ABB BALDOR RELIANCE

Customer information packet

ECP3771T

10HP, 3500RPM, 3PH, 60HZ, 215T, 0742M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	215T
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	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CCSA US
	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
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	24.500 A @ 208.0 V
	22.000 A @ 230.0 V
	11.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	X
Type	AC
Mech. spec.	07K374
Base	
Status	PRD/A
Elec. spec.	07WGY012
Layout	07LYK374
Eff. date	06-25-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	11-29-2011

Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	11.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0742M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	19.50 IN
Power Factor	90
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3500 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

NP3257								
CAT.NO.	ECP3771T							
SPEC.	07K374Y012G1							
HP	10 TE							
VOLTS	230/460							
AMP	22/11							
RPM	3500							
FRAME	215T	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	H	**DES**	B	**CL**	F	
RATING	40C AMB-CONT							
SN								
DE	6307	**ODE**	6307					
NEMA-NOM-EFF	92.4	**PF**	90					
G.MIN.EFF	91.0	**CC**	010A					
T. CODE	T3C	**T=**	160					

NP3260					
SPEC.	07K374Y012G1				
D.E. BRG.	35BC03XP30X				
O.D.E. BRG.	35BC03XP30X				
GREASE	POLYREX EM				
RPM MAX	5400	**MAX. KVAR**	N/A		
BLANK					
INV.TYPE	PWM				
T=	160				
C HP FR	60	**C HP TO**	90		
CT HZ FROM	6	**CT HZ TO**	60		
VT HZ FROM	3	**VT HZ TO**	60		
HTR-VOLTS		**HTR-AMPS**			
HTR-WATTS		**MAX. SPACE HEATER TEMP.**			

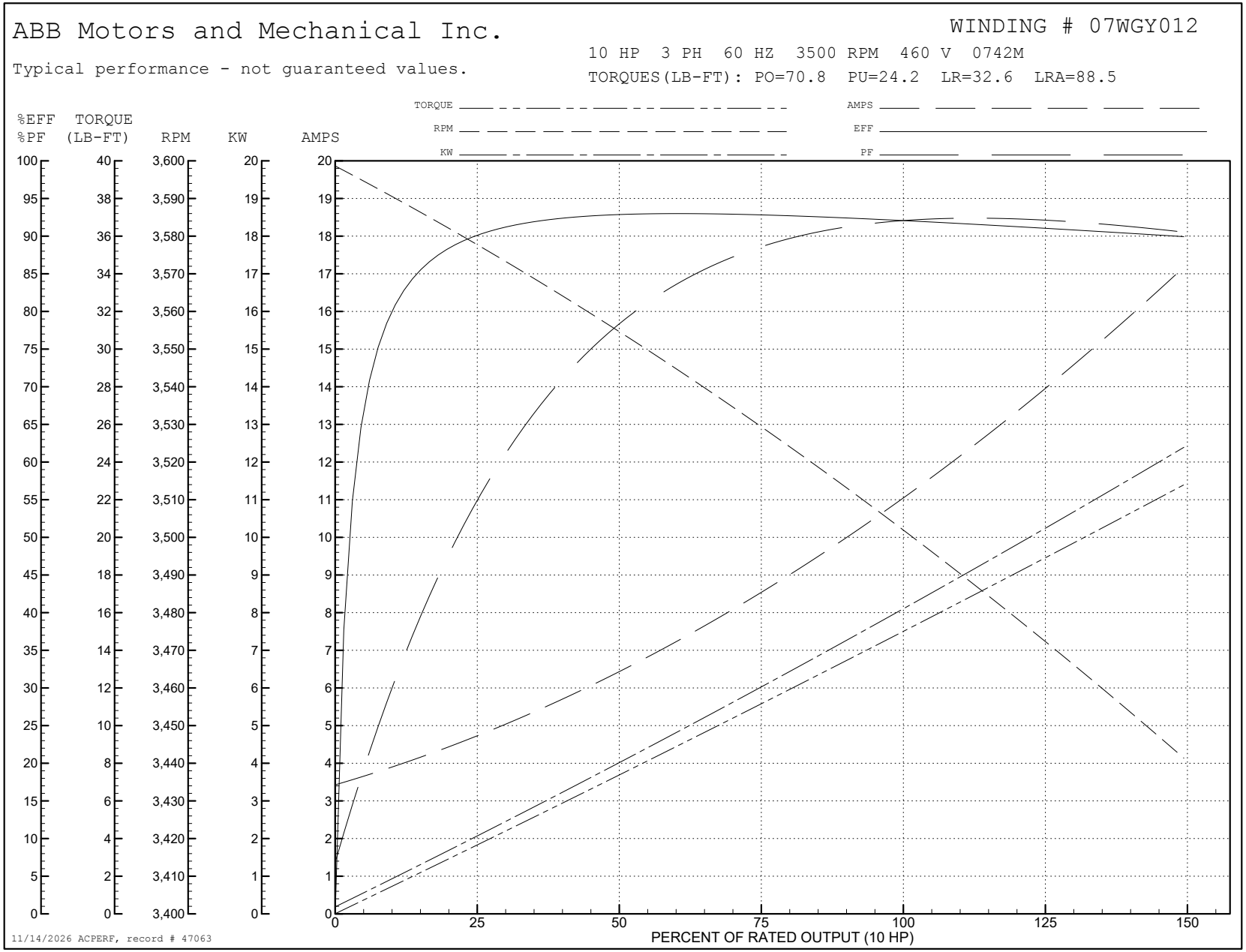
AC Induction Motor Performance Data
Record # 47063
Typical performance - not guaranteed values

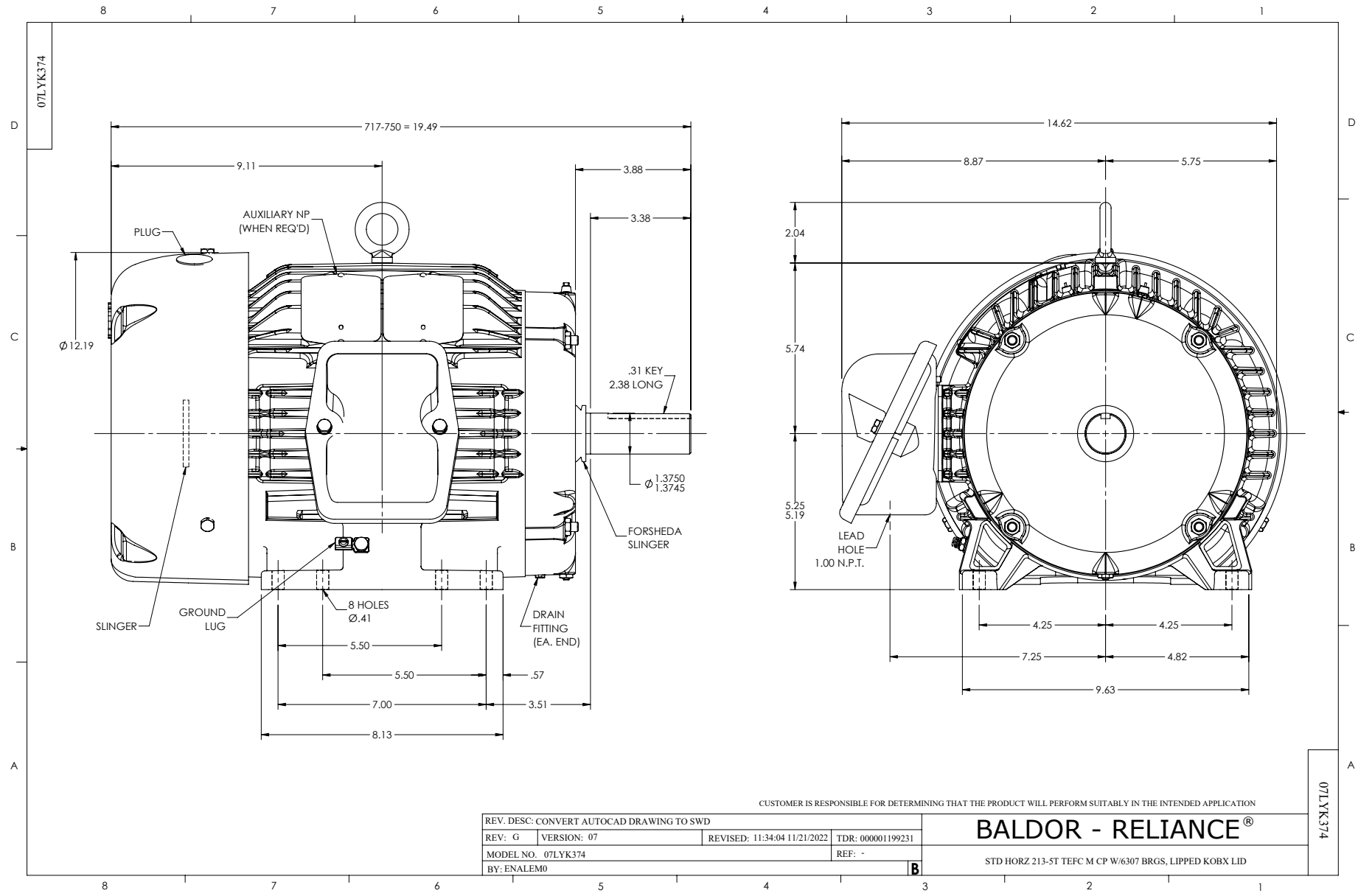
Winding: 07WGY012-R046	**Type:** 0742M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			10	**Full Load Torque**	14.9 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			22/11	**Breakdown Torque**	70.8 LB-FT
R.P.M.			3500	**Pull-up Torque**	24.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	32.6 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	88.5 A
Service Factor (S.F.)			1.15	**No-load Current**	3.61 A
NEMA Nom. Eff.	92.4	**Power Factor**	90	**Line-line Res. @ 25ºC**	0.776 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	40°C
S.F. Amps				**Temp. Rise @ S.F. Load**	51°C
				Rotor inertia	0.383 LB-FT2

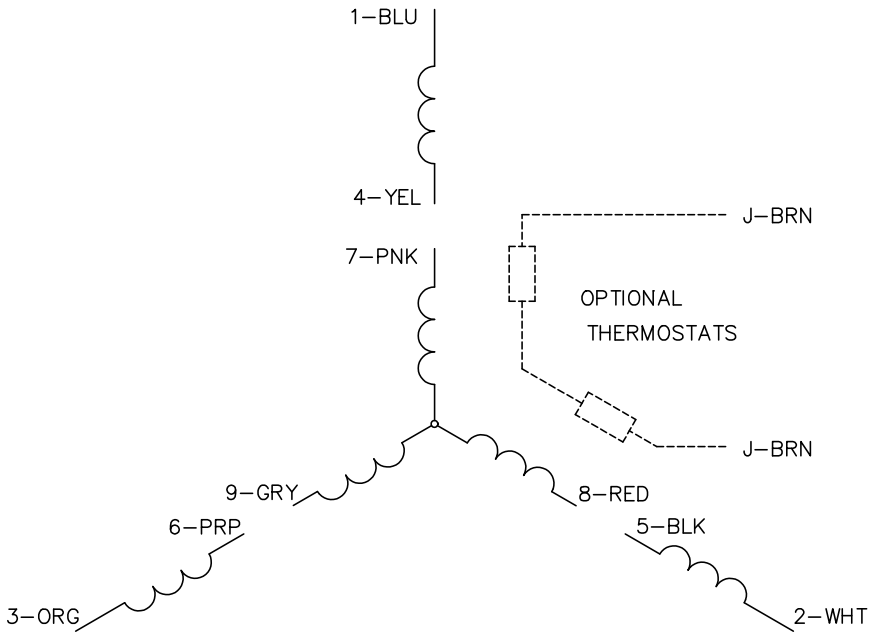
Load Characteristics 460 V, 60 Hz, 10 HP

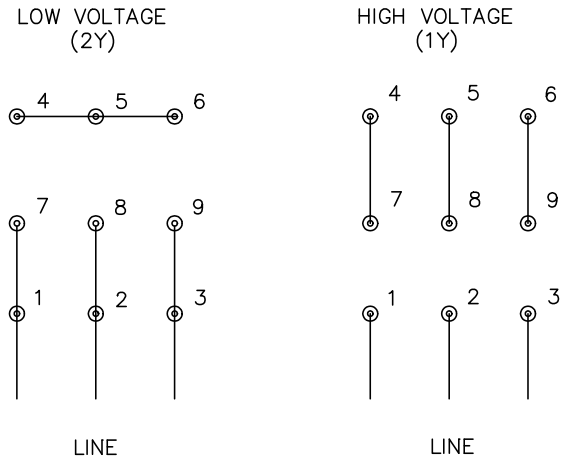
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	58	79	88	90	92	91	91
Efficiency	90.1	93	93.2	92.5	91.4	90	91.8
Speed	3578.4	3554.5	3528.7	3503.4	3473.7	3440.8	3486
Line amperes	4.43	6.32	8.64	11.1	13.9	17.1	12.8


ABB Motors and Mechanical Inc.
WINDING # 07WGY012
Typical performance - not guaranteed values.
10 HP 3 PH 60 HZ 3500 RPM 460 V 0742M
TORQUES(LB-FT): PO=70.8 PU=24.2 LR=32.6 LRA=88.5
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/14/2026 ACPERF, record # 47063


07LYK374
717-750 = 19.49
9.11
3.88
3.38
AUXILIARY NP
(WHEN REQ'D)
PLUG
Ø12.19
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
FORSHEDA
SLINGER
SLINGER
GROUND
LUG
8 HOLES
Ø.41
DRAIN
FITTING
(EA. END)
5.50
5.50
.57
7.00
3.51
8.13
14.62
8.87
5.75
2.04
5.74
5.25
5.19
LEAD
HOLE
1.00 N.P.T.
4.25
4.25
7.25
4.82
9.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRAWING TO SWD
REV: G
VERSION: 07
REVISED: 11:34:04 11/21/2022
TDR: 000001199231
MODEL NO. 07LYK374
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 213-5T TEFC M CP W/6307 BRGS, LIPPED KOBX LID
07LYK374

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