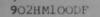
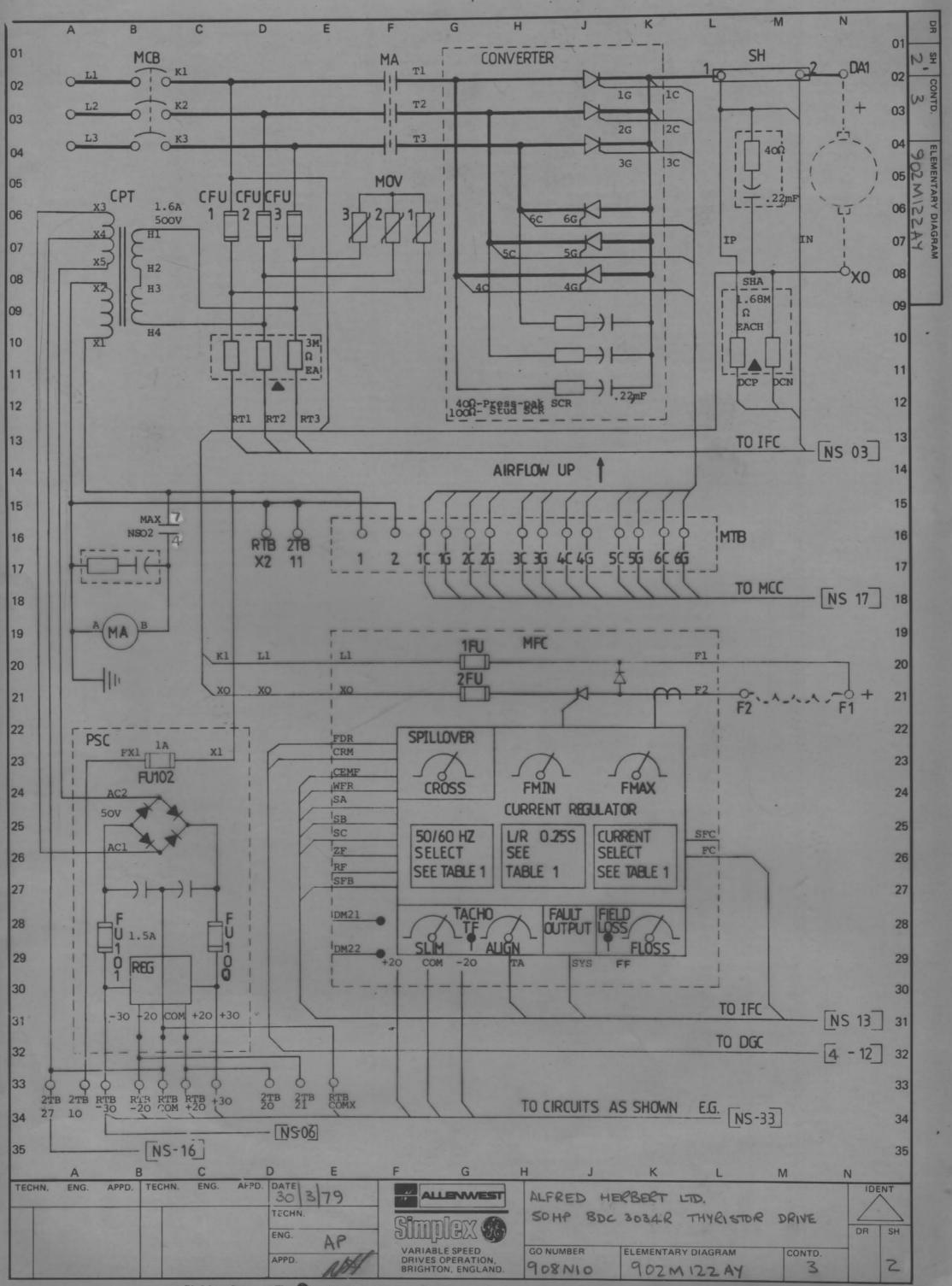
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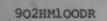
	A B C D E E	G H J K L M N
	A B C D E F	G H G 01
	VOLTAGE POLARIES SHOWN ARE FOR MOTORING DA1(+)	SIGNAL DEFINITIONS AND LOCATIONS 02
	HARDWARE ABBREVIATIONS	• 03
	MCC MAIN CONTROL CARD	* CEMF COUNTER EMF (3-16) 04
	IFC INTERFACE CARD PSC POWER SUPPLY CARD	CMFA ABSOLUTE VALUE CEMF (3-08)
	SCR THYRISTOR ASSEMBLY DGC DIAGNOSTIC CARD	CRM CROSSOVER MODIFY (4-11) 05 DFP DELAYED FIRING POWER (3-25)
	MFC MOTOR FIELD CONTROL	* DR DRIVER REFERENCE (3-33) * EAO ERROR AMP OUTPUT (3-33) 06
	MDR MODIFICATION RACK	EST EXTERNAL FLT STOP INPUT (3*14) FALT FAULT (3*14) 07
	SYMBOLS AMPLIFIERS	* FC FIELD CURRENT (NS26)
		FEA FIELD ECONOMY ADJUST (3-25)
	VI RI O VO RI O	IABS MOTOR CURRENT ABSOLUTE (3.09)
	$v_0 = \frac{R_2}{R_1} v_I \qquad v_0 = (1 + \frac{R_2}{R_1}) v_I \qquad \cdot$	ILA CURRENT LIMIT ADJUST (3.23) IMET CURRENT SIGNAL FOR METER (3.10) 10
	RI II II II RI	 * IPU INITIAL PULSE (3-20) * LR LOCAL REF. FROM DGC (3-33) 11
	CASE GROUND	* JOG JOG SWITCH INPUT (3-23)
	$\frac{\sqrt{1}}{ABS}$ VO = SIGN () X ABSOLUTE VALUE OF VI	* MAC MAX/MA CONTROL SIGNAL (3=20)
	STAB ON TERMINAL	MSW MODE SWITCH (3-30) * OSC OSCILLATOR (3-17) 13
	TERMINAL AT 2TB, 3TB, 4TB, RTB. EX: 9 2 - 2TB9; X2 2 - RTBX2	* PCR PHASE CONTROL REF. (3=26) * PRE DRIVE PRECONDITION (3=21) 14
	O TERMINAL AT T.B.'s	ØSEQ PHASE SEQUENCE (3=14) RERR REGULATOR ERROR (3=27)
	POTENTIOMETER ARROWS ON THE CARD	RJ INTEGRATOR SUMMING JUNCTION (3-27) 15 REGULATOR SUMMING JUNCTION (3-31)
	L'OL ELEMENTARY DIAGRAMS INDICATE THE WIPER DIRECTION AS THE POTENTIOMETER	RRA REGULATOR RESPONSE ADJUST (3=30) 16
	SHAFT IS ROTATED CLOCKWISE TO INCREASE	RSET RESET (3=16) * RTR READY TO RUN (3-16)
	FUNCTION.	* RUN RUN SWITCH INPOT (3-21) * SA-C PHASE SYN OUTPUT (3-16)
	A THESE RESISTORS ARE CRIMPED IN WIRE HARNESS.	* SFB SPEED FEEDBACK (3-20) 18 SMET SPEED SIGNAL FOR METER (3-12)
	FUNCTION SCOT LOC JUMPERS	* SR SYSTEM REFERENCE INPUT (3-29) 19 * SYS SYSTEM FAULT TRIP (3-13) *
	60HZ MCC AA-AS, BA-BS, CA-CS	* TA OUTPUT FOR TACHO TRIP ADJUST (3-20)
	50HZ MFC ZA-ZB (IF USED)	* TFB TACHOMETER FEEDBACK (3-20)
	IOC-400% × NONE ×	TFR AC TACHO FREQUENCY OUTPUT (3-13) 2 * TR TIMED REFERENCE (3-33)
	-300% IFC I-ILO SR5 - 9V (NONE)	* VFB VOLTAGE FEEDBACK (3-19) * WFR WEAK FIELD REFERENCE (3-20)
	9 - 20V X MCC SRH-COM X	(* - TEST POINT ON DOOR FRONT) 23
	JOGR 10V (NONE) 20V X MCC JH - COM X	2
	LT.3-7sec. X (NONE) X 2 - 60sec MCC 3320FROM LTITOCOM	MAPPING SYSTEM
	VREG IFC NT-CEMF, CC-COM DC TACHO X (NONE) X	(NS/PS/TS) PS - PAST SHEET
	AC TACHO MCC AT1-AT2	NS - NEXT SHEET 2 TS - THIS SHEET
	TACHO FILT IFC TC-TC TACHO V. IFC NT-NTL.PT-PTL 24-64vdc IFC NT-NTL.PT-PTL	2
	27-71vac IFC MT-NT1 PT-PT1	NOTE: T FIELD EFFECT TRANSISTOR: THE 2
	66-177vac IFC NT-NT2, PT-PT2	CLOSED/OPEN (I/O) STATE OF THESE
	110-300vdc × IFC NT-NT3.PT-PT3 × 120-300vac IFC NT-NT3,PT-PT3	OR JOG" - "DIAGNOSTIC STATIC" - 2 "DIAGNOSTIC RUN" IS SHOWN BY A
	G134 G256 PT .8T 1.7] MFC NONE	FOUR DIGIT WORD WITH STATE SEQUENCE. 3
	MFC VB-VD V12.3 2.8 MFC VB-VD V12.4 5.0 MFC VA-VB V14.0 8.0 MFC VA-VB VC-VD V17.0 13 MFC VA-VB VC-VD X	3
	DIT 2 1 25 W MFC YA-YC, YB-YD	3
	L/R<.255 MFC QA-QB X	
	INH RUN DGC DI-D2 (IF USED)	3
		3
		3
	A B C D E F	G H J K L M N
CHN.	NGM AP 303/7	ALLENWEET ALFRED HERBERT LTD.
7 50	TE SHEET 10 2 SEE SHEET 10 TECHN.	TIME BDC 3034R THYRISTOR DRIVE COR SH
1		ARIABLE SPEED GO NUMBER ELEMENTARY DIAGRAM CONTD.
2		RIGHTON, ENGLAND. 908NIO 902M122AY 2

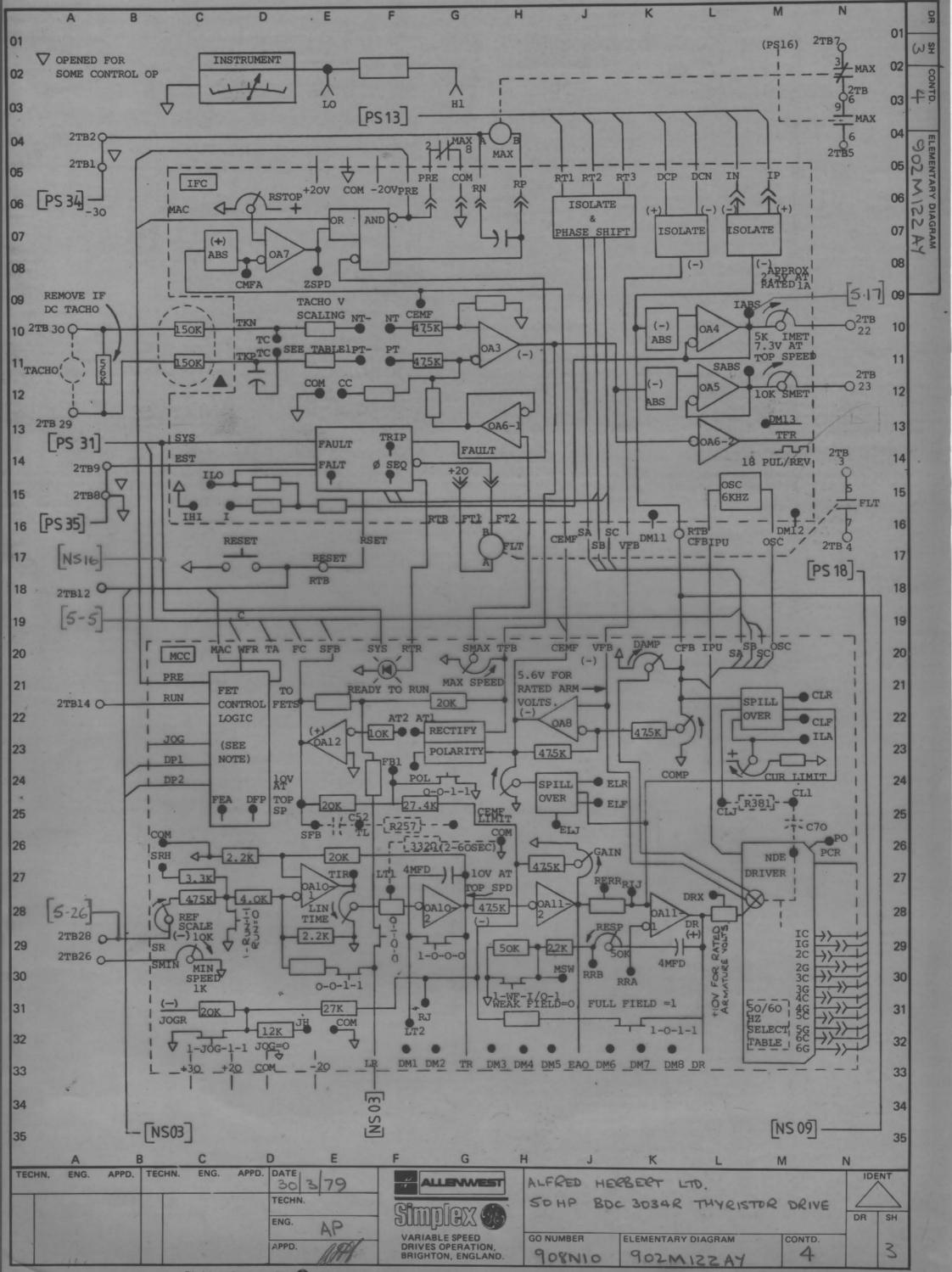
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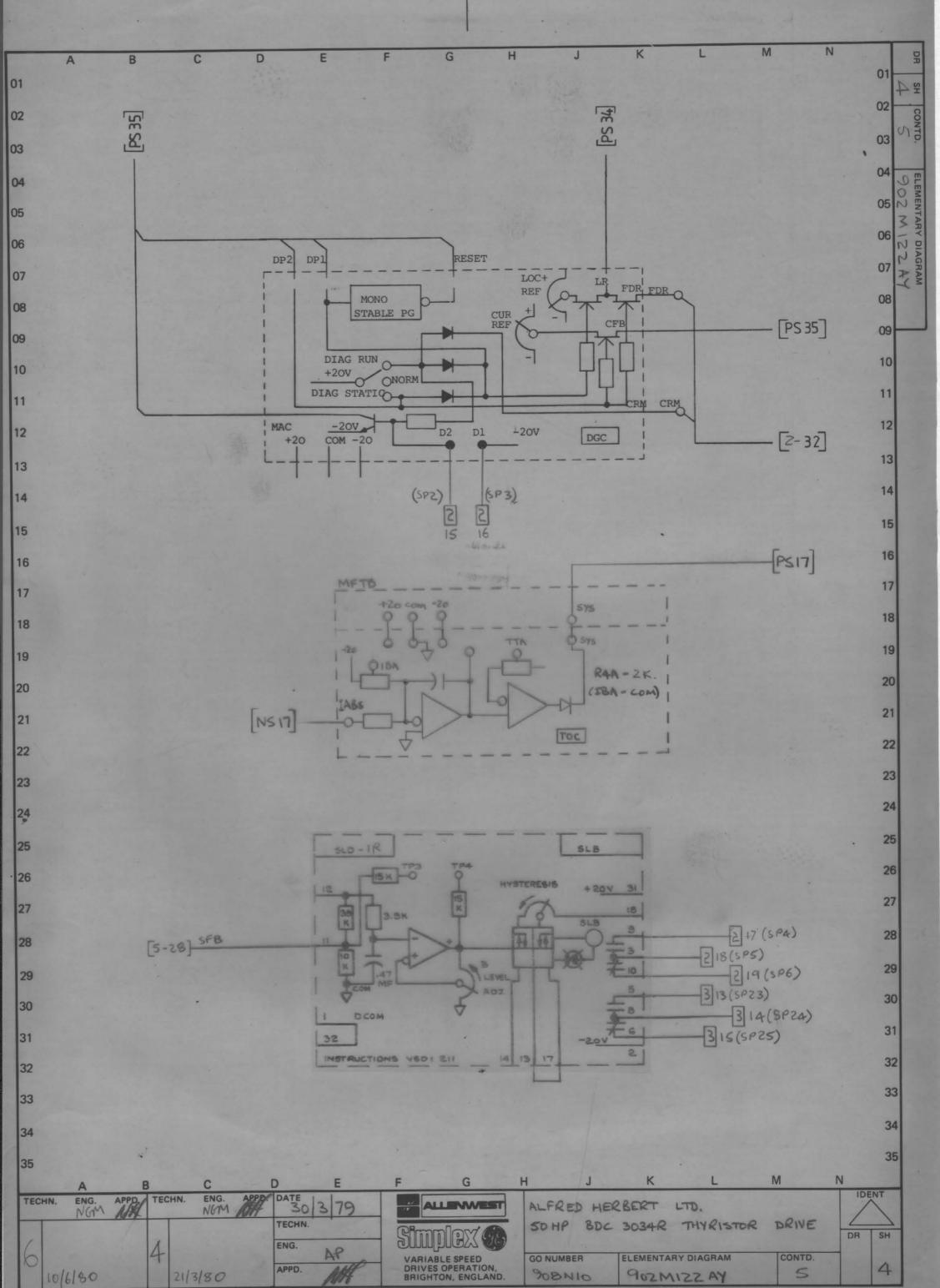


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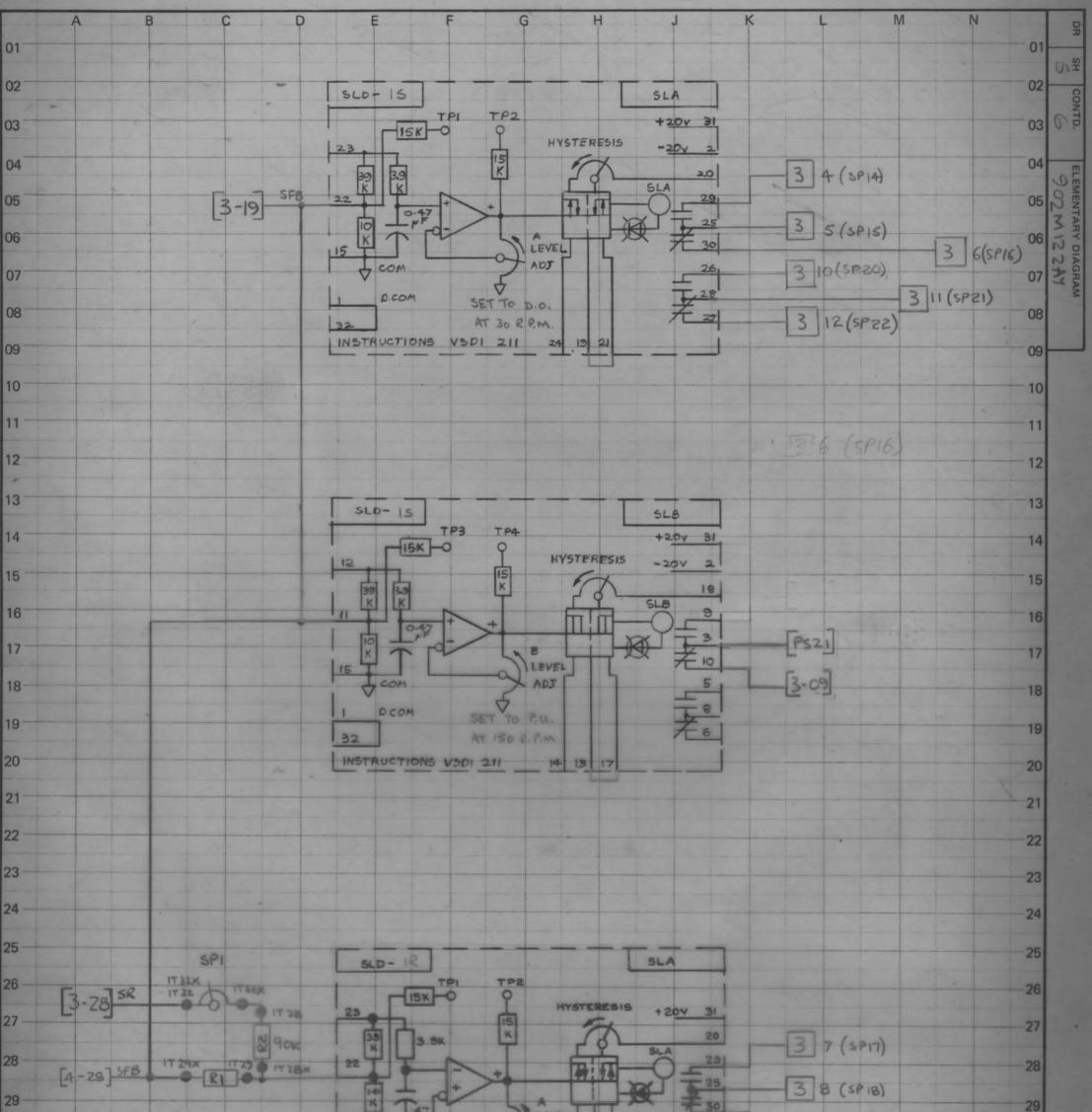




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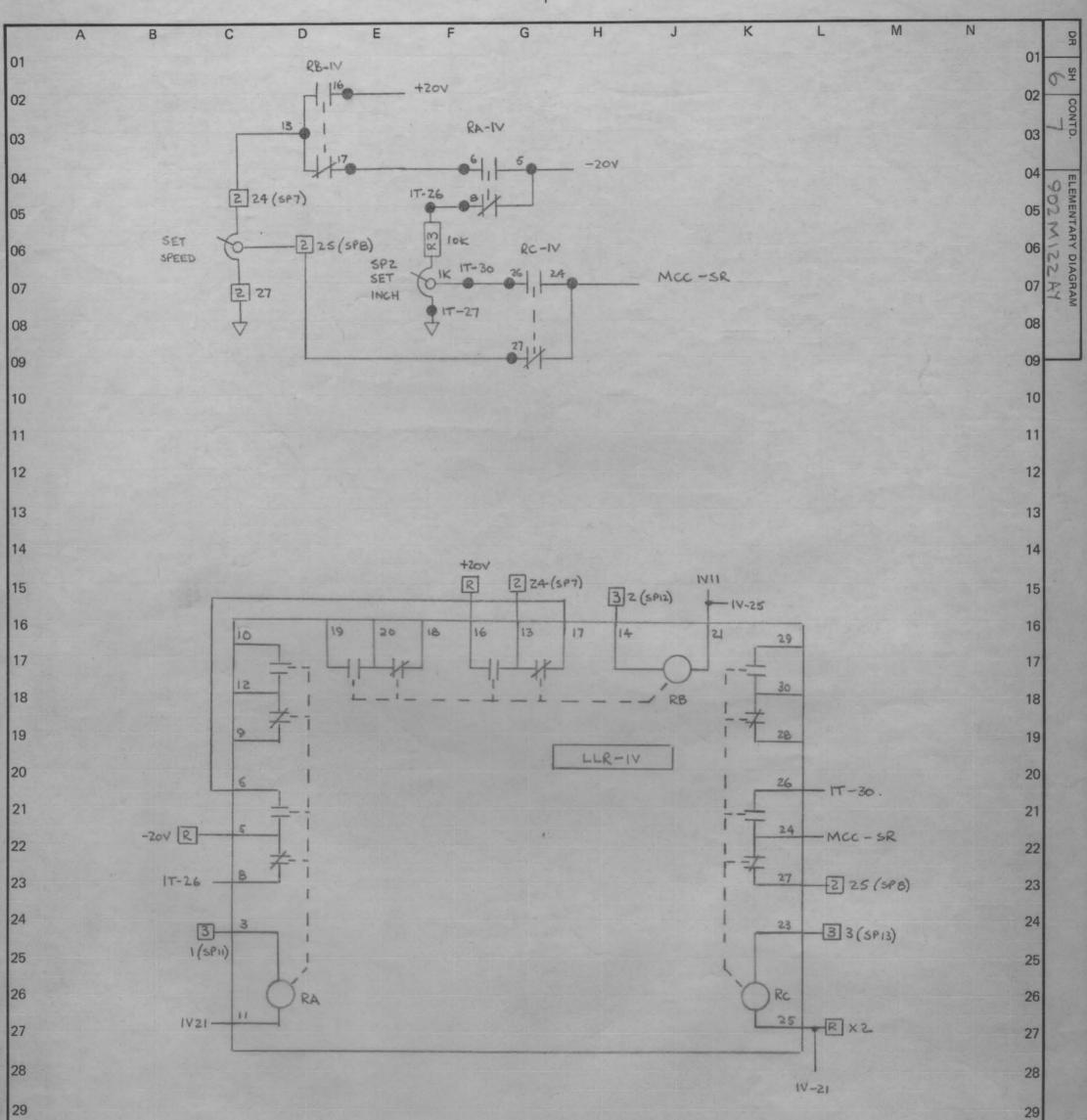


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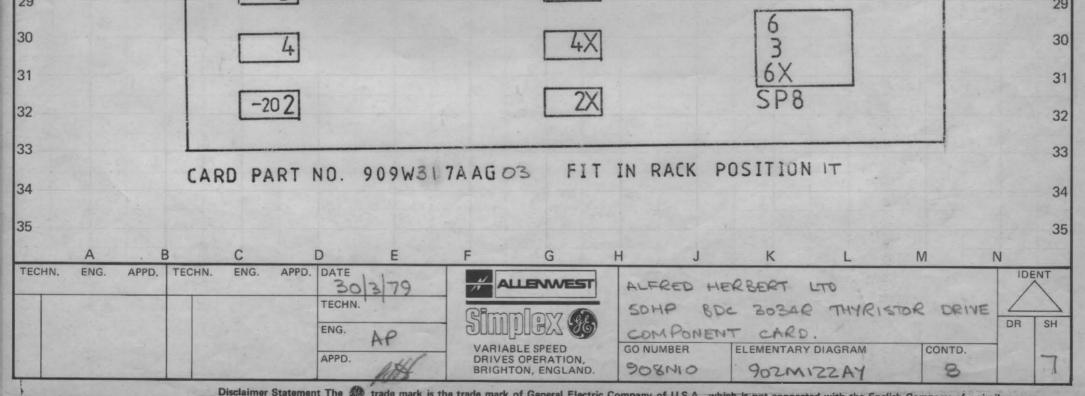
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29 30 30 31 31 32 32 33 33 34 34 35 35 В D A C E F G H J K M N TECHN. APPD. ENG. TECHN. ENG. APPD. DATE. IDENT ALFRED HERBERT LTD. ALLENWEST 30 79 50 HP BOC 3034R THYRETOR DRIVE TECHN. DR SH ENG. REFERENCE CIRCUIT. AP ELEMENTARY DIAGRAM VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND. GO NUMBER CONTD. APPD. 6 908NID 902MIZZAY RU

Ulsclaimer Statement The Statement he trade mark of Conneral Electric Commons of U.D.A.

Μ N G Н Κ L В D Е J A C F DR 01 01 HS 02 02 CONTD. 00 03 03 04 04 902 ELEMENTARY DIAGRAM 31X 32X 1 32 +2031 05 05 BOXPIOK N/22 47KS 29X 29 06 06 FRI SPI 07 PI 07 28X 90K 28 RZ 08 08 27X 30 27 SP2 26X IOK 26 09 09 R3 IK 10 10 24X 24 11 11 25 25X 22 SP3 2.3X 12 23 12 13 13 21X 21 14 14 19 22X 19X SP4 4AAG01 20X 20 15 15 16 16 18X 18 17 17 5 18 C-1 18 M 19 19 m 16X 17 16 SP5 15X COM15 5 20 20 21 13X 13 21 22 22 14X 11X 12X 12 23 23 14 SP6 24 10X 24 10 25 25 11 8X 9X 9 26 26 8 SP7 27 7X 27 7 28 28 5X 5 29 29

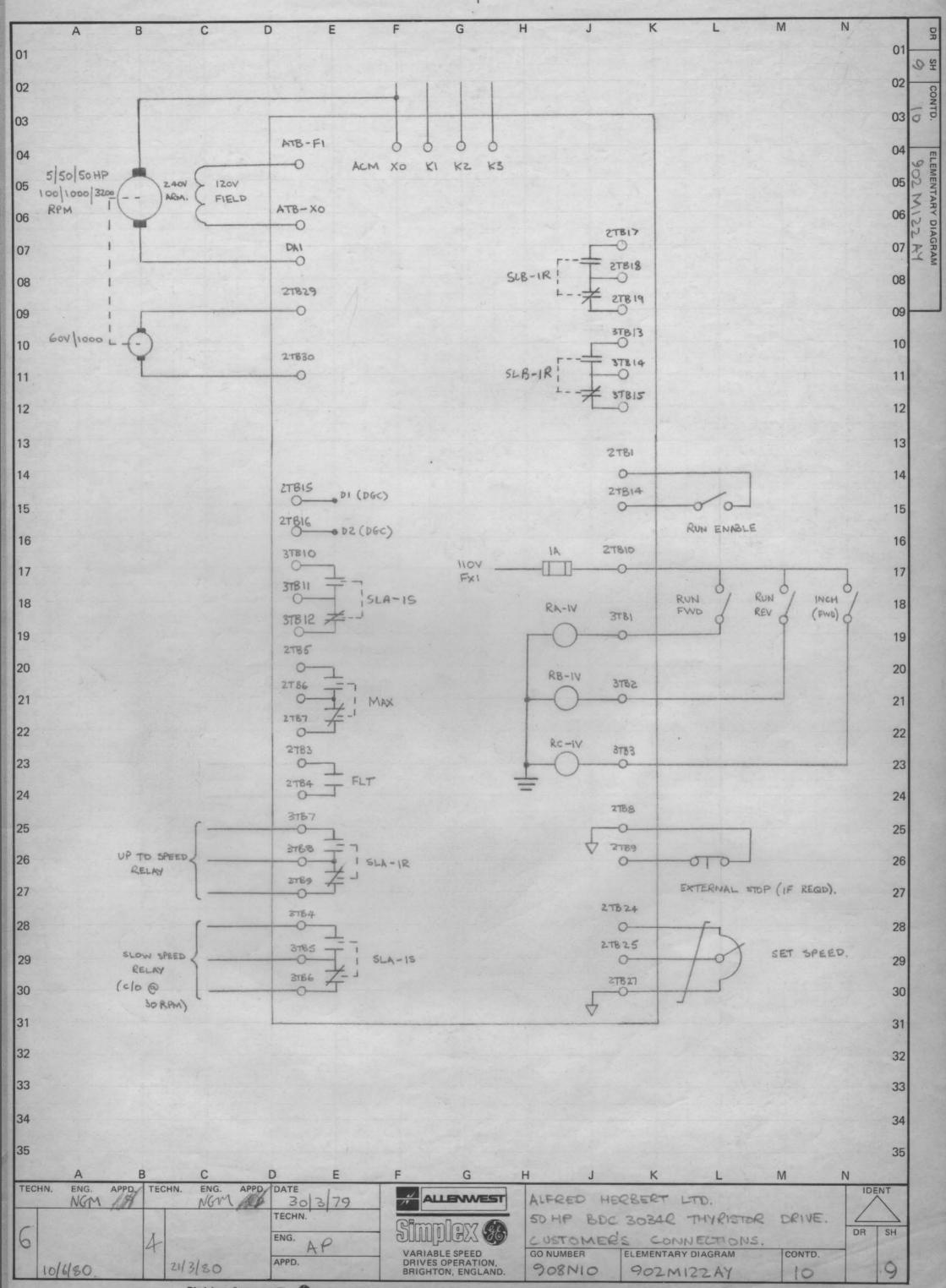


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35 TECHN.	А В С	TECHN	F G H ALLENWEST ALFRE SOHP	J K D HERBERT L: BDC 3034R LAYOUT	L M N ID. THYRISTOR DRIVE	35 NT
33 NO1 34	TE: RECEPTACLE PINS MAY BE NUMBERED AS SHOWN IN EITHER SKETCH. (PIN 33 CORRESPONDS TO PIN 1X, 34 TO 2X, ETC.)	RTB(+20V)-1V16 SP7-1V13 IV17-1V6	$\frac{1V21 - 1V25}{5P20 - 1526}$ $\frac{5P21 - 1528}{5P22 - 1527}$		IR - IT	33 34
30 4 31 2 1 32	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5P17 - 1229 5P18 - 1225 5P19 - 1230	$\frac{1513 - 1517}{1519 - 1521}$ $\frac{1819 - 1821}{1819 - 1821}$		BUS ALL PINS 2 IR - IT BUS ALL PINS IS IR - IT BUS ALL PINS 31	30 31 32

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Disclaimer Statement The fills made made is the trade made of Concert Plant's Concert Plant's

SORHHIGGORY SKAR

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		RECORD	OF ELEMENTARY DIAGRAM CHANGES	
SHEET	REVISION	DATE	LOCATION AND DESCRIPTION OF CHANGE	CHANCE BY
9	Z	9/10/79	DESIGNATIONS 3TB4 - 3TB9 ADDED	AP.
9	3	11/12/79	DESIGNATIONS 3TBIO - 3TBIZ ADDED ? CUSTOMER'S ALSO EFFECTS SHEETS 588 SLETTER 16/11/79	Nom
4589	}4	21/3/50	SLD-IR CHANGED FROM GOI TO GOZ (TWO CHANNED) 3 WIRING HODED. EFFECTIVE FROM SERIAL NºS 923NOG, 940NOT > 002NO9 SFUTURE. CUSTOMER'S LETTER 15/2/80.	NGM
8	5	2/4/80		NGM
4	6	10/6/80		
89			S 2TB16 RESPECTIVELY. EFFECTIVE FROM SERIAL NUMBURS - 933NOG 940NO7 002N09 5 FUTURE	NGM
1	7	24/2/81	JUMPER TABLE FOR GEC MOTORS ADDED. GEC MOTORS USED ON SERIAL NUMBERS 940N07/ TO 940N07/ ONLY.	NGM
	1 7			

29 29 30 30 31 31 32 32 33 33 THIS FORM ALSO USED FOR 'REPEAT' TYPE ORDERS WHEN DESCRIPTION OF CHANGE INCLUDES REFERENCE TO EARLIEST SERIAL NUMBER AFFECTED. 34 34 35 35 В C D Ε G Н К A F Μ Ν J L TECHN. TECHN. ENG. ENG. APPD. DATE APPD. IDENT NGM ALLENWEST ALFRED HERBERT LTD. 303 Nom 694 79 TECHN. SDHP BOC 3034R THYRISTOR DRIVE. S DR SH ENG. DIAGRAM CHANGE RECORD. GO NUMBER ELEMENTARY DIAGRAM 4 AP VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND. CONTD. APPD. 24/2/81 10 21/3/80 FL 908N10 902M122 AY

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VARIABLE SPEED DRIVES OPERATION SILCON B DRIVE SYSTEM

GENERAL NOMENCLATURE

THE FOLLOWING NOMENCLATURE IS NORMALLY USED. PREFIXES OR SUFFIXES MAY BE ADDED TO DESIGNATE A PARTICULAR UNIT, SECTION OR DRIVE OR MERELY TO DIFFERENTIATE BETWEEN SIMILAR DEVICES.

A	AMMETER	LS	LIMIT SWITCH
BMC	BLOWER MOTOR STARTER	MA	AC LINE CONTACTOR OR STARTER
CAP	CAPACITOR	MD	DC LOOP CONTACTOR
CB	CIRCUIT BREAKER	MRH	MOTOR OPERATED RHEOSTAT
CVT	CONTROL VOLTAGE TRANSFORMER	MTH	MOTOR THERMAL SWITCH
CT	CURRENT TRANSFORMER	OL	OVERLOAD
DBC	DYNAMIC BRAKING CONTACTOR	POT	POTENTIOMETER
DBRES	DYNAMIC BRAKING RESISTOR	PL	PILOT LIGHT
		PB	PUSHBUTTON
		RC OR RR	REVERSE CONTACTOR OR RELAY
ESR	EMERGENCY STOP RELAY	RES	RESISTOR
EXC	(STATIC) EXCITER	SUP	COIL SUPPRESSION
F	SCR MODULE FAULT RELAY	SH	(AMMETER) SHUNT
FTR	FIELD TRIM RESISTOR	SS	SELECTOR SWITCH
FLR	FIELD LOSS RELAY	TI	TACHO INDICATOR
FS	FUSE	· TG	TACHO GENERATOR
FC OR FR	FORWARD CONTACTOR OR RELAY	TR	TIMING RELAY
HTH	HEATSINK THERMAL SWITCH	UVR	UNDERVOLTAGE RELAY
IVT	ISOLATION TRANSFORMER	v	VOLTMETER
IOC	INSTANTANEOUS OVER CURRENT RELAY	VR	VOLTAGE SENSING RELAY
IR	INCH RELAY		
IFR	INCH FORWARD RELAY		
IRR	INCH REVERSE RELAY		

SYMBOLS

Μ

H	- SCREENED LEADS	-X- EXTERNAL TERMINAL
5		- TERMINAL FOR "OFF" PANEL UNITS
5	- TWISTED LEADS	DRIVER REBULATOR TERMINAL.

- TERMINAL BOARD JUMPER

- MOUNTED IN MOTOR
- REMOTE MOUNTED DEVICE

- DEVICES IN OPERATOR STATION

THE TABLE BELOW LISTS CONNECTIONS THAT HAVE BEEN MADE IN THE DRIVER/REGULATOR TO PROVIDE THE REQUIRED SYSTEM OPERATION. REFER TO THE SYSTEM INSTRUCTION BOOK FOR CIRCUIT AND OPERATING DETAILS OF THE DRIVE REGULATOR. FOR MULTIPLE DRIVE EQUIPMENTS, DRIVER/REGULATOR OPERATING TABLES ARE ON SHEETS 1A, 2A, 3A ETC.

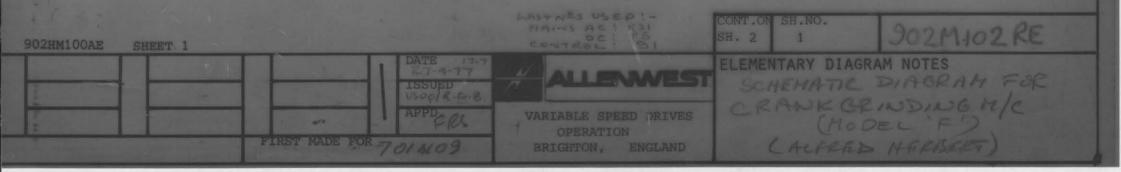
	DRIVER/REGULATOR	
LINE FREQUENCY	DRIVER CURRENT LIMIT	REGULATING LOOP
60HZ50HZ	NONE_0-75HP_75/HP	VOLTAGE CURRENT DC TACH AC TACH
SYSTEM REFERENCE	LINEAR TIMING	TACHOMETER VOLTAGE - N.A.
20V_10V_3V	0 SEC0.5-3SEC 3-30SEC30- SEC	43-62 VDC,26-48 VAC60-115 VDC, 47-85VAC 100-200VDC, 82-152VAC180-380VDC,151-275VAC
AUXILIARY PRESET REFERENC	E AUXILIARY PRESET REF DIRECTION	REGULATOR COMPENSATION RESPONSE CURRENT LIMIT

TOP SPEED/BASE SPEED

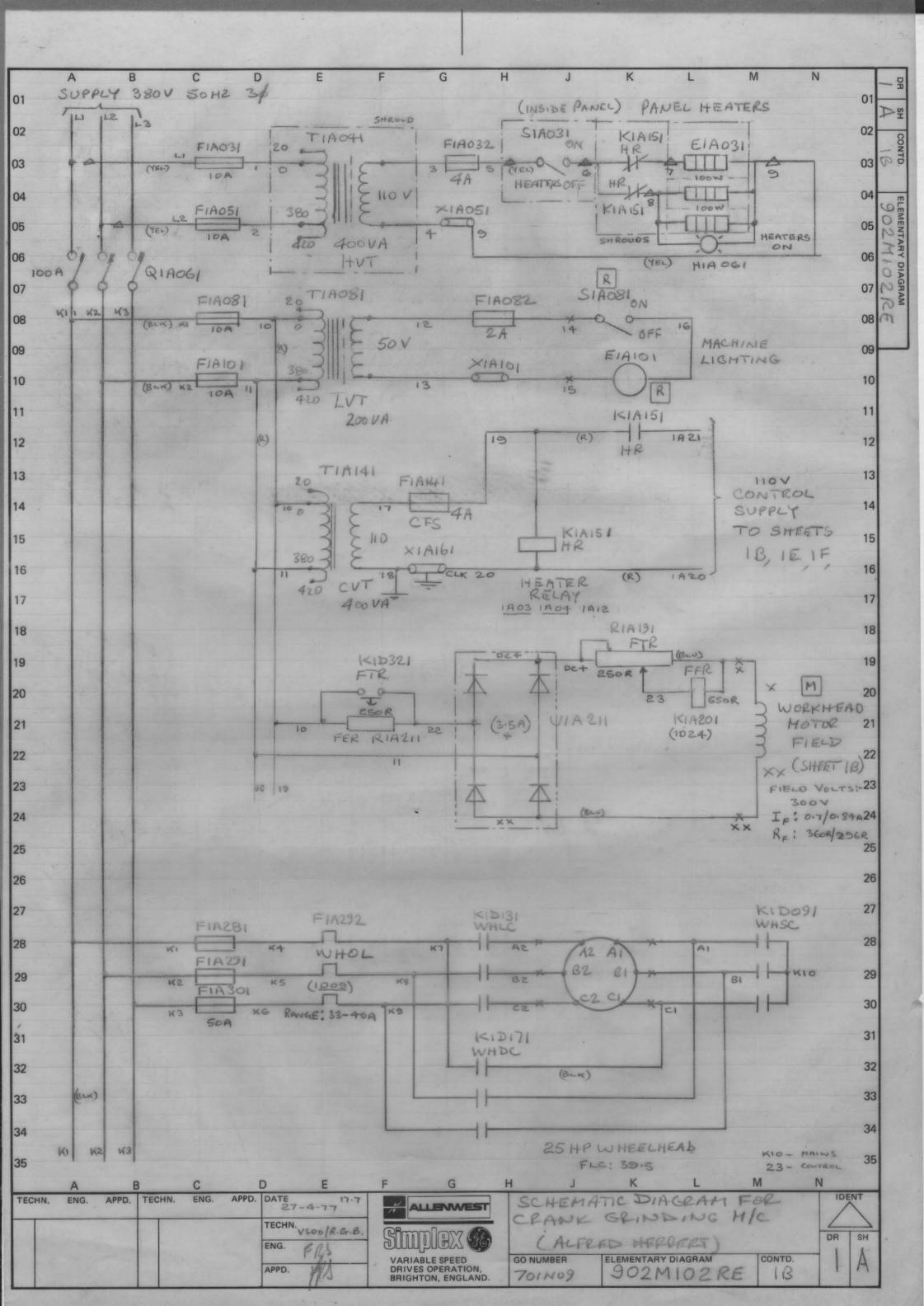
0.9-1.0 1.0-1.1 1.1-1.2 1.2-1.2 1.3-1.5 1.5-1.6 1.6-1.8 1.8-2.0 2.0-2.2 2.2-2.5 2.5-2.7 2.7-3.0 3.0-3.3 3.3-3.7

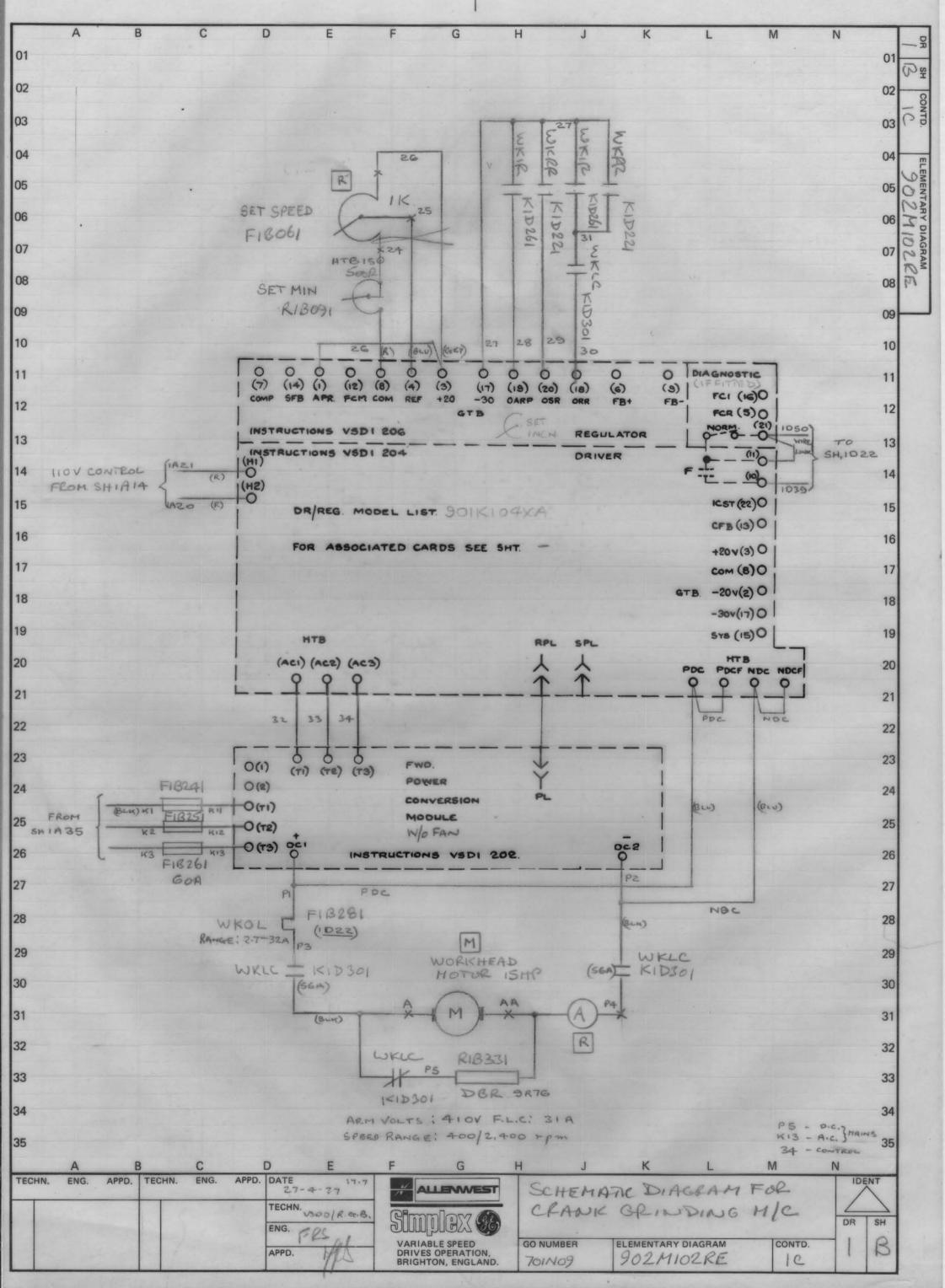
SEE SYSTEM ELEMENTARY FOR ADDITIONAL REGULATOR CIRCUITRY -

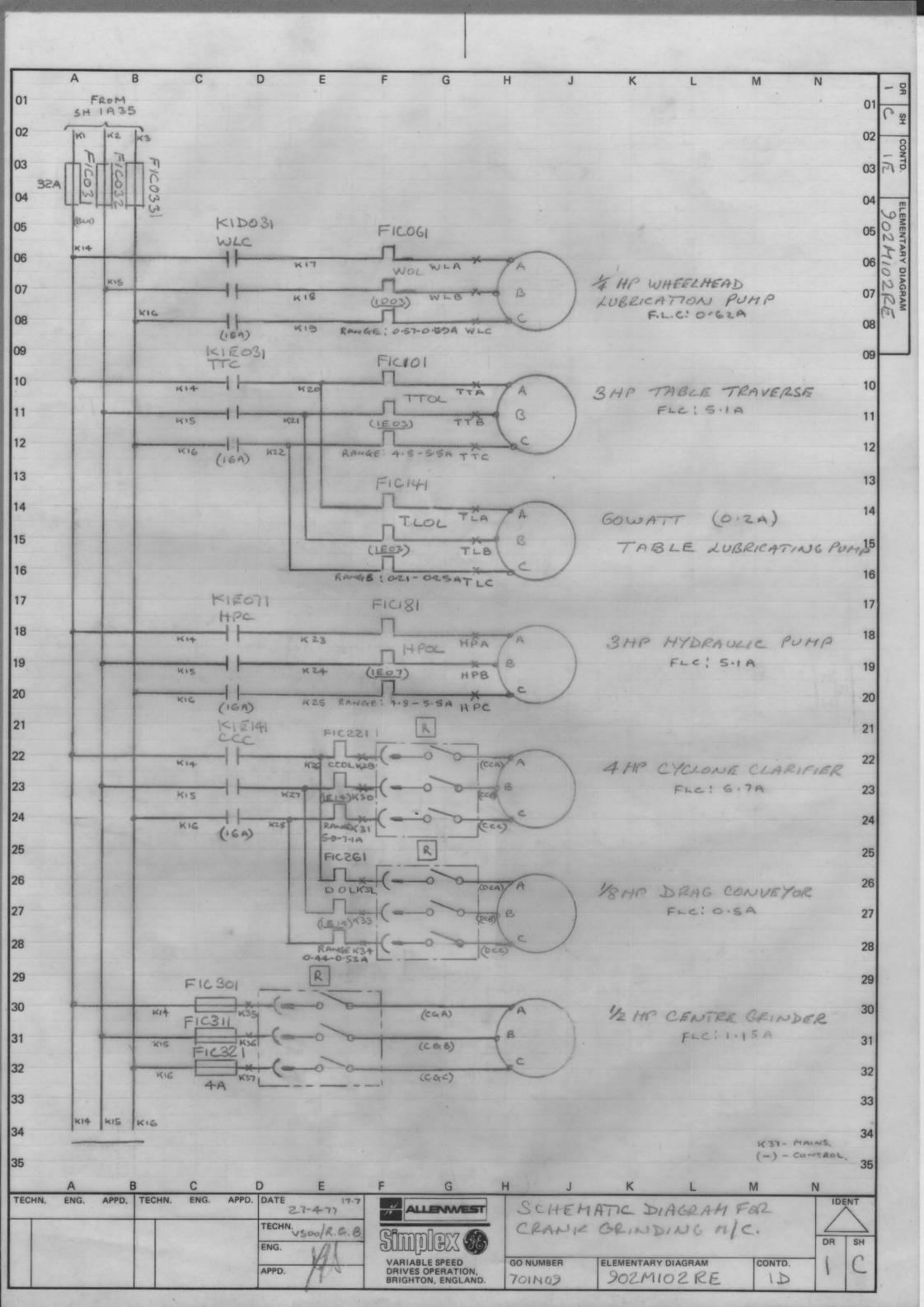
DRIVER/REGULATOR INCLUDES INSTRUMENT FUNCTION

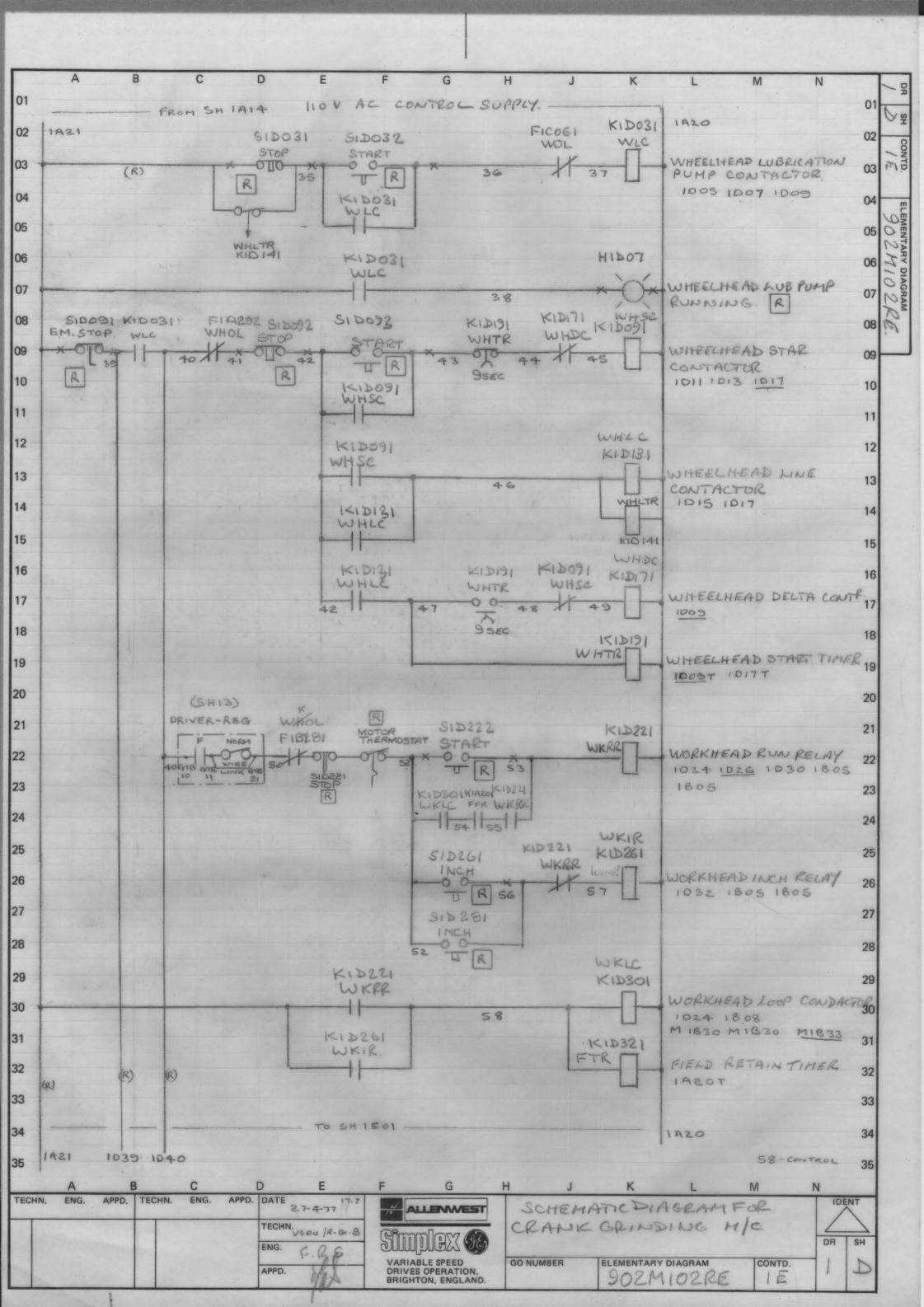


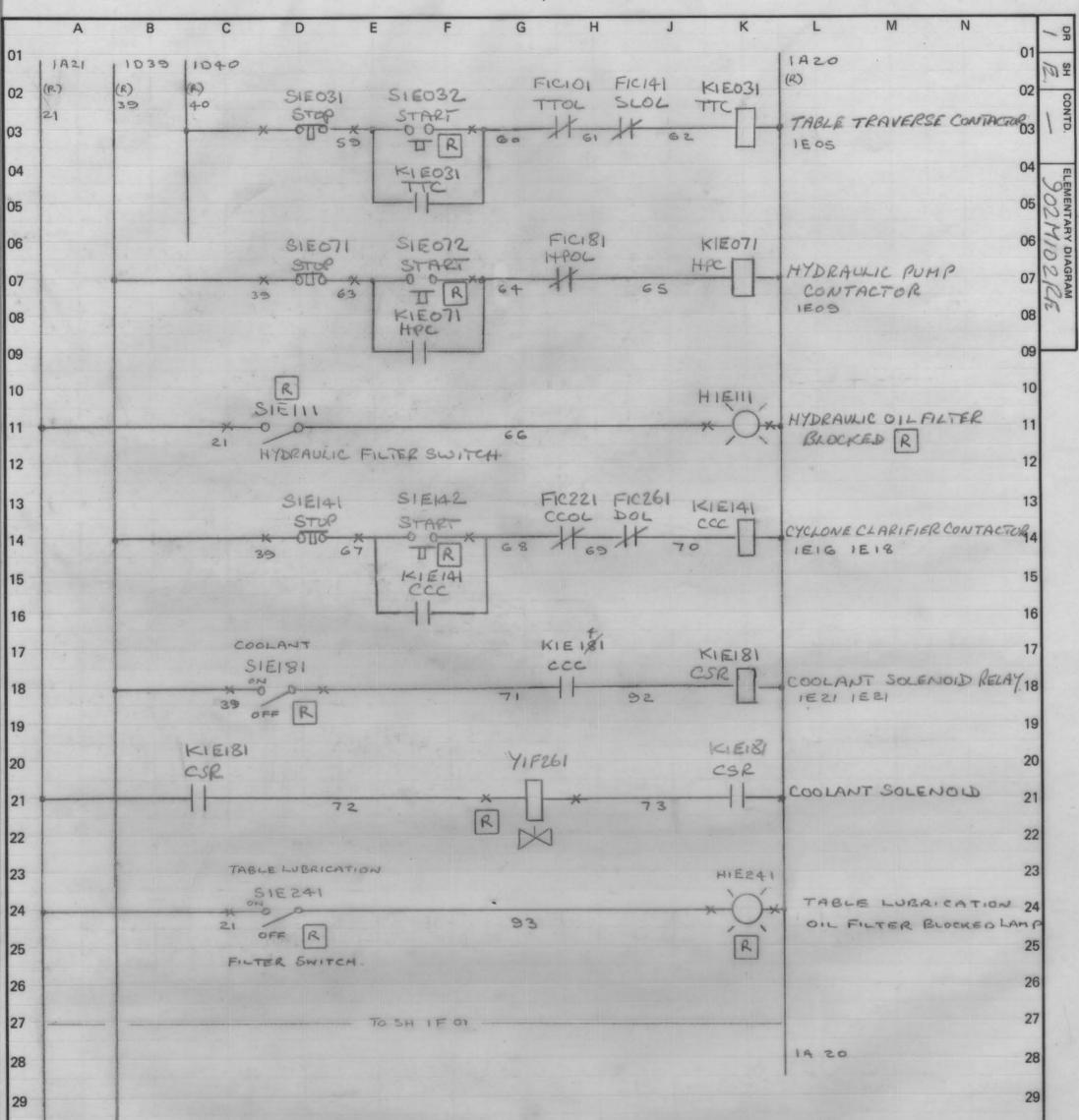
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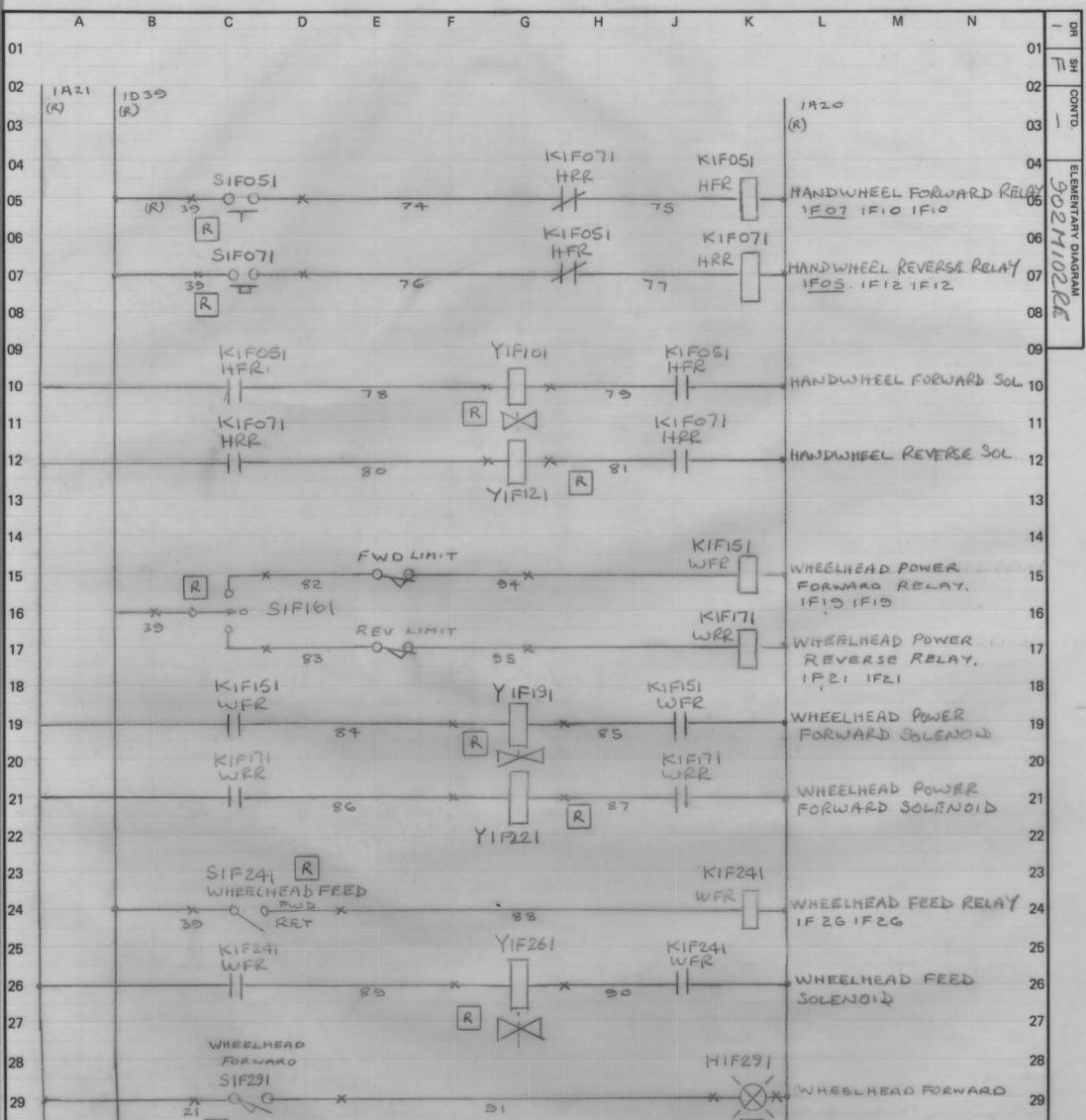




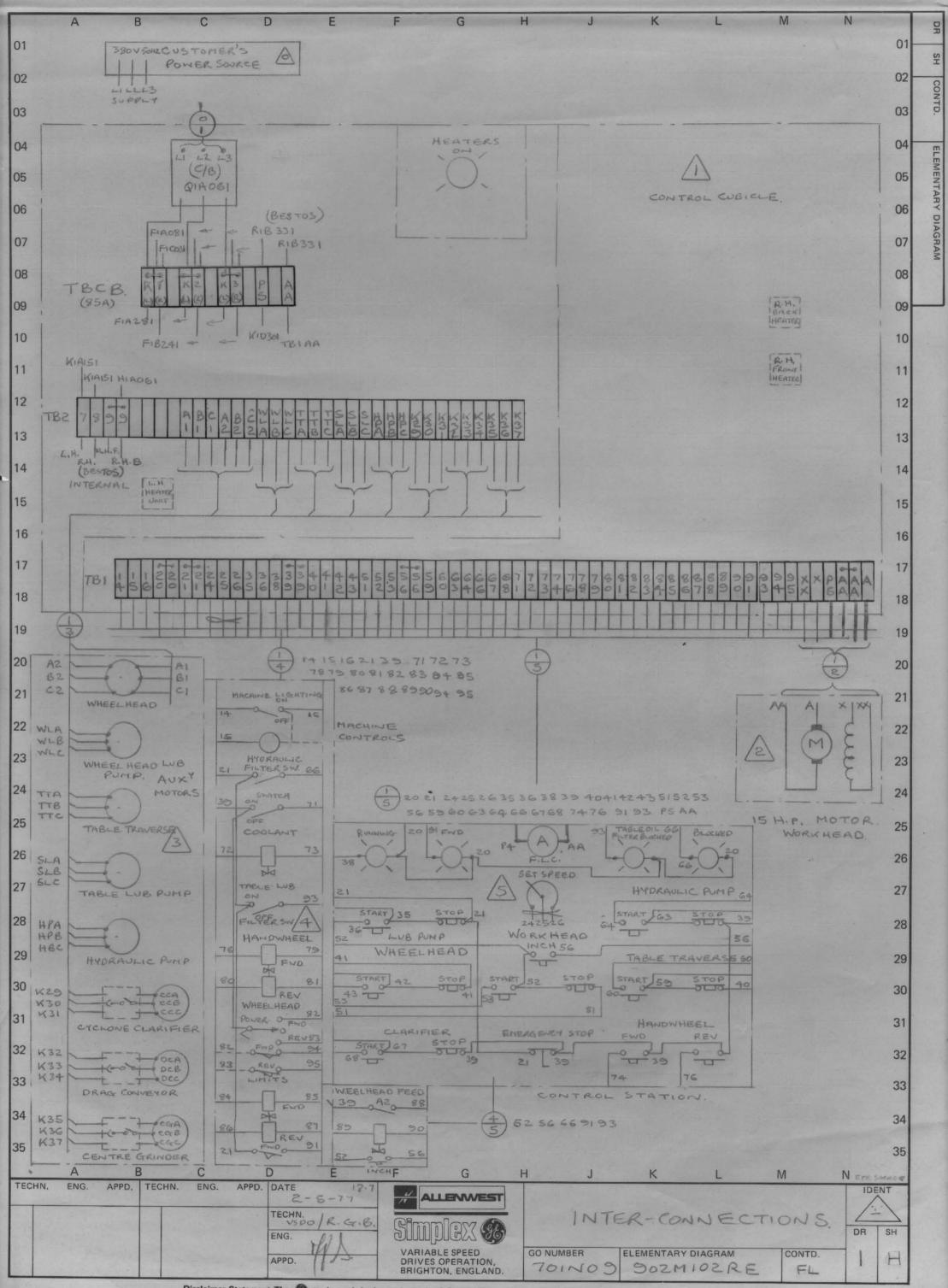




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35								95- CONTROL (94295)	- 35
A	ВС	D	E	F G	Н	J K	L	M N	1
TECHN. ENG	APPD. TECHN. EN	IG. APPD. DA	27-7-77			HATIC DIAG	DING HT	c l	IDENT
		EN	IG. F. R.S.	Simplex	G (H	IDRAULICS	ol.) (ALFRE	D HERBERTI) D	R SH
	DATE	AF	PD. MA	VARIABLE SPEED DRIVES OPERATION BRIGHTON, ENGLA		1000	MIOZRE	CONTD.	IF



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AL100 LATHE. SCHEMATIC DIAGRAM FC C.N.C./3034R CABINET

G

H

ALFRED HERBERT LTD., P.O. BOX 45, CANAL ROAD, COVENTRY, CV6 5GT

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ORIGINAL ORDER No: 2/11884

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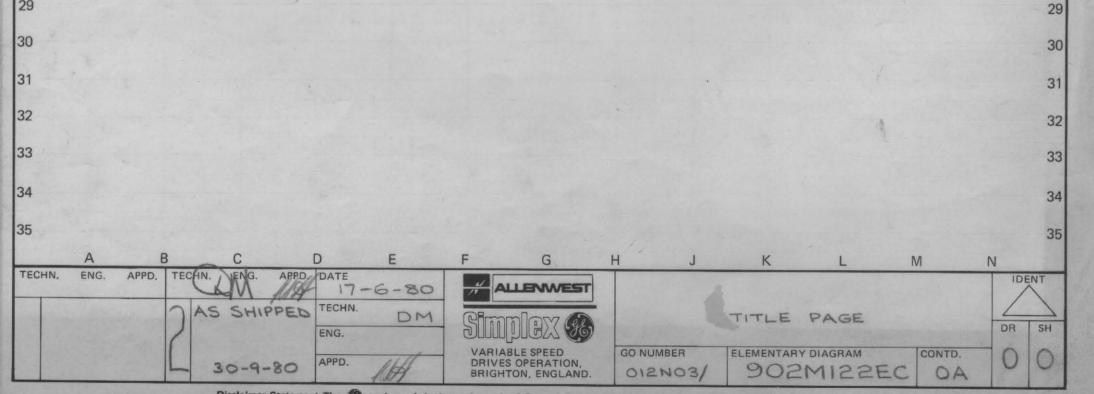
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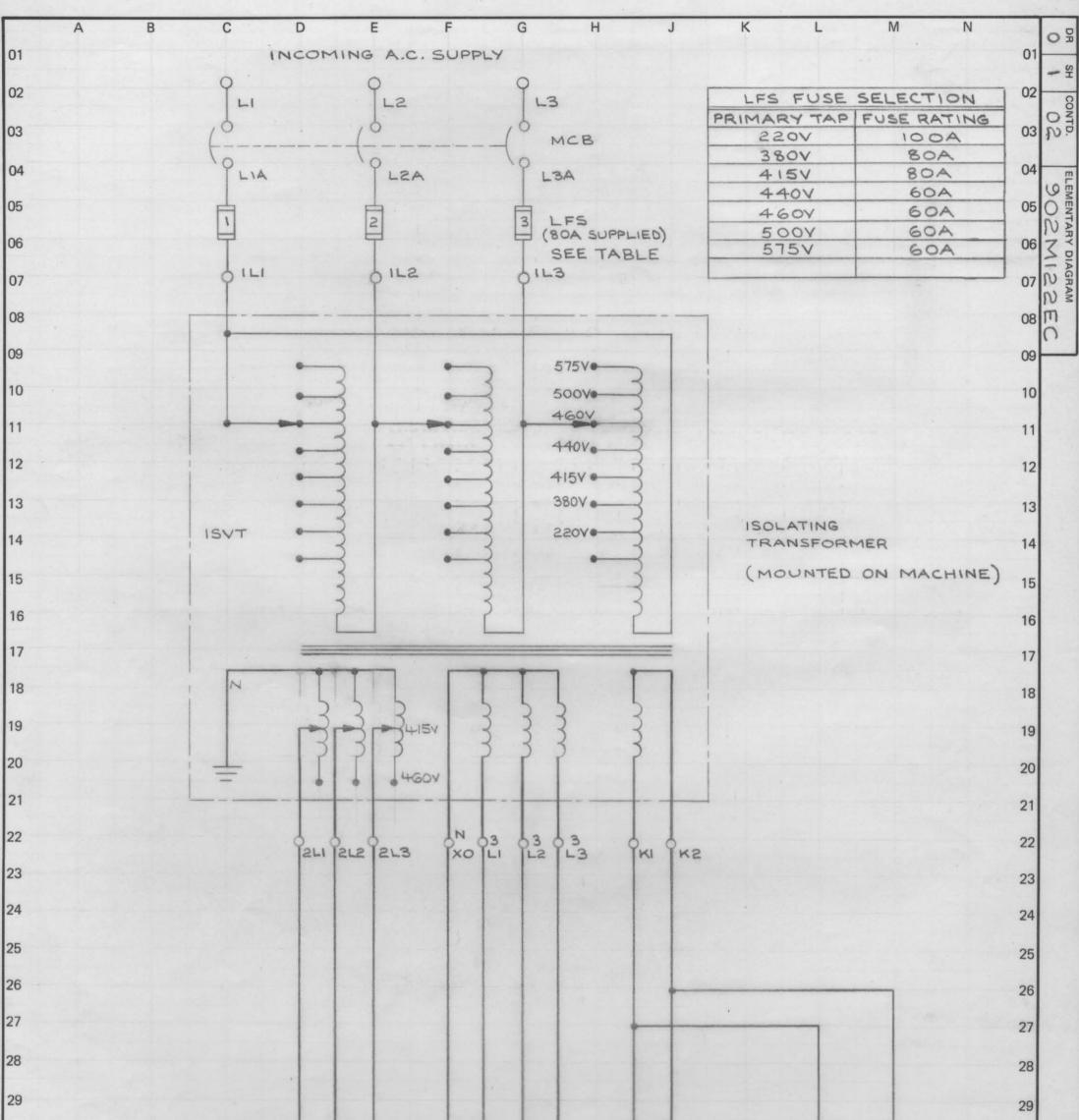
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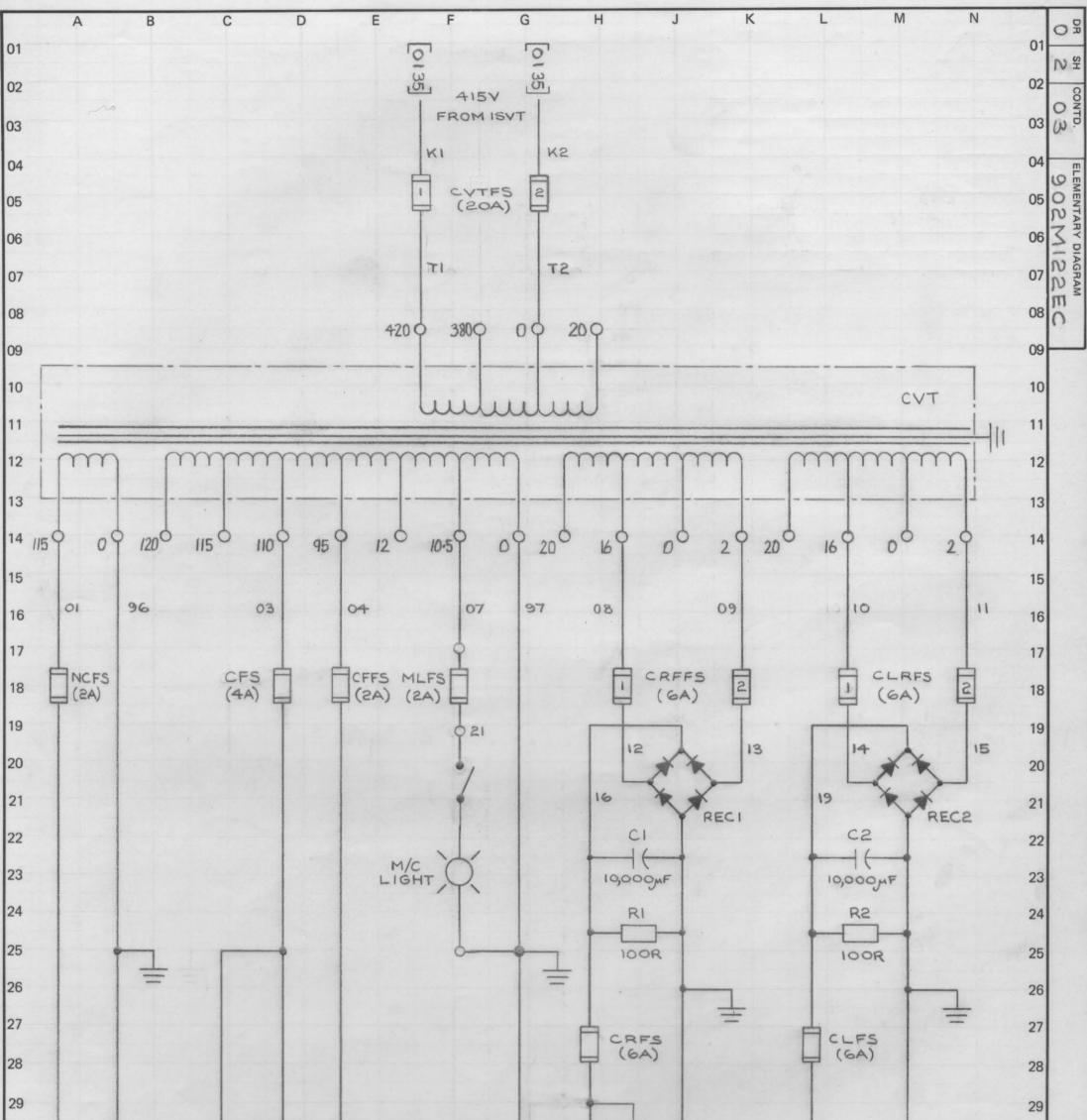


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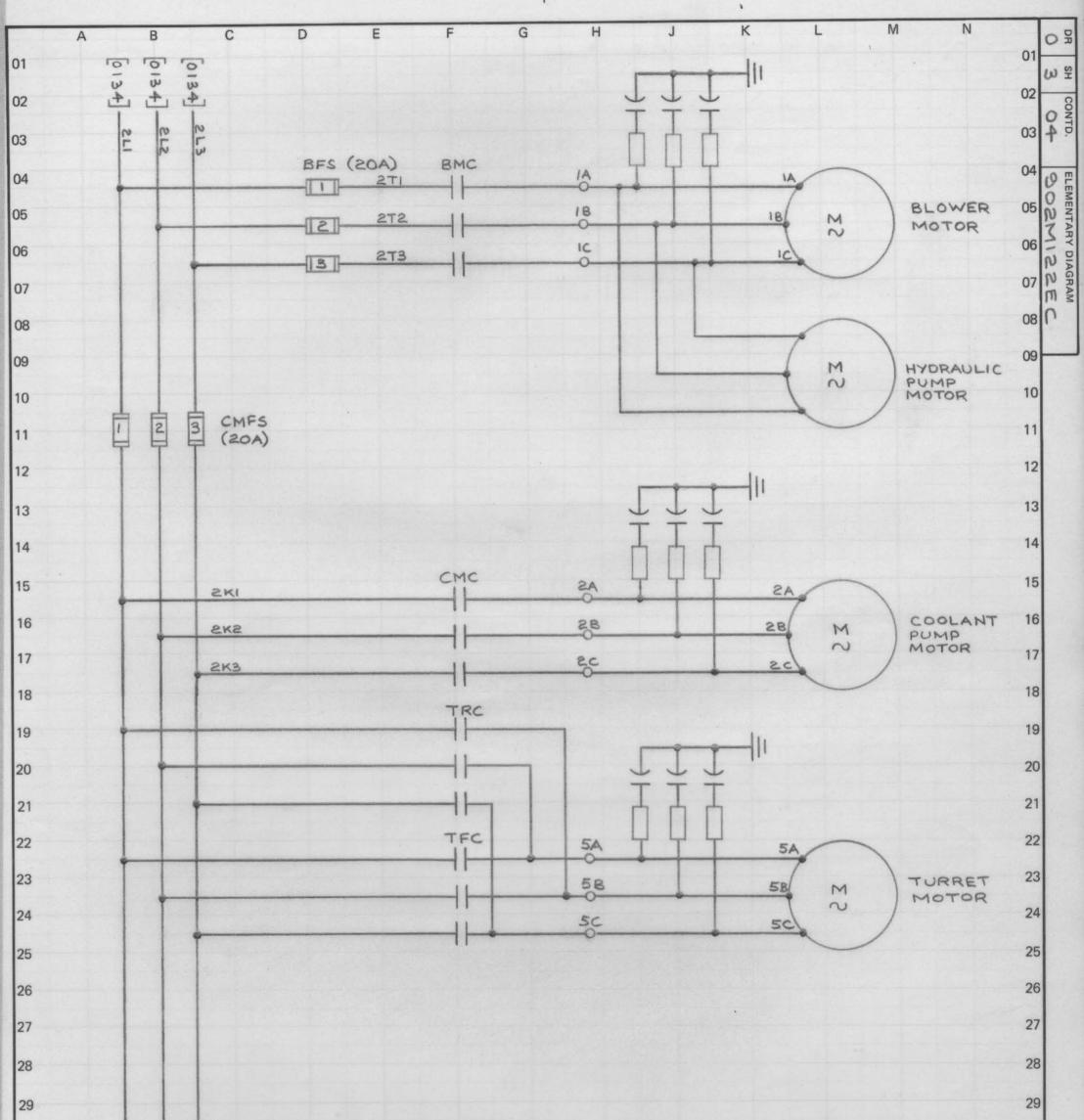
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TECHN. ENG. APPD. T	ECHN. ENG. APPD.	DATE 17-6-80 TECHN. DM ENG.	simplex &	AL100		DR SH
		APPD.	VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.	GONUMBER ELEMENTARY	MIZZEC 02	01

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35 1050HL	CONTROL CIRCU	JITS	RELAYS	SOLEN	
A B	C D E	F G	H J	K L	M N
TECHN, ENG. APPD. TI	ECHN. ENG. APPD. DATE	ALLENWEST	AL	100 LATHE	
	ENG.	Simplex 🛞	CVT CONTROL	TRANSFORME	
	APPD. Alth.	VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.		O2MI22E	CONTD. 0 2

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4	I I I TO CONVEYOR AND BAR FEED UNITS			34 35
1	A B C D E	F G	H J K L M N	
TECHN.	ENG. APPD. TECHN. JENG. APPD. DATE 17-6-80 DBAR FEED CONT. TECHN. DM DELETED ENG.	Simplex &	ALIOO LATHE	SH
	APPD.	VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.	GONUMBER ELEMENTARY DIAGRAM CONTD. 0 012N03/ 902M122EC 04	3

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H M N C D Ģ B E K OP 0 01 0 01 0 0 P ST 34 3 1+1 02 02 CONTD. . 3 3 3 03 XO 03 OT SEE INSTRUCTION BOOK 04 **760** VAC FROM 04 05 06 07 07 04 ISOLATING TRANSFORMER FOR CONNECTIONS. 05 06 XC 07 m 08 08 0 0 Ó 0 0 2TB2 07 XO LI 12 LB 09 09 AA XX ATB-FI 10 CONTROL ON 10 2 10 ATB- F2 2TBI 08 0907 11 11 × A MSR DA-I RUN 12 09 12 ENABLE SER 27829 27814 10 [0909] 13 13 BDC 3034R SPINDLE DRIVE 14 TG 14 2TB30 STBIS DIAGRAM 15 15 PO2MIZZEY 16 16 2TB22 2TB8 03 17 0 17 T THSW 18 A 18 EBITS STB8 O-T-19 19 20 20 ST823 27820 21 +201 21 2TB21 22 22 SOA 1050 HL 2TB3 23 0234 0 23 PI FALLT CLOSED UNDER STB4 27828 NORMAL CONDITIONS SIGNAL 06 11 24 1317 0 24 VELOCITY 2TB5 COMMAND ZTB27 25 25 12 OPERATED WITH 2TBG. CONVERTER ON 26 0 26 STB5 2TB7 7 8150 27 1015 27 2TBIO 3TBE

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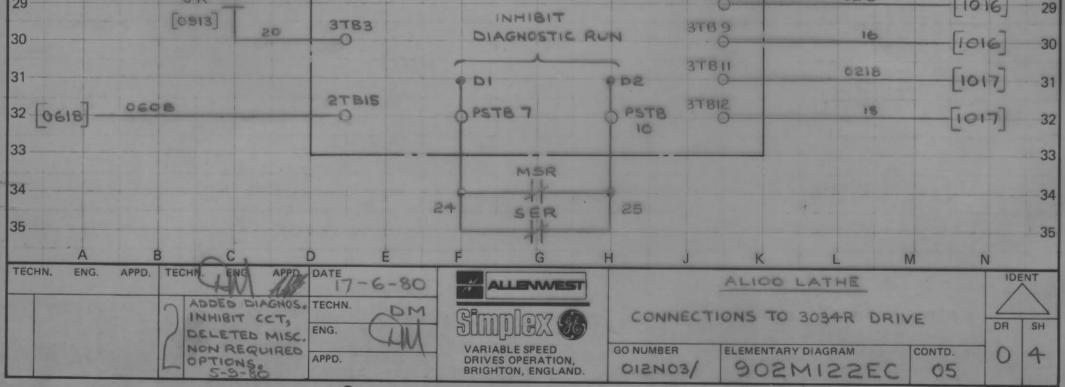
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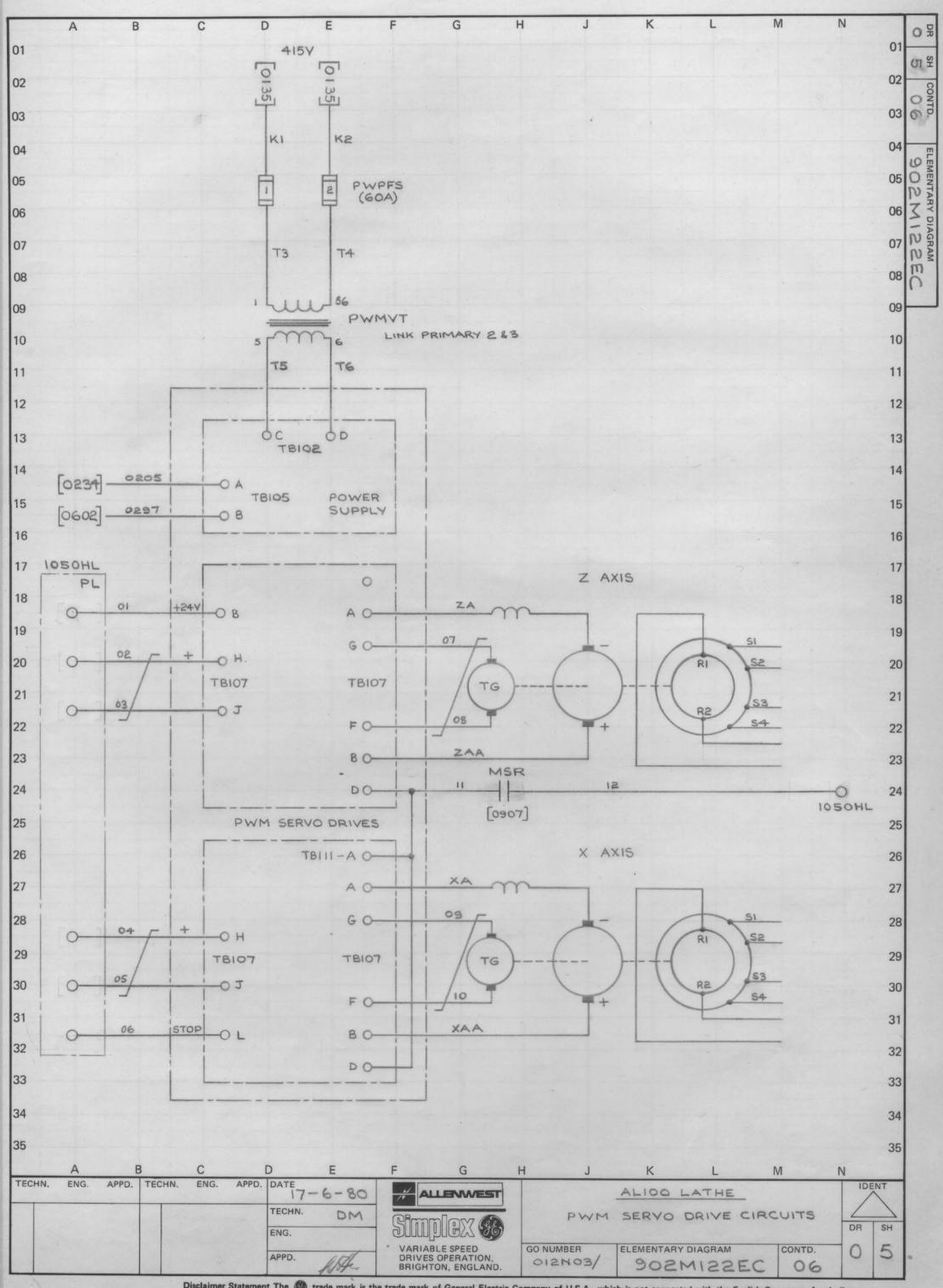
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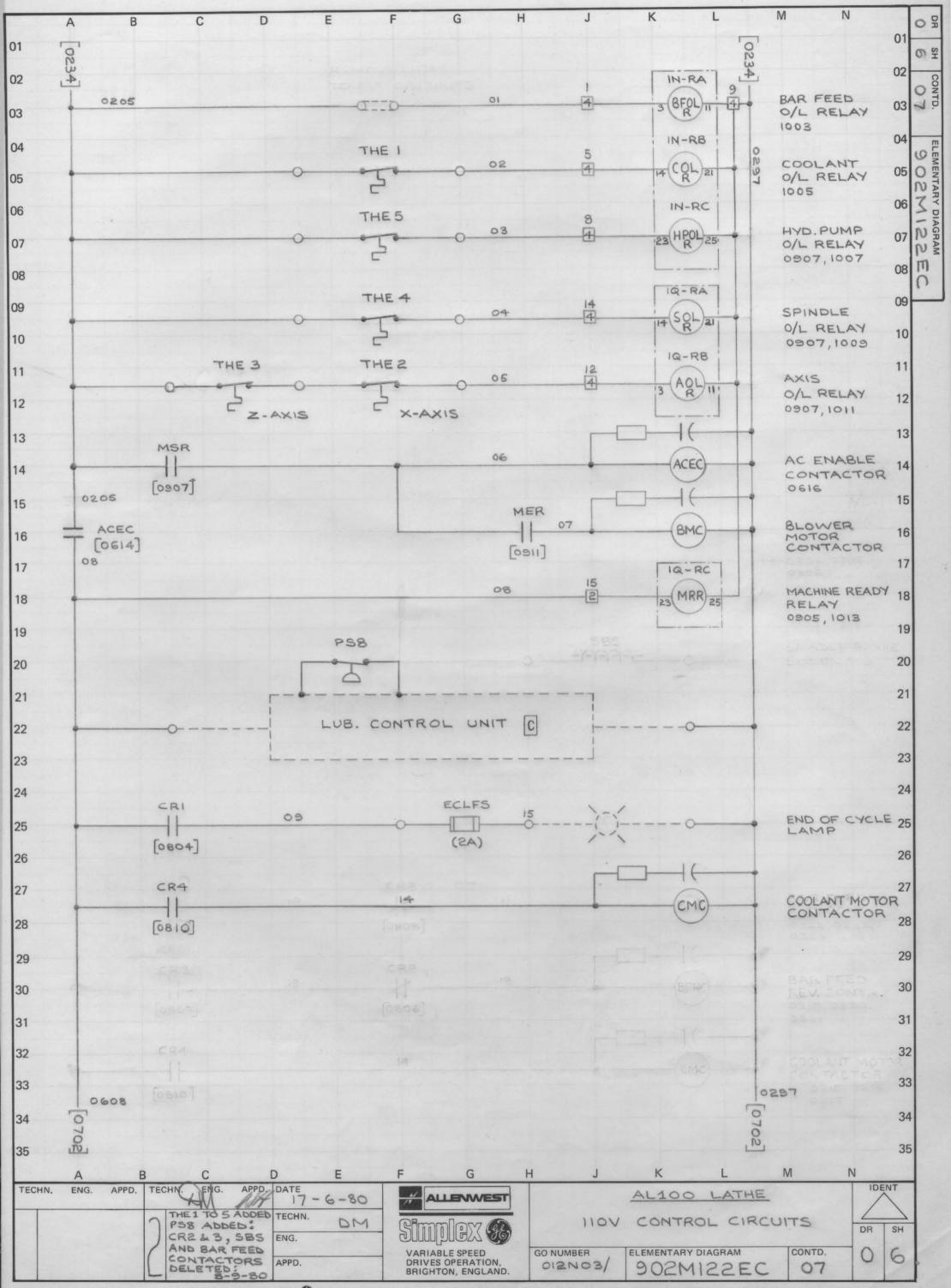
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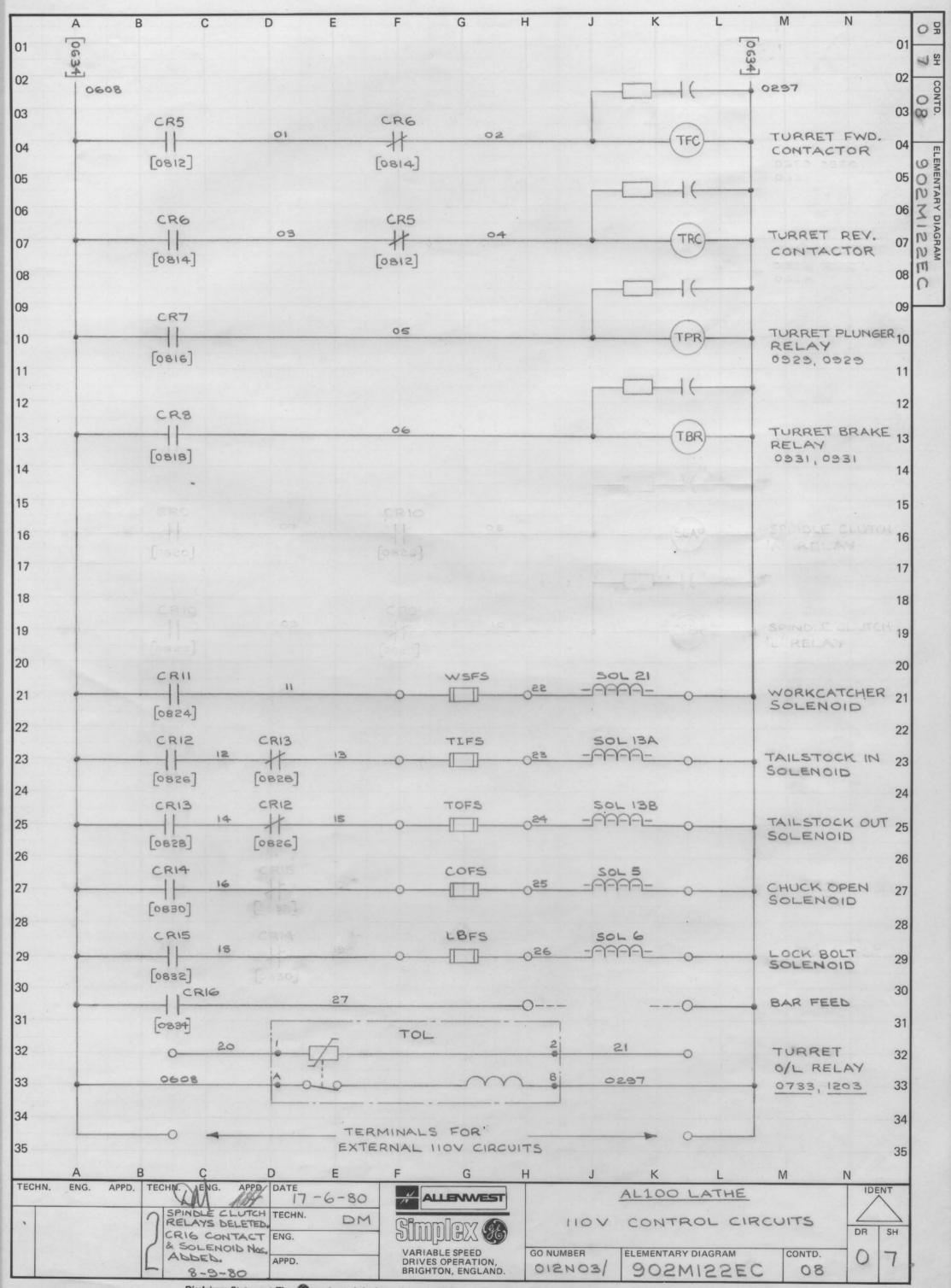
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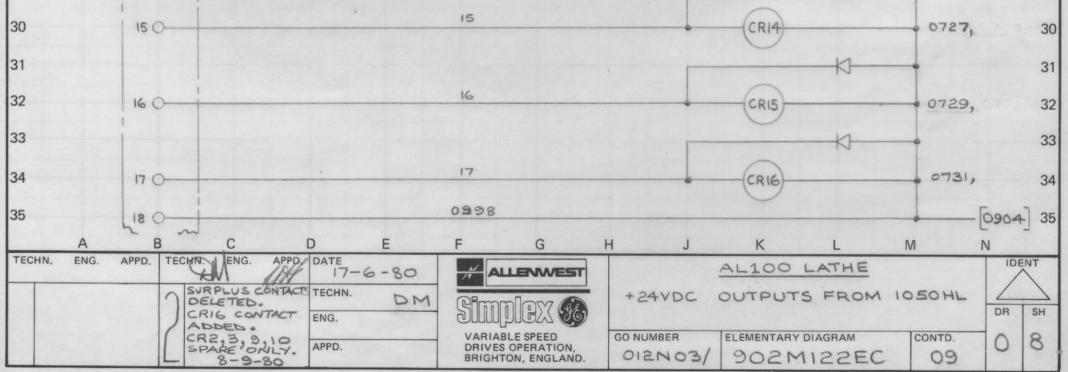


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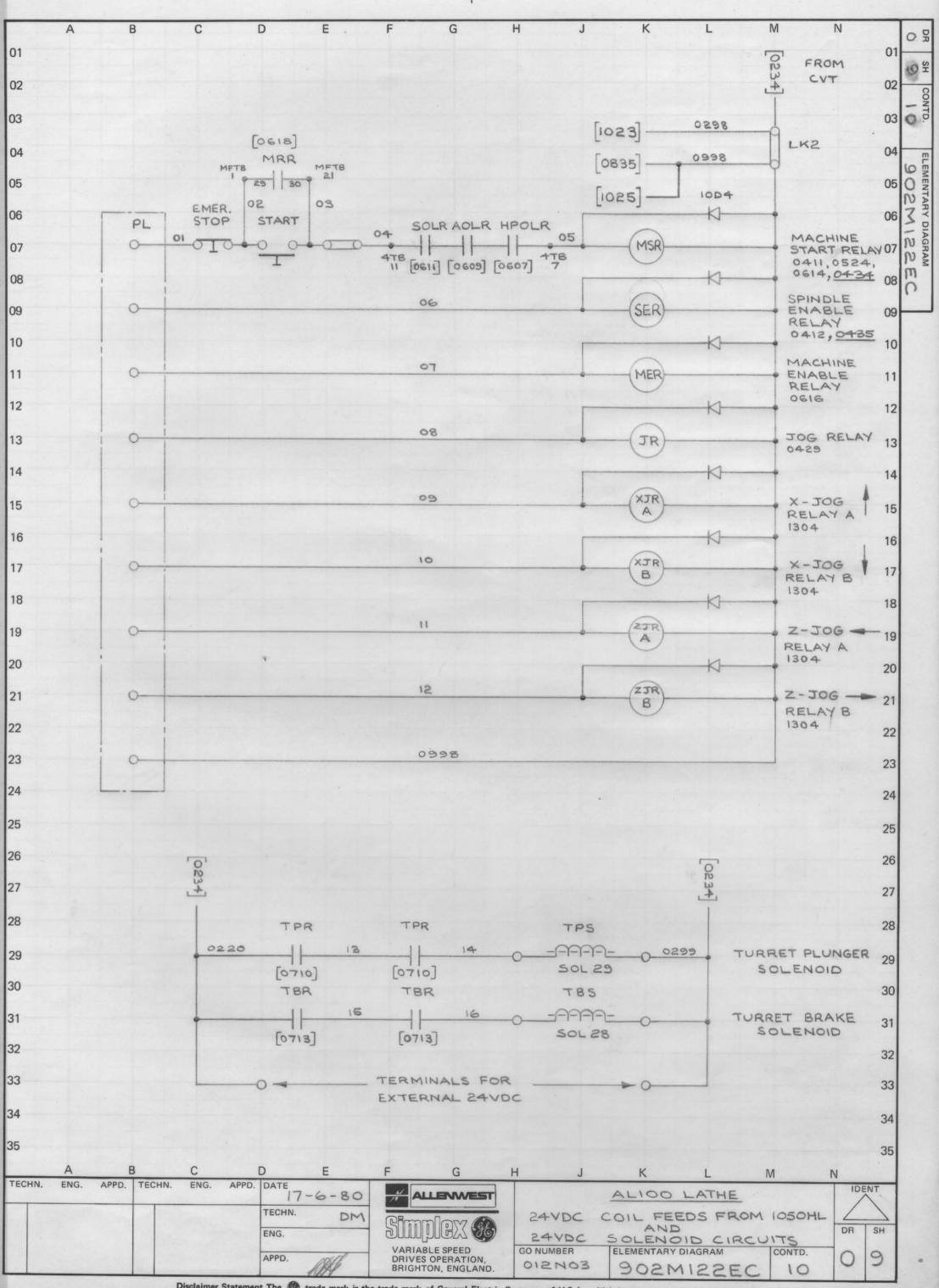


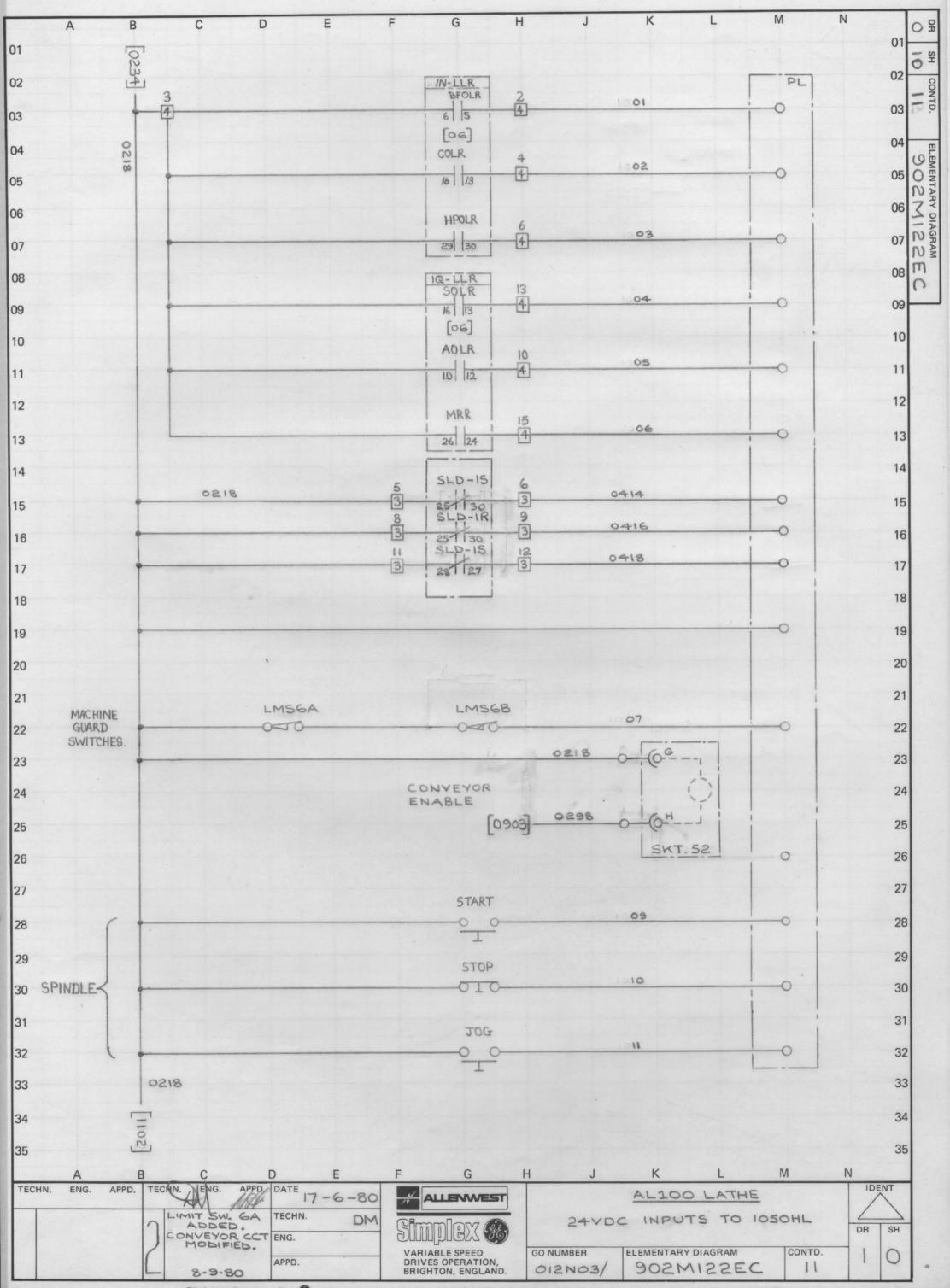
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	50	05	CR4)	0632 10
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		67	K	13
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	80	08	(CR7)	0710 16
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	90	03	(CR8)	0713 18
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	1	10	$ \land$	19
	10 0		(CR9)	20
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	120-	12	CRII	- 0721 24
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		14		27
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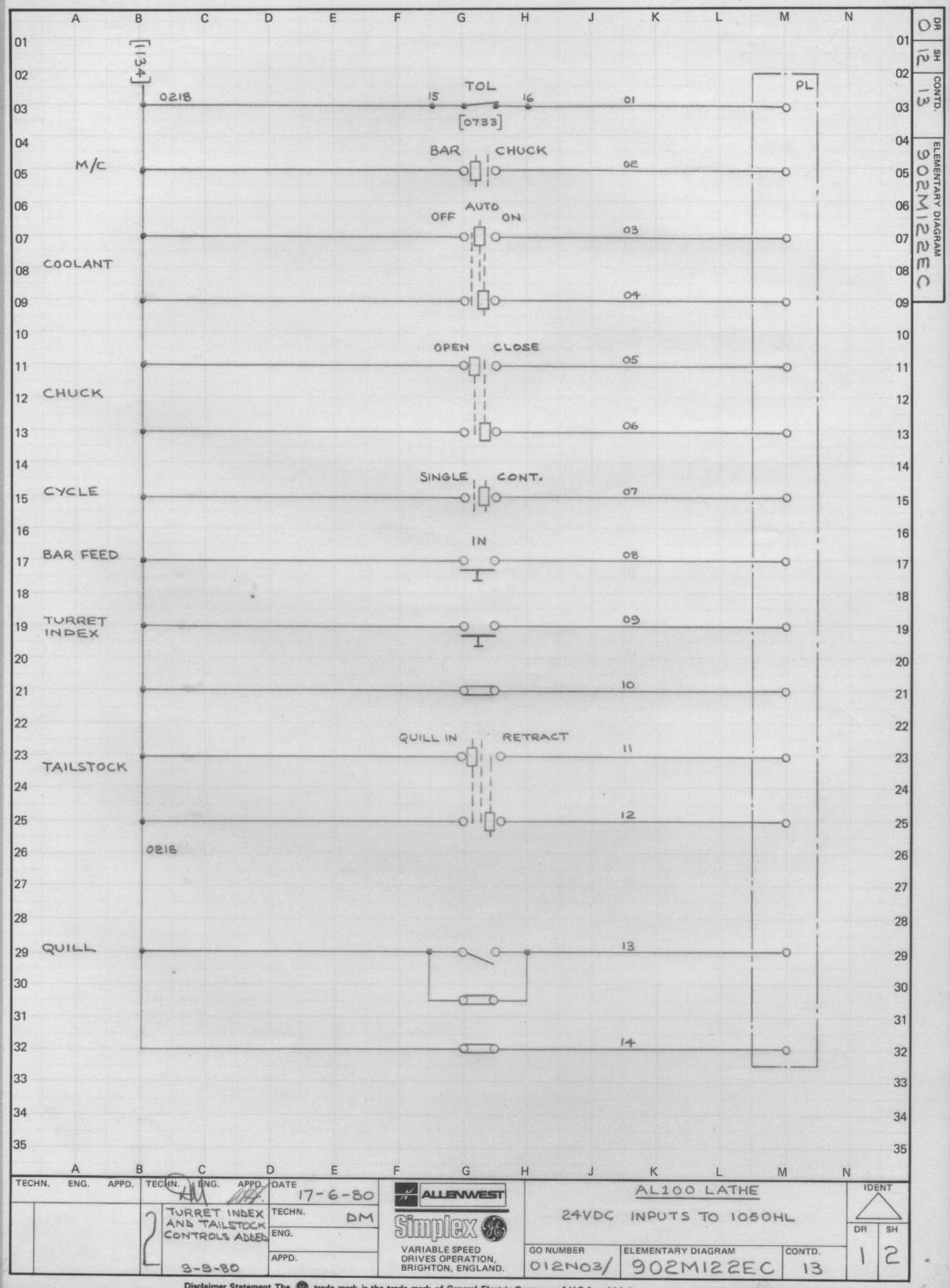


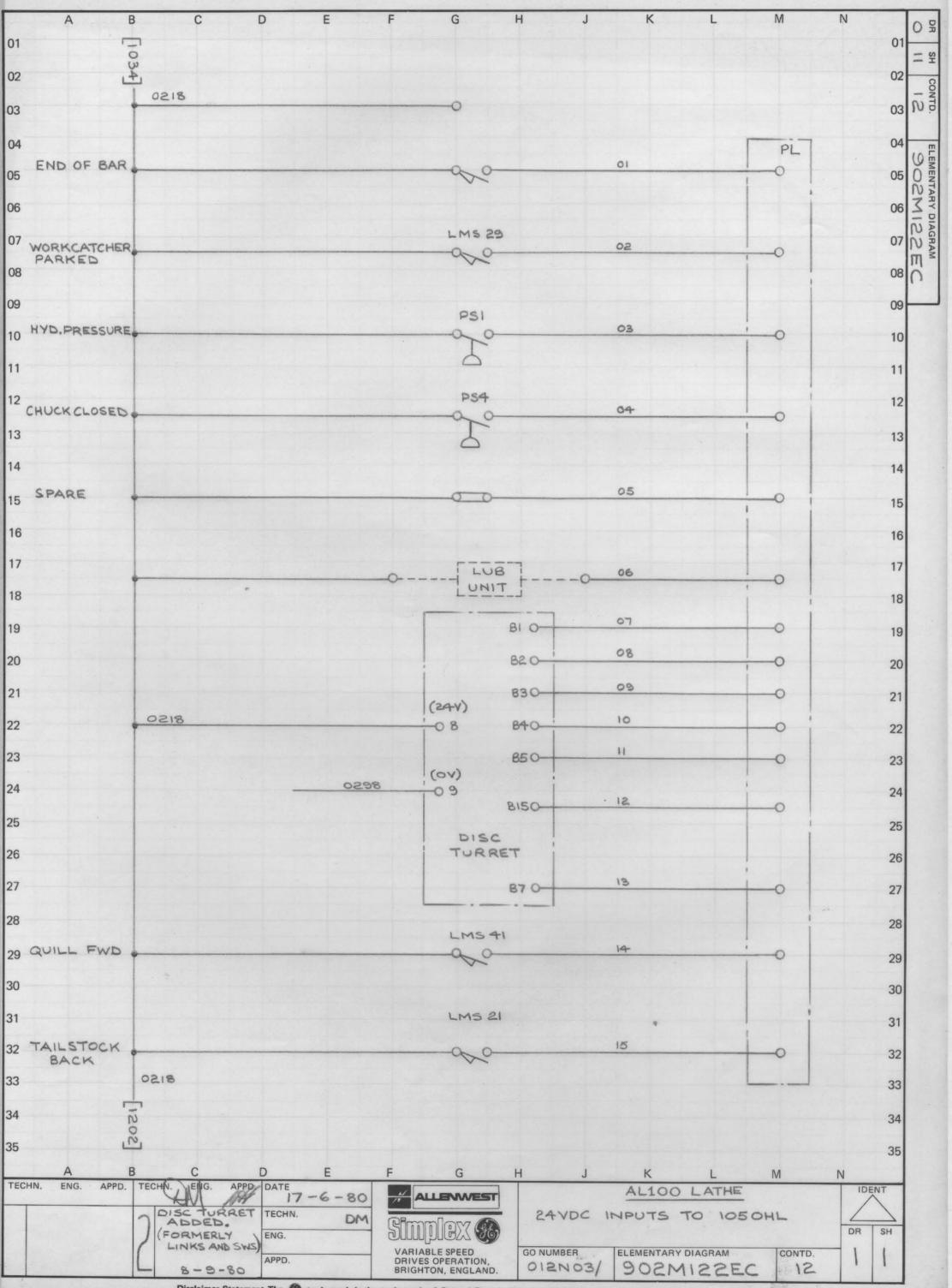
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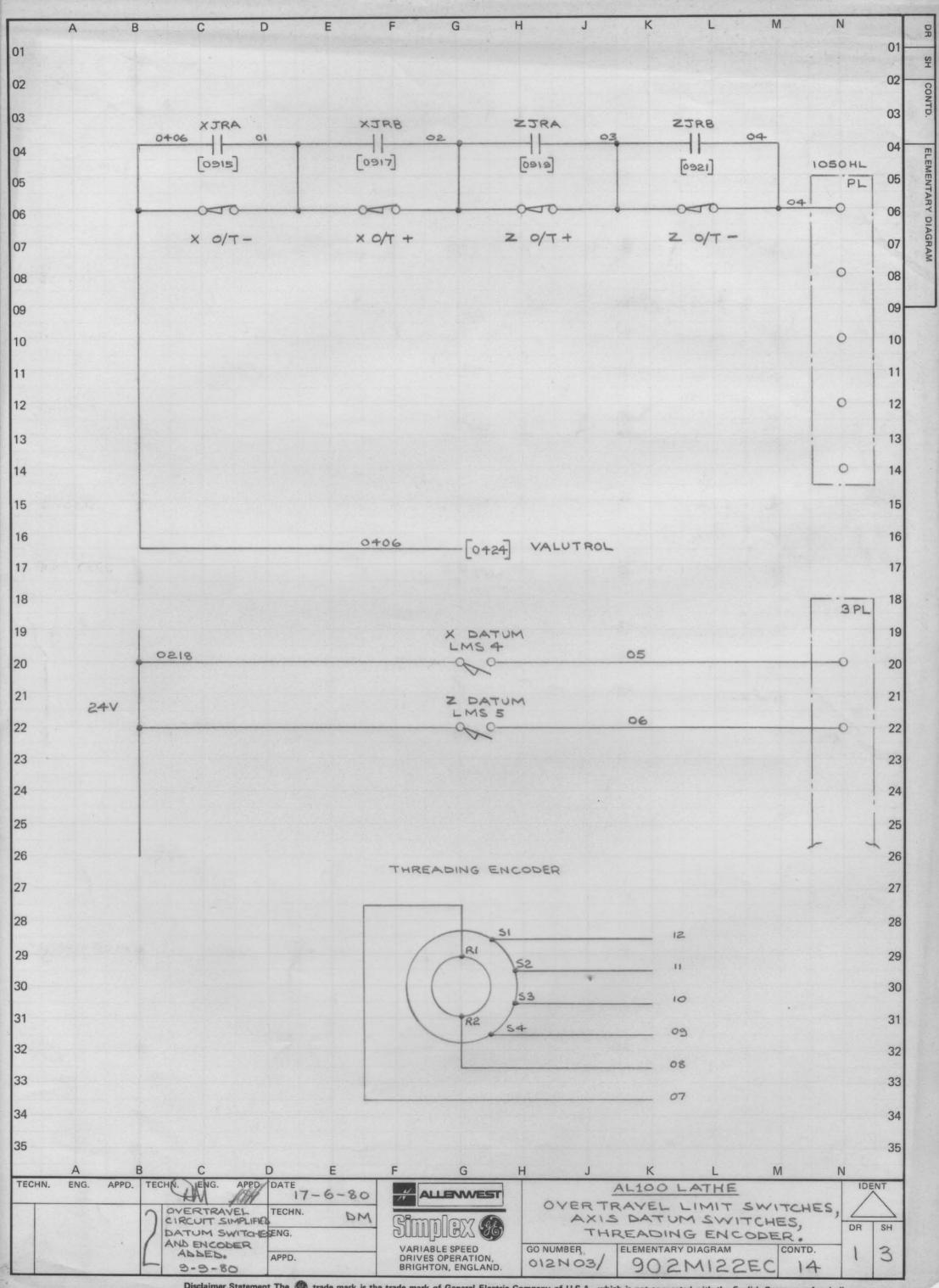


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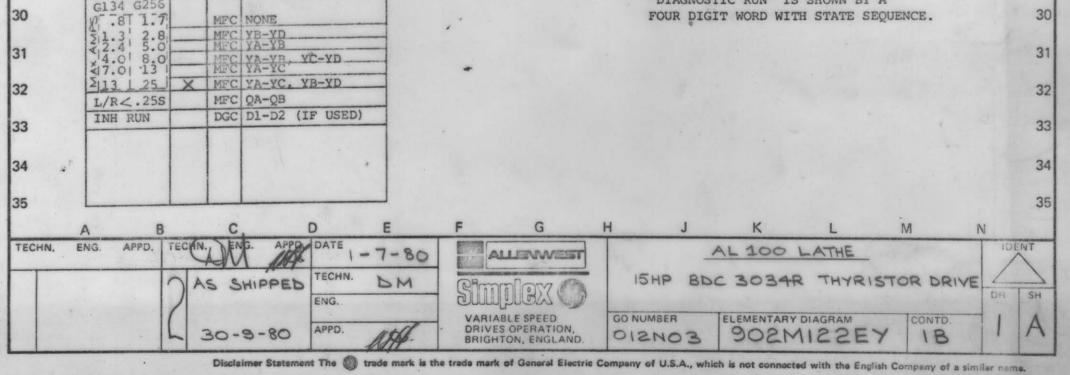


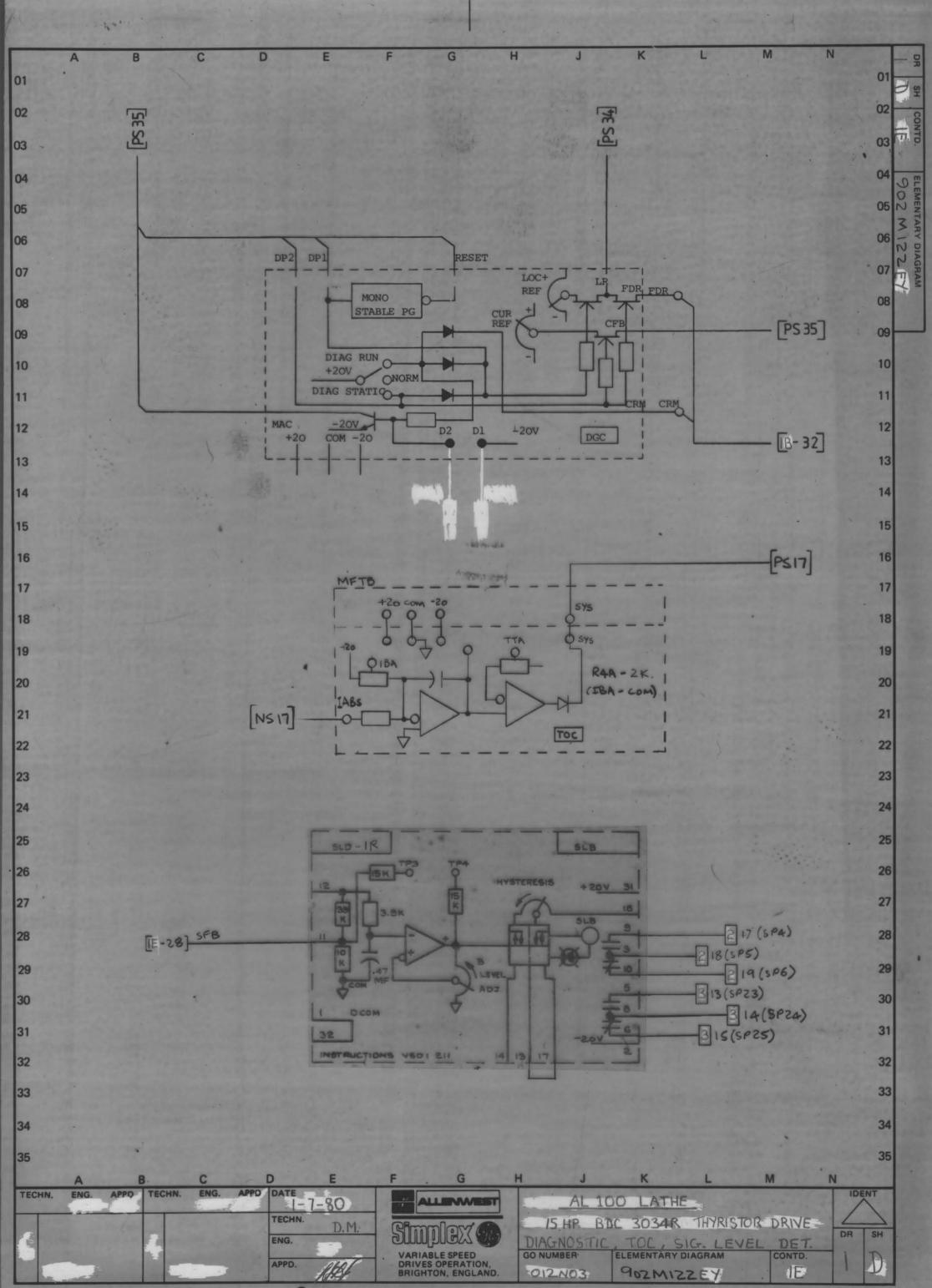
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A	B	C	D	E	F	G	н	J	K	L M	N
VOLTAC	GE POLA	RIES SHO	OWN ARE FOR M	DTORING DAL	(+)	SI	GNAL DEFI	INITIONS AN	D LOCATIO	NS	0
HARDWA	ARE ABBI	REVIATI	ONS								
	1. 1. 1										0
MCC			ROL CARD			*	CEMF	COUNTER	EMF (181	6)	
IFC		TERFACE		5		*	CFB .		FEEDBACK		0
PSC			PLY CARD)	-		CMFA			EMF (ICO8)	
DGC		GNOSTI	ASSEMBLY				CRM		ER MODIFY		0
MFC			LD CONTROL				DFP DR		FIRING P REFERENCE	OWER (1C25)	
		LOW LIN	LO CONTROL				EAO		MP OUTPUT		0
MDR	MOI	DIFICAT	ION RACK				EST			P INPUT (IC14)	
							FALT	FAULT (0
SYMBO	C					*	FC		URRENT (N	s26)	
SIMO		AMP	LIFIERSVI	10			FDR			REFERENCE (1008)	0
	FR2	5		-			FEA .			JUST (1C25)	
VI	The	VO.	RI				FF	FIELD F	AULT (182	8)	
LRI	Jul	1	7 482				IABS			SOLUTE (ICO9)	. 0
-1	22		R2				ILA			JUST (1C23)	
$v_0 = \frac{1}{1}$	R2 VI		$10 = \left(1 + \frac{R^2}{RI}\right) \sqrt{10}$	11			IMET			OR METER (IC10)	1
1					1.	*	IPU LR		PULSE (DGC (1C33)	
1	CASH	GROUNI	0			*	JOG		TCH INPUT		1
VICI	V0						JOGR			PUT (1C31)	
ABS	VO =	= SIGN	() X ABSOLUTE	VALUE OF VI		*	MAC			IGNAL (1C20)	1
. 0	STAP	B ON TEL	RMINAL,				MSW		ITCH (IC3		~
-						*	OSC	OSCILLA	TOR (IC17)	1
			r 2TB, 3TB, 4T			*	PCR			F. (1C26)	
	EX:	92 -	2TB9; X2 R -	RTBX2		. *	PRE			ON (1C21)	1.
0	TERM	INAL A	T.B.'s				ØSEQ		EQUENCE (
-							RERR		OR ERROR		1 × 1 × 1
The	POTH	ENTIOME	TER ARROWS ON	THE CARD			RIJ			NG JUNCTION (1C27)	1
201	ELE!	MENTARY	DIAGRAMS INDI	CATE THE			RJ RRA			G JUNCTION (1C31) SE ADJUST (1C30)	
			CTION AS THE PO				RSET	RESET (SE ADJUST (1630)	1
			OTATED CLOCKWI	SE TO INCRE	ASE	*	RTR		O RUN (IC	16)	
	FUNC	CTION.				*	RUN		TCH INPUT		1
A	THE	EP PPCT	STORS ARE CRIM	DED TN WTPE		*	SA-C		YN OUTPUT		
4100.		VESS.	SIONS MRE CRIPI	FED IN WIRE		*	SFB		EEDBACK (1
							SMET			METER (1C12)	
FUNCT	TION US	SE LOC	JUMPERS				SR SYS			INPUT (1029)	1
				2-02			TA		FAULT TRI	TRIP ADJUST (1C20)	
60HZ		and the second second	AA-AS, BA-BS, C ZA-ZB (IF USE				TF		AULT (NS2	The second secon	2
50HZ	+		AA-AF, BA-BF, C	and and the second second			TFB			ACK (1C20)	
-		X MCC	NONE				TFR			CY OUTPUT (IC13)	2
IOC-	500%		I-IHI			*	TR	TIMED R	EFERENCE	(1C33)	
-	300%		I-IJ.0			*	VFB		FEEDBACK		2
SR5	press.		(NONE)			*	WFR	WEAK FI	ELD REFER	ENCE (1C20)	-
Common and the owner of the owner o		X MCC	SRH-COM			,		DOWN ON	0000 0000	(m)	2
JOGR	lov		(NONE)			(+ TES	F POINT ON	DOOR FRON	1)	2.
	20V	X MCC	JH - COM								2.
LT.3	-7sec.	X	(NONE)								2
and the second day of second	60sec		3320FROM LTIT				MAPPIN	G SYSTEM			
VREG		And the second se	NT-CEMF, CC-C	OM			INC /DC	/201 20	DACE	IDEM	- 2
		X	(NONE) AT1-AT2				(NS/PS,	and the second sec	- PAST S		
	O FILT	and the second se	TC-TC						- NEXT S		2
TACH		1 IFC			HENCE PS	- 12 DF	NOTES LOG			LINE 12, OTHER LOC.	ATIONS ARE
	4vdc		NT-NTL, PT-PTL							SIGNIFIES LOCATION	
27-7	lvac	IFC	NT-NTL, PT-PT1			E 16 ETC.					
	60vde		NT-NT2, PT-PT2	CONTRACTOR OF THE OWNER OF				FIELD	EFFECT T	TRANSISTOR: THE	21
66-1	77vac	IFC	NT-NT2, PT-PT2							ATE OF THESE	2.
110-	300vda	XIFC	NT-NT3.PT-PT3							DITION" - "RUN"	~
120-	300vac	the second s	NT-NT3, PT-PT3	Contraction of Contra						C STATIC" -	2
G134	G256		The second second					"DIAGNOSTIC			
								NAME AND ADDRESS OF TAXABLE ADDR	IT IS AND AND AND A DAMAGE AND ADDRESS OF	TOTATTO ADDITION	2

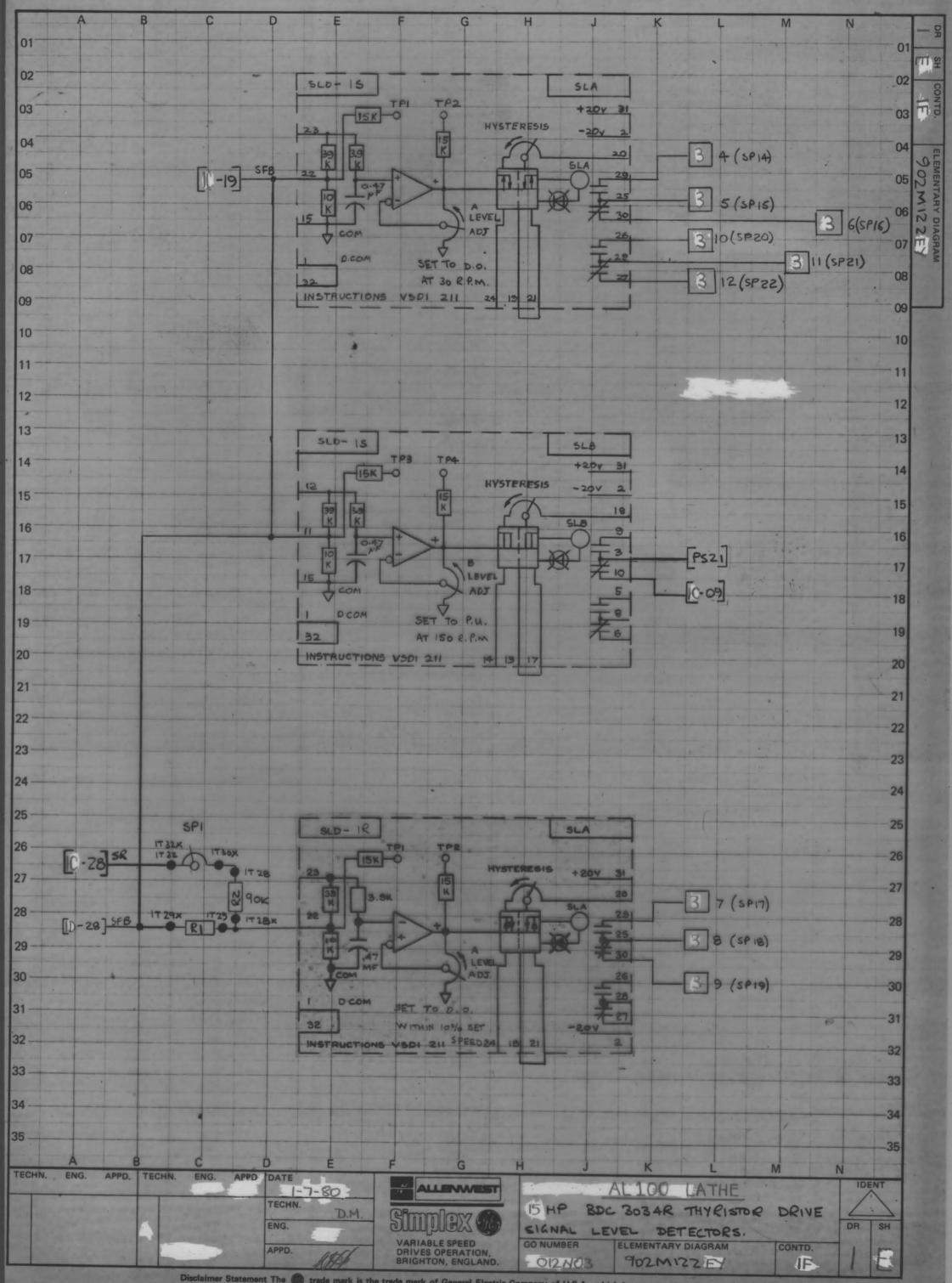
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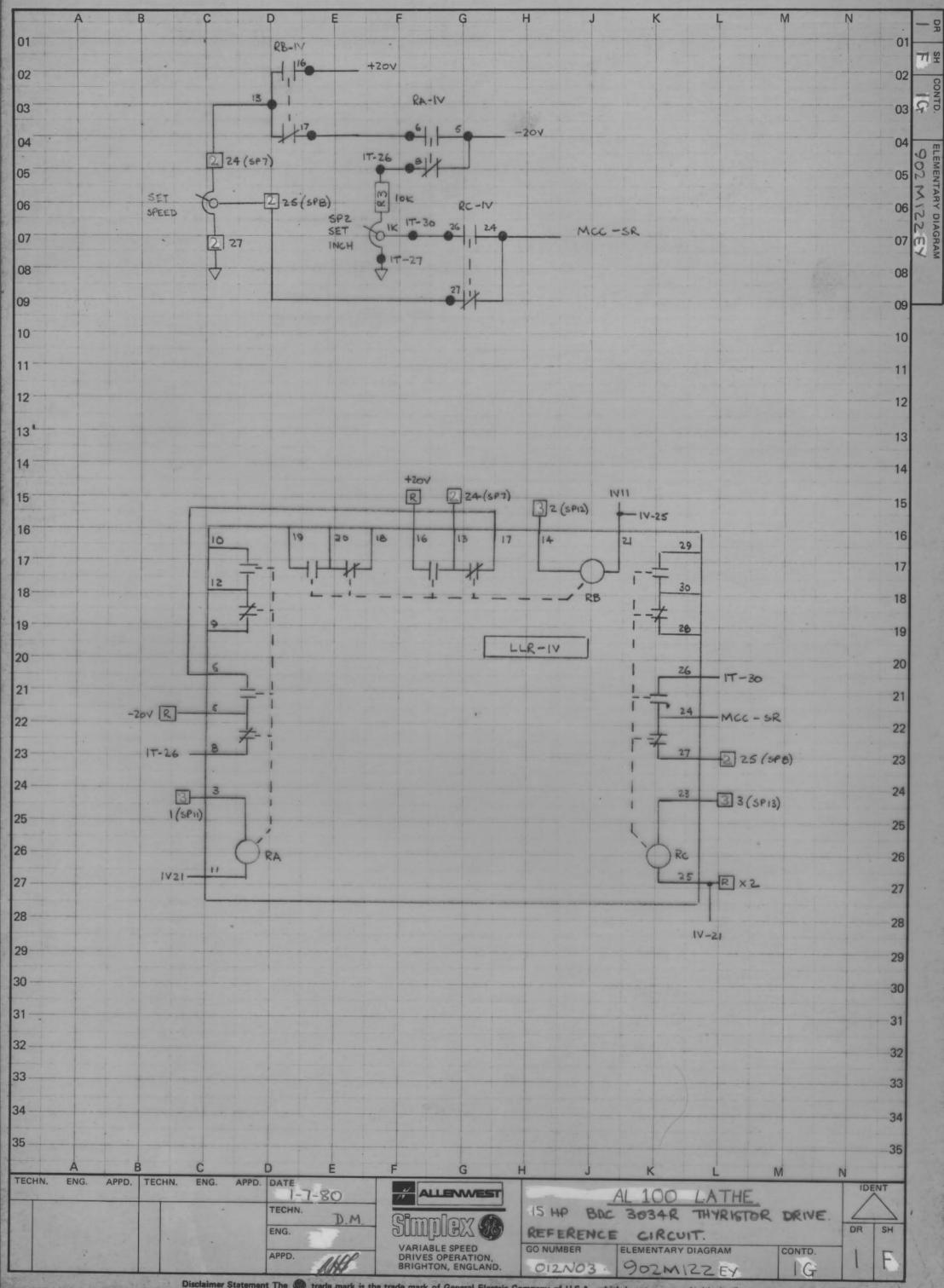
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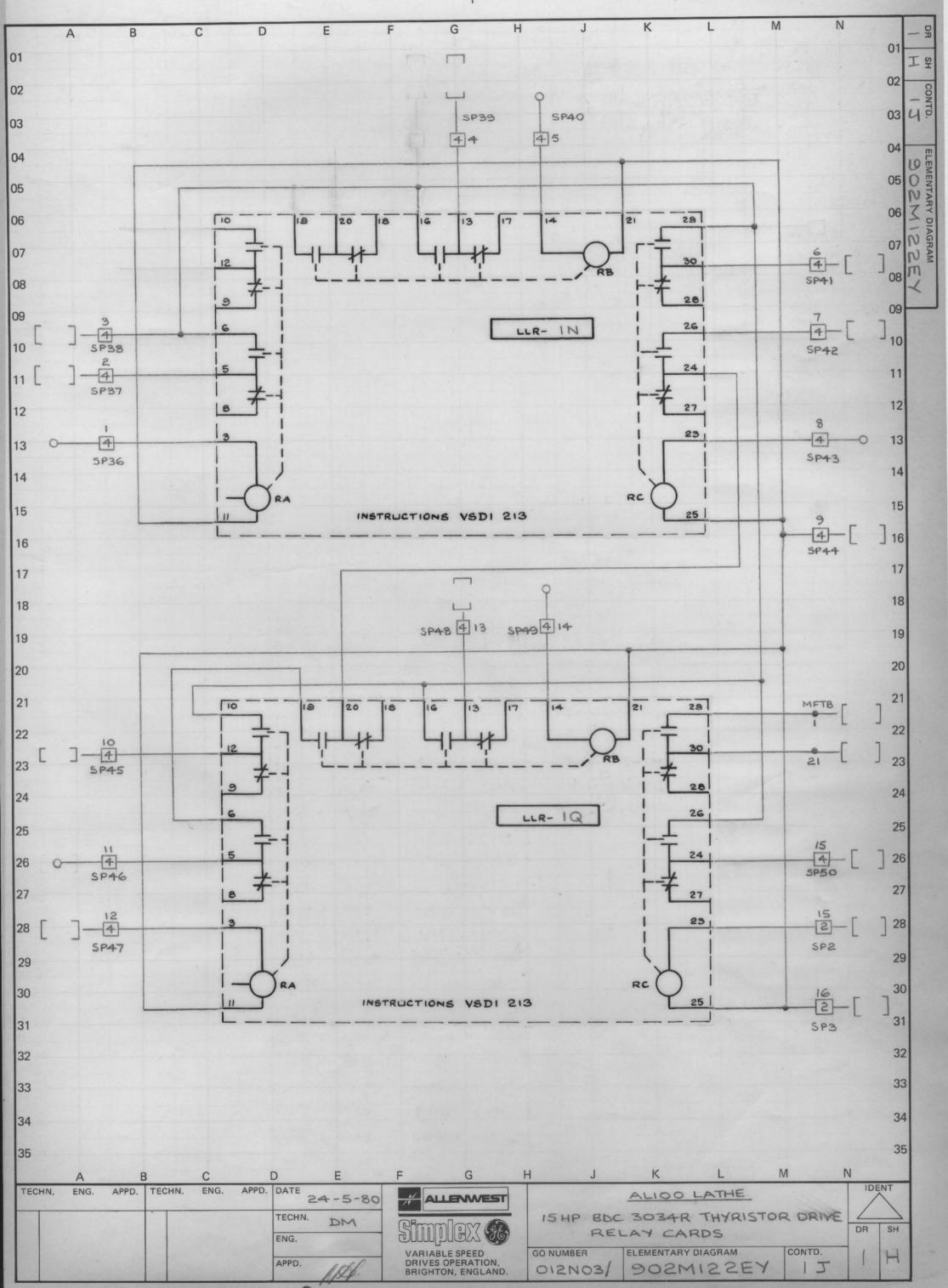




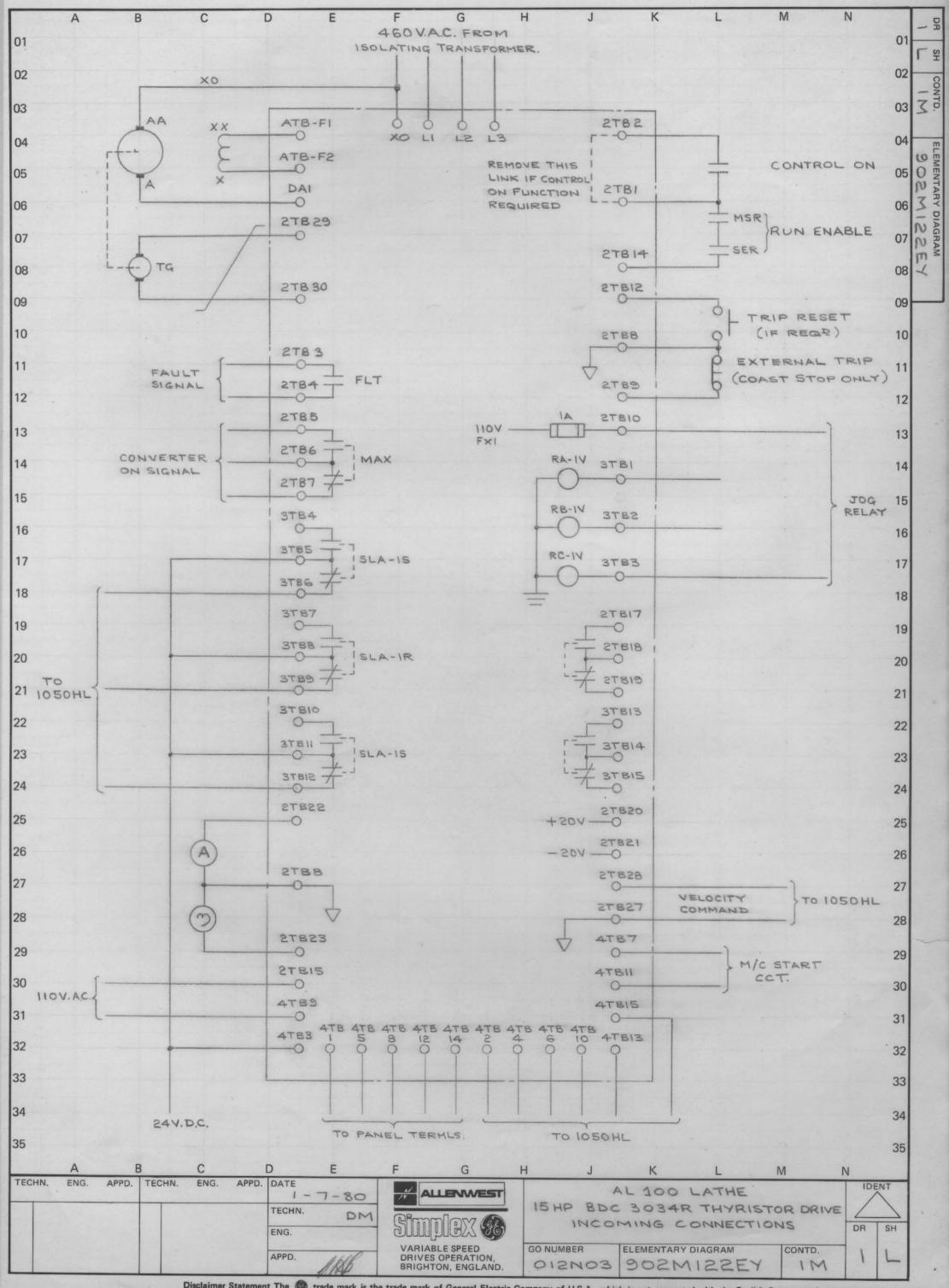
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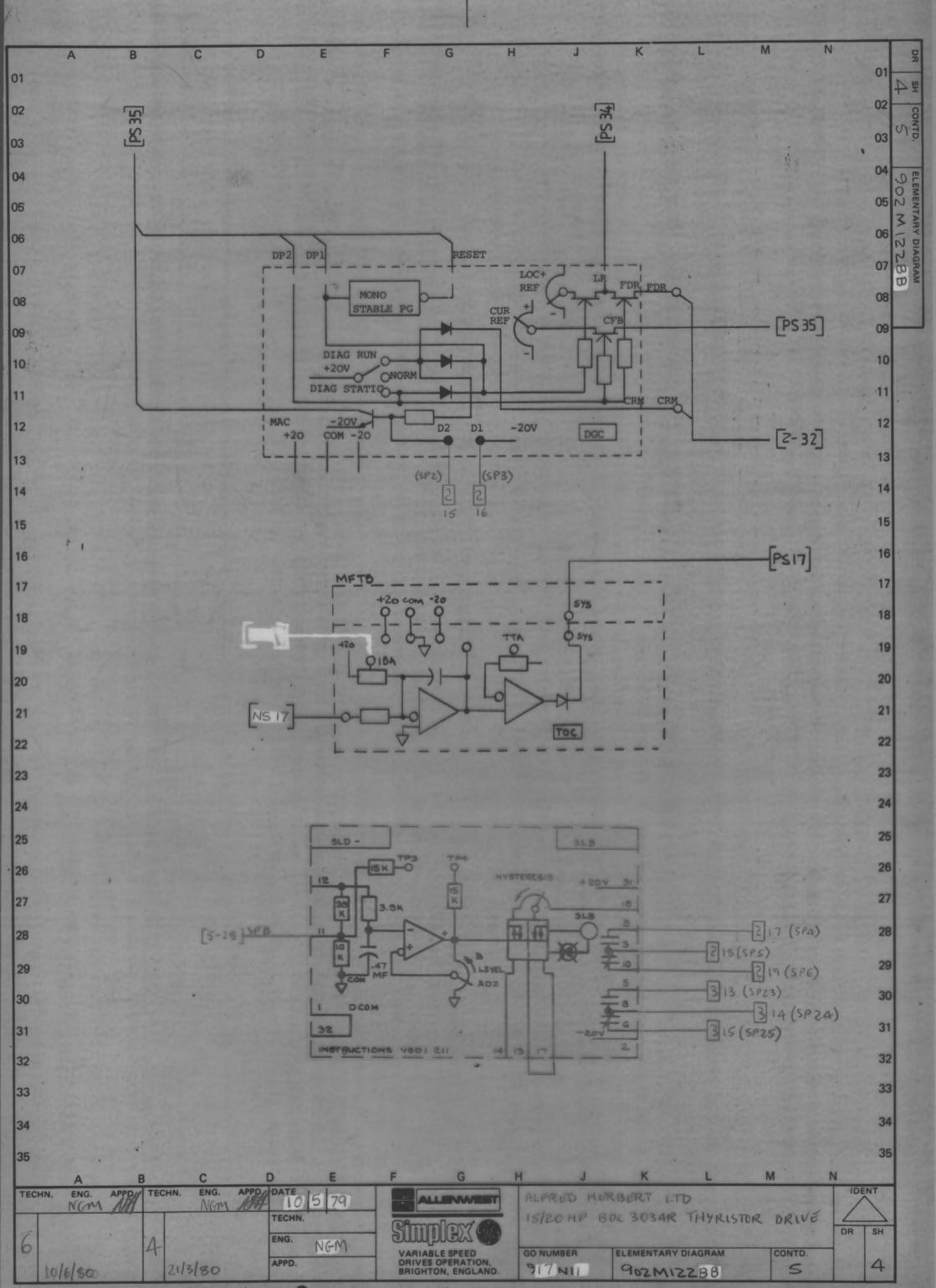
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	A B C D E F	G	н	J K	L	M	N	5
01								01
01								
02	VOLTAGE POLARIES SHOWN ARE FOR MOTORING DA1(+)	SIG	NAL DEFI	NITIONS AND LO	CATIONS			02 8
	HARDWARE ABBREVIATIONS							03 10
03								03 2
0.4	MCC MAIN CONTROL CARD IFC INTERFACE CARD		CEMF CFB	COUNTER EMF	(3-16) DBACK (3-16)			04 05
04	PSC POWER SUPPLY CARD		CMFA		LUE CEMF (3-08))		40
05	SCR THYRISTOR ASSEMBLY		CRM		ODIFY (4-11)	(F)		05 10
	DGC DIAGNOSTIC CARD MFC MOTOR FIELD CONTROL		DFP DR		ING POWER (3-2 RENCE (3-33)	:5)		3
06			EAO	ERROR AMP O	UTPUT (3-33)			06 -0
	MDR MODIFICATION RACK		EST	EXTERNAL FL FAULT (3-14	T STOP INPUT ((3-14)		07 10
07			FALT FC	FIELD CURRE				B
08	SYMBOLS AMPLIFIERS VI VO		FDR		OSTIC REFERENC			08 00
	VI VI RI VO RI VO		FEA FF	FIELD FAULT	MY ADJUST (3-2 (N528)	257		
09			IABS	MOTOR CURRE	NT ABSOLUTE (3			09
100	$VO = \frac{-R2}{R1} VI \qquad VO = (1 + \frac{R2}{R1}) VI$		ILA IMET		IT ADJUST (3-2 NAL FOR METER			10
10	$VO = \frac{-R2}{R1}$ VI $VO = (1 + \frac{R2}{R1})$ VI		IPU	INITIAL PUL		(+ 10)		
11	CASE GROUND		LR		FROM DGC (3-33	3)		11
1.0		*	JOG JOGR		INPUT (3-23) CE INPUT (3-3)	L)		
12	ABS VO = SIGN () X ABSOLUTE VALUE OF VI	*	MAC		ROL SIGNAL (3-			12
	STAB ON TERMINAL		MSW	MODE SWITCH				
13	TERMINAL AT 2TB, 3TB, 4TB, RTB.		OSC	OSCILLATOR PHASE CONTR	OL REF. (3-26)	,		13
	EX: 9 2 - 2TB9; X2 R - RTBX2	*	PRE	DRIVE PRECO	NDITION (3-21)			14
14	O TERMINAL AT T.B.'s		ØSEQ	PHASE SEQUE	NCE (3-14) RROR (3-27)			
15			RERR		SUMMING JUNCT	ION (3-27)		15
15	POTENTIOMETER ARROWS ON THE CARD ELEMENTARY DIAGRAMS INDICATE THE		RJ		UMMING JUNCTIO			
16	WIPER DIRECTION AS THE POTENTIOMETER		RRA	REGULATOR F	ESPONSE ADJUS	r (3*30)		16
	SHAFT IS ROTATED CLOCKWISE TO INCREASE		RSET	READY TO RU				
17	FUNCTION.		RUN		INPUT (3-21)			17
1.0	THESE RESISTORS ARE CRIMPED IN WIRE		SA-C SFB	PHASE SYN C SPEED FEEDE	UTPUT (3-16)			18
18	HARNESS.		SMET		L FOR METER (3-12)		10
19	THE LEAST TRADE		SR		RENCE INPUT (19
15	FUNCTION USE LOC JUMPERS		SYS		T TRIP (3-13) TACHO TRIP AD			
20	60HZ MCC AA-AS, BA-BS, CA-CS MFC ZA-ZB (IF USED)		TF	TACHO FAULT				20
1000	SOHZ MCC AA-AF, BA-BF, CA-CF	*	TFB		FEEDBACK (3-2			~
21	IOC-400% X NONE -500% IFC I-IHI		TFR		EQUENCY OUTPU	T (3-13)		21
00	-500% IFC I-IHI -300% IFC I-ILO		VFB		DBACK (3-19)			22
22	SR5 - 9v (NONE)	*	WFR	WEAK FIELD	REFERENCE (3-	20)		
23	9 - 20V X MCC SRH-COM	(* - TEST	T POINT ON DOOP	FRONT)			23
24	LT. 3-7sec. X (NONE)							24
	2 - 60sec MCC 3320FROM LTITOCOM		MAPPIN	G SYSTEM				25
25	VREG IFC NT-CEMF, CC-COM DC TACHO X (NONE)		(NS/PS	/TS) PS - P	AST SHEET			20
26	AC TACHO X (NONE) AC TACHO MCC AT1-AT2			NS - N	EXT SHEET			26
20	TACHO FILT IFC TC-TC			TS - T	HIS SHEET			
27	TACHO V. 24-64vdc IFC NT-NTL.PT-PT1							27
	27-71vac IFC NT-NT1 PT-PT1			1				
28	60-160vdc IFC NT-NT2, PT-PT2 66-177vac IFC NT-NT2, PT-PT2			CLOSED/OPEN (I				28
	66-177vac IFC NT-NT2, PT-PT2 110-300vdc X IFC NT-NT3, PT-PT3			SWITCHED FOR "	PRECONDITION"	- "RUN"		20
29	120-300vac IFC NT-NT3, PT-PT3			OR JOG" - "DIA				29
30	C134 G256			"DIAGNOSTIC RU FOUR DIGIT WOR				30
30	NT TET 1.7 MEC NONE			and a second more				
31	Z11.31 2.8 MFC VB-VD 212.41 5.0 MFC VA-VB 4.01 8.0 MFC VA-VB, VC-VD							31
	17.01 13 X MPC YA-YC							
32	SI13_1_25_ MFC YA-YC. YB-YD L/R<.255							32
	INH RUN DGC D1-D2 (IF USED)							33
33								
34								34
104								
35		1. S. S. S. S. S.						35
		G	н	J K	L	M	N	
TECI	HN. ENG. APPD TECHN. ENG. APPD. DATE			RED HERBER	Section 2. States of the		IDE	T
	NGM MIT NGM 9/5/19					~ ~ ~ ~	- /	
	SEE REVISION & DELE REVISION &	miny of	15/2	COMP BOC 30	BAR THYRIS	TOR DRIVE	DR	SH
6	ON SHEET LO ON SHEET LO ENG. NGM VARIA	ABLE SPEED	GONU		NTARY DIAGRAM	CONTD.		1
	APPD. CHO DRIVE	ES OPERATION, HTON, ENGLAND	and the second second		2M122B	and the second se		
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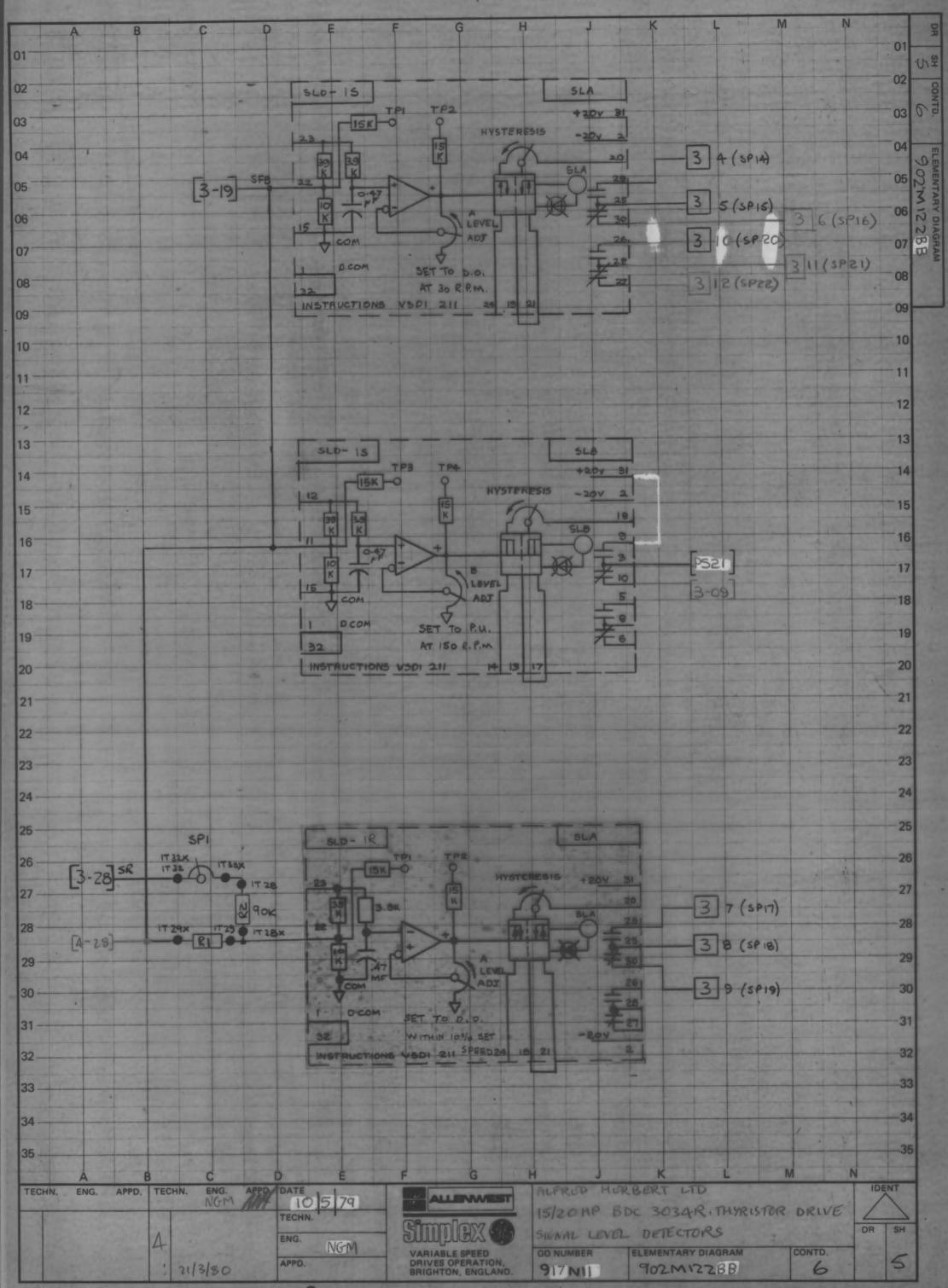
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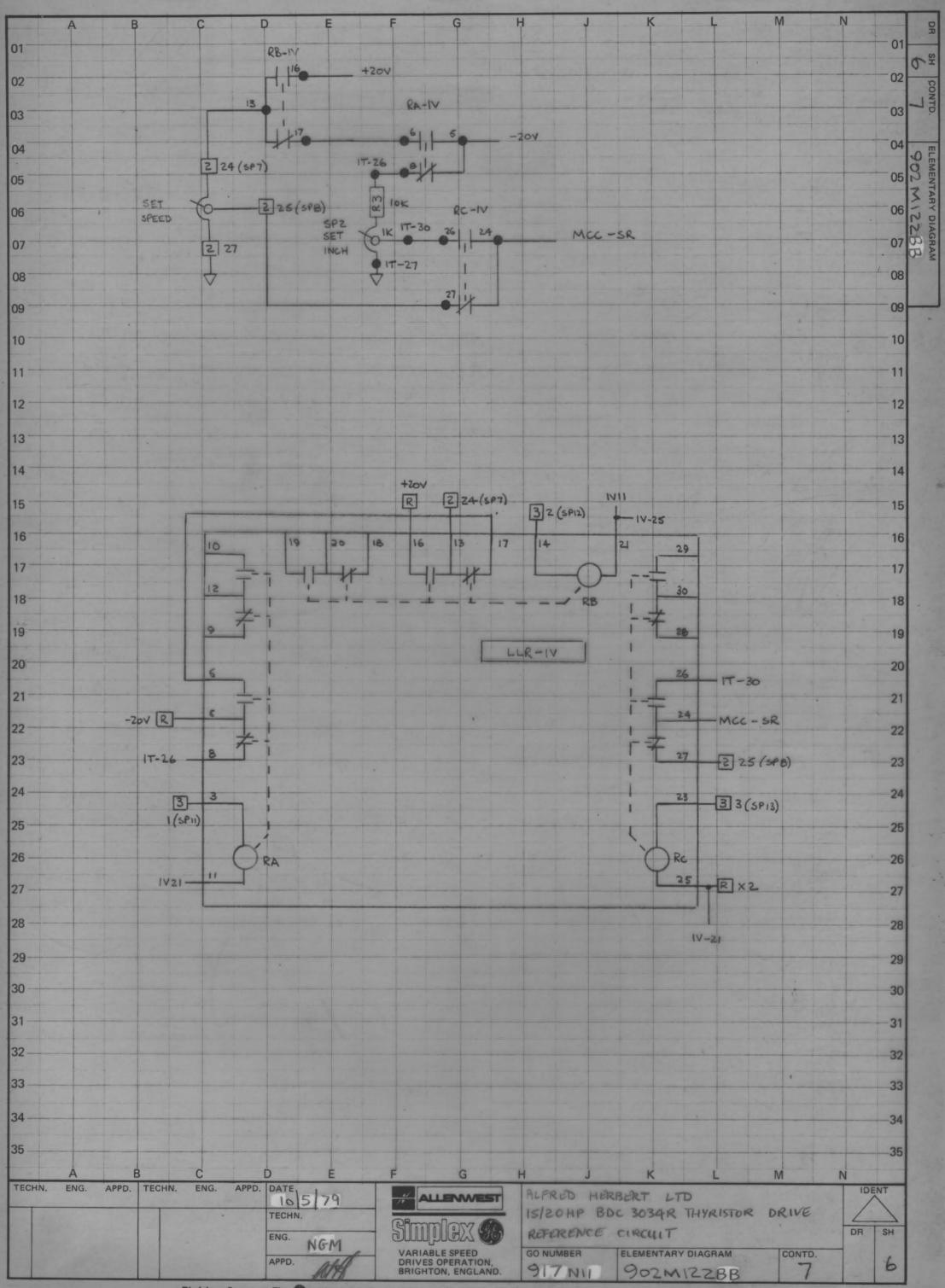


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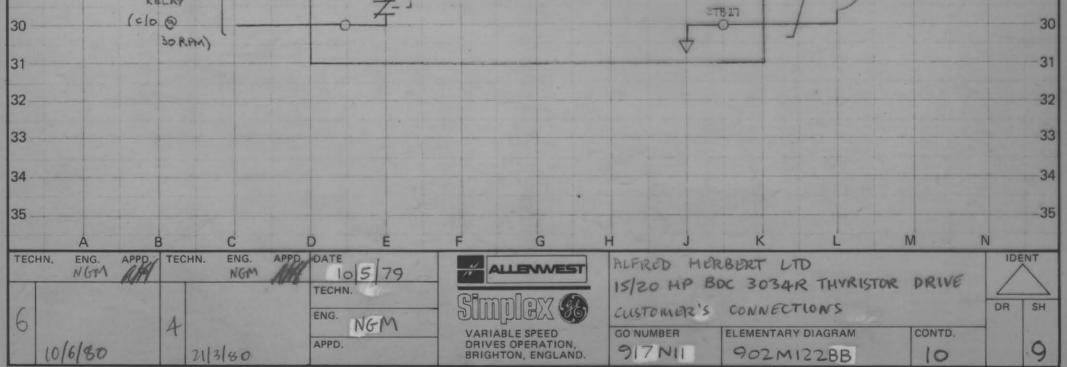


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		1 1 1				02
			4			The second second
				1		03
	ATB-FI	9 9 9		the second		04
	ACM XO	KI KZ K3		1000		
15/20 HP 50/1050/4250	ov			3.		04 05 06
RPM ARM. FI	ELD =4-46/ ATB-X0 0-72A 0					06
1 TA 54/76	0-72.0			21817		
	DAI		1	0		07
				ZTBIS		08
	27829		i	27819		
1	0			1.1		09
600 1000 L -				31813		10
· · · · ·	27830		r=	= 31814		1.1.1
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				- STBIS		12
	and the second second					in the second
				2TBI		13
				0		14
				27B14		
	2TBIS DI (DGC)			0		15
	ZTBIG				RUN ENABLE	10
Martin Martin	0-02(06c)		AI	27810		16
	31610	IIOV		-0		17
	3TB11				RUN RUN REV	INCH / 18
	SLA-TS		RA-IV	3781	FWD & REV &	(FWD)
the state of the s	31812 7			-0-		19
	2785					
	2786 - 7		RB-IV	3782	and the state of the	20
	XAM I D		+-0+	-0-		21
	2787 7-1			1000		
	2783		RC-IV	8783		22
	0		-0-	-0		23
	2784 FLT		+			24
	0			2788		24
			-	-0		26
UP TO SPEED	÷,		4	2789		
RELAY	0 1 SLA-1R			0	010	
				an an a	ENTERNAL STOP (IF	REQD). 27
				27824		
		*		0		28
SLOW SPEED		S		27825	- O SET	SPEED. 29
RELAY	4			27827		

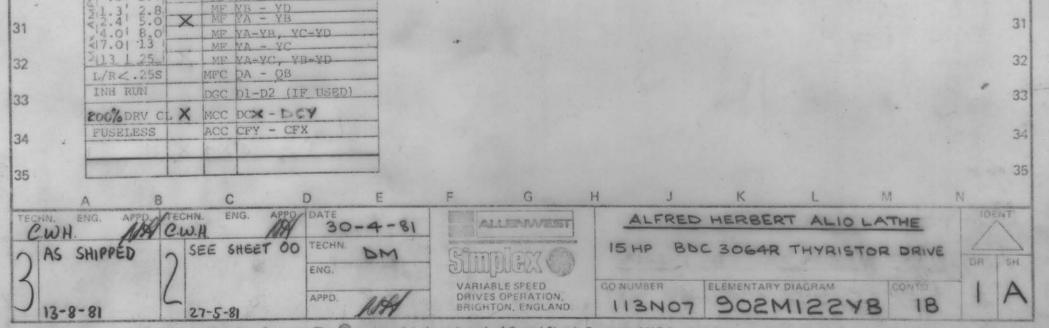


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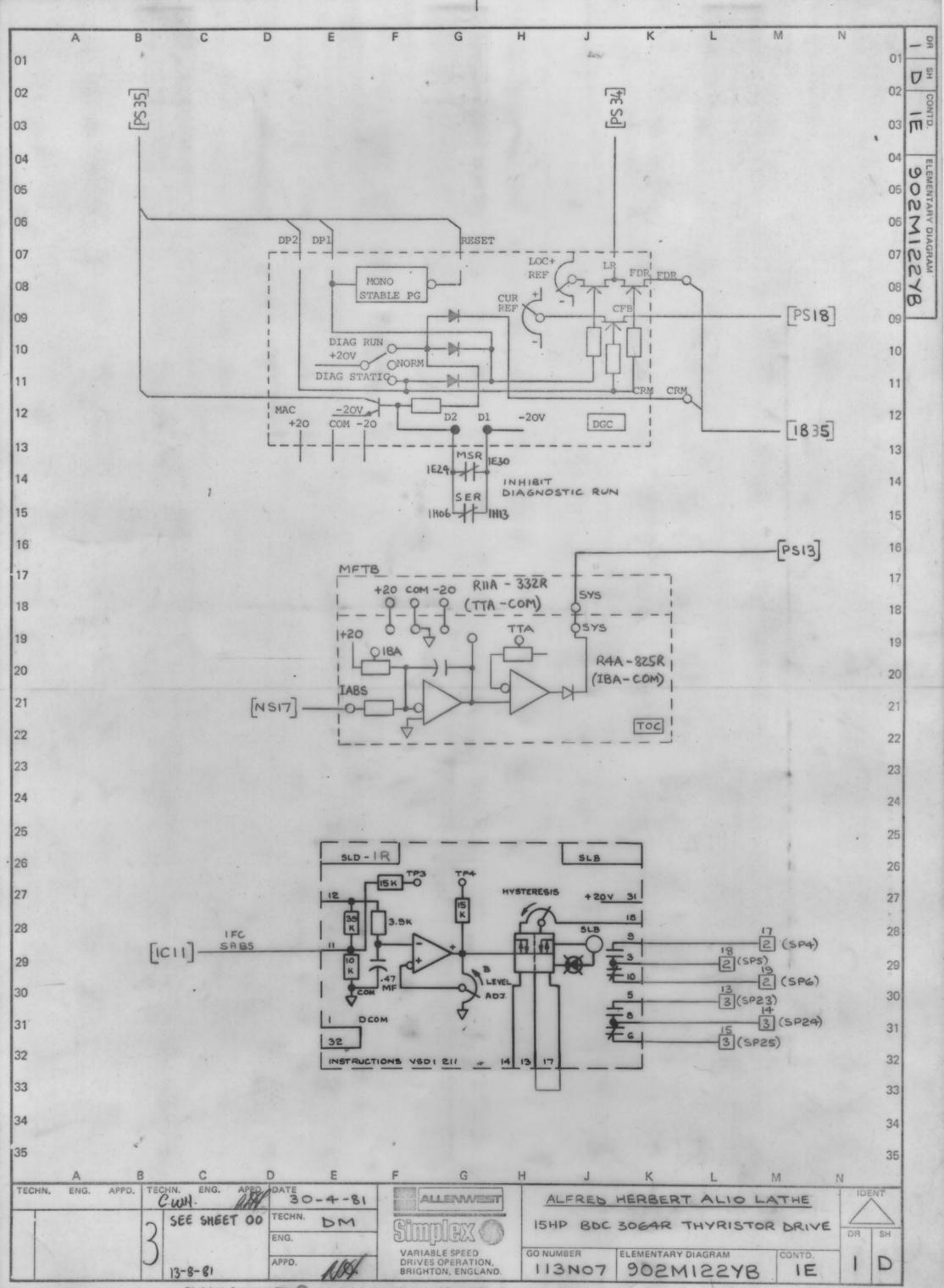
	States in		i de	14	DC - 30)64R		
A	B	C	D E	F	G	н	J K L M N	
								0
Untita	CP DOLADI	PC CUCHN A	DE FOR MOTORTHO	D31(4)		TONAT DEE	INITIONS AND LOCATIONS	02
VOUTA	GE PULARI	ES SHOWN A	RE FOR MOTORING	DA1(+)	10	IGNAL DEF	INITIONS AND LOCATIONS	02
HARDW	ARE ABBRET	VIATIONS				*		03
								03
MCC	MAIN	CONTROL C	ARD			CEMP	COUNTER EMF (1828)	
IFC	INTE	RFACE CARD		1		CFB	CURRENT FEEDBACK (IC16)	04
PSC	POWE	R SUPPLY C	ARD	1		CMFA	ABSOLUTE VALUE CEMF (ICO8)	
SCR	THYR	ISTOR ASSE	MBLY	1		CRM	CROSSOVER MODIFY (1011)	05
DGC	DIAG	NOSTIC CAR	D			DFP	DELAYED FIRING POWER (1C25)	
MFC		R FIELD CO				DR	DRIVER REFERENCE (IC 33)	0
MFE	MOTO	R FIELD EX	CITER			EAO	ERROR AMP OUTPUT (1C33)	0
MDR		FICATION R				EST	EXTERNAL FLT STOP INPUT (1C14)	
ACC	AUXI	LIARY CONTI	ROL CARD			FALT	FAULT (IC14)	0
SYMBO	TC	AMOT TOTO	100		*	FC.	FIELD CURRENT (NS31)	
DIPDC		AMPLIFIE	VI			FDR	FIELD DIAGNOSTIC REFERENCE (1008)	0
	R2	7	00			FEA	FIELD ECONOMY ADJUST (1C25)	
VI -	ALC	VO TRI	Jod			FF	FIELD FAULT (1832)	0
-1	They >	4 -	Land			IABS	MOTOR CURRENT ABSOLUTE (ICO9)	0
	R2		R2			ILA	CURRENT LIMIT ADJUST (1C23)	
VO =	RI VI	VO =	$(1 + \frac{R2}{RI})$ VI			IMET	CURRENT SIGNAL FOR METER (IC10)	1
						IPU	INITIAL PULSE (IC20)	
1	CASE	GROUND				LR	LOCAL REF. FROM DGC (1C33)	1
	1				1999	JOG	JOG SWITCH INPUT (1C23) JOG REFERENCE INPUT (1C31)	
VICI	VO =	SIGN () X	ABSOLUTE VALUE O	F VI		JOGR MAC	MAX/MA CONTROL SIGNAL (1C20)	1
[mps	1					MSW	MODE SWITCH (1630)	
4	STAB	ON TERMINA	11.			OSC .	OSCILLATOR (ICIG)	
						PCR	PHASE CONTROL REF. (1626)	1
-			3, 3TB, 4TB, RTB. 3; X2 2 RT RTBX2	·		PRE	DRIVE PRECONDITION (IC21)	
	EA: 9	121 - 21D5) VS Be. WIDNE			ØSEC	PHASE SEQUENCE (IC14)	1
0	TERMI	INAL AT T.B	3.'S			RERR	REGULATOR ERROR (1C27)	
						RIJ	INTEGRATOR SUMMING JUNCTION (1C27)	1
Th	A		ARROWS ON THE CAL			RJ	REGULATOR SUMMING JUNCTION (1031)	
- 0			GRAMS INDICATE TH			RRA	REGULATOR RESPONSE ADJUST (1C30)	1
			N AS THE POTENTIC			RSET	RESET (1C16)	ADE
			ED CLOCKWISE TO 3	INCREASE		RTR	READY TO RUN (1C16)	
	FUNCT	FION.				RUN	RUN SWITCH INPUT (1C21)	1
				LAY D.D.		SA-C	PHASE SYN OUTPUT (1C16)	
1			S ARE CRIMPED IN	WIRE		SFB	SPEED FEEDBACK (IC20)	1
	HARNE	ISS.				SMET	SPEED SIGNAL FOR METER (1C12)	
						SR	SYSTEM REFERENCE INPUT (1629)	1
FUN	CTION USE	E LCC J	JUMPERS	4	-	SYS	SYSTEM FAULT TRIP (IC13)	
GOH	Z	MEC ZA-2	ZB (IF USED)			TA	OUTPUT FOR TACHO TRIP ADJUST (1C20)	2
		in c part o				TF	TACHO FAULT (NS28)	4
-SOH	z t x	MCC HZA	- PHA			* TFB	TACHOMETER FEEDBACK (IC20)	
TIOC	-4008	INON	the second design of the secon			TFR	AC TACHO FREQUENCY OUTPUT (IC1.3)	2
	-500%	IFC I -				TR	TIMED REFERENCE (1C33)	
-	-300%	IFC I-II	0			* VFB	VOLTAGE FEEDBACK (1C19)	1
SR5	- 9v X	NONE	E)			* WFR	WEAK FIELD REFERENCE (1C20)	
9	- 207	MCC SRH	- COM					2
JOG	R LOV	INOP	VE)			(* - TER	ST POINT ON DOOR FRONT)	
	20V X	CONTRACTOR DESCRIPTION OF THE PARTY OF THE P						
T.T.	3-7sec. >		and the second					2
	60sec		A FROM LTT TO CO	M		MAPPIN	NG SYSTEM	
VRE	and the second se	A DESCRIPTION OF THE PARTY OF T	CEMF CC-COM					2
	TACHO	INON	NE)			(NS/PS		
	TACHO	(MCC ATL	- AT2				NS - NEXT SHEET	2
	HO FILT	IFC TC -	- TC				TS - THIS SHEET	
	HO V.			HENCE (PS	5 - 12) D	ENOTES LO	CATION ON PAST SHEET LINE 12. OTHER LOCATION	IS AR
24-	64vdc		NTI PT - PTI				D LINE? E.G. (1A16) SIGNIFIES LOCATION ON SHE	
Same and	71vac		NT1_PTPT1	1A, LINE				
	-160vdc	the second se	NT2 PT - PT2			NOTE :	FIELD EFFECT TRANSISTOR: THE	2
66-	-177vac	the stand over the state	NT2 PT - PT2				CLOSED/OPEN (I/O) STATE OF THESE	
110)-300vdd	IFC NT-1	NT3 PT - PT3				SWITCHED FOR "PRECONDITION" - "RUN"	2
120	-300vad >	X IFC NT-I	NT3 PT - PT3				OR JOG" - "DIAGNOSTIC STATIC" -	
Gl	34 G256	IFC MFC	OR MFE				"DIAGNOSTIC RUN" IS SHOWN BY A	-
WE -	8T 1.7	ME NON					FOUR DIGIT WORD WITH STATE SEQUENCE.	2
10 m		8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3773	the second s				

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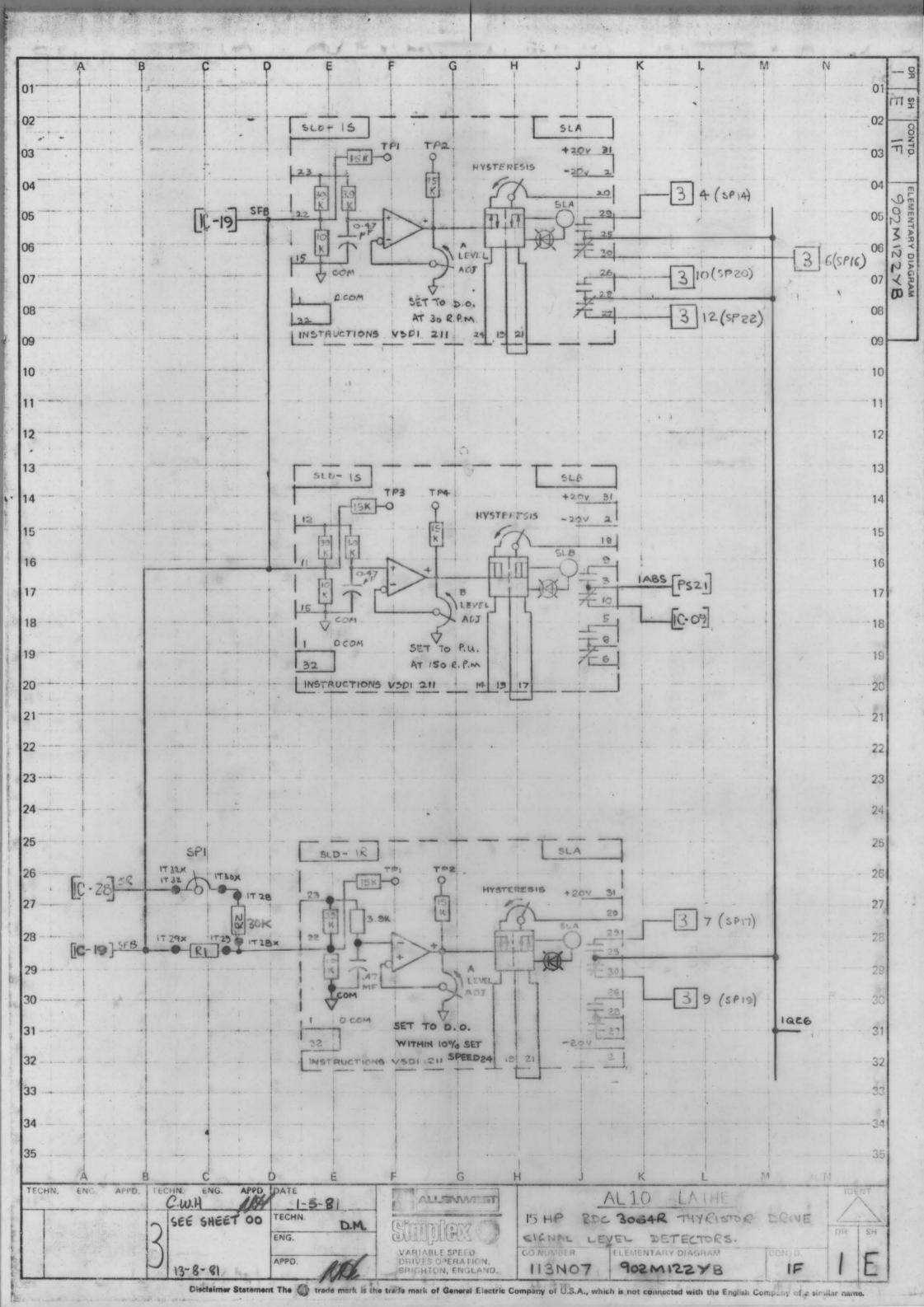
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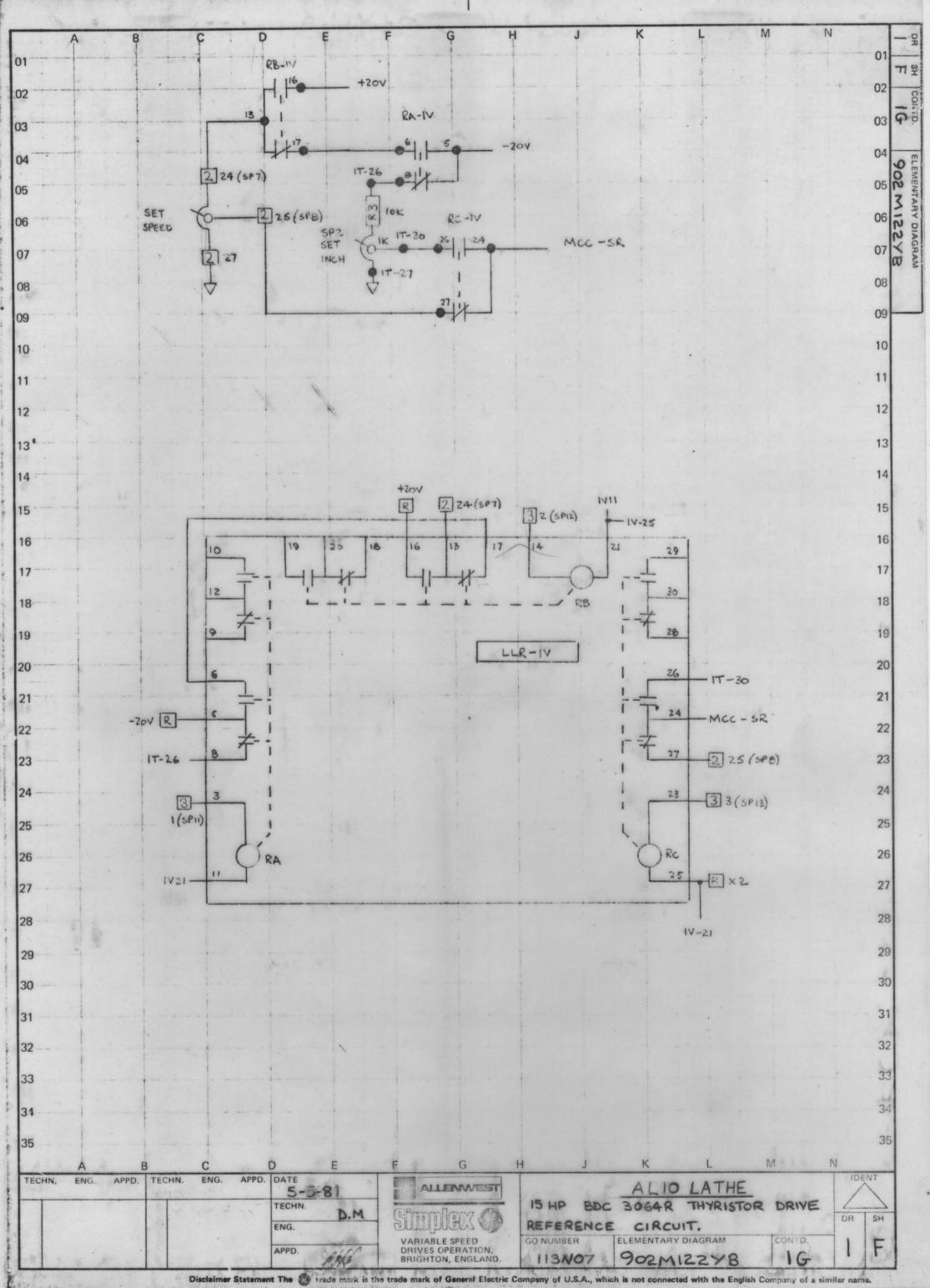


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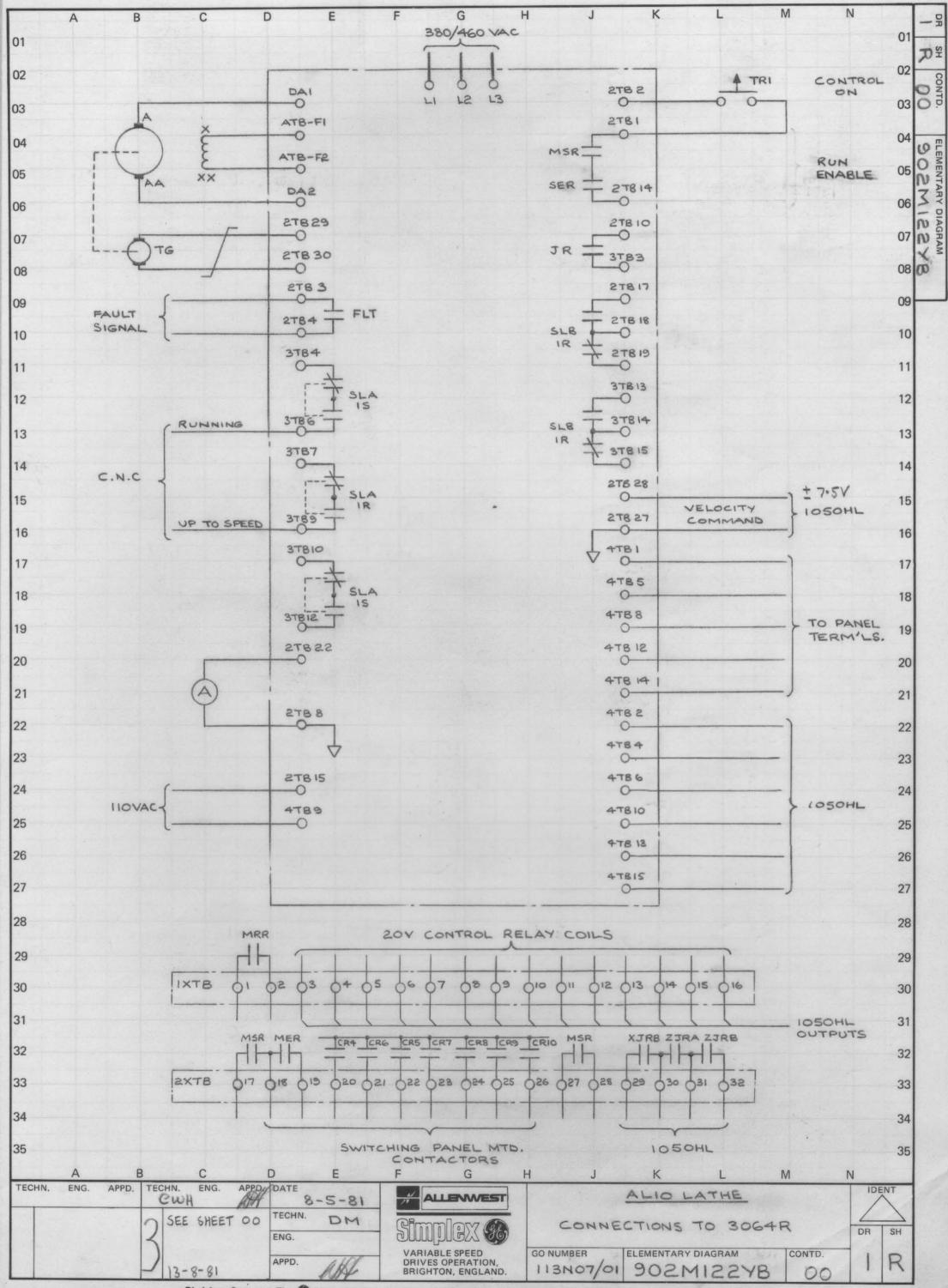


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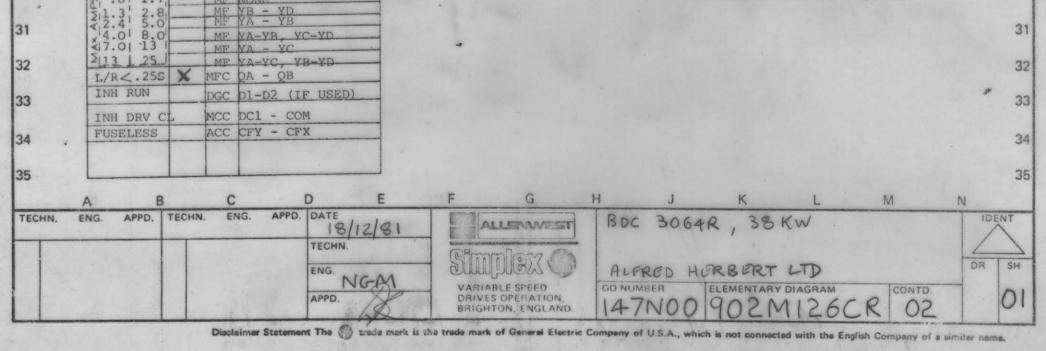
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÷	A	3	C	DÊ		F	G	н	J	К	L	M	N	1
								•						01
	VOLTAGE P	OLARIE	ES SHO	WN ARE FOR MOTORIN	NG DAL (+)	SI	IGNAL DEF	INITIONS AND	LOCATIONS				02
	HARDWARE			5		-								
														03
	MCC	MAIN	CONTR	OL CARD			*	CEMF	COUNTER	EMF (16)				
	IFC		RFACE		5		*	CFB		FEEDBACK (04
	PSC SCR			LY CARD ASSEMBLY)			CMFA CRM		VALUE CEM R MODIFY (_
	DGC		IOSTIC					DFP		FIRING POW				05
	MFC MFE			D CONTROL D EXCITER			*	DR		EFERENCE (06
	MDR			ON RACK				EAO		P OUTPUT (FLT STOP		141		00
	ACC	AUXIL	IARY	CONTROL CARD				FALT	FAULT (INPOT (.	14)		07
	SYMBOLS		AMDL	IFIERS				FC		RRENT (NS2	6)			
		[B2]		CV IV				FDR		AGNOSTIC R		(08)	1.00	08
	VT	~		RI				FEA		ONOMY ADJU ULT (28)	ST (25)			
	RI		en f	7				IABS		RRENT ABSC	LUTE (O	9)		09
	$VO = \frac{-R2}{R}$			R2 R2				ILA		LIMIT ADJU				
	VO = RI	IN	V	$ro = (1 + \frac{R^2}{RI}) VI$				IMET IPU		SIGNAL FOR PULSE (2		10)		10
	1	CASE (POUND				*	LR		F. FROM DG				11
	-	CHOE (ROOND				*	JOG		CH INPUT (
	ABS	vo = s	SIGN () X ABSOLUTE VALUE	OF VI			JOGR MAC		RENCE INPU ONTROL SIG				12
	•	STAB C	ON TER	MINAL				MSW		TCH (30)	111D (20)	·		
	-							OSC		OR (17)				13
				2TB, 3TB, 4TB, RTI 2TB9; X2 💽 - RTBX			*	PCR PRE		NTROL REF. ECONDITION				
					6			ØSEC		QUENCE (14
	0	TERMIN	NAL AT	T.B.'s				RERR	REGULATO	R ERROR (27)			
	FX	POTENT	TIOMET	TER ARROWS ON THE CA	ARD			RIJ RJ		OR SUMMING				15
				DIAGRAMS INDICATE				RRA		R SUMMING				
				TION AS THE POTENT		F		RSET	RESET (16
		FUNCT		THID COURTED IV	LINGILLING		:	RTR RUN		RUN (16				17
								SA-C		CH INPUT (N OUTPUT (
		THESE HARNES		TORS ARE CRIMPED IN	N WIRE		*	SFB		EDBACK (18
	-	-		·				SMET		GNAL FOR M EFERENCE I				
	FUNCTION	USE	TIPC	JUMPERS			*	SYS		AULT TRIP		91		19
	60HZ		MFC	ZA-ZB (IF USED)				ТА	OUTPUT F	OR TACHO T	RIP ADJUS	r (20)		
								TF TFB		ULT (NS28)				20
	50HZ		MCC	HZA - PHA				TFR		ER FEEDBAC		13)		21
	100-400%	ALC: T	IFC	I - IHI			*	TR	TIMED RE	FERENCE (33)			- 1
	-300%	10	IFC	I-ILO			:	VFB		FEEDBACK (22
	SR5 - 9v 9 - 20		MCC	NONE) SRH - COM				WFR	WEAK FIE	LD REFEREN	CE (20)			
	JOGR 10V		Thee	(NONE)			(* - TES	T POINT ON D	OOR FRONT)				23
	200		MCC	JH - COM										
	LT. 3-7se			(NONE)										24
	2 - 60se	C		3320 FROM LTI TO C	OM			MAPPIN	G SYSTEM					20
	VREG DC TACHO	X	-	NT-CEMF CC-COM (NONE)				(NS/PS	/TS) PS -	PAST SH	EET			25
	AC TACHO		MCC	ATI - AT2					NS -	NEXT SH	EET			26
	TACHO FI		IFC	TC - TC						THIS SH				
	TACHO V. 24-64vdd		IFC	NT-NT1 PT - PT1					CATION ON PA					2/1
	27-71vac		IFC	NT-NT1_PTPT1		NOTED BY S			D LINE? E.G.				ON SHEET	
	60-160vd			NT-NT2 PT - PT2	10,	, many 10			TT FIELD					28
	66-177va		wards where many	NT-NT2 PT - PT2 NT-NT3 PT - PT3					CLOSED/OPEN SWITCHED FOR					
	110-300v			$\frac{N1-NT3}{PT} = \frac{PT3}{PT3}$					OR JOG" - "I					29
	G134 G25			MFC OR MFE					"DIAGNOSTIC	RUN" IS SH	IOWN BY A			
	87.8T 1:		ME	NONE					FOUR DIGIT W	WORD WITH S	STATE SEQU	ENCE.		30

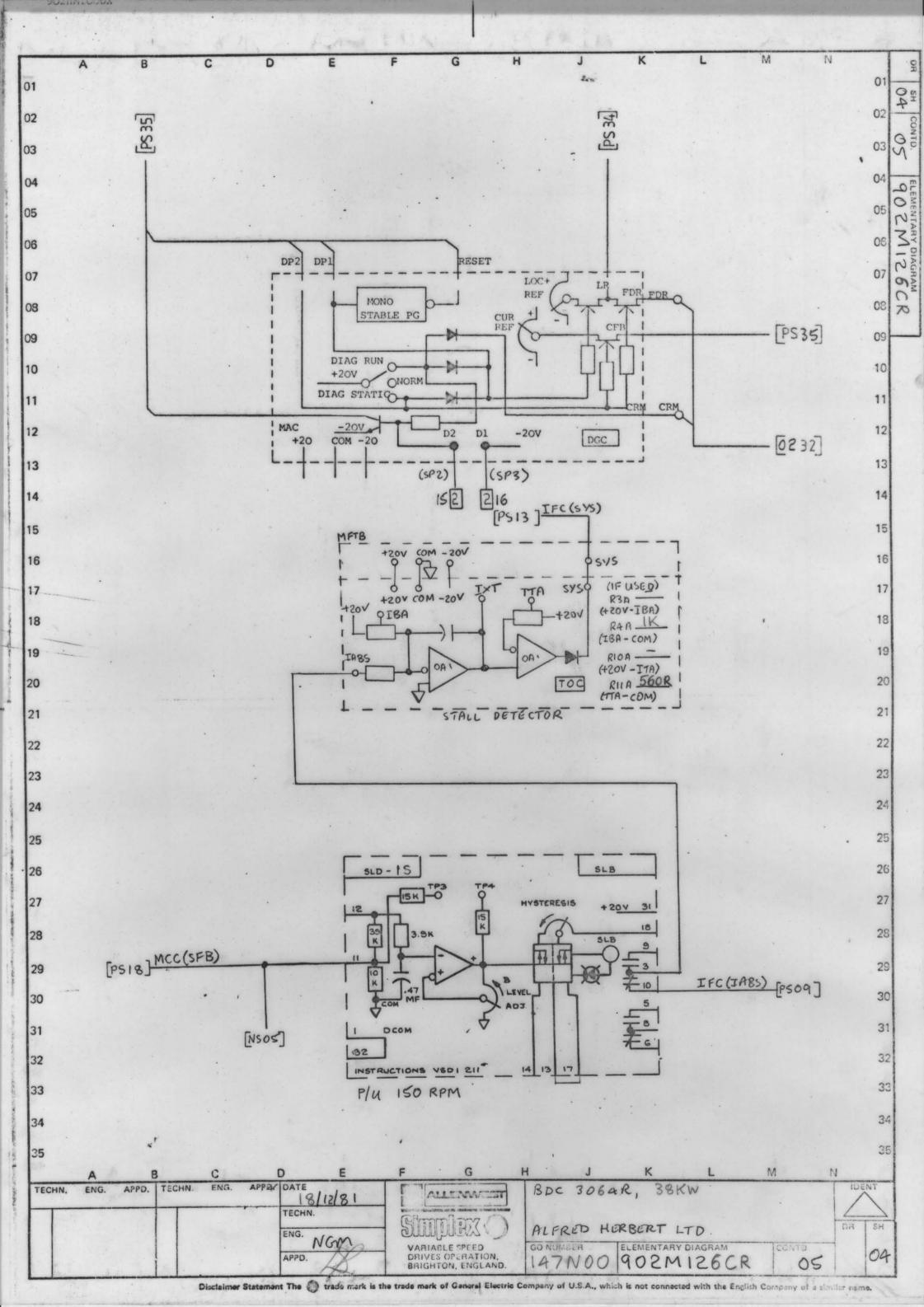
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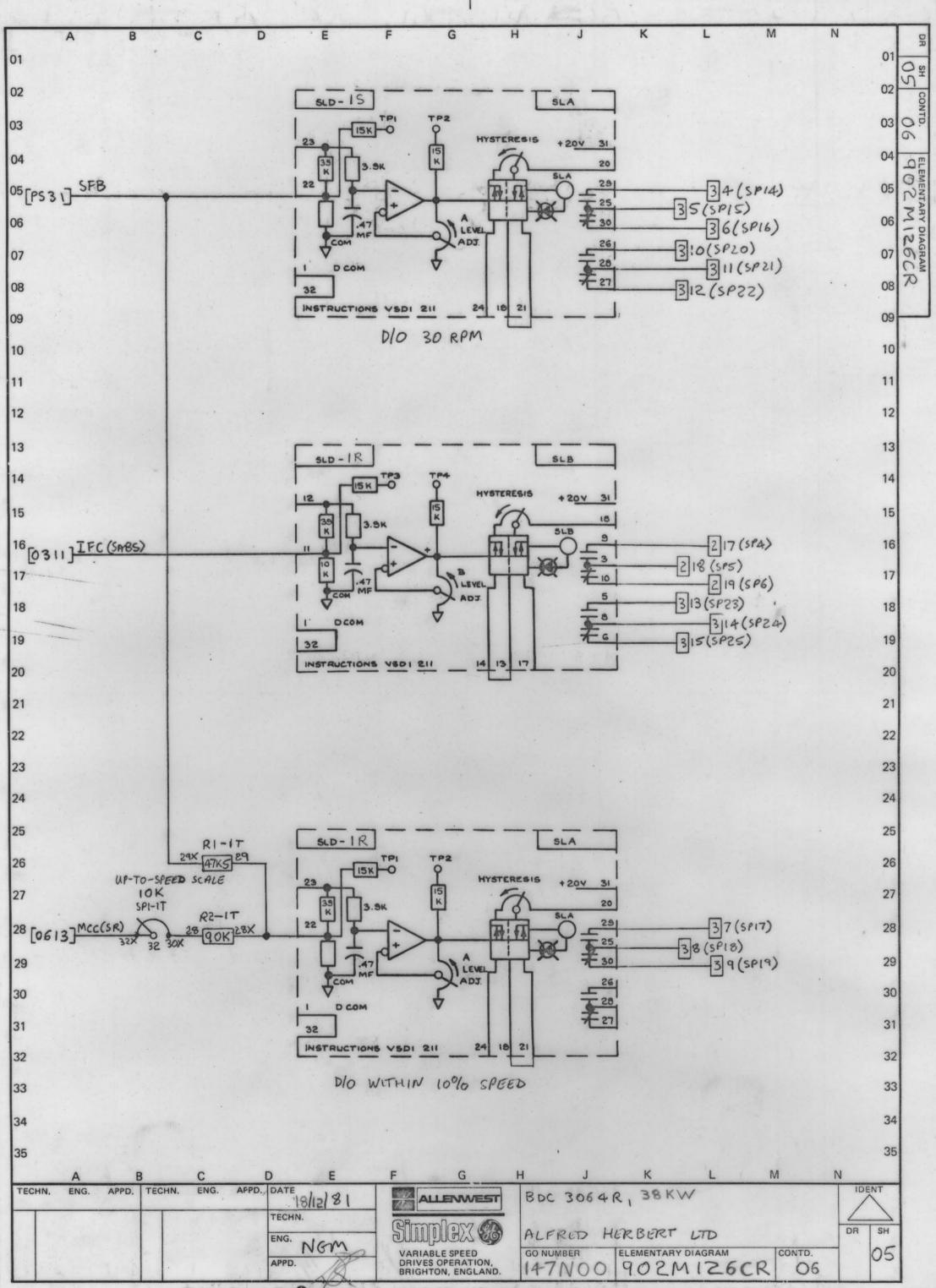


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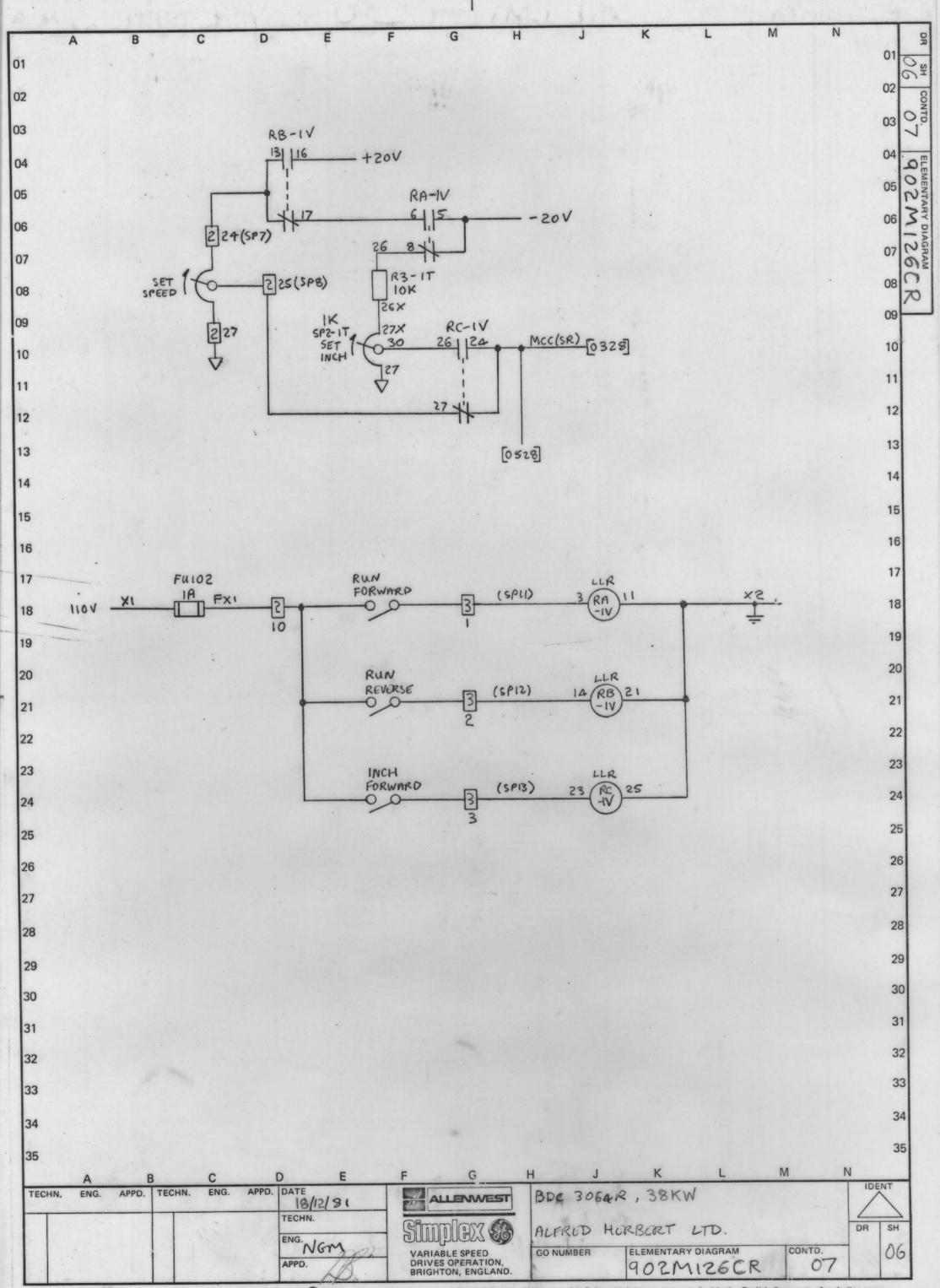
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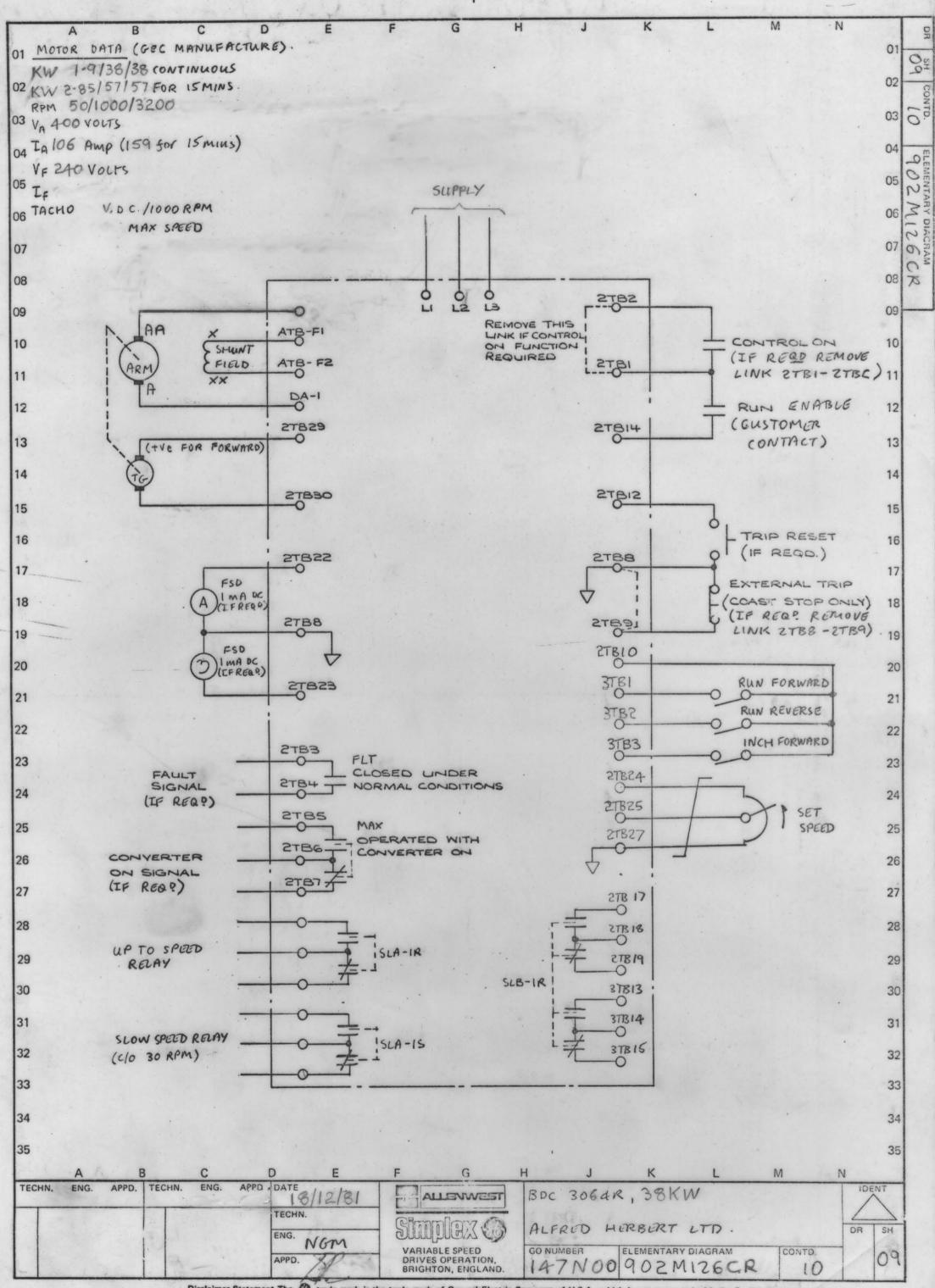




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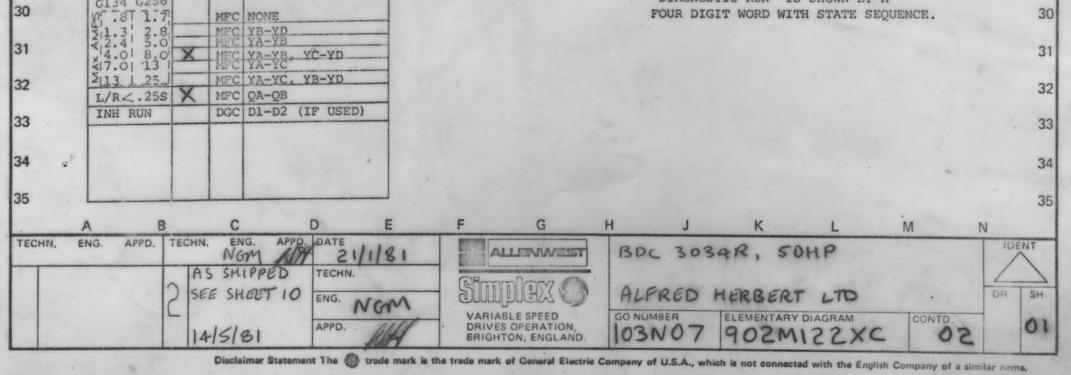


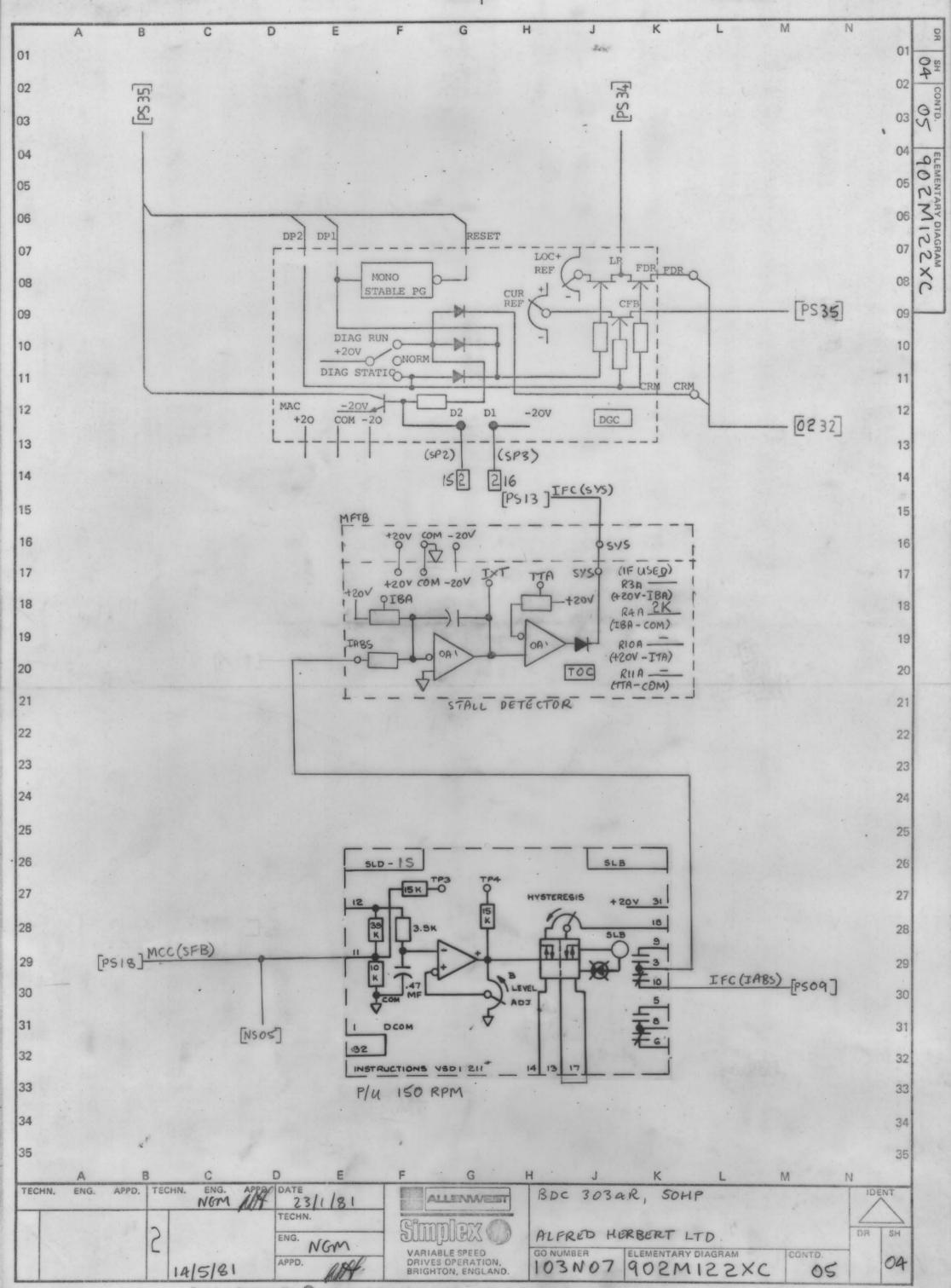
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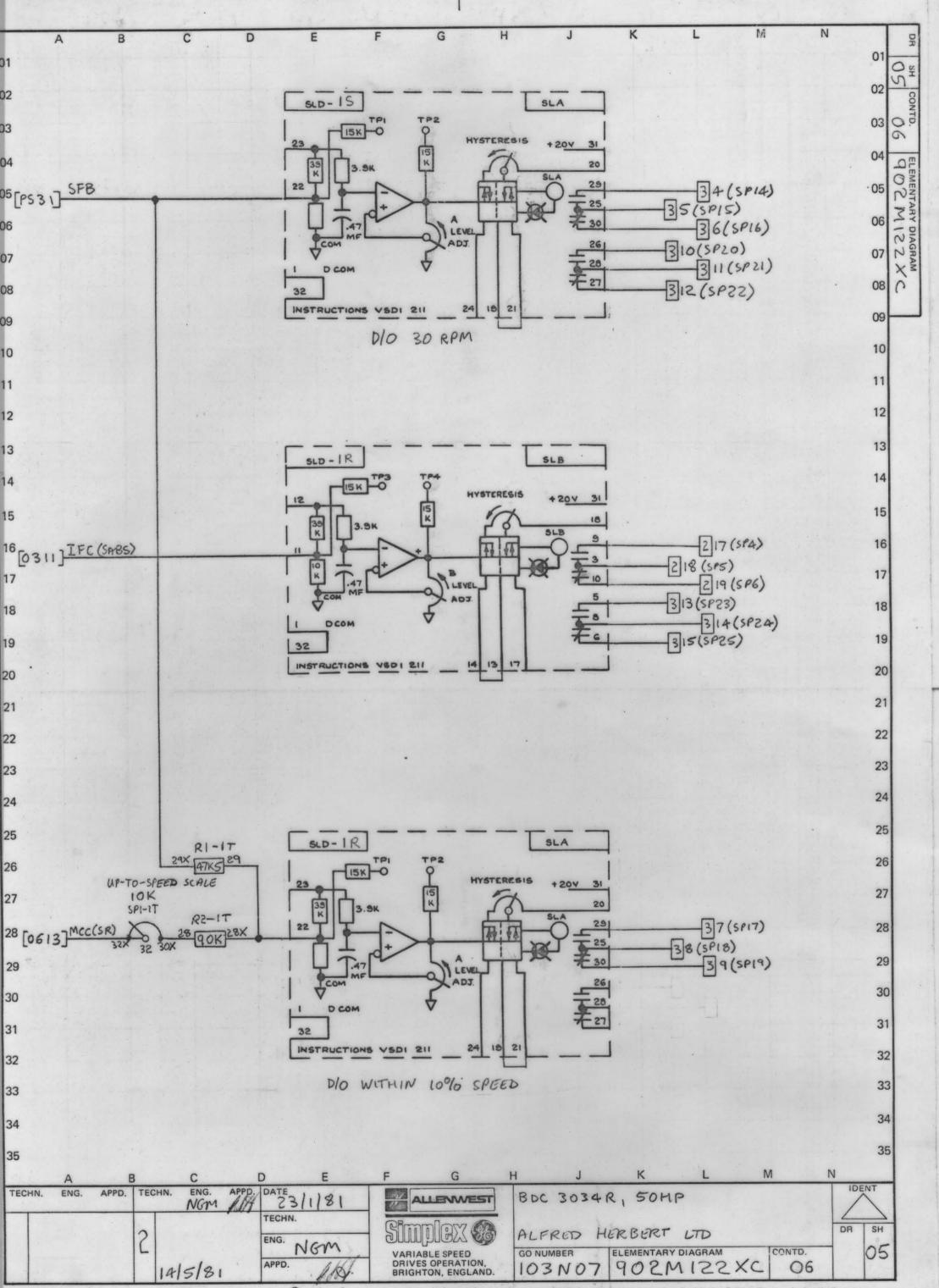
	A E	2		0	E E			1	K	1	M	N		1
	A 0	2	C	, D	E F	G	н	J	ĸ	-	171	14		RO
01													01	Go
00	VOLTAGE PO	DLAPT	PC CH	OWN ARE FOR MOTOR		-			-				-	1 - H
02			1		ING DAL(+)	5	IGNAL DEF.	INITIONS AN	D LOCATION	<u>NS</u>			02	CO
03	HARDWARE I	ABBRE	VIATIO	DNS			and in the						03	OTN
03	MOO									•			03	N
04	MCC		CONTI	CARD		*	CEMF		EMF (16				04	197
04	PSC			PLY CARD			CFB . CMFA		FEEDBACK E VALUE CI		1		04	20
05	SCR			ASSEMBLY			CRM		ER MODIFY		'		OF	OME
05	DGC	DIAG	NOSTIC	C CARD			DFP		FIRING PO		5)		05	NI
06	MFC	MOTO	R FIEI	LD CONTROL .		*	DR	DRIVER	REFERENCE	(33)			00	ARY
00	MDR	MODT	ET CAM	ION RACK		*	EAO		MP OUTPUT				06	50
07	FILIE	MODI	FICATI	ION RACK			EST		L FLT STOP	P INPUT (14)		07	NAG
107	anna a		- martinelise			*	FALT	FAULT (URRENT (NS	261			07	XAN
08	SYMBOLS		AMPI	LIFIERSVI			FDR		IAGNOSTIC		E (08)		00	2-
00	Г	R2	٦				FEA		CONOMY AD		and the second		08	0
09	VI	2	VO .	RIgd			FF	FIELD F	AULT (28	3)			00	
05	LAL -	1	7	7 L_R2			IABS		URRENT ABS		09)		09	
10	$VO = \frac{-R2}{R1}$ V	/I		$70 = (1 + \frac{R^2}{PT}) VI$			ILA		LIMIT ADJ				10	
10	RI			O - (IT RI / VI	-		IPU		SIGNAL FO		(10)		10	
11	· ,	TACE /	GROUNI		1	*	LR		EF. FROM I)			
	-	ADE (GROUNI	,		*	JOG		TCH INPUT				11	
12	VI () VO	10 = 5	SIGN	() X ABSOLUTE VALUE	E OF VI	*	JOGR		ERENCE INF				10	
12	[nb3]			RMINAL		*	MAC		CONTROL SI		20)		12	
12	T ·	DIAD (ON TEP	MINAL			MSW		ITCH (30 TOR (17)					
13		TERMIN	NAL AT	r 2TB, 3TB, 4TB, R	TB.		PCR		ONTROL REP				13	
14				2TB9; X2 R - RTB			PRE		RECONDITIC					10.00
14	0 1	PERMIT	NAL AT	T.B.'s			ØSEQ	PHASE S	EQUENCE (14)			14	
	0 .						RERR		OR ERROR					
15	Tox I	POTEN	TIOMET	TER ARROWS ON THE	CARD		RIJ		TOR SUMMIN				15	100
	JOF I	ELEMEI	NTARY	DIAGRAMS INDICATE	THE		RRA		OR SUMMINO				1	
16				CTION AS THE POTEN			RSET	RESET (E ADUUSI	(30)		16	
17		SHAFT FUNCT		DTATED CLOCKWISE TO	O INCREASE	*	RTR ·		O RUN (]	.6)				
17				STORS CRIMPED IN	WIRE HARNES	*	RUN		TCH INPUT				17	
10	-	nese	KESI.	Sloks charling in	title furtheres.		SA-C		YN OUTPUT					
18	FUNCTION	USE	LOC	JUMPERS			SFB SMET		EEDBACK (IGNAL FOR		1.21		18	
1.0	GOHZ		Mec	AA-AS, BA-BS, CA-CS	5		SR		REFERENCE		12) 29)			
19	DONZ			ZA-ZB (IF USED)			SYS		FAULT TRIP	Contraction of the second s			19	
20			TEC	0-00474F RT1- RT2 0-00474F RT2 - RT3		*	TA	OUTPUT :	FOR TACHO	TRIP ADJ	UST (20)		
20	50Hz	X	IFC	0-0047 UF RT3-RT1	and the second second		TF		AULT (NS28				20	
21		_	MCC	AA-AF, BA-BF, CA-CF			TFB		TER FEEDBA		•		-	-
21	IOC-400% -500%		TRC	NONE	-		TFR		O FREQUENCE		(13)		21	
22	-300%	X		I-ILO		*	VFB		FEEDBACK					1
22	SR5 - 9v			(NONE)		*	WFR		ELD REFERE		0)		22	1000
23	9 - 201	- Andrewson	MCC	An one of the second se										
23	JOGR 10V			(NONE)	and the second second	(* - TEST	r point on i	DOOR FRONT	·)			23	
24	200		MCC	JH - COM									~	1.5
24	LT. 3-7se	pro-second		(NONE)									24	1
25	2 - 60se	c		332RFROM LTITOCOM	-		MAPPIN	G SYSTEM						
25	VREG	×	IFC	NT-CEMF, CC-COM	-		(NS/PS	TEL DE	- PAST S	מיים ביוני			25	
26	AC TACHO		MCC	AT1-AT2			(10/10/		- NEXT S					
26	TACHO FIL	a here the course		TC-TC					- THIS S				26	
27	TACHO V.							CATION ON P	AST SHEET	LINE 12.				
27	24-64vdc 27-71vac		TEC	NT-NT1, PT-PT1				AND LINE, E	.G. [1A16] s	SIGNIFIES	LOCATION	ON SHEE	ET 27	
00	60-160vd	the second second		NT-NT2, PT-PT2	1A, L	INE 16 ETC.			PERFORMENT					
28	66-177va	harden		NT-NT2, PT-PT2				CLOSED/OPEN					28	
	110-3000			NT-NT3, PT-PT3				SWITCHED FO						
29	120-3000		Contraction of the second second	NT-NT3, PT-PT3	1			OR JOG" - "					29	
	G134 G25	17-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	1					"DIAGNOSTIC	RUN" IS S	SHOWN BY	A			
30	W8T 1.	7	MFC	NONE				FOUR DIGIT	WORD WITH	STATE SE	QUENCE .		30	



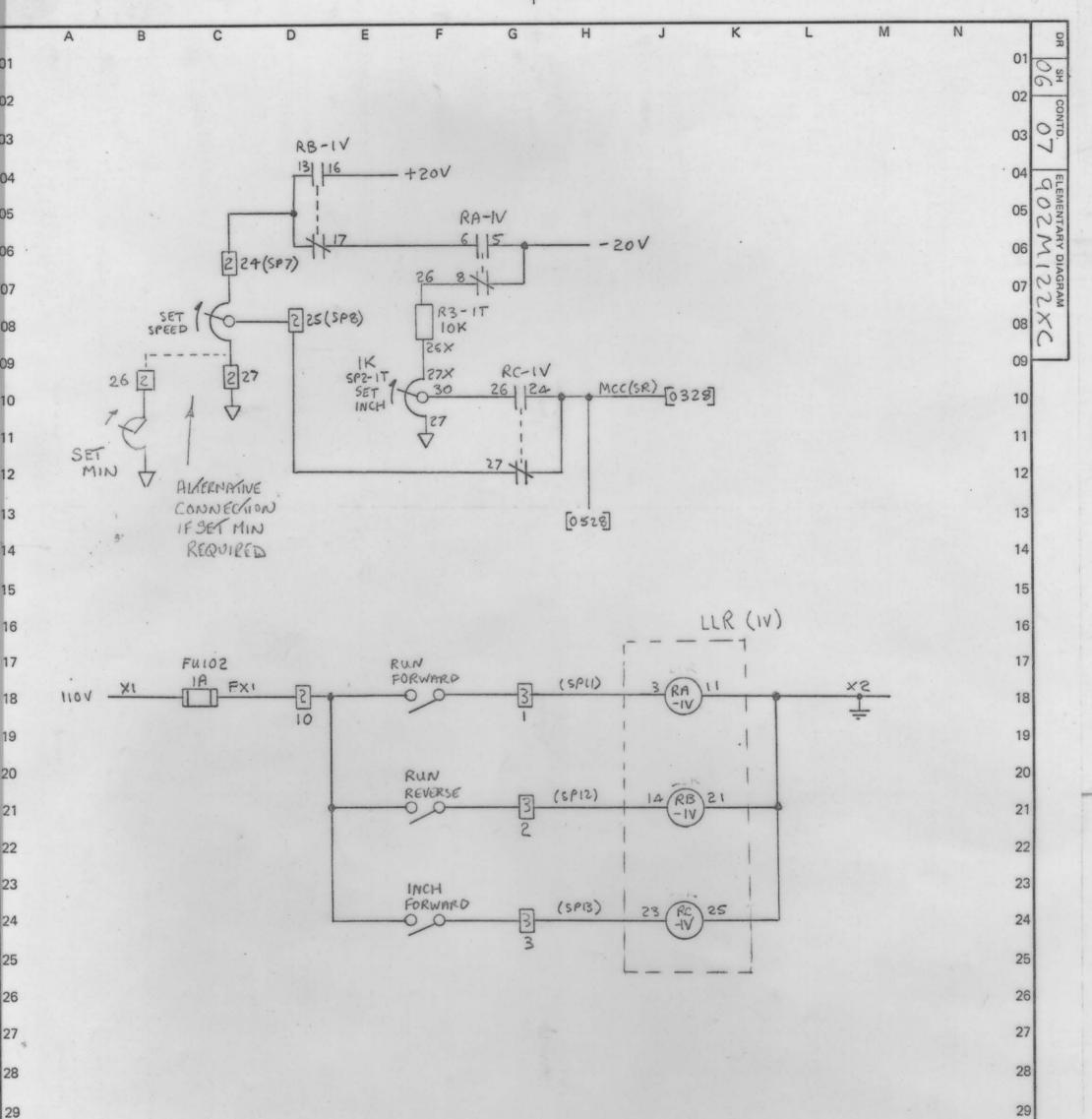


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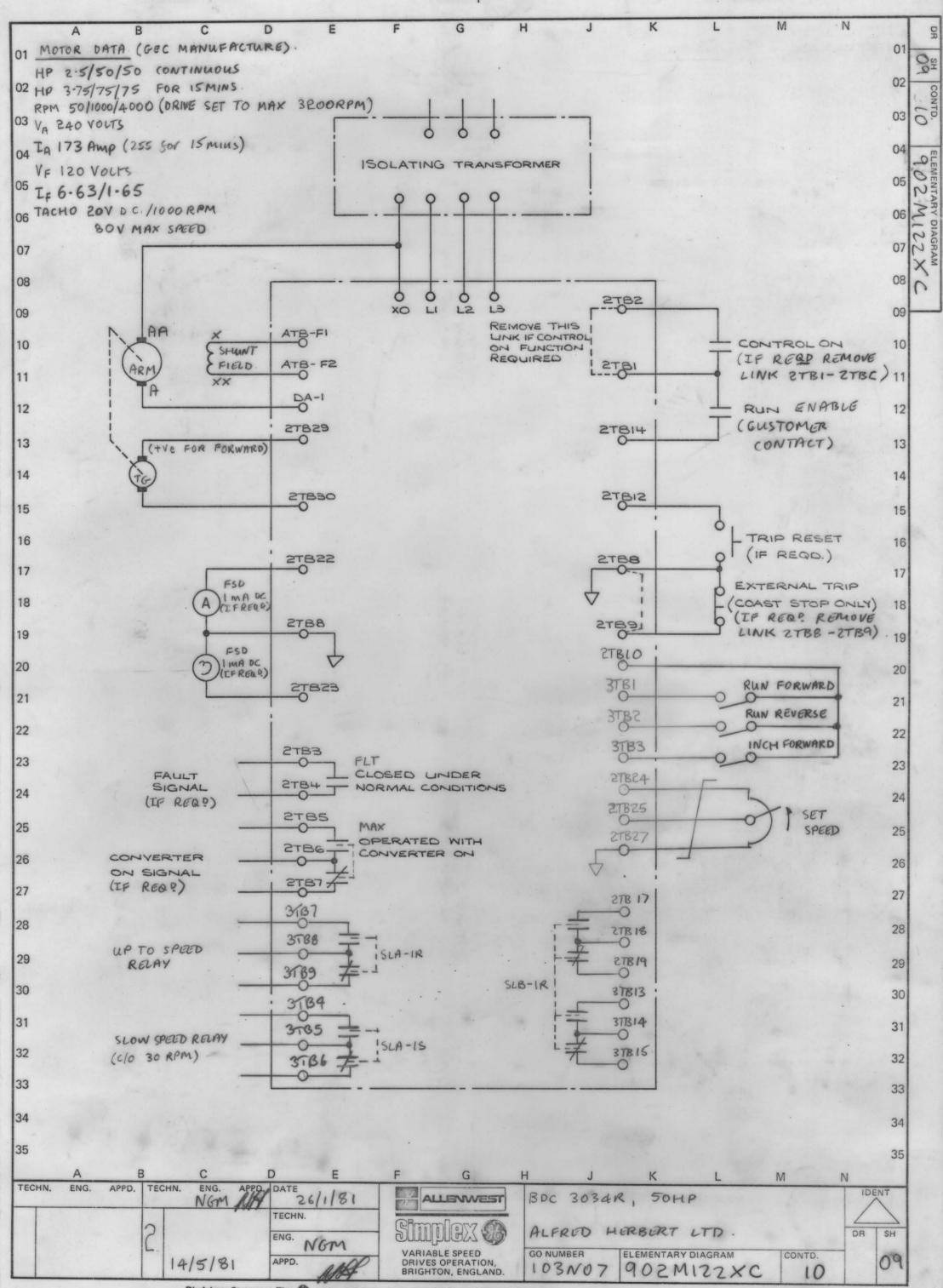


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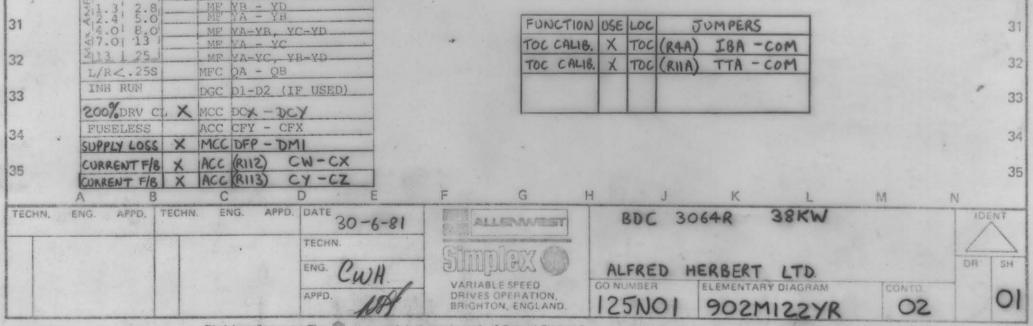
					ENG.	m		DERX CO	ALFRE GONUMBE	ER	ELEMENTARY		CONTD.	DR SH
FECHN. EN	G. APPD.	TECHN.	ENG.	APPD.	DATE 23/1	181		LENWEST	BDC 3	034R	, 50 MP	,		IDENT
A		В	С		D	E	F	G	н	J	К	L	M	N
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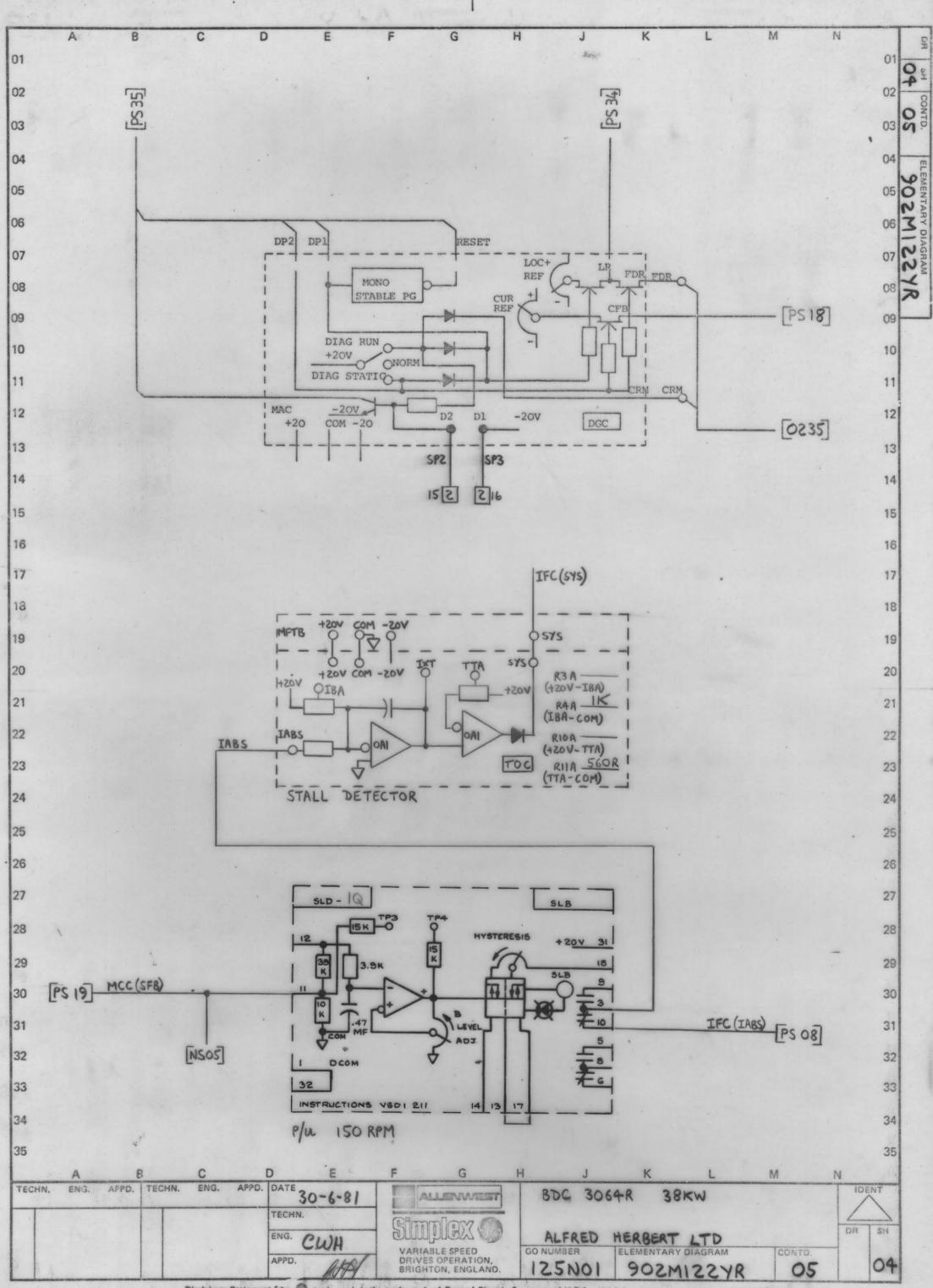


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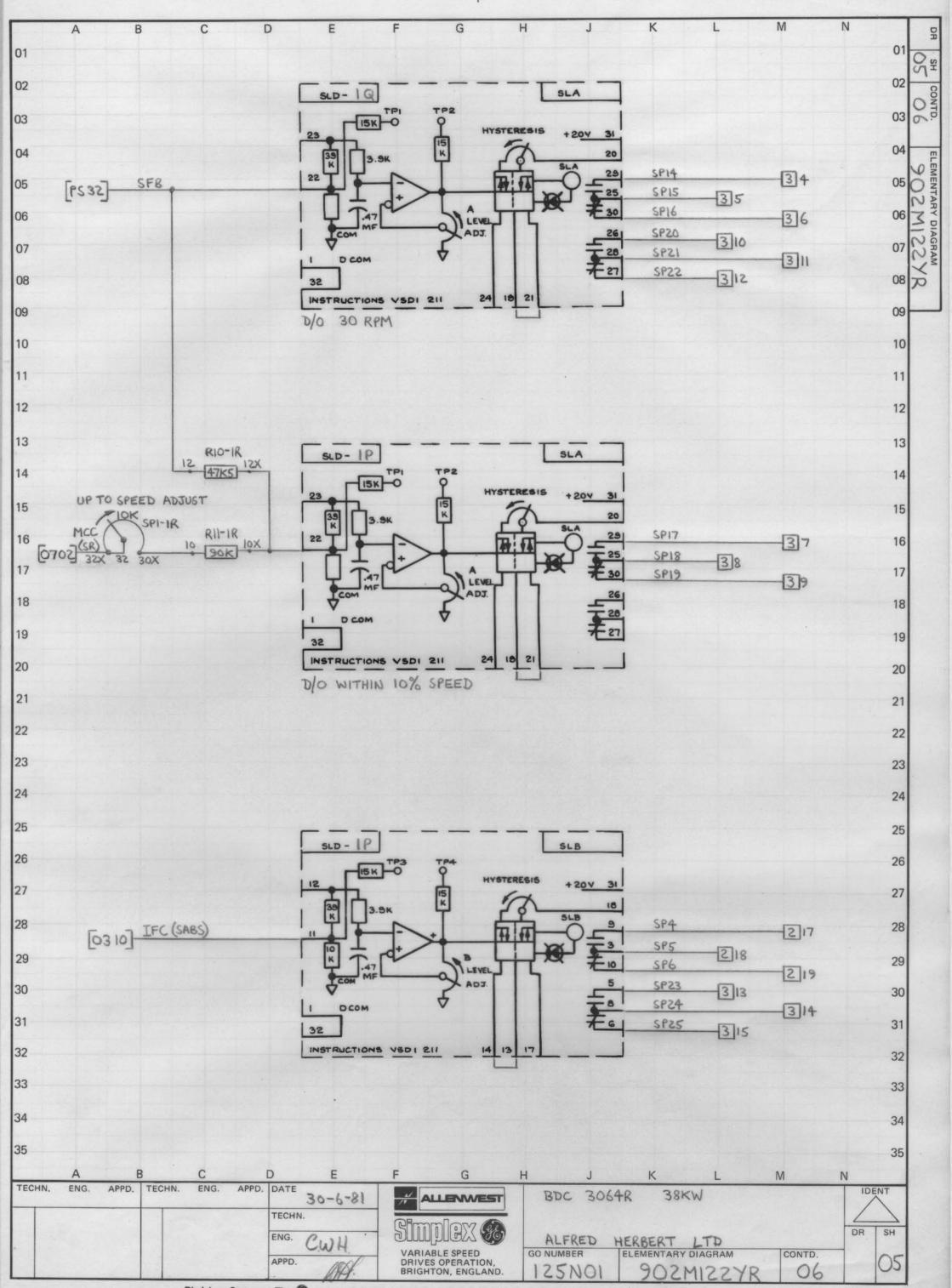
	A	В	C	D E	F G		н	J K L M N	
									01
		5 1							
	VOLTAGE	POLARI	ES SHO	OWN ARE FOR MOTORING	DA1(+)	SI	GNAL DEP	FINITIONS AND LOCATIONS	02
	HARDWAR	ABBRE	VIATI	ONS					
									03
	MCC	MAIN	CONTI	ROL CARD		*	CEMF	COUNTER EMF (0316)	
	IFC		RFACE			*	CFB	CURRENT FEEDBACK (0316)	04
	PSC SCR			PLY CARD ASSEMBLY			CMFA	ABSOLUTE VALUE CEMF (0308)	
	DGC			C CARD			CRM	CROSSOVER MODIFY (0411) DELAYED FIRING POWER (0325)	05
	MFC	MOTO	R FIEI	LD CONTROL		*	DR	DRIVER REFERENCE (0333)	
	MFE			DEXCITER		*	EAO	ERROR AMP OUTPUT (03 33)	06
	MDR ACC			CONTROL CARD			EST	EXTERNAL FLT STOP INPUT (0314)	1
1	ALL	AUAI	LIARI	CONTROL CARD			FALT	FAULT (03 14)	07
	SYMBOLS		AMPI	LIFIERS			FC. FDR	FIELD CURRENT (NS26) FIELD DIAGNOSTIC REFERENCE (0708)	
		R2	7	-T-VO			FEA	FIELD BIAGNOSTIC REFERENCE (0708) FIELD ECONOMY ADJUST (0325)	08
	VI	15	Lvo	RIPO			FF	FIELD FAULT (02.28)	
	RI	ed -	4	7 4027			IABS	MOTOR CURRENT ABSOLUTE (03 09)	09
	-R2			R2			ILA	CURRENT LIMIT ADJUST (03 23)	
	$VO = \frac{-R2}{R1}$	VI	1	$70 = (1 \div \frac{R2}{RI}) VI$			IMET	CURRENT SIGNAL FOR METER (0310) INITIAL PULSE (0320)	10
	1	-				*	LR	LOCAL REF. FROM DGC (03.33)	
	T	CASE	GROUNI)		*	JOG	JOG SWITCH INPUT (0323)	11
	VI () NO	. VO =	SIGN	() X ABSOLUTE VALUE OF	FUT	*	JOGR	JOG REFERENCE INPUT (0331)	
	Mas					*	MAC	MAX/MA CONTROL SIGNAL (03 20)	12
	9	STAB	ON TEI	RMINAL			MSW OSC	MODE SWITCH (0330) OSCILLATOR (0317)	
		TERMI	NAL A	r 2TB, 3TB, 4TB, RTB.		*	PCR	PHASE CONTROL REF. (03 26)	13
				2TB9; X2 R - RTEX2		*	PRE	DRIVE PRECONDITION (0321)	
	0			r T.B.'s			ØSEQ	PHASE SEQUENCE (0314)	14
	0						RERR	REGULATOR ERROR (03 27)	1
	Tex	POTEN	TIOME	TER ARROWS ON THE CARL	D		RIJ	INTEGRATOR SUMMING JUNCTION (0327)	15
	-195			DIAGRAMS INDICATE TH			RRA	REGULATOR SUMMING JUNCTION (03 31) REGULATOR RESPONSE ADJUST (03 30)	
				CTION AS THE POTENTION			RSET	RESET (0316)	16
		FUNCT		OTATED CLOCKWISE TO I	NCREADE	*	RTR	READY TO RUN (0316)	
		1.0110-4				*	RUN	RUN SWITCH INPUT (0321)	17
1	A	THESE	RESI	STORS ARE CRIMPED IN N	WIRE	*	SA-C SFB	PHASE SYN OUTPUT (0316) SPEED FEEDBACK (0320)	18
		HARNE	SS.	·			SMET	SPEED SIGNAL FOR METER (0312)	10
		the local	1100	1 1000000		*	SR	SYSTEM REFERENCE INPUT (0329)	19
	FUNCTIO	DN USE	LOC	JUMPERS		*	SYS	SYSTEM FAULT TRIP (0313)	19
	60HZ		MFC	ZA-ZB (IF USED)		· · ·	TA TF	OUTPUT FOR TACHO TRIP ADJUST (03 20) TACHO FAULT (NS28)	20
	50HZ -	-+-	1000	1725 DUA			TFB	TACHO FAULT (NS28) TACHOMETER FEEDBACK (03 20)	20
		X	IMCC	HZA - PHA			TFR	AC TACHO FREQUENCY OUTPUT (0313)	21
	IOC-400 -500	38	IFC	I - IHI		*	TR	TIMED REFERENCE (0333)	~ .
	-30X		IFC	1-110		*	VFB	VOLTAGE FEEDBACK (0319)	22
	SR5 - 1		-	NONE)		*	WFR	WEAK FIELD REFERENCE (0320)	
1	9 - 1 JOGR 10	and the second sec	MCC	SRH - COM		(* - TES	T POINT ON DOOR FRONT)	23
				(NONE)				A CONTRACT DOCTOR EDUATED	
K	LT. 3-7	VC	the second s	IH - COM (NONE)					24
	2 - 60			3320 FROM LTI TO COM			MAPPIN	IG SYSTEM	
	VREG			NT-CEMF CC-COM					25
	DC TAC		1	(NONE)			(NS/PS	S/TS) PS - PAST SHEET	
	AC TAC			ATI - AT2				NS - NEXT SHEET	26
	TACHO		TFC	TC - TC				TS - THIS SHEET	
	TACHO 24-64v			NT-NTI PT - PTI				CATION ON PAST SHEET LINE 12. OTHER LOCATIONS	
	27-71v	ac	IFC	NT-NT1_PTPT1	DENOTED BY SHE 1A, LINE 16 ET		MBER AN	D LINE? E.G. (1A16) SIGNIFIES LOCATION ON SHEE	T
1	60-160		and the second division of the second divisio	NT-NT2 PT - PT2	13, LINE 10 13		NOTE :	TT FIELD EFFECT TRANSISTOR: THE	28
	66-177	and the same same	. work where we we	NT-NT2 PT - PT2				CLOSED/OPEN (I/O) STATE OF THESE	
9	110-30			NT-NT3 PT - PT3				SWITCHED FOR "PRECONDITION" - "RUN"	29
	120-30		and the local division of the local division	NT-NT3 PT - PT3				OR JOG" - "DIAGNOSTIC STATIC" - "DIAGNOSTIC RUN" IS SHOWN BY A	4.0
)	G134 G	1.7	1.000	MFC OR MFE				FOUR DIGIT WORD WITH STATE SEQUENCE.	30
4	4 2 21	2 01		ND - VD					



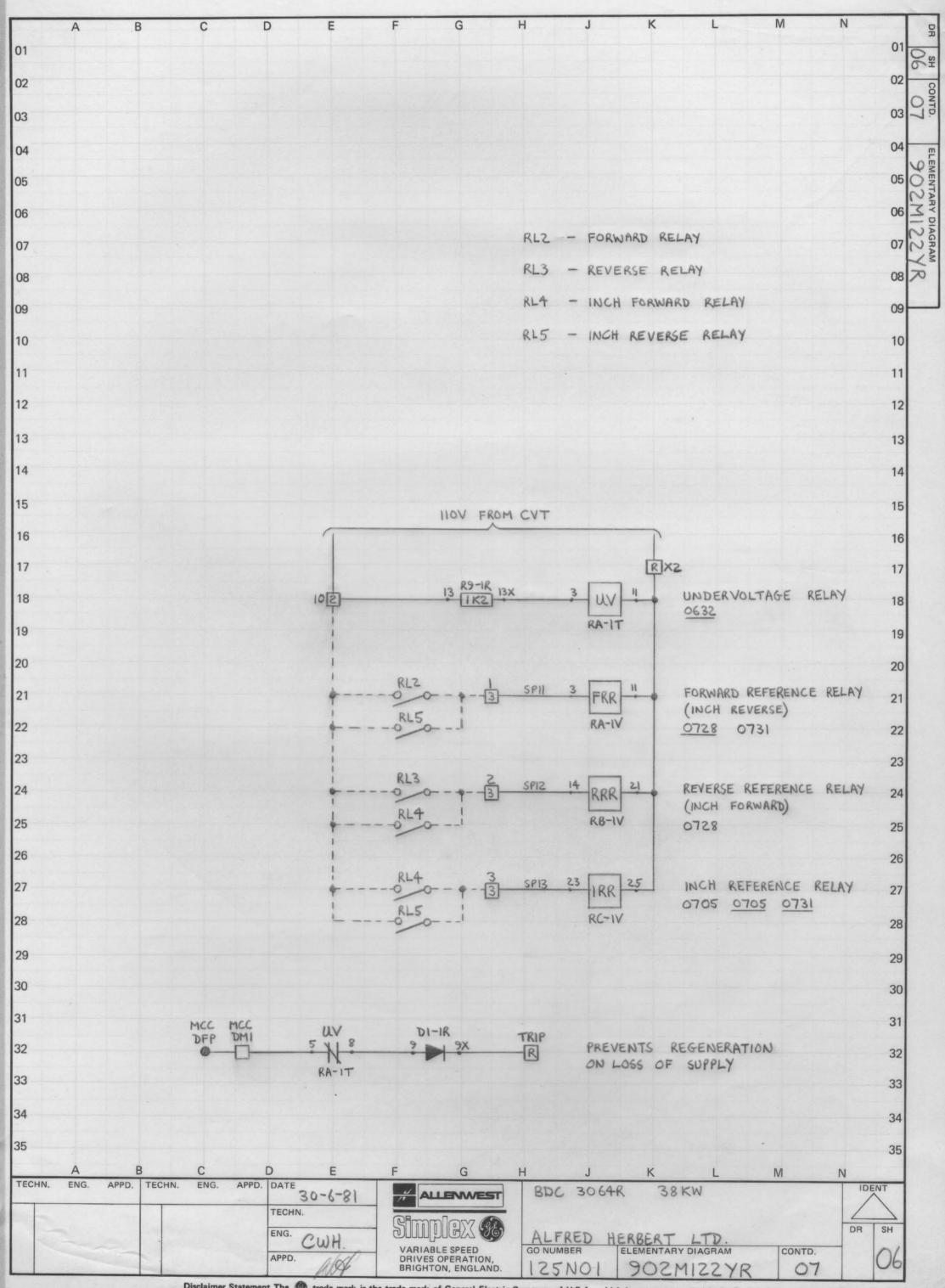
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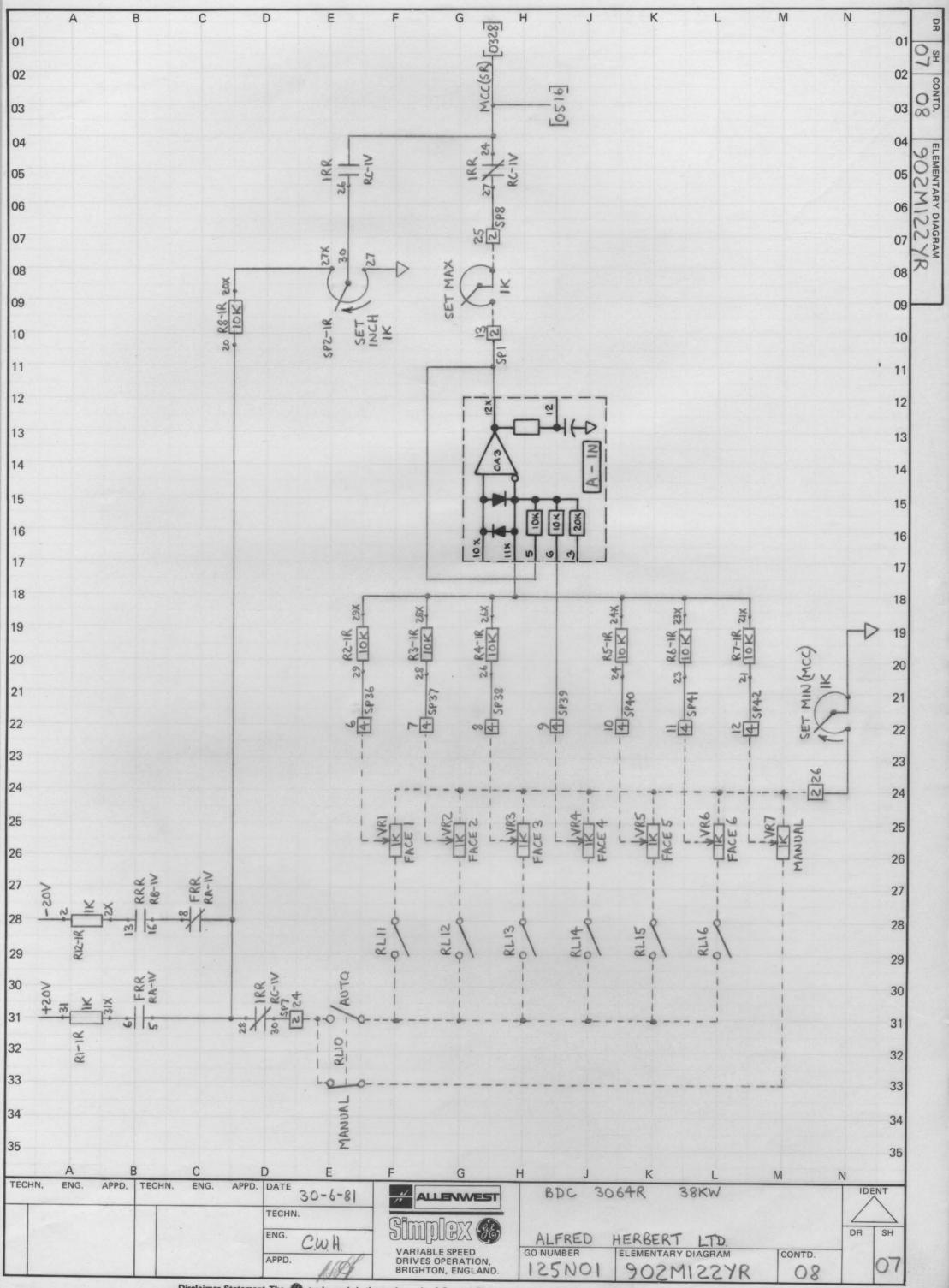


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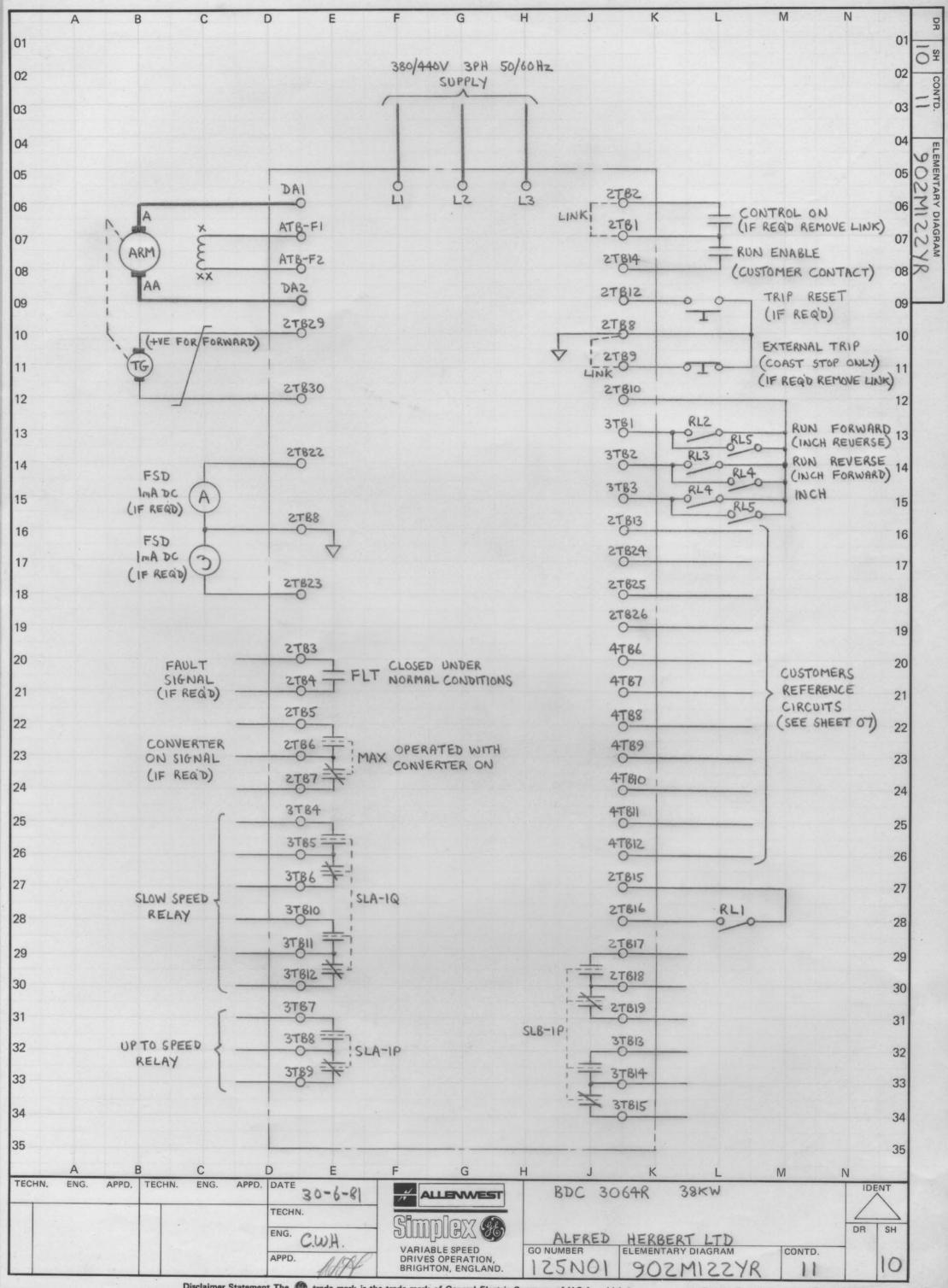


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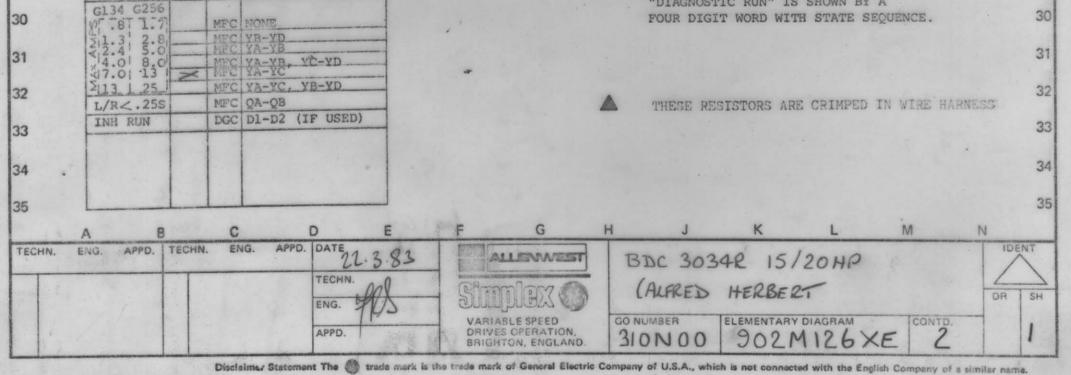


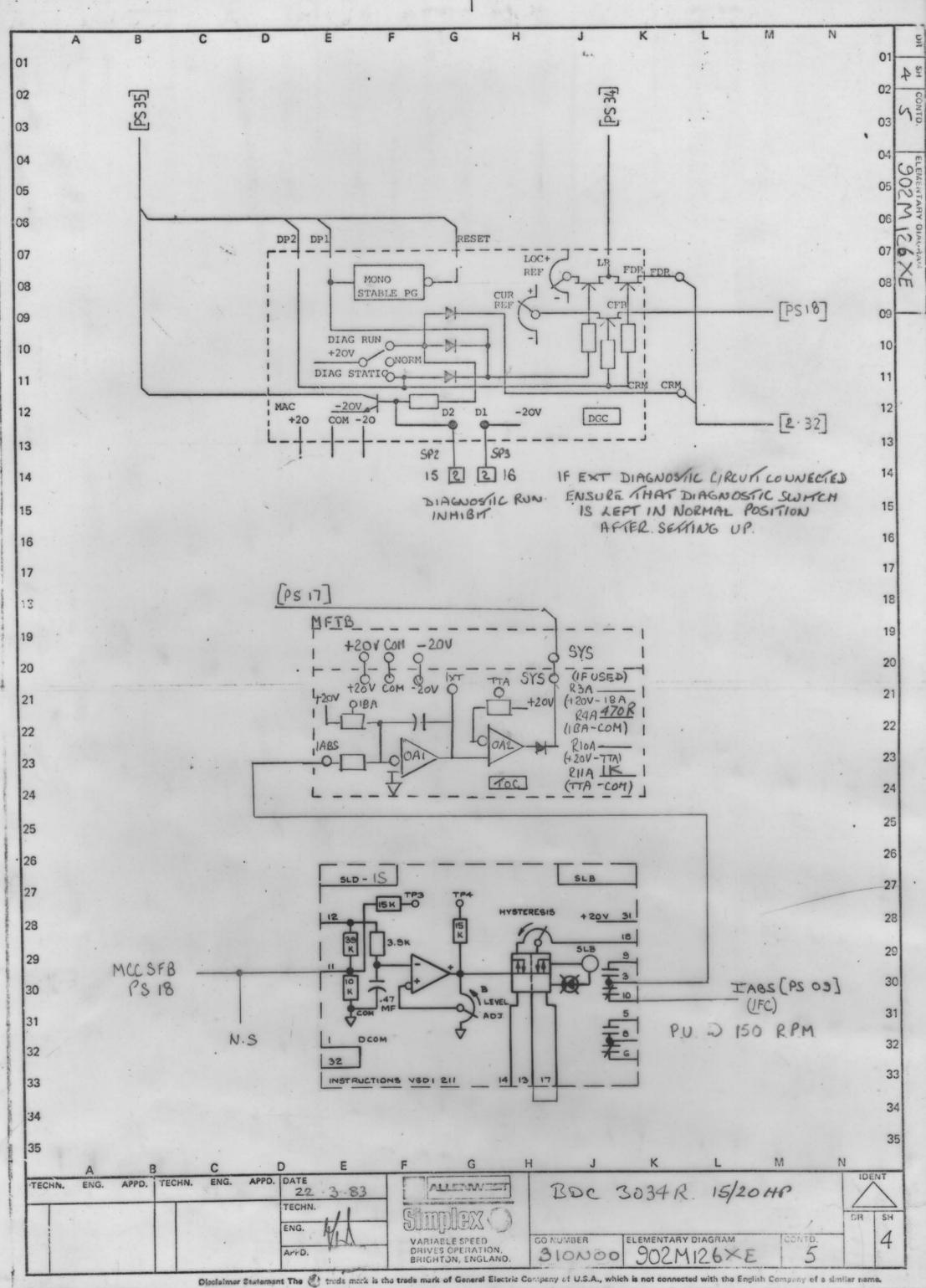
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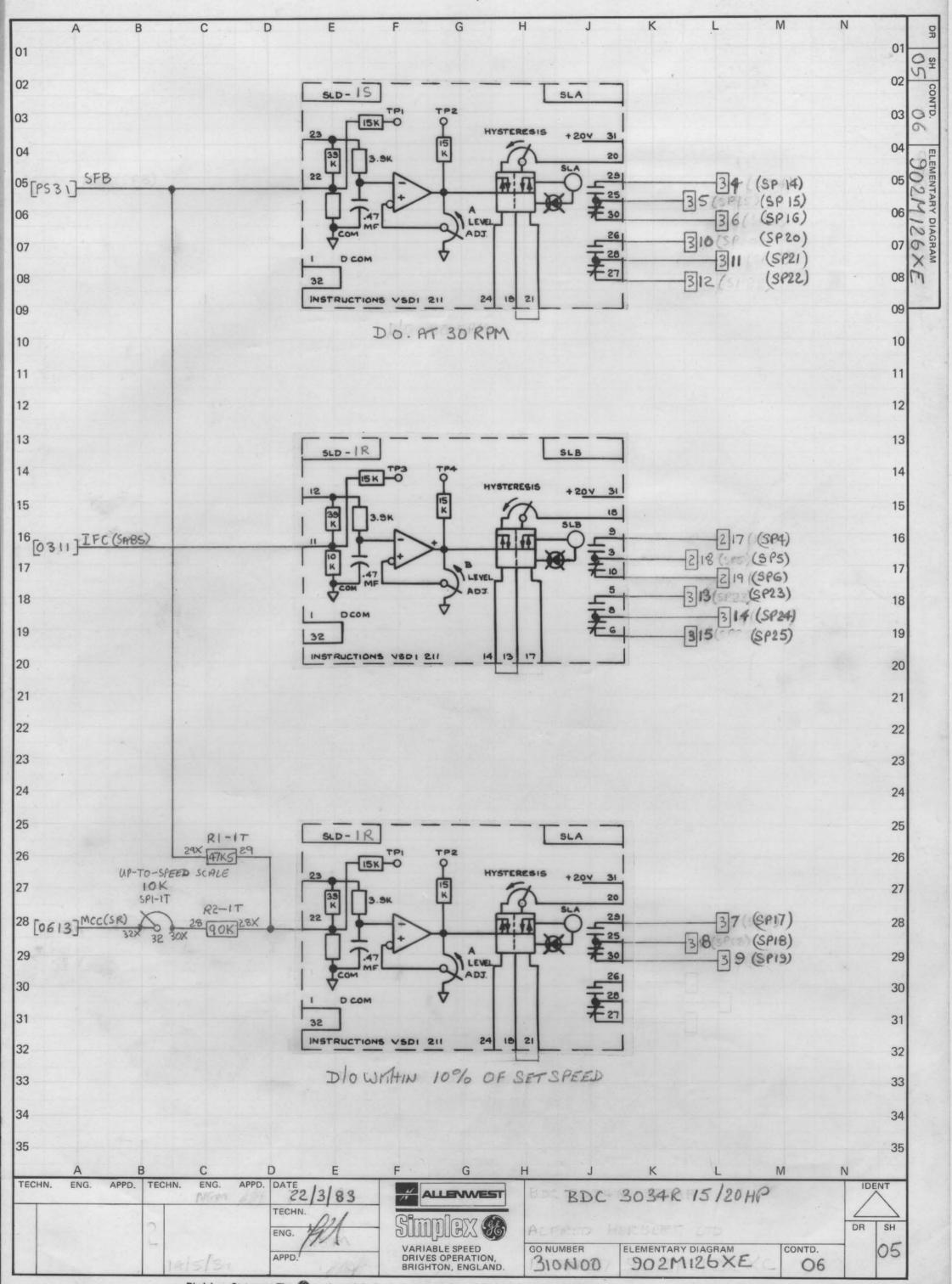


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A	В	С	DE	F G		н	J K L W N	
								01
VOLTAGE P	OLARIE	S SHO	WN ARE FOR MOTORING DA	1(+)	SI	GNAL DEFI	NITIONS AND LOCATIONS	02
HARDWARE	ABBREV	IATIO	NS		T		and the second	1
1 10								03
MCC	MAIN	CONTR	OL CARD		*	CEMF	COUNTER EMF (3-16)	
IFC	INTER				*	CFB	CURRENT FEEDBACK (3-16)	04
PSC			LY CARD	1		CMFA	ABSOLUTE VALUE CEMF (3.08)	
SCR	THYRI	STOR I	ASSEMBLY)		CRM	CROSSOVER MODIFY (4.11)	05
DGC	DIAGN					DFP	DELAYED FIRING POWER (325)	00
MFC	MOTOR	FIEL	D CONTROL		*	DR	DRIVER REFERENCE (3 33)	00
					*	EAO	ERROR AMP OUTPUT (3 33)	00
MDR	MODIF.	ICATIO	ON RACK			EST	EXTERNAL FLT STOP INPUT (3 14)	
		-				FALT	FAULT (314)	07
SYMBOLS		AMPL	IFIERS			FC FDR	FIELD CURRENT (NS26) FIELD DIAGNOSTIC REFERENCE (408)	
	R2		vo			FEA	FIELD ECONOMY ADJUST (3 25)	08
VI	~	VO F	RI o-a			FF	FIELD FAULT (#3 28)	
RI	0 >	the t				IAAS	MOTOR CURRENT ABSOLUTE (3 09)	09
-82	-	V	RZF		1	ILA	CURRENT LIMIT ADJUST (3 23)	
$VO = \frac{-R2}{R1}$	1.V	V	$0 = (1 + \frac{R2}{RI}) VI$			IMET	CURRENT SIGNAL FOR METER (3 10)	10
					*	IPU	INITIAL PULSE (3 20)	
	CASE G	ROUND				LR	LOCAL REF. FROM DGC (3 33) JOG SWITCH INPUT (3 23)	. 11
ANT DIN					*	JOG JOGR	JOG REFERENCE INPUT (3 31)	
ABS	VO = S	IGN () X ABSOLUTE VALUE OF V	II .	*	MAC	MAX/MA CONTROL SIGNAL (3 20)	12
0	STAB O	N TER	MINAL			MSW	MODE SWITCH (3 30) .	131.11
Т.					*	OSC	OSCILLATOR (3 17)	13
	TERMIN	AL AT	2TB, 3TB, 4TB, RTB.		*	PCR	PHASE CONTROL REF. (3 26)	15
			2TB9; X2 2 - RTBX2		*	PRE	DRIVE PRECONDITION (3 21)	14
0	TERMIN	AT. AT	T.B.'s			ØSEQ	PHASE SEQUENCE (3 14)	1-9
0	TTENT	113 PT	1.0. 5			RERR	REGULATOR ERROR (3 27)	
The second	POTENT	IOMET	ER ARROWS ON THE CARD			RIJ	INTEGRATOR SUMMING JUNCTION (27)	15
11 12			DIAGRAMS INDICATE THE			RJ RRA	REGULATOR SUMMING JUNCTION (3 31) REGULATOR RESPONSE ADJUST (3 30)	
	WIPER	DIREC	TION AS THE POTENTIOMET	TER		RSET	RESET (3 16)	16
			TATED CLOCKWISE TO INC	REASE	*	RTR	READY TO RUN (3 16)	
	FUNCTI	ON.				RUN	RUN SWITCH INPUT (3 21)	17
FUNCTION	USE	Loc	JUMPERS		*	SA-C	PHASE SYN OUTPUT (3 16)	-
	1	MCC	AA-AS, BA-BS, CA-CS		*	SFB	SPEED FEEDBACK (3 20)	18
60HZ		MEC				SMET	SPEED SIGNAL FOR METER (3 12)	
A		1	A series where we have a series of the serie			SR SYS	SYSTEM REFERENCE INPUT (3 29) SYSTEM FAULT TRIP (3 13)	19
		A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR A CONTRAC	0.00474F RT1-RT2			TA	OUTPUT FOR TACHO TRIP ADJUST (3 20)	2.7
50HZ	X		0.00474F RT2-RT3			TF	TACHO FAULT (NS28)	20
			0-00474F RT3-RT1 AA-AF, BA-BF, CA-CF			TFB	TACHOMETER FEEDBACK (3 20)	
	-	and the second second	NONE			TFR	AC TACHO FREQUENCY OUTPUT (3 13)	21
IOC-400% -500%			I-IHI		*	TR	TIMED REFERENCE (3 33)	
-300%			I-IIQ		*	VFB	VOLTAGE FEEDBACK (3 19)	22
SR5 - 91	7	1.0	(NONE)		*	WFR	WEAK FIELD REFERENCE (3 20)	#- E-
9 - 20	×	MCC	SRH-COM					23
JOGR LOW	7		(NONE)		(" + TEST	F POINT ON DOOR FRONT)	20
201	7	MCC	JH - COM					24
LT. 3-7se	a subscription in the subscription in		(NONE)					24
2 - 6050	Statement and the owner of the owner owne	the second second	3320FROM LTITOCOM			MAPPINO	<u>G SYSTEM</u>	
VREG	-	IFC	NT-CEME, CC-COM			120 /20	(mc) DC - DACH CUEFM	25
DC TACHO		-	(NONE)			(NS/PS,		
AC TACHO			ATL-AT2				NS - NEXT SHEET TS - THIS SHEET	26
TACHO FI		TIFC	TC-TC	HENCE DS -	120	ENOTES LOG	CATION ON PAST SHEET LINE 12. OTHER LOCATION	IS ARE
TACHO V. 24-64vdd		TEC	NT-NTI PT-PTI	DENOTED BY	SHEE	I NUMBER	AND LINE, E.G. [IA16] SIGNIFIES LOCATION ON SE	EET 27
27-71 vad		IFC IFC	NT-NTL PT-PTL	LA, LINE 16				
60-160v		IFC	NT-NT2, PT-PT2				FIELD EFFECT TRANSISTOR: THE	28
66-177	ac	IFC	NT-NT2, PT-PT2				CLOSED/OPEN (I/O) STATE OF THESE	
110-300		IFC	NT-NT3.PT-PT3				SWITCHED FOR "PRECONDITION" - "RUN"	29
120-300			NT-NT3, PT-PT3				OR JOG" - "DIAGNOSTIC STATIC" -	29
G134 G2		1					"DIAGNOSTIC RUN" IS SHOWN BY A	

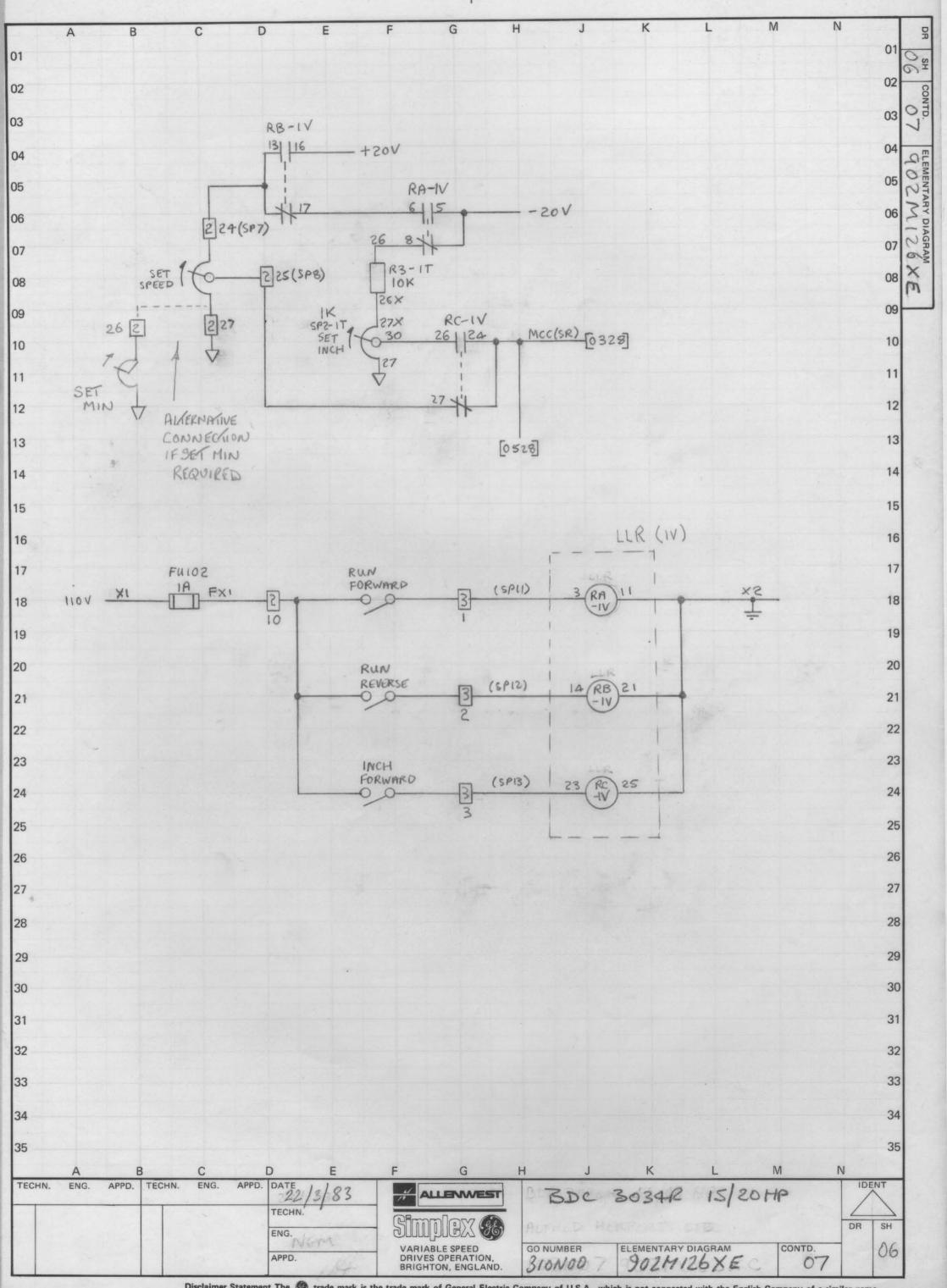
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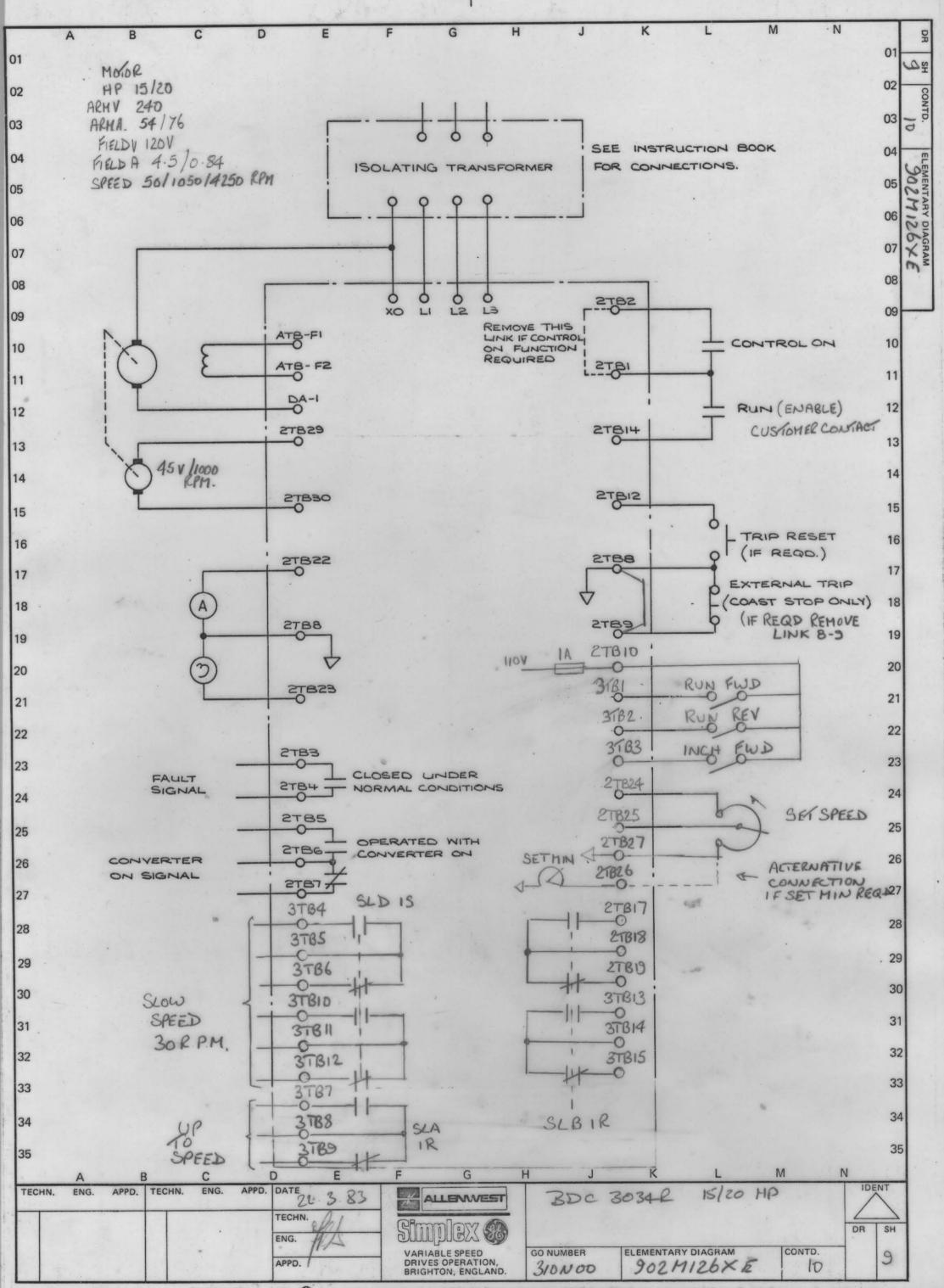




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