ABB BALDOR RELIANCE

Customer information packet

CBXMN050742

.75//.5HP, 1765//1470RPM, 3PH, 60//50HZ, 56C
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPNV
Frame	56C
Frame Material	Steel
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	.500 HP @ 50 HZ
	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	UL
	CSA
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
Constant Torque Speed Range	6
Current @ Voltage	2.420 A @ 230.0 V
	2.400 A @ 208.0 V
	2.160 A @ 190.0 V
	1.210 A @ 460.0 V
	1.080 A @ 380.0 V
Design Code	B

Part Detail

Revision	D
Type	AC
Mech. spec.	35U641
Base	
Status	PRD/A
Elec. spec.	35WGG069
Layout	35LYU641
Eff. date	03-12-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	02-23-2023

Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	1.1 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3514M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.19 IN
Power Factor	74
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1470 rpm
	1765 rpm

Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0887XPSL											
NO.				**CC**							
S/N				**TEMP CODE**	T3C						
SPEC.	35U641G069			**INV.TYPE**	PWM						
CAT.NO.	CBXMN050742			**C HP FR**	60	**C HP TO**	90				
HP	.75//.5			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	2.42/1.21//2.16/1.08			**MAG CUR**	-						
RPM	1765//1470			**MX RPM**	2700						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	82.5				
SER.F.	1.00	**DES**	B	**SL HZ**	1.2	**WK2**	0.101				
FRAME	56C	**RATING**	40C AMB-CONT								
	MAG CUR 1.7/.85//1.66/.83										
	1.15 SF ON SINE WAVE										

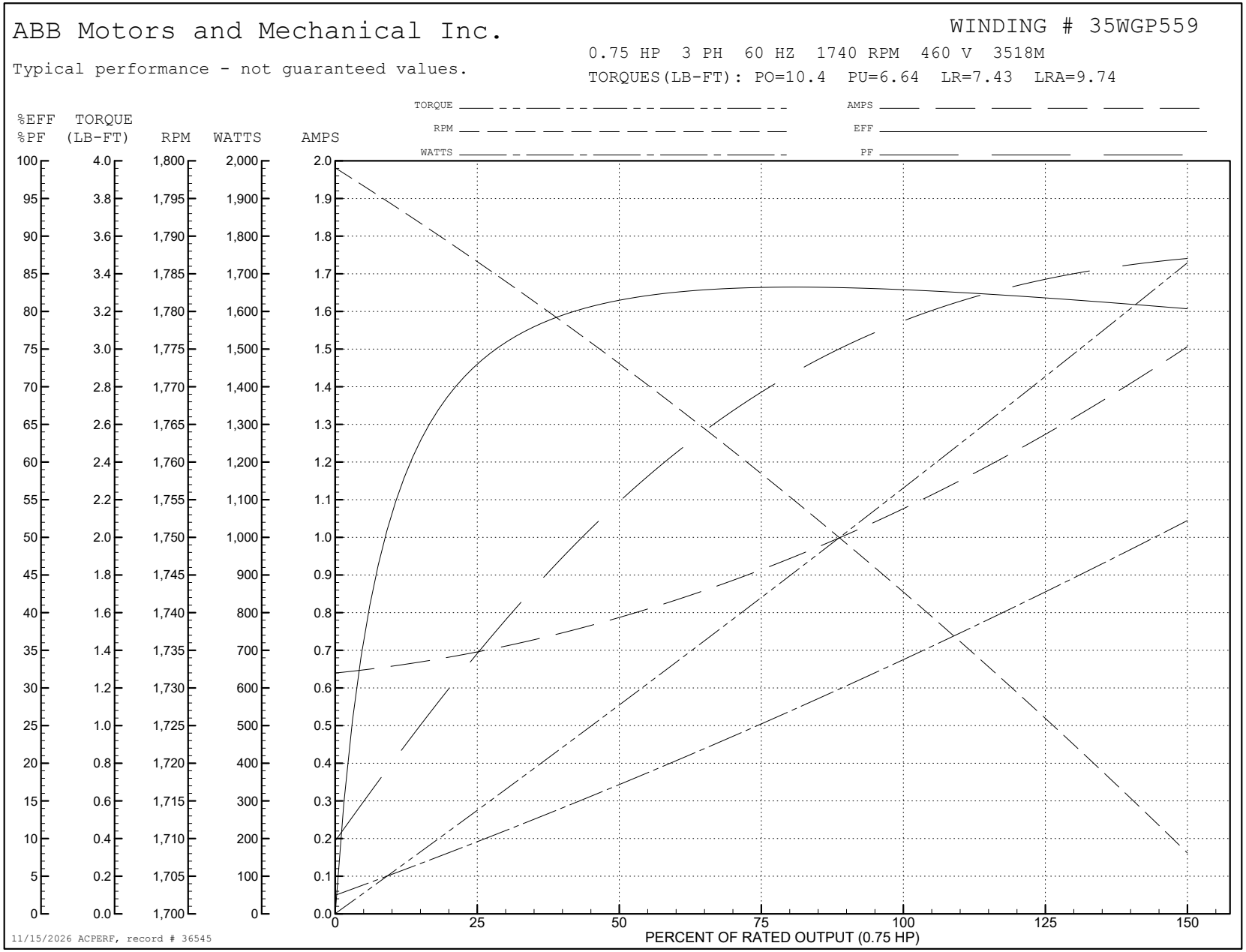
AC Induction Motor Performance Data
Record # 36545
Typical performance - not guaranteed values

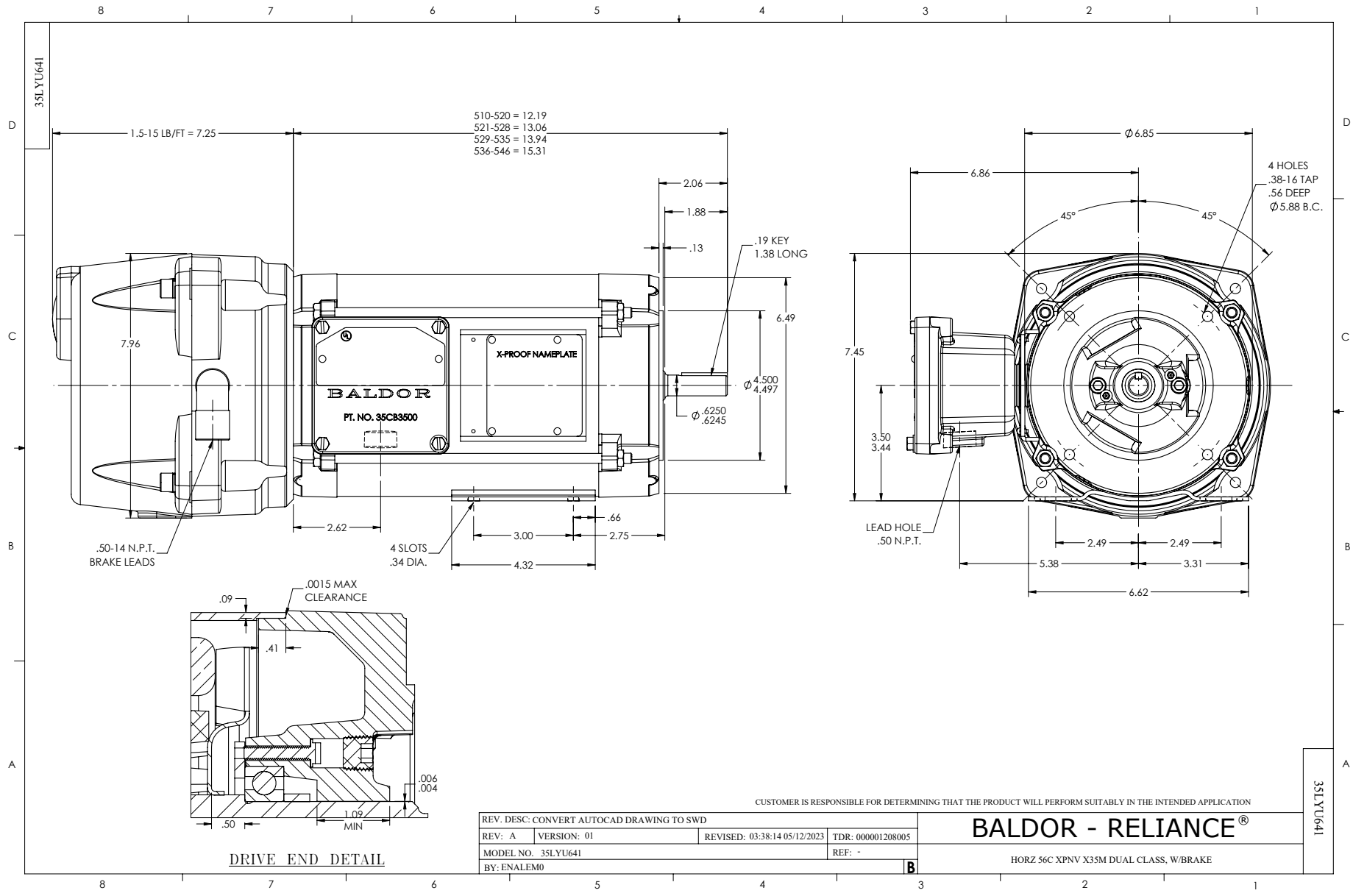
Winding: 35WGP559-R005	**Type:** 3518M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	2.27 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			2.4-2.2/1.1	**Breakdown Torque**	10.4 LB-FT
R.P.M.			1740	**Pull-up Torque**	6.64 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	7.43 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	9.74 A
Service Factor (S.F.)			1.15	**No-load Current**	0.647 A
NEMA Nom. Eff.	82.5	**Power Factor**	78	**Line-line Res. @ 25ºC**	22.2 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	78°C
S.F. Amps				**Temp. Rise @ S.F. Load**	91°C
				Locked-rotor Power Factor	64.1
				Rotor inertia	0.106 LB-FT2

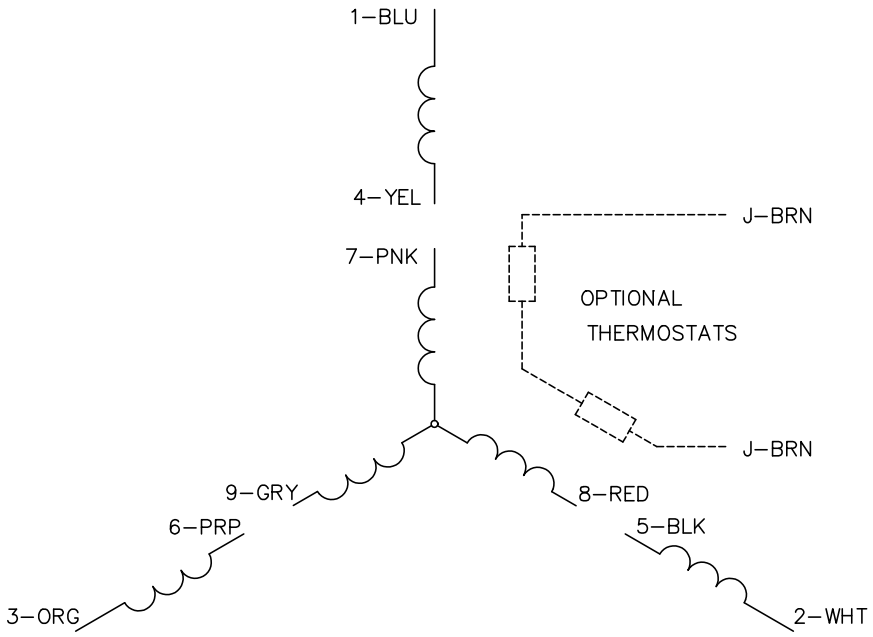
Load Characteristics 460 V, 60 Hz, 0.75 HP

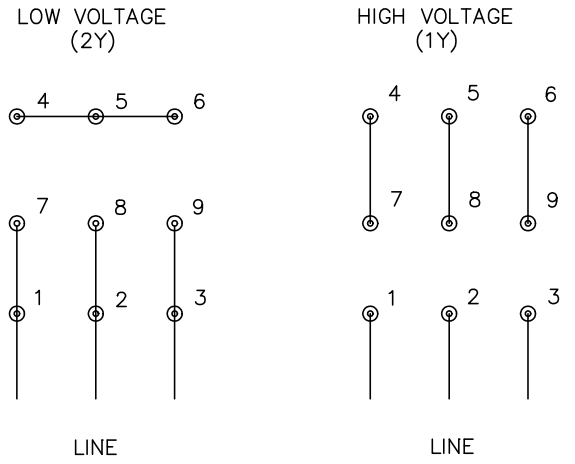
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	35	56	70	78	84	87	82
Efficiency	71.6	81.3	83.4	83.1	81.8	80.4	82.5
Speed	1787	1773	1758	1742	1727	1708	1734
Line amperes	0.686	0.783	0.916	1.09	1.27	1.5	1.19


ABB Motors and Mechanical Inc.
WINDING # 35WGP559
Typical performance - not guaranteed values.
0.75 HP 3 PH 60 HZ 1740 RPM 460 V 3518M
TORQUES(LB-FT): PO=10.4 PU=6.64 LR=7.43 LRA=9.74
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.75 HP)
11/15/2026 ACPERF, record # 36545


35LYU641
1.5-15 LB/FT = 7.25
510-520 = 12.19
521-528 = 13.06
529-535 = 13.94
536-546 = 15.31
2.06
1.88
.13
.19 KEY
1.38 LONG
6.49
7.96
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø4.500
4.497
Ø.6250
.6245
.50-14 N.P.T.
BRAKE LEADS
2.62
4 SLOTS
.34 DIA.
3.00
.66
2.75
4.32
Ø6.85
6.86
4 HOLES
.38-16 TAP
.56 DEEP
Ø5.88 B.C.
45°
45°
7.45
3.50
3.44
LEAD HOLE
.50 N.P.T.
2.49
2.49
5.38
3.31
6.62
.09
.0015 MAX
CLEARANCE
.41
.006
.004
.50
1.09
MIN
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRAWING TO SWD
REV: A
VERSION: 01
REVISED: 03:38:14 05/12/2023
TDR: 000001208005
MODEL NO. 35LYU641
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 56C XPNV X35M DUAL CLASS, W/BRAKE
35LYU641

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