ABB BALDOR RELIANCE

Customer information packet

VLECP3774T

10HP, 1760RPM, 3PH, 60HZ, 215LP, 0748M, TEFC, F
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	215LP
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	10.000 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	CCSA US
	CSA EEV
	NEMA PREMIUM
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	1.3
Current @ Voltage	25.000 A @ 230.0 V
	12.500 A @ 460.0 V
Design Code	A
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK

Part Detail

Revision	N
Type	AC
Mech. spec.	07H347
Base	
Status	PRD/A
Elec. spec.	07WGX776
Layout	07LYH347
Eff. date	09-22-2022
CD Diagram	CD0005
Poles	04
Leads	9#14 Y
Proprietary	False
Created date	07-09-2015

Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	12.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0748M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	22.51 IN
Power Factor	82
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Thrust
Pulley Face Code	P-Base
Pulley Shaft Indicator	P-Base Groove & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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

NP3258									
CAT.NO.	VLECP3774T								
SPEC.	07H347X776G1								
HP	10 TE								
VOLTS	230/460								
AMP	25/12.5								
RPM	1760								
FRAME	215LP	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	H	**DES**	A		**CL**	F	
RATING	40C AMB-CONT								
SN									
DE	QJ211	**ODE**	6307						
NEMA-NOM-EFF	92.4	**PF**	82						
G.MIN.EFF	91	**CC**	010A						
T. CODE	T3C	**T=**	160						

NP3261					
SPEC.	07H347X776G1				
D.E. BRG.	55BZ02X00X				
O.D.E. BRG.	35BC03X30X				
GREASE	POLYREX EM				
RPM MAX	2700	**MAX. KVAR**	1.7		
BLANK					
INV.TYPE	PWM				
T=	160				
C HP FR	60	**C HP TO**	90		
CT HZ FROM	1.3	**CT HZ TO**	60		
VT HZ FROM	-0	**VT HZ TO**	60		
HTR-VOLTS	N/A	**HTR-AMPS**	N/A		
HTR-WATTS	N/A	**MAX. SPACE HEATER TEMP.**		N/A	

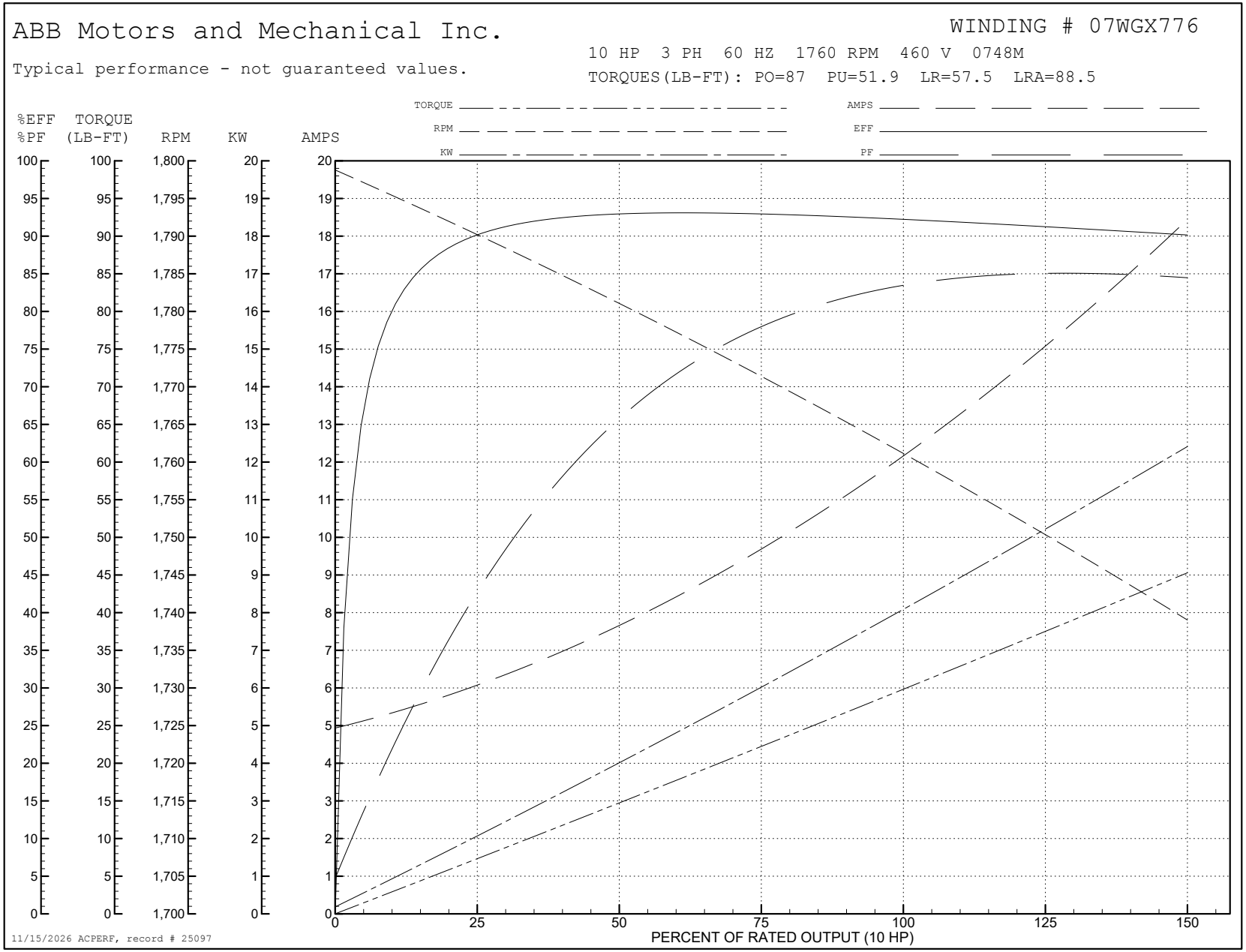
AC Induction Motor Performance Data
Record # 25097
Typical performance - not guaranteed values

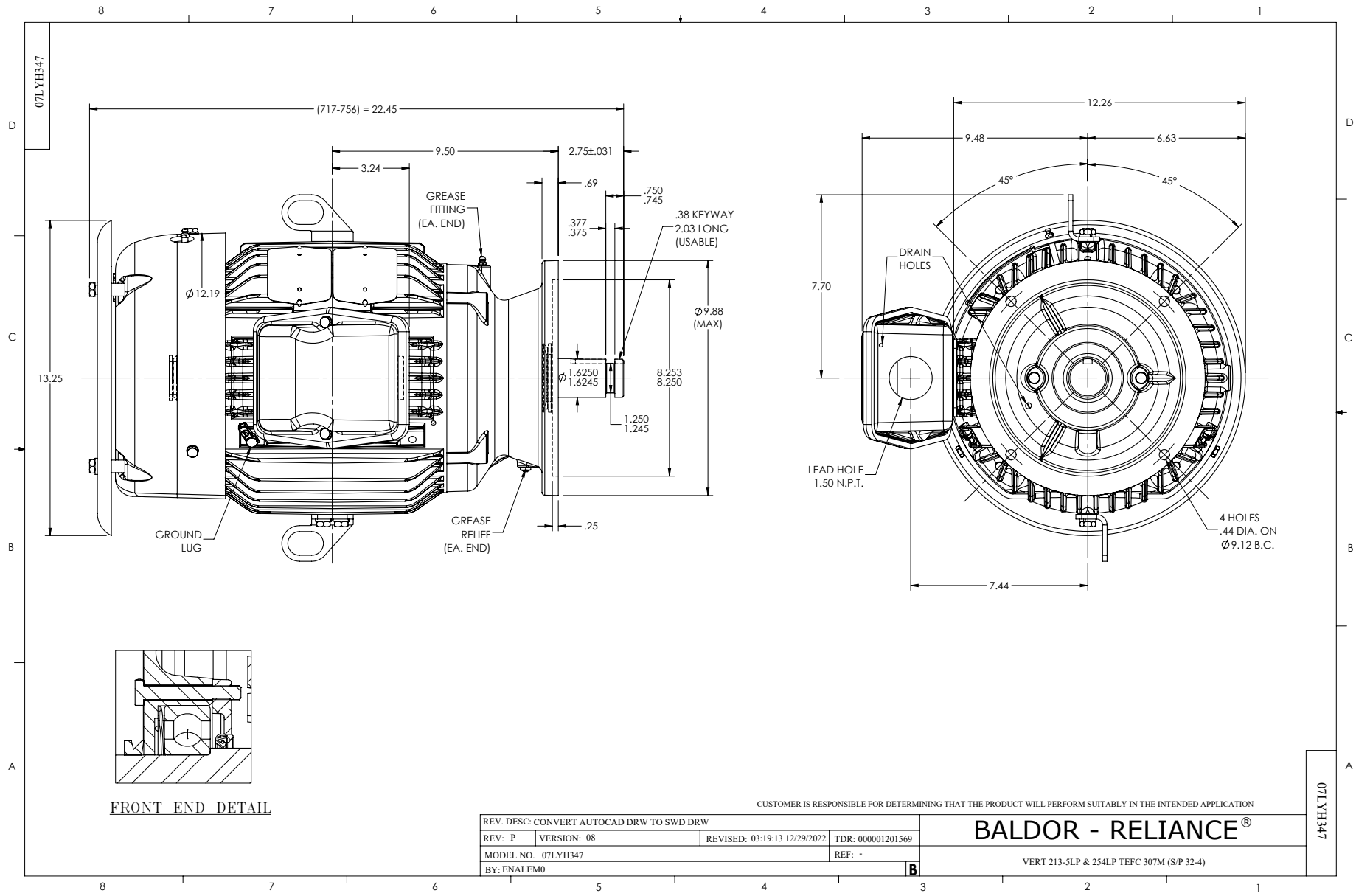
Winding: 07WGX776-R016	**Type:** 0748M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			10	**Full Load Torque**	29.8 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			25/12.5	**Breakdown Torque**	87 LB-FT
R.P.M.			1760	**Pull-up Torque**	51.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	57.5 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	88.5 A
Service Factor (S.F.)			1.15	**No-load Current**	5.12 A
NEMA Nom. Eff.	92.4	**Power Factor**	82	**Line-line Res. @ 25ºC**	0.973 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	60°C
S.F. Amps				**Temp. Rise @ S.F. Load**	76°C
				Locked-rotor Power Factor	35
				Rotor inertia	1.18 LB-FT2

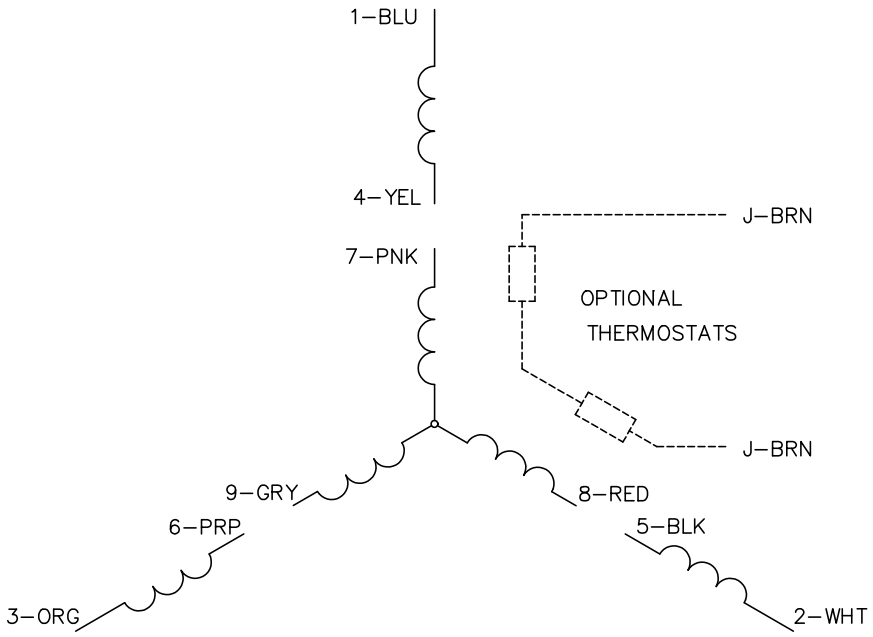
Load Characteristics 460 V, 60 Hz, 10 HP

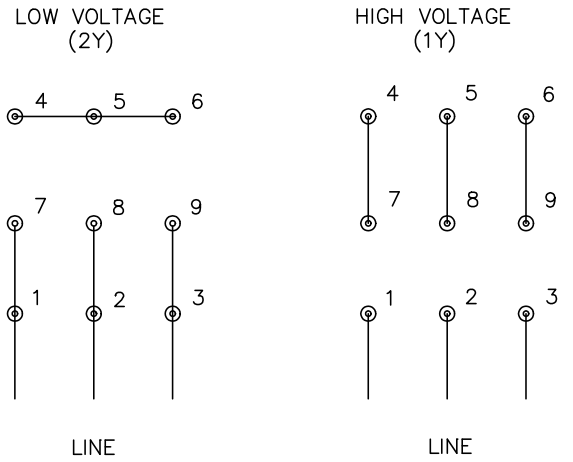
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	44	67	78	82	84	85	83
Efficiency	90	92.9	93.1	92.5	91.4	90.1	91.8
Speed	1790	1781	1771	1762	1750	1739	1755
Line amperes	5.84	7.52	9.75	12.3	15.2	18.3	14


ABB Motors and Mechanical Inc.
WINDING # 07WGX776
10 HP 3 PH 60 HZ 1760 RPM 460 V 0748M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=87 PU=51.9 LR=57.5 LRA=88.5
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/15/2026 ACPERF, record # 25097


07LYH347
(717-756) = 22.45
9.50
3.24
2.75±.031
.69
.750
.745
.377
.375
.38 KEYWAY
2.03 LONG
(USABLE)
GREASE
FITTING
(EA. END)
Ø12.19
13.25
Ø9.88
(MAX)
Ø1.6250
1.6245
8.253
8.250
1.250
1.245
.25
GROUND
LUG
GREASE
RELIEF
(EA. END)
12.26
9.48
6.63
45°
45°
7.70
DRAIN
HOLES
LEAD HOLE
1.50 N.P.T.
4 HOLES
.44 DIA. ON
Ø9.12 B.C.
7.44
FRONT END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: P
VERSION: 08
REVISED: 03:19:13 12/29/2022
TDR: 000001201569
MODEL NO. 07LYH347
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT 213-5LP & 254LP TEFC 307M (S/P 32-4)
07LYH347

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