KVA Code:	J
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	1.500 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	4 @ 16 AWG, A PH
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	115.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3524L
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	85
	UR	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	No Mounting	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	RoHS Status:	ROHS COMPLIANT
Current @ Voltage:	16.000 A @ 115.0 V	Shaft Extension Location:	Pulley End

	8.000 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding
	8.400 A @ 208.0 V	Shaft Rotation:	Reversible
Design Code:	L	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP1256L										
CAT.NO.	VL3513									
SPEC.	35C013Y748									
HP	1.5									
VOLTS	115/230									
AMP	16/8									
RPM	3450									
FRAME	56C				HZ	60			PH	1
SER.F.	1.15		CODE	J	DES	L		CLASS	B	
NEMA-NOM-EFF	70		PF	85						
RATING	40C AMB-CONT									
CC								USABLE AT 208V	8.4	
DE	6205				ODE	6203				
ENCL	TEFC		SN							

AC Induction Motor Performance Data

Record # 10315 - Typical performance - not guaranteed values

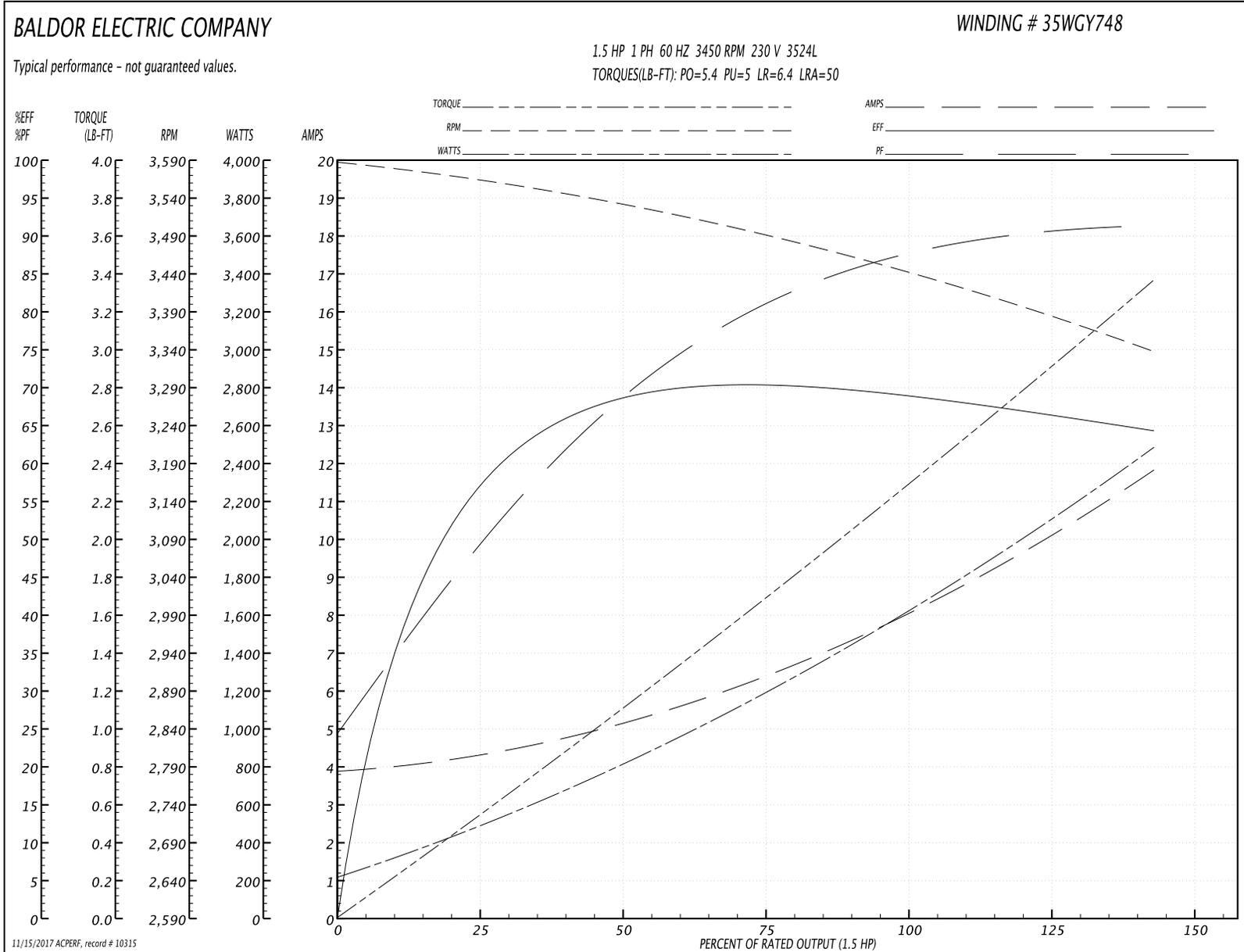
Winding: 35WGY748-R001	Type: 3524L	Enclosure: TEFC
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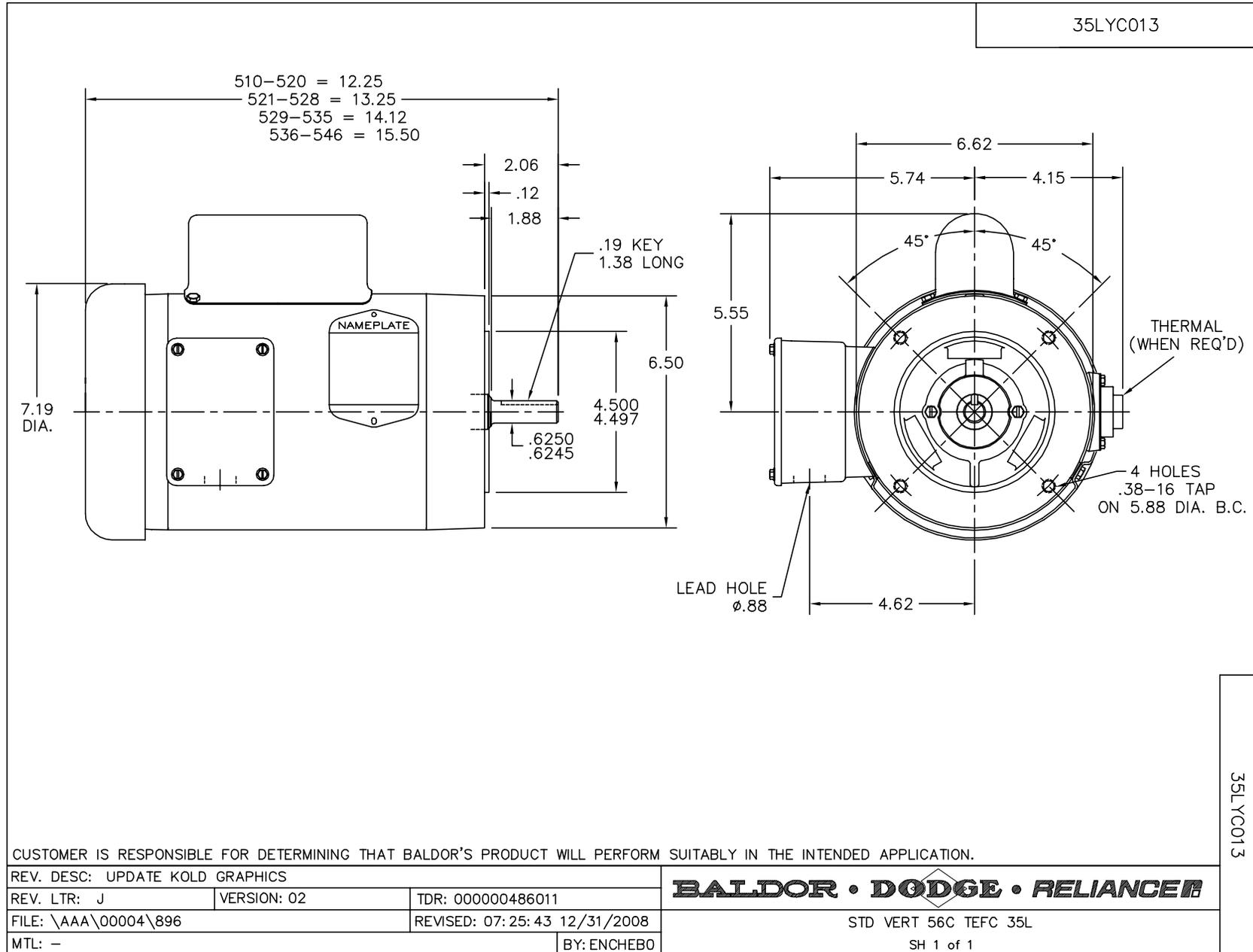
Nameplate Data				230 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1.5			Full Load Torque	2.25 LB-FT
Volts	115/230			Start Configuration	direct on line
Full Load Amps	16/8			Breakdown Torque	5.4 LB-FT
R.P.M.	3450			Pull-up Torque	5 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	6.4 LB-FT
NEMA Design 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

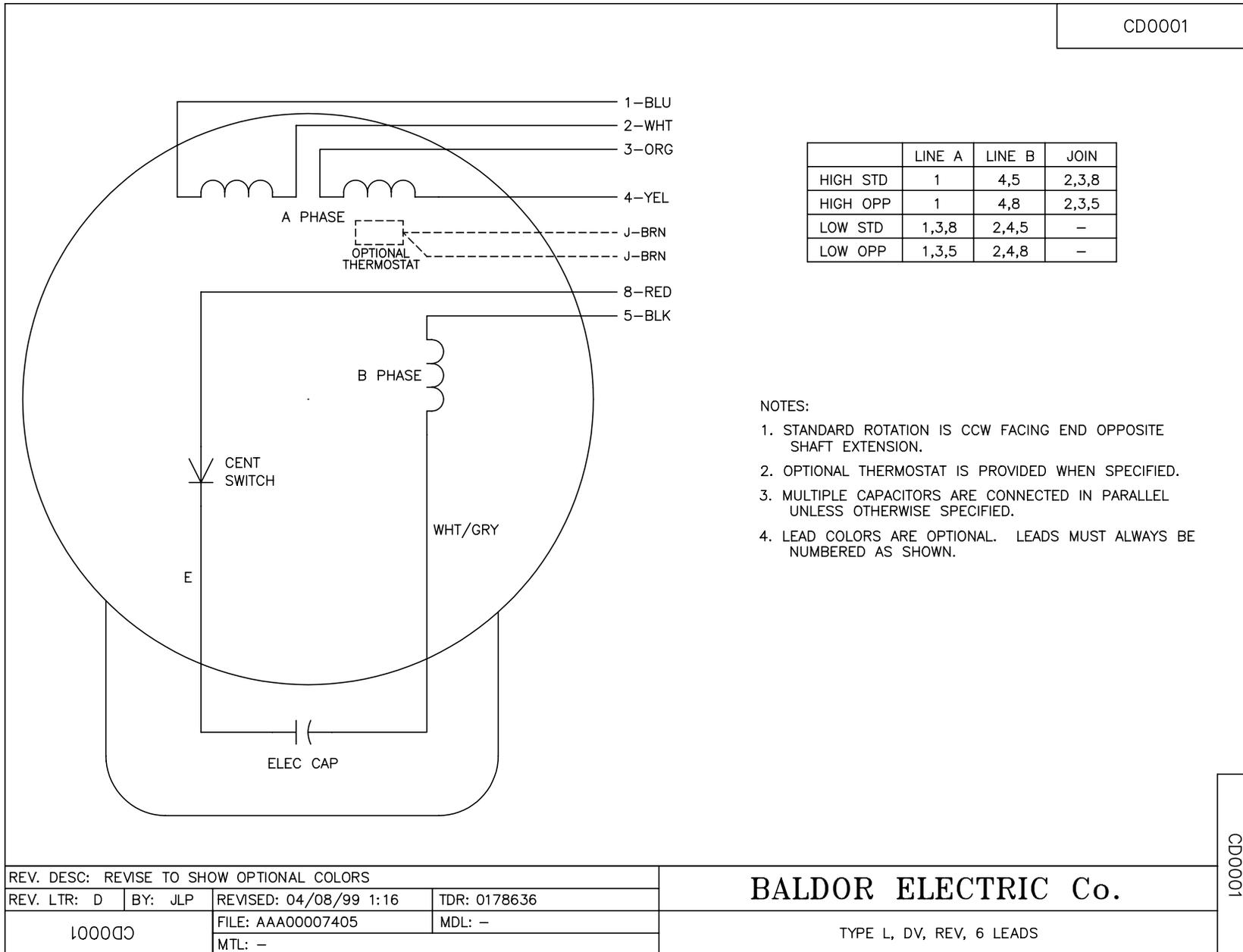
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	68	78	85	89	90	87
Efficiency	56	68	70	70	67	64	69.5
Speed	3560	3530	3490	3450	3395	3335	3430
Line amperes	4.3	5.2	6.3	8	9.8	11.8	9

Performance Graph at 230V, 60Hz, 1.5HP Typical performance - Not guaranteed values





CD0001



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