ABB BALDOR RELIANCE

Customer information packet

FDEM3558T

2HP, 1750RPM, 3PH, 60HZ, 145T, 3526M, TEFC, F1
Class - None
Division - Not Applicable

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11/18/2026 2:41:39 AM

Specifications

Enclosure	TEFC
Frame	145T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
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	2.600 A @ 460.0 V
	5.200 A @ 230.0 V
	5.800 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.6 a

Part Detail

Revision	-
Type	AC
Mech. spec.	35E2354
Base	
Status	PRD/A
Elec. spec.	35WGZ165
Layout	35LYE2354
Eff. date	02-19-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	11-04-2025

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3526M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.29 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1750 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

	NP3126L									
CAT.NO.	FDEM3558T									
SPEC.	35E2354Z165									
HP	2									
VOLTS	230/460									
AMP	5.6/2.8									
RPM	1760									
FRAME	145T	**HZ**	60				**PH**	3		
SER.F.	1.15	**CODE**	K	**DES**	B	**CL**	F			
NEMA-NOM-EFF	86.5	**PF**	78							
RATING	40C AMB-CONT									
CC	010A									
DE	6205	**ODE**	6203							
ENCL	TEFC	**SN**								
	SFA 6.3/3.15									

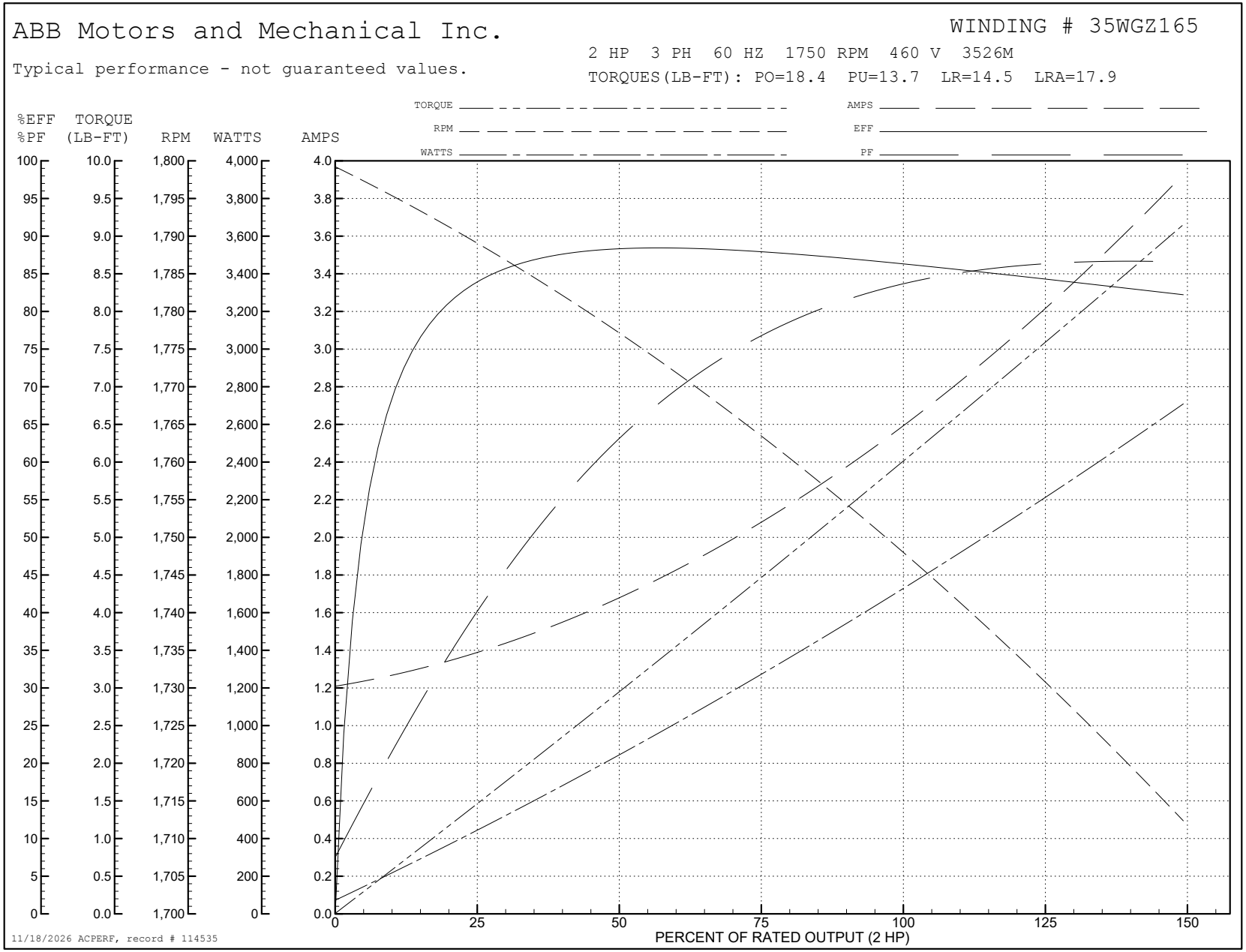
AC Induction Motor Performance Data
Record # 114535
Typical performance - not guaranteed values

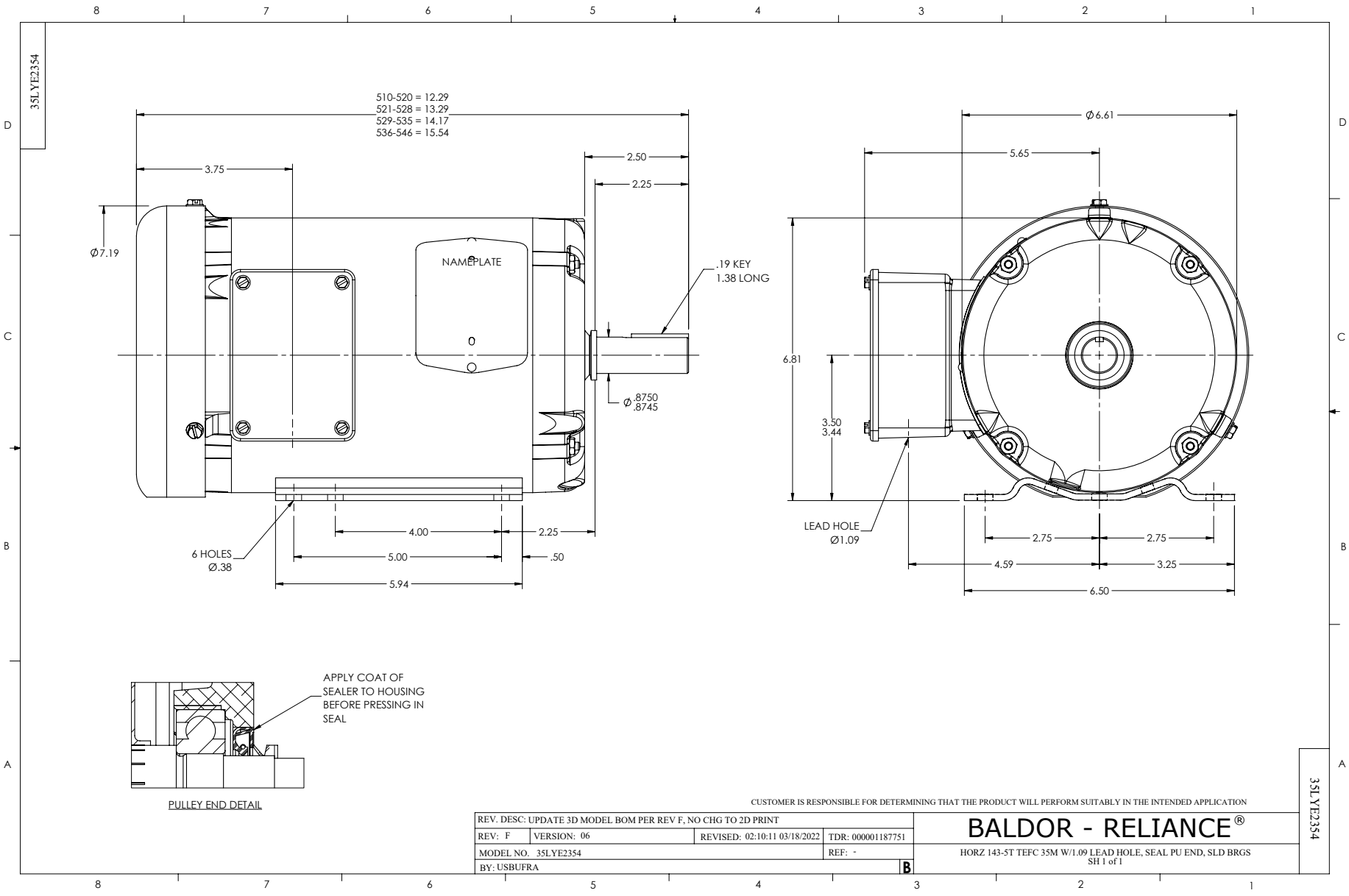
Winding: 35WGZ165-R001	**Type:** 3526M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	5.979 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			5.2/2.6	**Breakdown Torque**	18.4 LB-FT
R.P.M.			1750	**Pull-up Torque**	13.7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	14.5 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	17.9 A
Service Factor (S.F.)			1.15	**No-load Current**	1.24 A
NEMA Nom. Eff.	86.5	**Power Factor**	82	**Line-line Res. @ 25ºC**	10.857 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	59°C
S.F. Amps			6/3	**Temp. Rise @ S.F. Load**	75°C
				Locked-rotor Power Factor	59.3

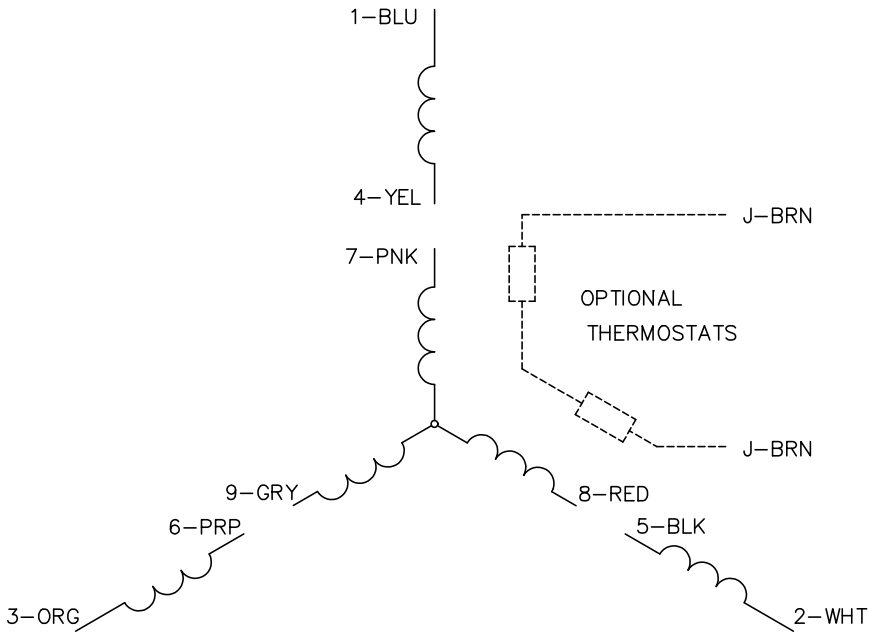
Load Characteristics 460 V, 60 Hz, 2 HP

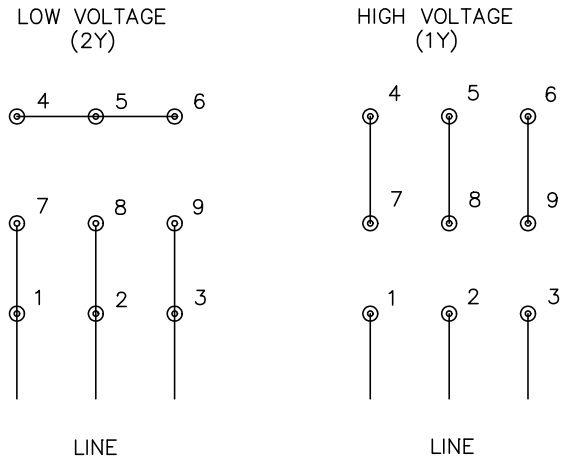
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	64	76	82	86	87	84
Efficiency	82.7	87.6	87.8	86.6	84.6	82	85.4
Speed	1788.4	1776.9	1763.5	1748.9	1731.7	1711.8	1739
Line amperes	1.35	1.65	2.09	2.61	3.21	3.91	2.97


ABB Motors and Mechanical Inc.
WINDING # 35WGZ165
Typical performance - not guaranteed values.
2 HP 3 PH 60 HZ 1750 RPM 460 V 3526M
TORQUES(LB-FT): PO=18.4 PU=13.7 LR=14.5 LRA=17.9
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
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
1,800 1,795 1,790 1,785 1,780 1,775 1,770 1,765 1,760 1,755 1,750 1,745 1,740 1,735 1,730 1,725 1,720 1,715 1,710 1,705 1,700
4,000 3,800 3,600 3,400 3,200 3,000 2,800 2,600 2,400 2,200 2,000 1,800 1,600 1,400 1,200 1,000 800 600 400 200 0
4.0 3.8 3.6 3.4 3.2 3.0 2.8 2.6 2.4 2.2 2.0 1.8 1.6 1.4 1.2 1.0 0.8 0.6 0.4 0.2 0.0
0 25 50 75 100 125 150
PERCENT OF RATED OUTPUT (2 HP)
11/18/2026 ACPERF, record # 114535


35LYE2354
510-520 = 12.29
521-528 = 13.29
529-535 = 14.17
536-546 = 15.54
3.75
2.50
2.25
Ø7.19
NAMEPLATE
.19 KEY
1.38 LONG
Ø .8750
Ø .8745
6 HOLES
Ø.38
4.00
2.25
5.00
.50
5.94
Ø6.61
5.65
6.81
3.50
3.44
LEAD HOLE
Ø1.09
2.75
2.75
4.59
3.25
6.50
APPLY COAT OF
SEALER TO HOUSING
BEFORE PRESSING IN
SEAL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV F, NO CHG TO 2D PRINT
REV: F
VERSION: 06
REVISED: 02:10:11 03/18/2022
TDR: 000001187751
MODEL NO. 35LYE2354
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ 143-5T TEFC 35M W/1.09 LEAD HOLE, SEAL PU END, SLD BRGS
SH 1 of 1
35LYE2354

CD0005





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS