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Product Information Packet

VEM3546

1HP,1760RPM,3PH,60HZ,56C,3519M,TEFC,F1,N

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Part Detail							
Revision:	R	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Prod. Type:**	3520M	**Elec. Spec:**	35WGM492	**CD Diagram:**	CD0005
Enclosure:	TEFC	**Mfg Plant:**		**Mech. Spec:**	35J302	**Layout:**	35LYJ302
Frame:	56C	**Mounting:**	F1	**Poles:**	04	**Created Date:**	08-05-2010
Base:	N	**Rotation:**	R	**Insulation:**	F	**Eff. Date:**	09-16-2016
Leads:	9#18					**Replaced By:**	
Literature:		**Elec. Diagram:**					

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Nameplate NP3441LUA

CAT.NO.	VEM3546								
SPEC.	35J302M492G1								
HP	1								
VOLTS	230/460								
AMP	3/1.5								
RPM	1760								
FRAME	56C		**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	L		**DES**	B	**CL**	F	
NEMA-NOM-EFF	85.5	**PF**	71						
RATING	40C AMB-CONT								
CC	010A			**USABLE AT 208V**	3.1				
DE	6205		**ODE**	6203					
ENCL	TEFC	**SN**							
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									
	50Hz 1HP 190/380V 3.6/1.8A								SF1.0

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AC Induction Motor Performance Data

Record # 53095 - Typical performance - not guaranteed values

Winding: 35WGM492-R050	**Type:** 3520M	**Enclosure:** TEFC

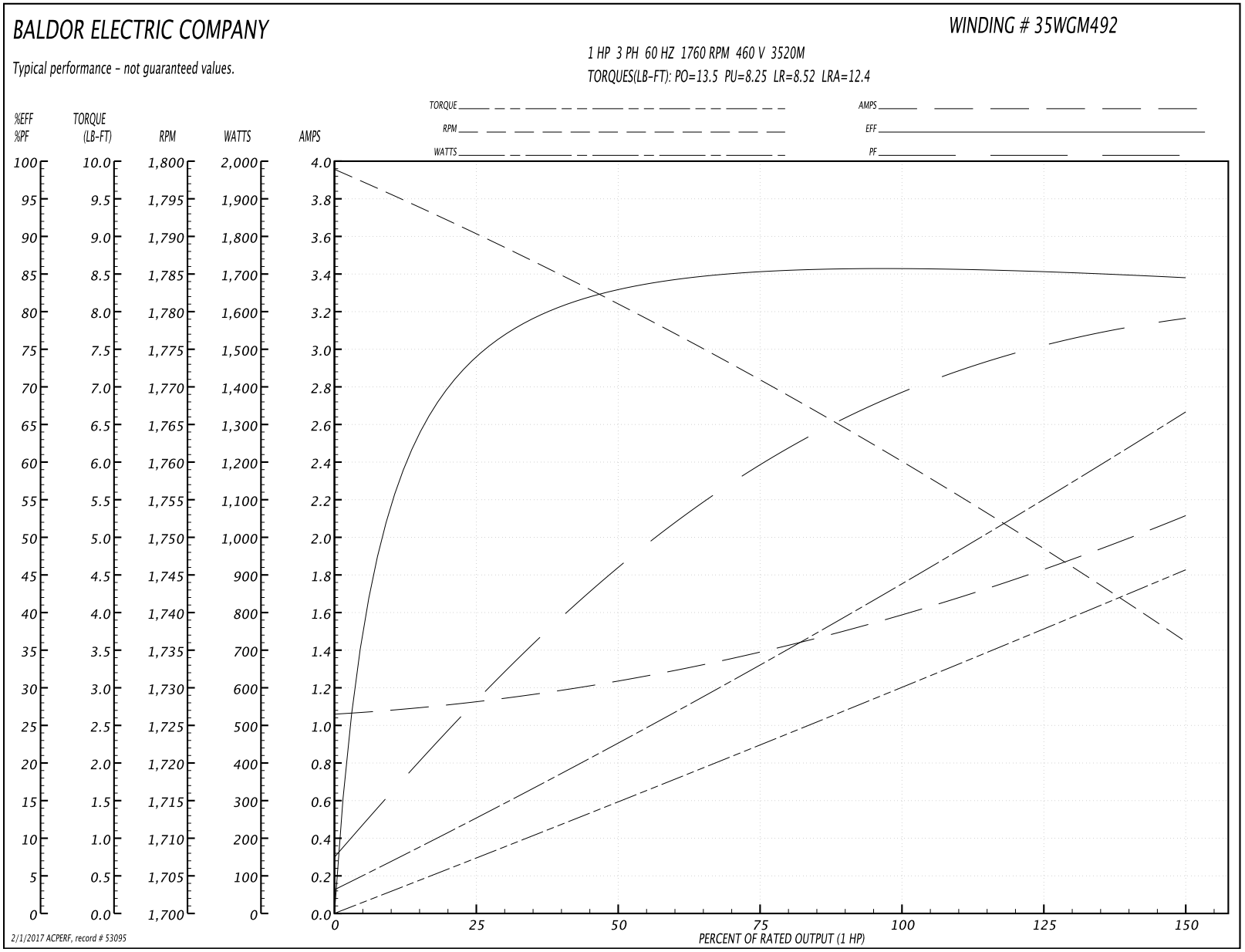
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1			Full Load Torque	2.99 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	3/1.5			Breakdown Torque	13.5 LB-FT
R.P.M.	1760			Pull-up Torque	8.25 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	8.52 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	12.4 A
Service Factor (S.F.)	1.15			No-load Current	1.07 A
NEMA Nom. Eff.	85.5	Power Factor	71	Line-line Res. @ 25ºC	15 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	36°C
S.F. Amps				Temp. Rise @ S.F. Load	42°C
				Locked-rotor Power Factor	53.8
				Rotor inertia	0.118 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	46	60	69	75	79	75
Efficiency	74.2	82.9	85.4	85.8	85.4	84.5	85.4
Speed	1790	1781	1771	1760	1749	1736	1754
Line amperes	1.11	1.24	1.39	1.59	1.83	2.11	1.69

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Performance Graph at 460V, 60Hz, 1.0HP Typical performance - Not guaranteed values



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AC Induction Motor Performance Data

Record # 57707 - Typical performance - not guaranteed values

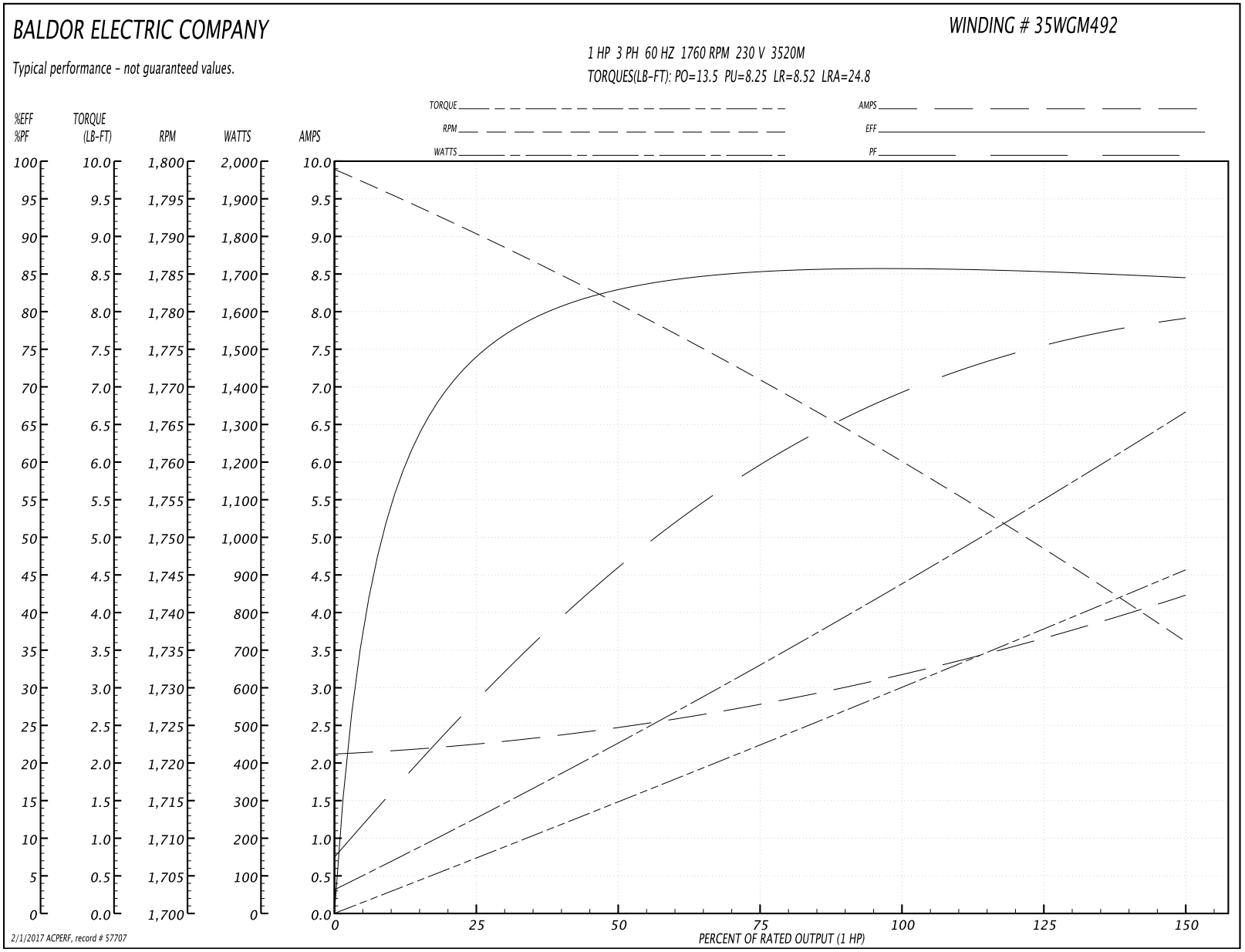
Winding: 35WGM492-R050	**Type:** 3520M	**Enclosure:** TEFC

Nameplate Data				230 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1			Full Load Torque	2.99 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	3/1.5			Breakdown Torque	13.5 LB-FT
R.P.M.	1760			Pull-up Torque	8.25 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	8.52 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	24.8 A
Service Factor (S.F.)	1.15			No-load Current	2.14 A
NEMA Nom. Eff.	85.5	Power Factor	71	Line-line Res. @ 25ºC	3.75 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	36°C
S.F. Amps				Temp. Rise @ S.F. Load	42°C
				Locked-rotor Power Factor	53.8
				Rotor inertia	0.118 LB-FT2

Load Characteristics 230 V, 60 Hz, 1 HP

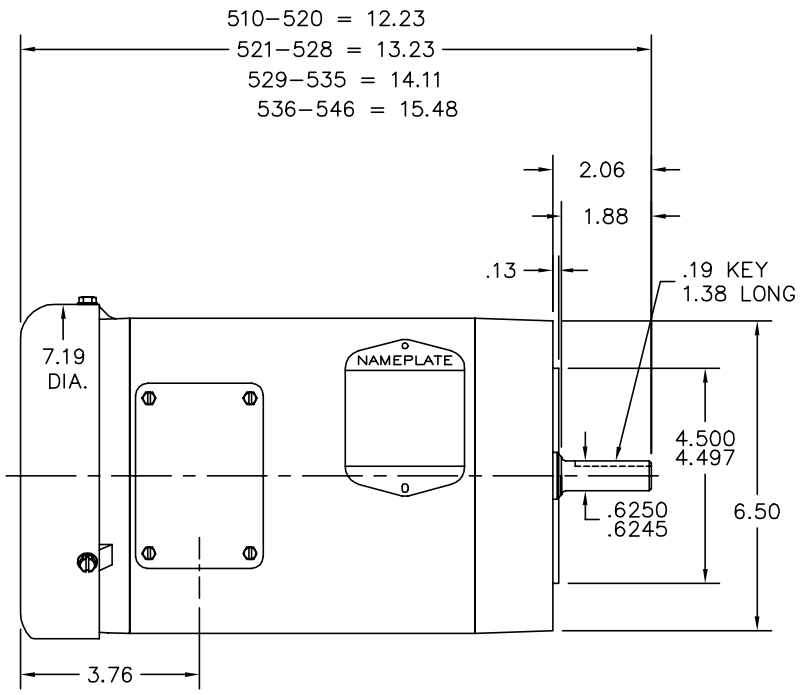
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	46	60	69	75	79	74
Efficiency	74.2	82.9	85.4	85.8	85.4	84.5	85.6
Speed	1790	1781	1771	1760	1749	1736	1754
Line amperes	2.22	2.48	2.78	3.18	3.66	4.22	1.69

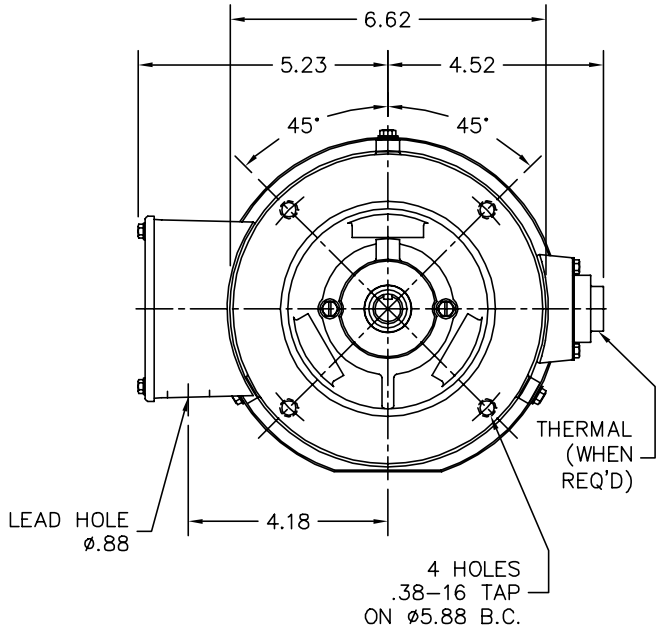
Performance Graph at 230V, 60Hz, 1.0HP Typical performance - Not guaranteed values



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35LYJ302





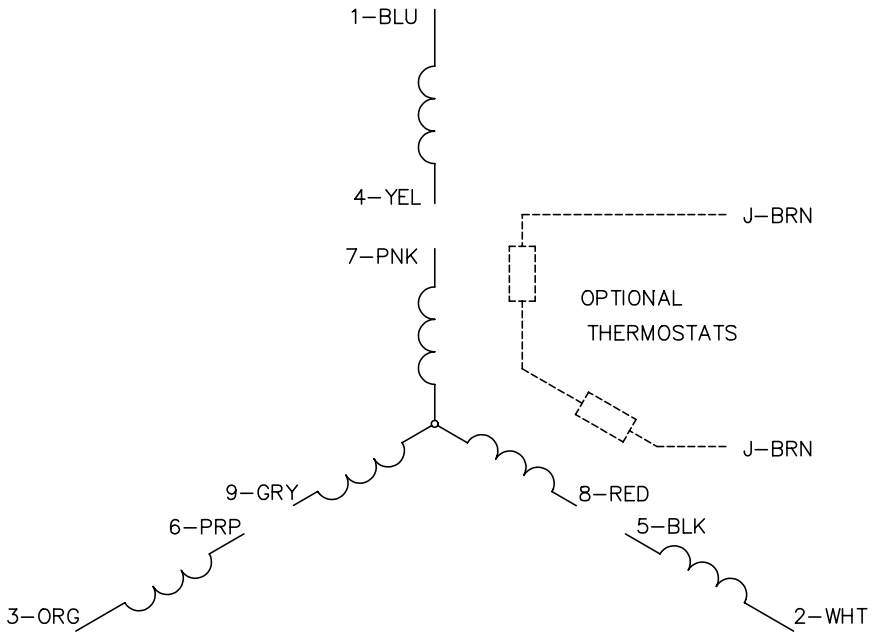
35LYJ302

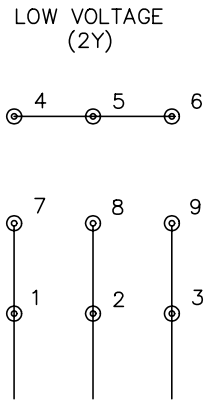
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

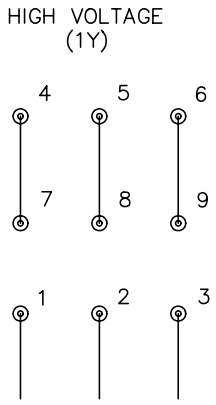
REV. DESC: UPDATE DRWG PARTS			BALDOR
REV. LTR: C	VERSION: 02	TDR: 000000738205	
FILE: \AAA\00041\631		REVISED: 02:09:50 03/15/2012	VERT 56C TEFC 35M SUPER–E
MTL: –		BY: ENBENBO	SH 1 of 1

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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

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