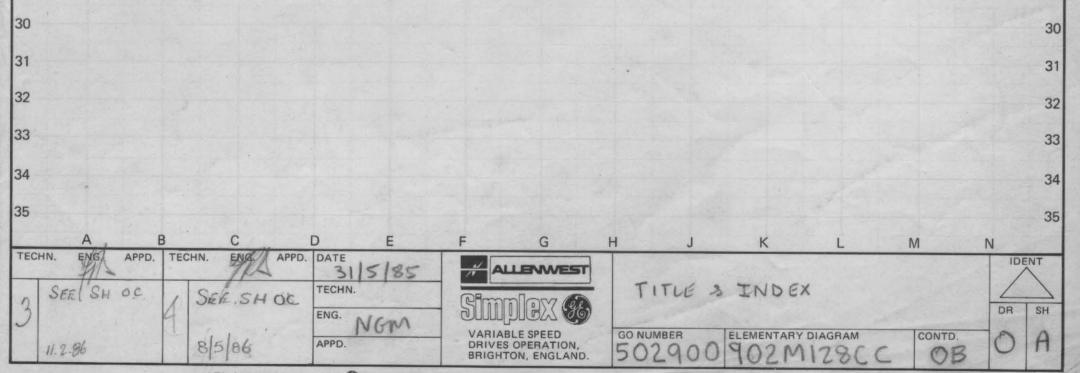
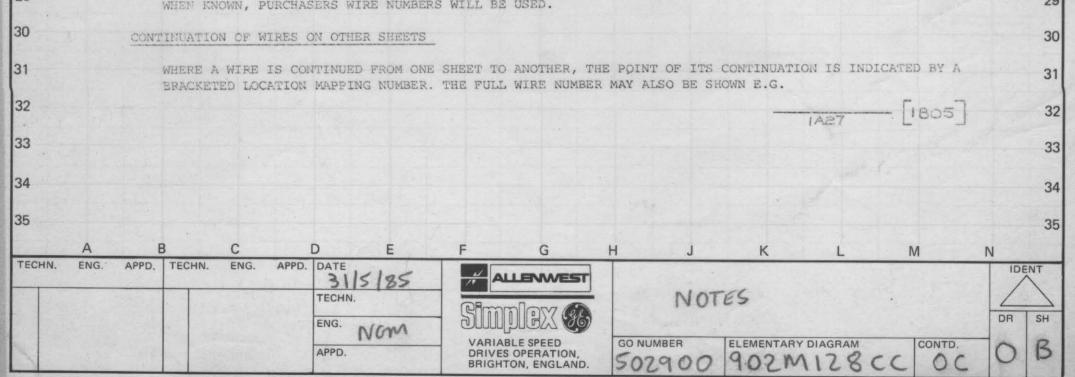
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04 05 06	EQUIPMENT FOR R	UBBER	TYRED	GAN	ITRY	CRA	NE			04 05 06
07 08	ALLENEST REP	5029	00							00 07 08
09	MANUFACTURED FOR -									09
10	HERBERT MORRIS LTD									10
11 12	NORTH ROMD LOUCHBOROUCH LEICS LEIN IRL	•								11
13	ORDUR Nº 184257/57/11856						1			12
14	USER-									13
15	CIA.S.T.			s.						14
16	TPSWICH									15
17										17
18	INDEX									18
19										19
20	NOTES	—	OB							20
21	RECORD OF DIAGRAM CHANGES	-	oc							21
22										22
23	HOIST / GANTRY	-	1A-11	N						23
24	TROLLEY	-	2A - 2	2G						24
25										25
26	ASSOCIATED DIAGRAMS									26
27										27
28										28
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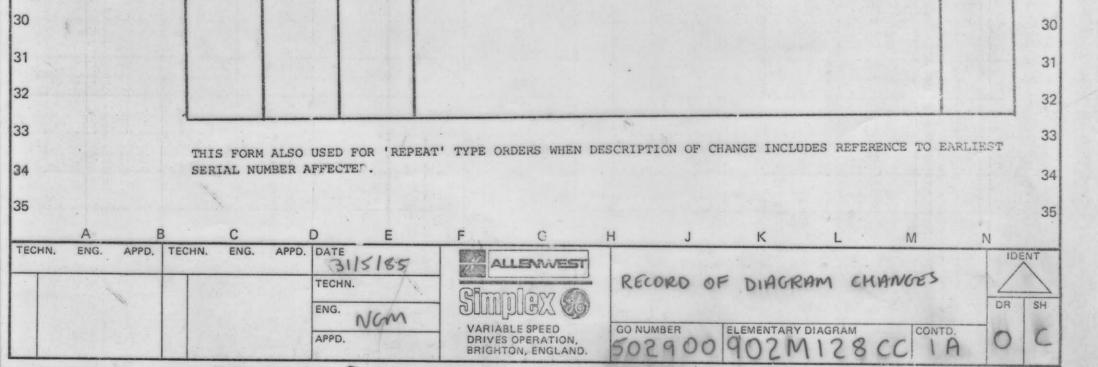
N B C D E F G H J K L M N	
	01-
DETUD NEWERDING CUODEN	02
DRIVE NUMBERING SYSTEM	03
<ol> <li>TO BREAK THE ELEMENTARY DIAGRAM INTO EASY-TO-USE SECTIONS, A SERIES OF ARBITRARY "DRIVES" HAS BEEN ESTABLISHED, WITH THE ELEMENTARY SHEETS ALPHABETICALLY NUMBERED IN EACH DRIVE. FOR EXAMPLE: - SHEETS 3A, 3B AND 3C ARE THE FIRST THREE ELEMENTARY SHEETS IN DRIVE No.3.</li> </ol>	04
2. THE DRIVE CONCEPT IS ESTABLISHED TO CONVENIENTLY SECTIONALIZE THE ELEMENTARY DIAGRAM, AND NOT NECESSARILY TO DENOTE SEPARATE PHYSICAL EQUIPMENTS. HOWEVER, ALL THE SYSTEM ELEMENTS INCLUDED IN A DRIVE WILL BEAR AN OBVIOUS FUNCTIONAL RELATIONSHIP; FOR EXAMPLE A NUMBER OF AUXILIARY MOTOR STARTERS MAY BE GROUPED TOGETHER AND REFERRED TO AS "DRIVE 1". THIS SHEET IS "OB", THE SECOND SHEET OF DRIVE "O", I.E. THE	05
INTRODUCTORY MATERIAL.	07
WIRE NUMBERING SYSTEM	00
	80
WIRE NUMBERS ARE SHOWN ON EACH SHEET AS TWO-DIGIT NUMBERS (E.G. 01, 02, 10, 42 ETC.) EXCEPT FOR WIRE ORIGINATING ON ANOTHER SHEET, WHICH ARE SHOWN AS 4-DIGIT OR 5-DIGIT NUMBERS. IN ALL CASES, THE COMPLETE WIRE NUMBER (WHICH APPEARS ON THE ACTUAL WIRES IN THE EQUIPMENT AND ON THE TERMINAL BOARDS) IS A 4-DIGIT	09-
OR 5-DIGIT NUMBER. THE FIRST TWO OR THREE DIGITS INDICATE THE NUMBER OF THE ELEMENTARY DIAGRAM SHEET ON WHICH THE WIRE ORIGINATES AND THE LAST TWO DIGITS INDICATE THE WIRE ON THAT SHEET. THUS 2A04 INDICATES WIRE NUMBER 04 ORIGINATING ON SHEET 2A OF THE DIAGRAM; AND 15C34 INDICATES WIRE NUMBER 34 ORIGINATING ON SHEET	10
	12
LOCATING MAPPING SYSTEM	
4 OR 5 DIGIT NUMBERS WITHIN BRACKETS, SUCH AS (15C35), ALWAYS INDICATE A LOCATION WITHIN THE ELEMENTARY DIAGRAMS. THE LAST TWO DIGITS OF THE BRACKETED NUMBER INDICATES THE LINE NUMBER ON A SHEET AND THE FIRST	13 14
TWO OR THREE DIGITS INDICATE WHICH SHEET; THUS (15C35) INDICATES LINE 35 ON SHEET 15C.	15
RELAY MAPPING SYSTEM	15
1. UNDER EACH CONTACT (EXCEPT MAIN CONTACTS OF CONTACTORS AND STARTERS) A LOCATION MAPPING NUMBER INDICATES WHERE THE OPERATING COIL IS TO BE FOUND IN THE ELEMENTARY DIAGRAMS.	16
	17
2. IN THE DIAGRAM MARGIN BESIDE EACH OPERATING COIL, LOCATION NUMBERS GIVE THE LOCATION OF DEVICE CONTACTS THAT ARE USED. LOCATION NUMBERS AT OPERATING COILS DIFFER FROM THE USUAL LOCATION NUMBERING SYSTEM IN THAT:-	18
A) THE BRACKETS ARE ELIMINATED, AND	19
B) UNDERSCORING INDICATES A NORMALLY CLOSED CONTACT AND LACK OF UNDERSCORING INDICATES A NORMALLY OPEN CONTACT.	20
THUS 3856 INDICATES A NORMALLY OPEN CONTACT LOCATED ON LINE 56 OF SHEET 3B OF THE ELEMENTARY DIAGRAM, AND 13848 INDICATES A NORMALLY CLOSED CONTACT LOCATED ON SHEET 13B, LINE 48.	21
AGAIN MAIN CONTACTS OF CONTACTORS AND STARTERS ARE NOT "MAPPED".	22
	23
CONTACTS FOR PURCHASER'S USE	24
CONTACTS FOR PURCHASER'S USE WILL BE SHOWN ISOLATED, IN THE BODY OF THE DIAGRAM, AS NEAR AS CONVENIENT TO THE ASSOCIATED OPERATING COIL.	25
WIRE NUMBERS WILL BE SHOWN ON THE WIRES COMING OUT OF THE CONTACT WITH THE LABEL "FOR PURCHASER'S USE" OR SIMILAR WORDING; THE SYMBOL FOR TERMINALS FOR CUSTOMER'S USE IS SHOWN ON SHEET OA.	26
THESE CONTACTS WILL ALSO BE "MAPPED" AT THE COIL LOCATION.	27
IN THE ACTUAL EQUIPMENT, THESE WIRES WILL BE RUN TO THE TERMINAL BOARD, WHICH WILL BE MARKED WITH THE WIRE NUMBERS.	28



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SO2HMIDOCY SHEE

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						03
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	SHEET No.	ISSUE	DATE	LOCATION AND DESCRIPTION OF CHANGE	ISSUED BY	05
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	IE	3	11.2.86	HAT CONTACT RAIN CONTACT 224, 226 ADDED		09
	IG	3	11.2.86	RAIU ADDEL		10
	/A	4	8.5.86		Hes yes	11
	IG	4	8.5.86			12
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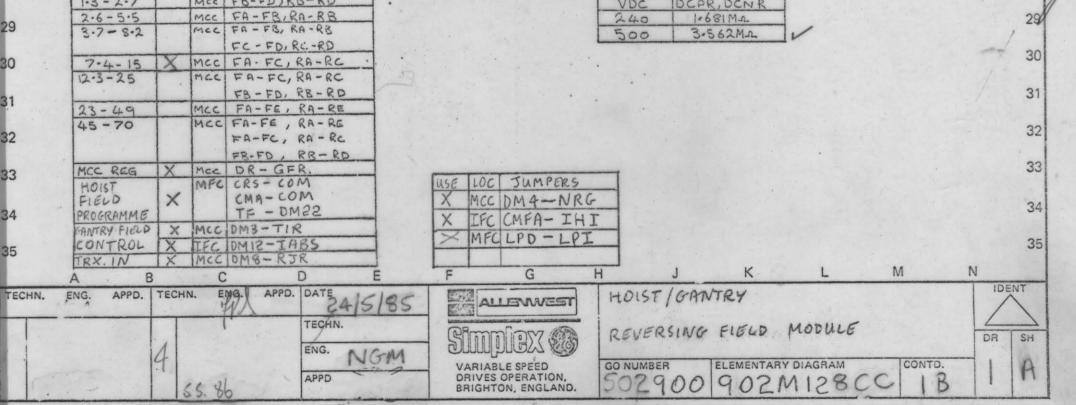


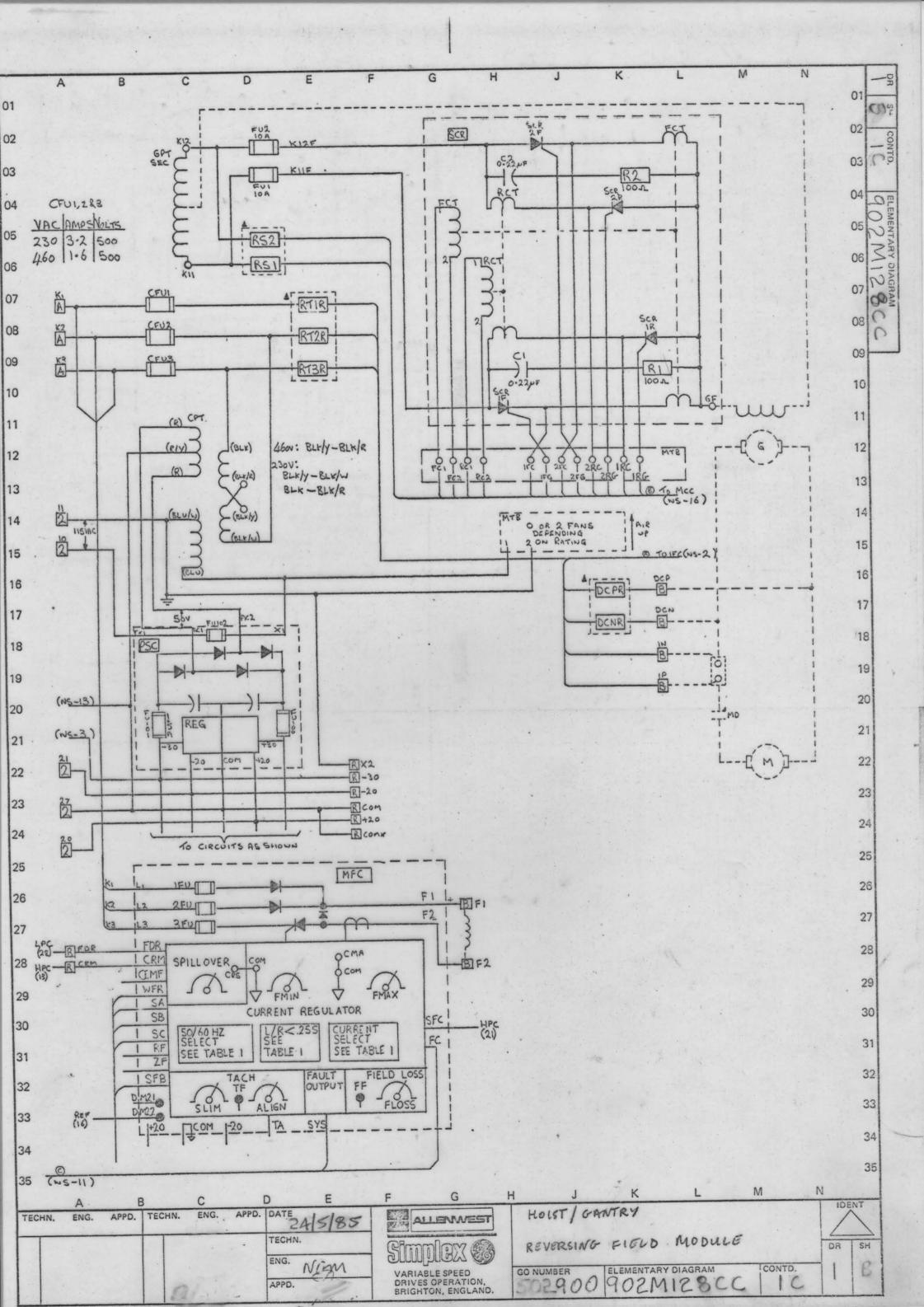
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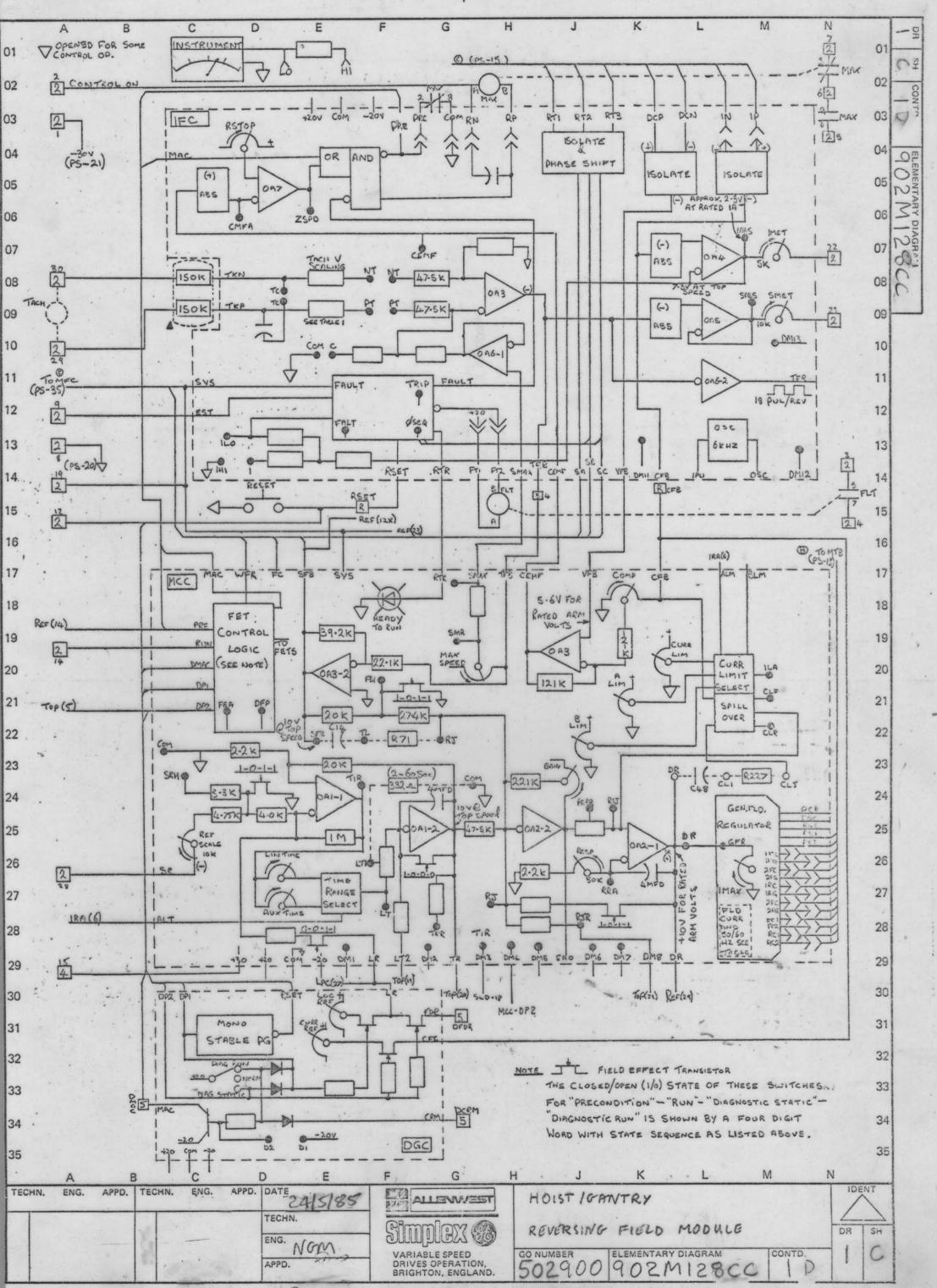
A B C D E F	G	н	J K L M	N	01-
VOLTAGE POLARITIES SHOWN ARE FOR GET					
HARDWARE ABBREVIATIONS					02
MCC - MAIN CONTROL CARD		*ALM	A CURRENT LIMIT SWITCH INPUT		-
IFC - INTERFACE CARD		WALT	AUX LINEAR TIME SWITCH INPUT		03 0
PSC - POWER SUPPLY CARD SCR - THYRISTOR ASSEMBLY		*BLM *CEMF	B CURRENT LIMIT SWITCH INPUT COUNTER EMF		0510
DGC - DIAGNOSTIC CARD		XCFB	CURRENT FEEDBACK		
MFC - MOTOR FIELD CONTROL	-	CMFA	ABSOLUTE VALUE CEMF	1	04
MFE - MOTOR FIELD EXCITER		CRM	CROSSOVER MODIFY		E
MDR - MODIFICATION RACK		DFP	DELAYED FIRING POWER		05
SYMBOLS AMPLIFIERS		*DMAC	DIAGNOSTIC MAC INPUT		T
Log VIN VO		*DR	DRIVER REFERENCE		06
		*EAO	ERROR AMP OUTPUT		00 -
VI RILLO VO CRILLOC		EST	EXTERNAL FLT STOP INPUT	1. 1. 1. 1.	-
$\square$		FALT	FAULT		07 5
-R2		*FC	FIELD CURRENT		10
$Vo = \frac{-R2}{R1} V1$ $Vo = (1 + \frac{R2}{R1}) V1$		FDR	FIELD DIAGNOSTIC REFERENCE		08
		FEA	FIELD ECONOMY ADJUST		
CASE GROUND		FF	FIELD FAULT		00
VICTVO NO - SIGN () X ABSOLUTE VALUE OF M		*FGC	FORWARD FIELD CURRENT FEEDBRCK		09-
ABS VO = SIGN ( ) X ABSOLUTE VALUE OF VI		IABS	MOTOR CURRENT ABSOLUTE		
	S	ILA	CURRENT LIMIT ADJUST		10
POTENTIOMETER ARROWS ON THE CARD		IMET	CURRENT SIGNAL FOR METER	÷.	
- O - ELEMENTARY DIAGRAMS INDICATE THE		*LR	LOCAL REF. FROM DGC		11
WIPER DIRECTION AS THE POTENTIOMETER		*LT2	LINEAR TIME INTEGRATOR		
SHAFT IS ROTATED CLOCKWISE TO INCREASE	-	WHINE	SUMMING JUNCTION.		10
FUNCTION.		*MAC OSC	MAX/MA CONTROL SIGNAL OSCILLATOR		12
- STAB ON TERMINAL	•1.15.14	*PCR	PHASE CONTROL REF.		
- TERMINAL AT 2TB, 3TB, 4TB, 5TB, RTB		*PRE	DRIVE PRECONDITION		13
EX: 9 2 - 2TB9; X2 R - RTBX2		ØSEC	PHASE SEQUENCE		
		RERR	REGULATOR ERROR		14
(NS/PS/TS) PS - PAST SHEET		*RGC	REVERSE FIELD CURRENT FEEDBACK		14
NS - NEXT SHEET		RIJ	INTEGRATOR SUMMING JUNCTION		
TS - THIS SHEET		RJ	REGULATOR SUMMING JUNCTION		15
		RRA	REGULATOR RESPONSE ADJUST		
THESE RESISTORS ARE CRIMPED IN WIRE		RSET	RESET		16
HARNESS.		*RS1-2	AC SYNCHRONIZING INPUT		
FUNCTION USE LOC JUMPERS		XRTR	READY TO RUN		17
60HZ MCC X-Y		*RUN	RUN SWITCH INPUT		
MFC ZA-ZB (IF USED)		SA-C	PHASE SYN OUTPUT		
50HZ X (NONE)		*SFB	SPEED FEEDBACK		18
10C-400% X (NONE)		SMET	SPEED SIGNAL FOR METER		-
-500%   FC  -1H1		#SR	SYSTEM REFERENCE INPUT		19
-300% IFC 1-1LO SR 5-9V X (NONE)		*SYS	SYSTEM FAULT TRIP		
9-20V MCC SRH-COM		TA	OUTPUT FOR TACHO TRIP ADJUST		20
LT. · 3-7 SEC X (NONE)	+	TF *TFB	TACHO FAULT TACHOMETER FEEDBACK		
1-25 SEC MCC 562 AFROMLTI TO COM		TFR	AC TACHO FREQUENCY OUTPUT		21
CEMF REG X LIFC NT-CEMF, PT-COM		*TR	TIMED REFERENCE		21
DC TACH (NONE)		*VFB	VOLTAGE FEEDBACK		
TACH FILT IFC TC-TC		*WFR	WEAK FIELD REFERENCE		22
TACHVOLTS					
18-49 VDC IFC NT-NTL PT-PTI		- ماند)	TEST POINT ON DOOR FRONT AS		23
46-123 NDC IFC NT-NT2, PT-PT2			ARE ALL MCC TERMINALS.)		
85-237 VDC IFC NT-NT3, PT-PT3			The first first further by		24
GUS G2,5,6 MEC OR MEE					
.8 1.7 MFC (NONE)					
1.3 12.8 MEC YB- YD					25
2.4 5.0 MFC YA-VB		In all and	0710710201		
4.0 18-0 MFC YA-YB, YC-YD			AC RTI, 2, 3R		26
7.0 13.0 MEO VA-YC		360-44			
13.0 125.0 × MFC VA-YC, VB-YD.	· · ·	230			27
L/R < -255 X MFC QA-QB INH RUN DGC DI-D2 (IF USED)		450	WHET WAS IN SYNTHETIC IN A THIN THE THIN THIS CONTRACT AND THE CONTRACT AN		2/
INH RUN DGC DI-D2 (IF USED)		IPH VAC			
.8-1.7 (NONE)		340			28
1+3-2-7 Mcc FB-FD, RB-RD .		Constrained and the long of	Addressing the Teacher and Teacher		
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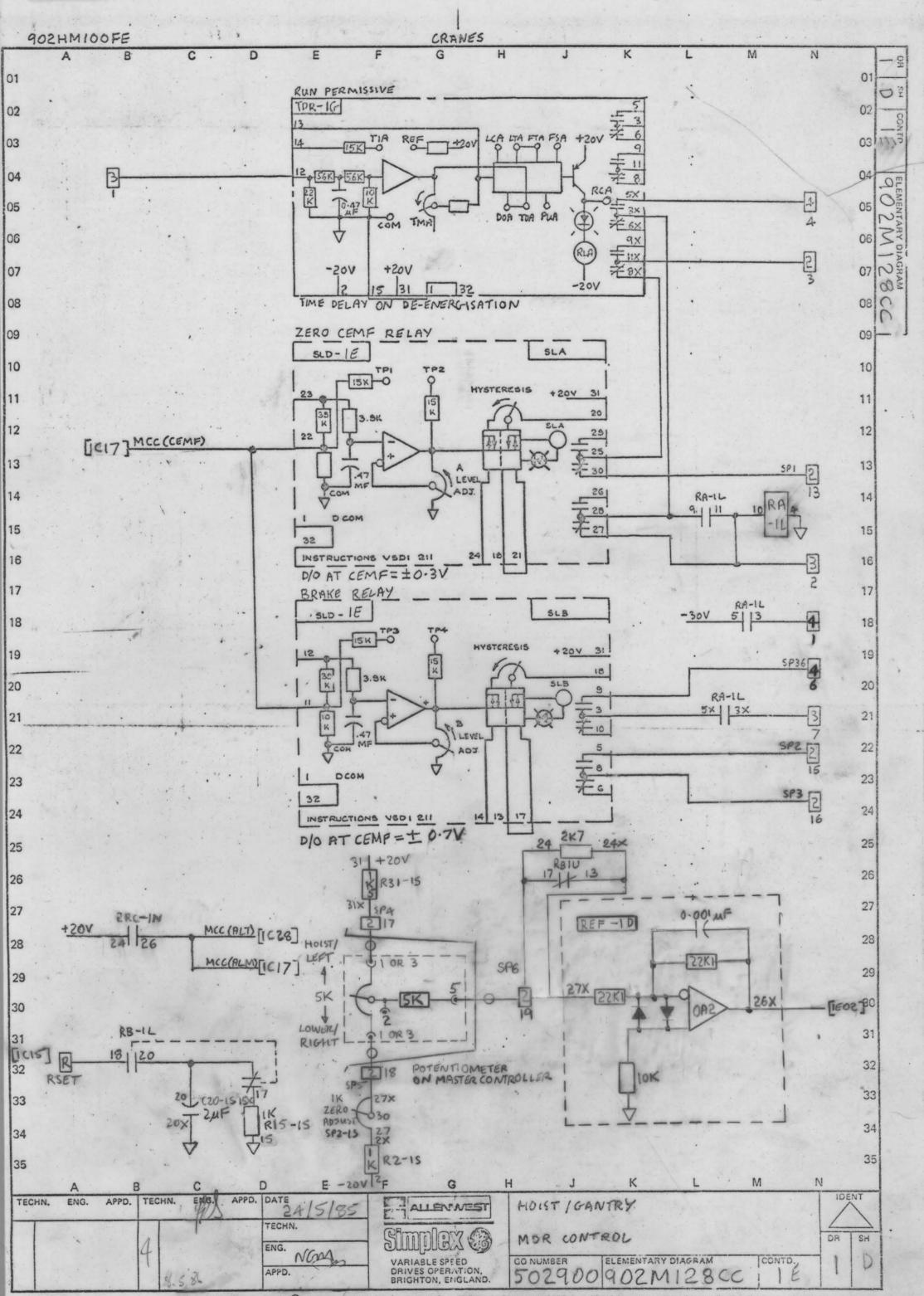
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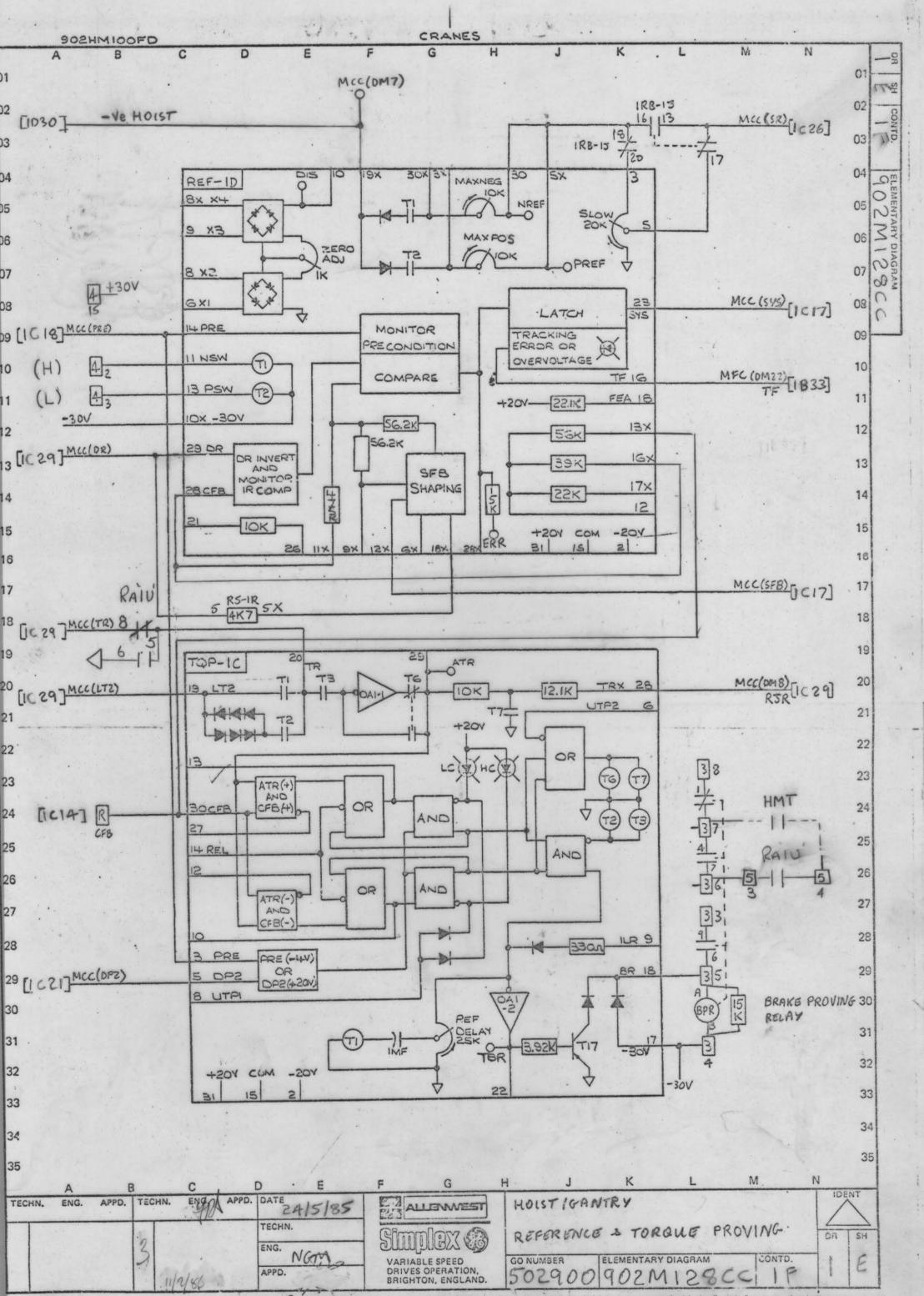




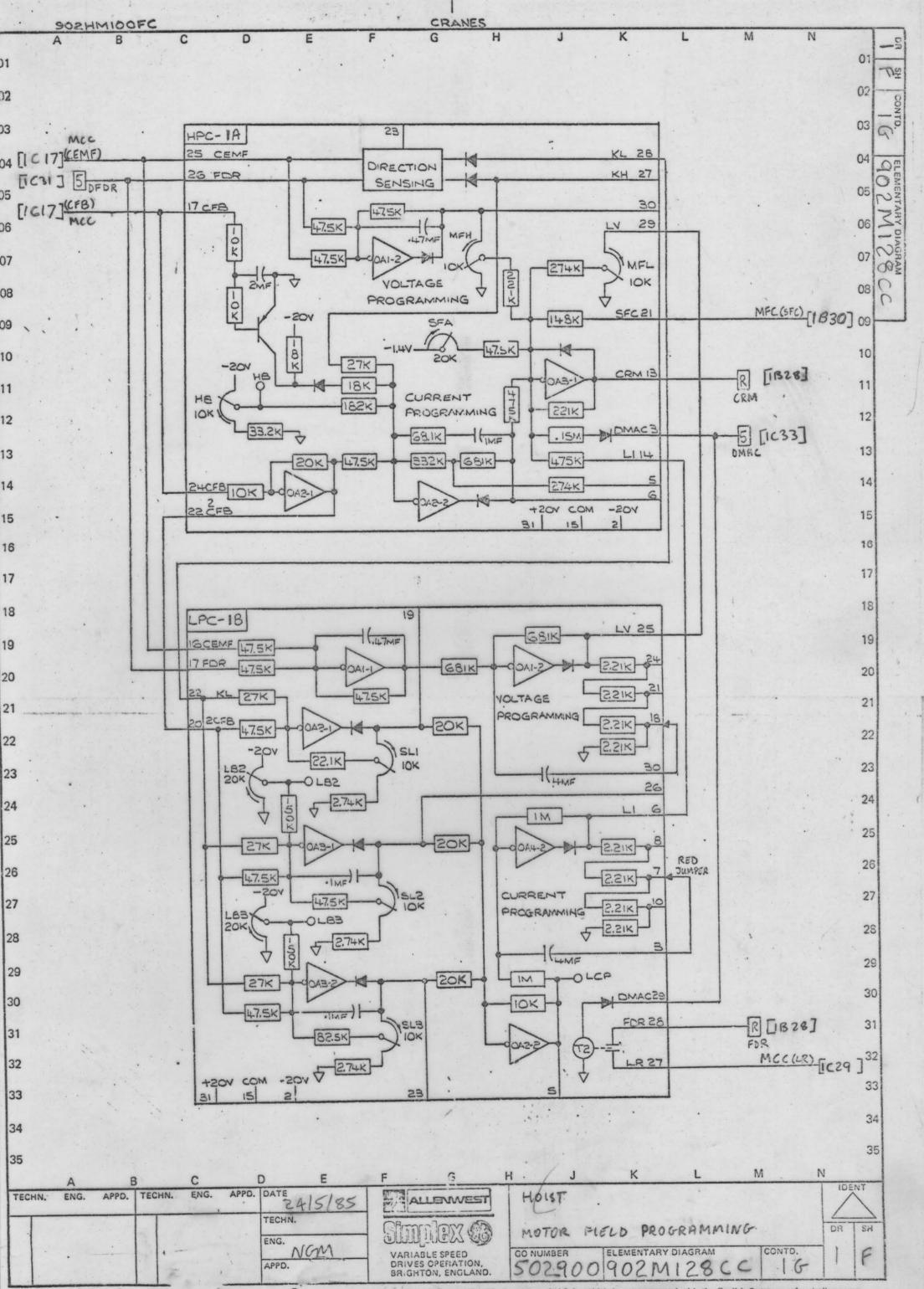




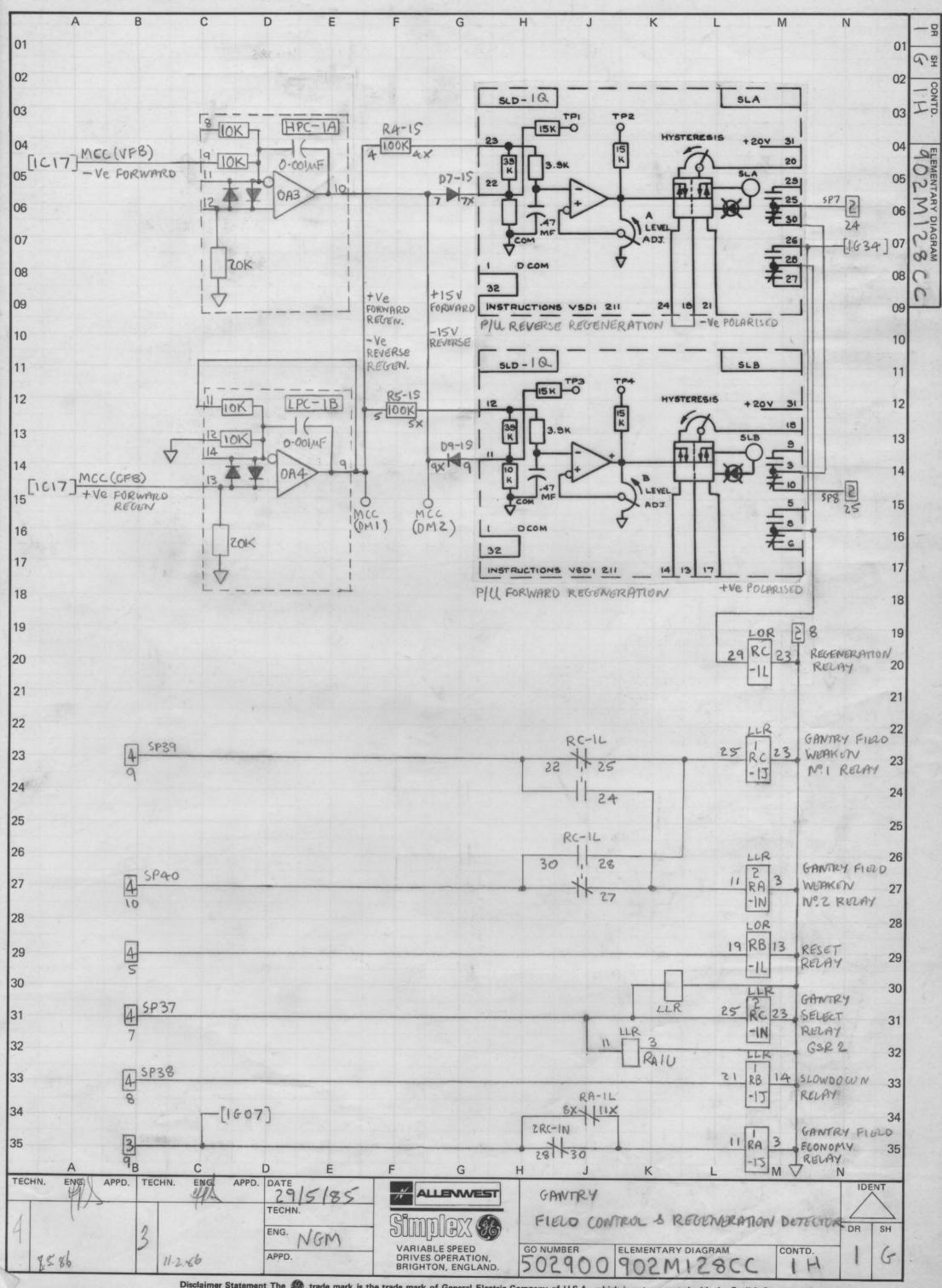
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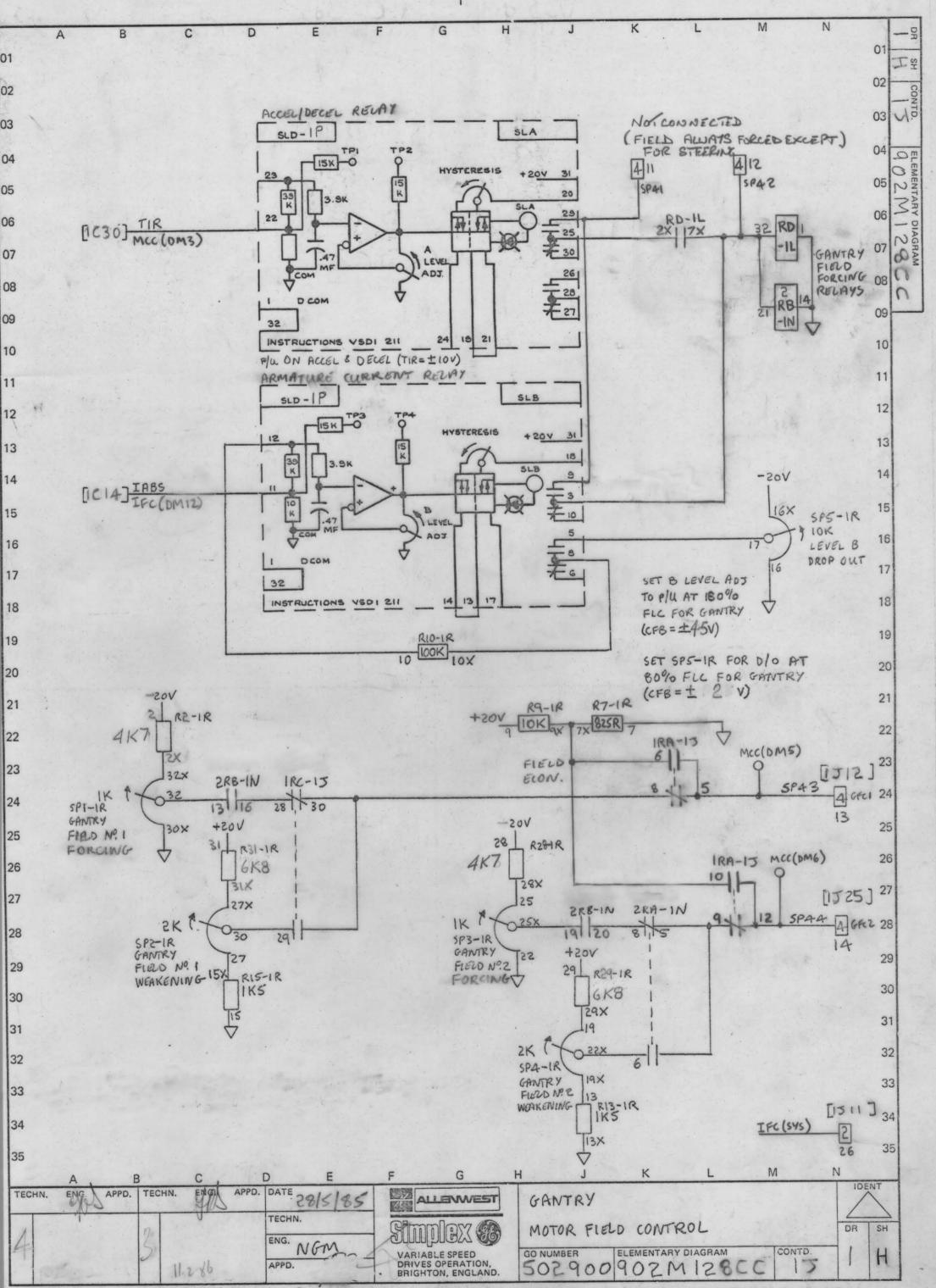


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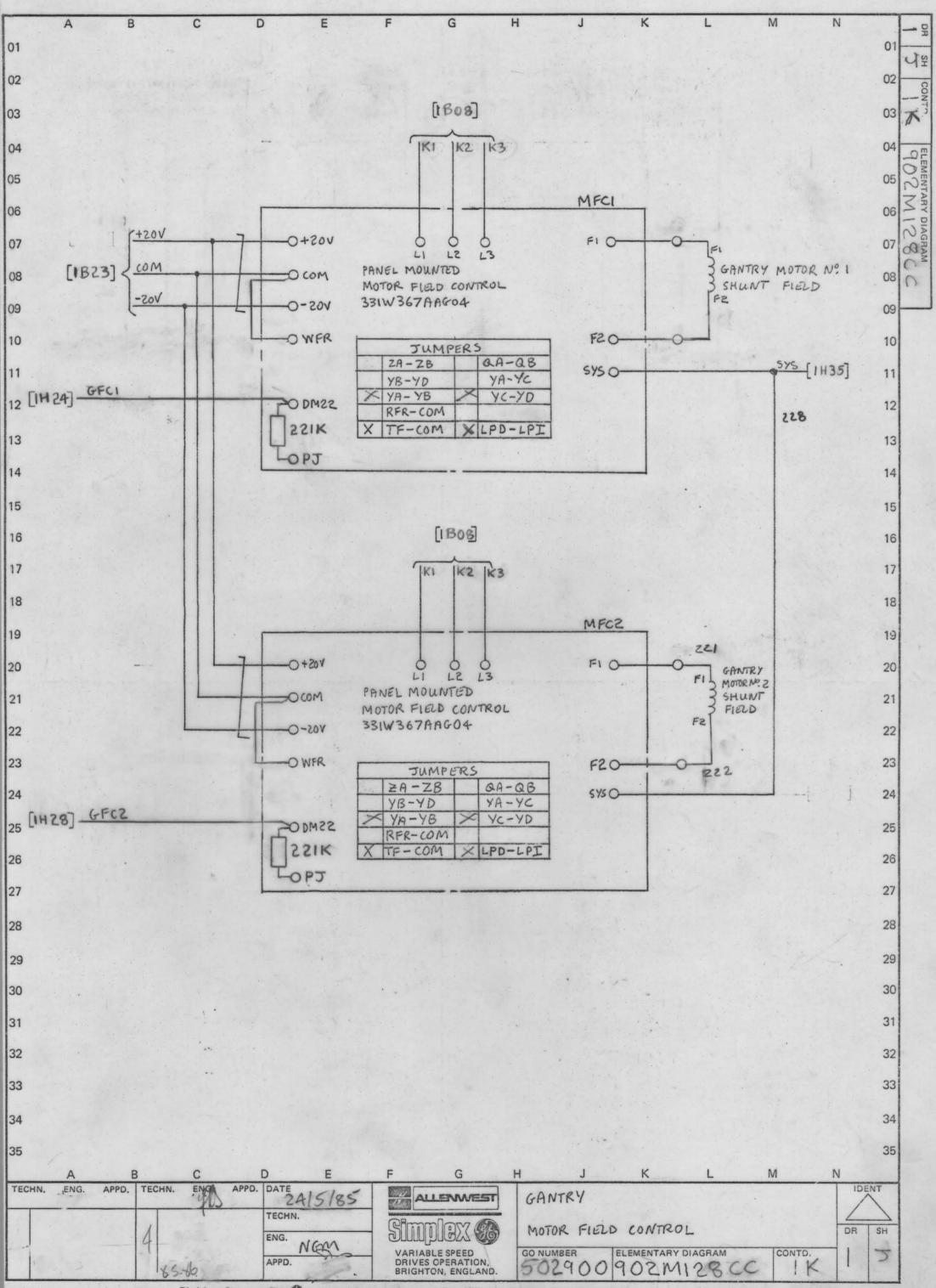


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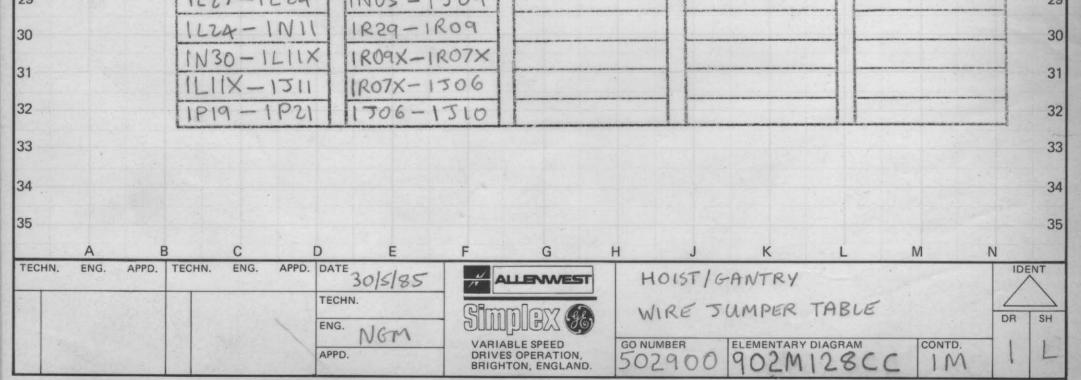
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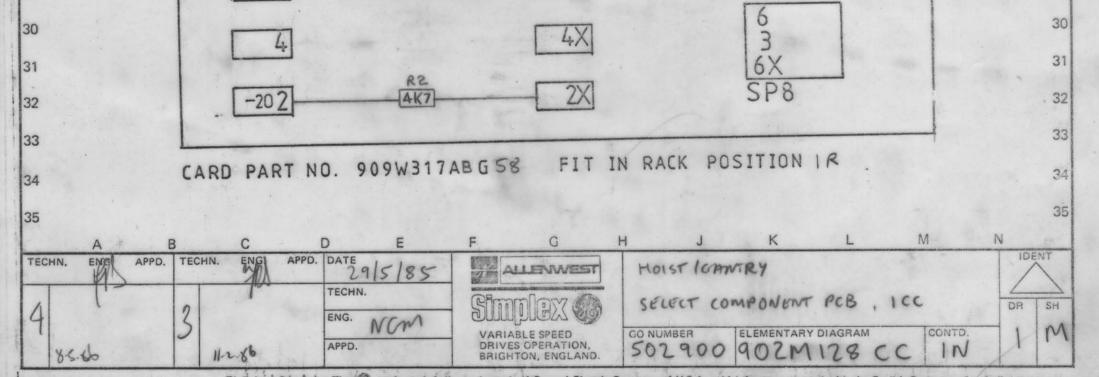
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10	1029-1R05	IPIZ-IRIO				10
11	IROSX-IDI8X	1R10X-1P08				11
12	1028-1011X	1P05-1R17				12
	1011X-1813	1R02-1816×				
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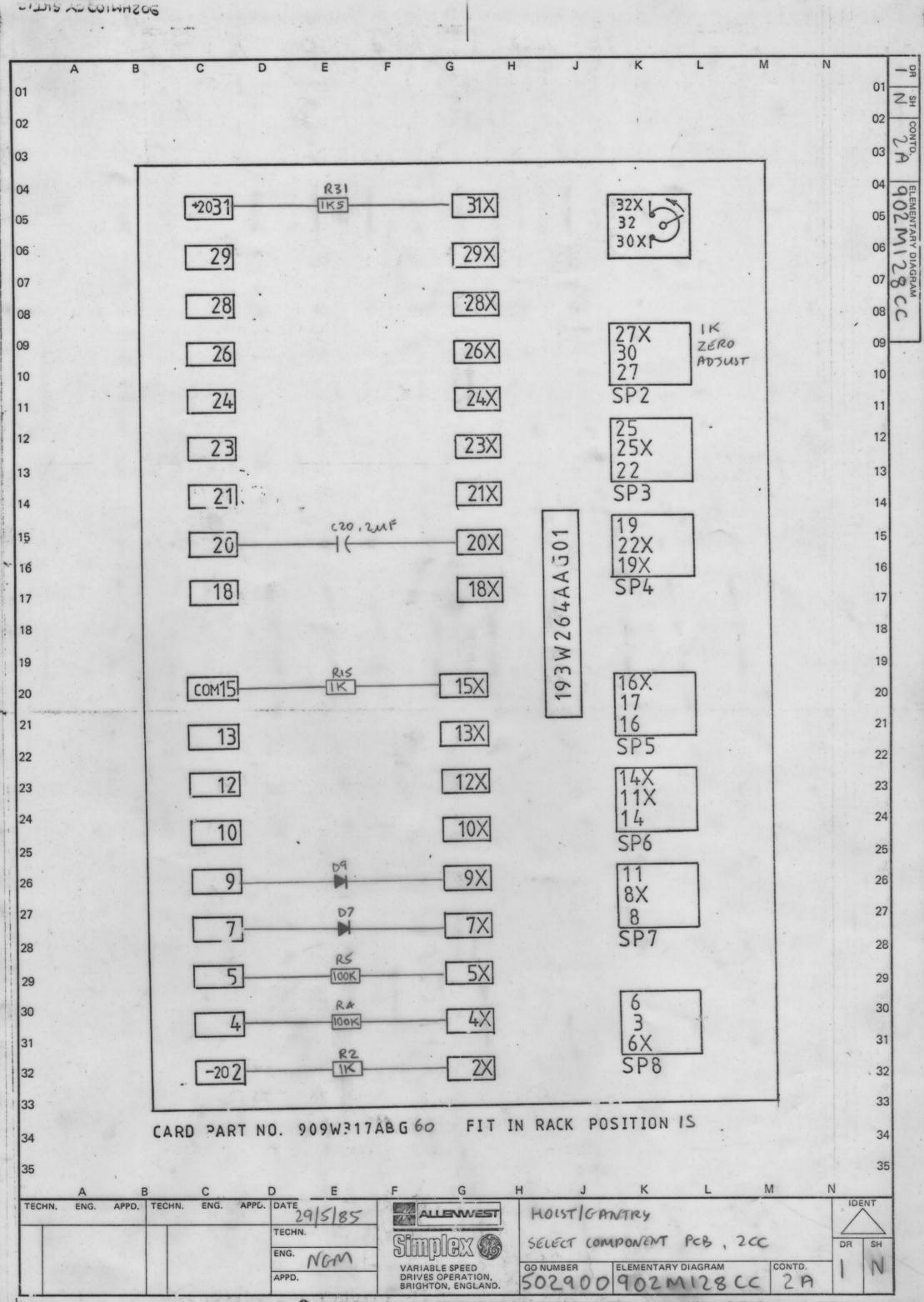


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*BLM	B CURRENT LIMIT SWITCH INPUT	03	0
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*CFB	CURRENT FEEDBACK	01	
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DFP	DELAYED FIRING POWER	05	EN EN
*DMAC	DIAGNOSTIC MAC INPUT		PATA
*DR	DRIVER REFERENCE	06	24
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EST .	EXTERNAL FLT STOP INPUT		AG
FALT	FAULT	07	NA
*FC	FIELD CURRENT		CO MAN
FDR	FIELD DIAGNOSTIC REFERENCE	08	0
FEA	FIELD ECONOMY ADJUST		0
FF	FIELD FAULT	09	1
*FGC	FORWARD FIELD CURRENT FEEDBACK	US	
IABS	MOTOR CURRENT ABSOLUTE		
ILA	CURRENT LIMIT ADJUST	10	
IMET	CURRENT SIGNAL FOR METER	1	
*LR	LOCAL REF. FROM DGC	11	
*LT2	LINEAR TIME INTEGRATOR SUMMING JUNCTION.		
*MAC	MAX/MA CONTROL SIGNAL	12	6
OSC	OSCILLATOR		
*PCR	PHASE CONTROL REF.		
PRE	DRIVE PRECONDITION	13	
ØSEC	PHASE SEQUENCE		
RERR	REGULATOR ERROR	14	
KRGC	REVERSE FIELD CURRENT FEEDBACK		
RIJ	INTEGRATOR SUMMING JUNCTION		
RJ	REGULATOR SUMMING JUNCTION	15	
RRA	REGULATOR RESPONSE ADJUST		
RSET	RESET	16	
*RS1-2	AC SYNCHRONIZING INPUT		
XRTR	READY TO RUN	17	
*RUN	RUN SWITCH INPUT		
SA-C	PHASE SYN OUTPUT	10	
*SFB	SPEED FEEDBACK	18	
SMET	SPEED SIGNAL FOR METER		
#SR	SYSTEM REFERENCE INPUT	19	
*SYS	SYSTEM FAULT TRIP		
TA	OUTPUT FOR TACHO TRIP ADJUST	20	1.
TF	TACHO FAULT TACHOMETER FEEDBACK		1
*TFB	AC TACHO FREQUENCY OUTPUT	21	1
TFR	TIMED REFERENCE	21	
*VFB	VOLTAGE FEEDBACK		
*WFR	WEAK FIELD REFERENCE	22	
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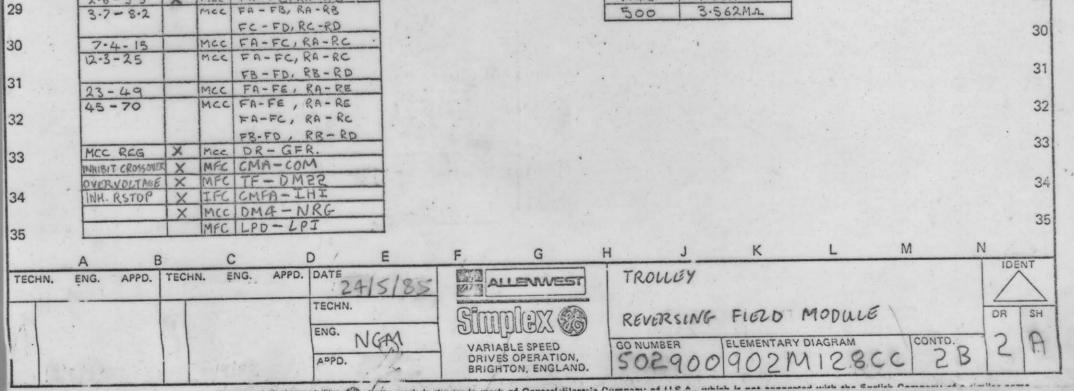
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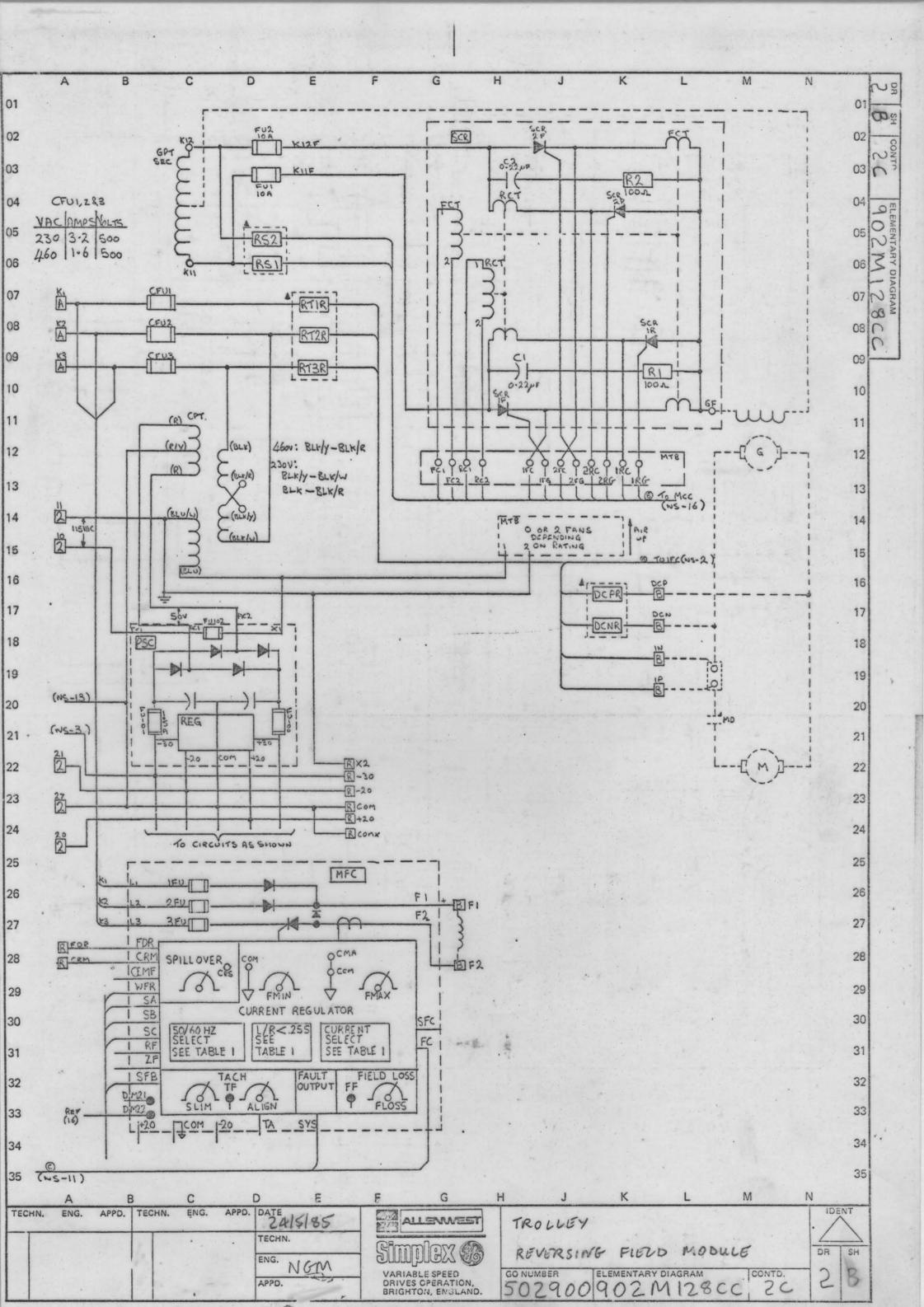
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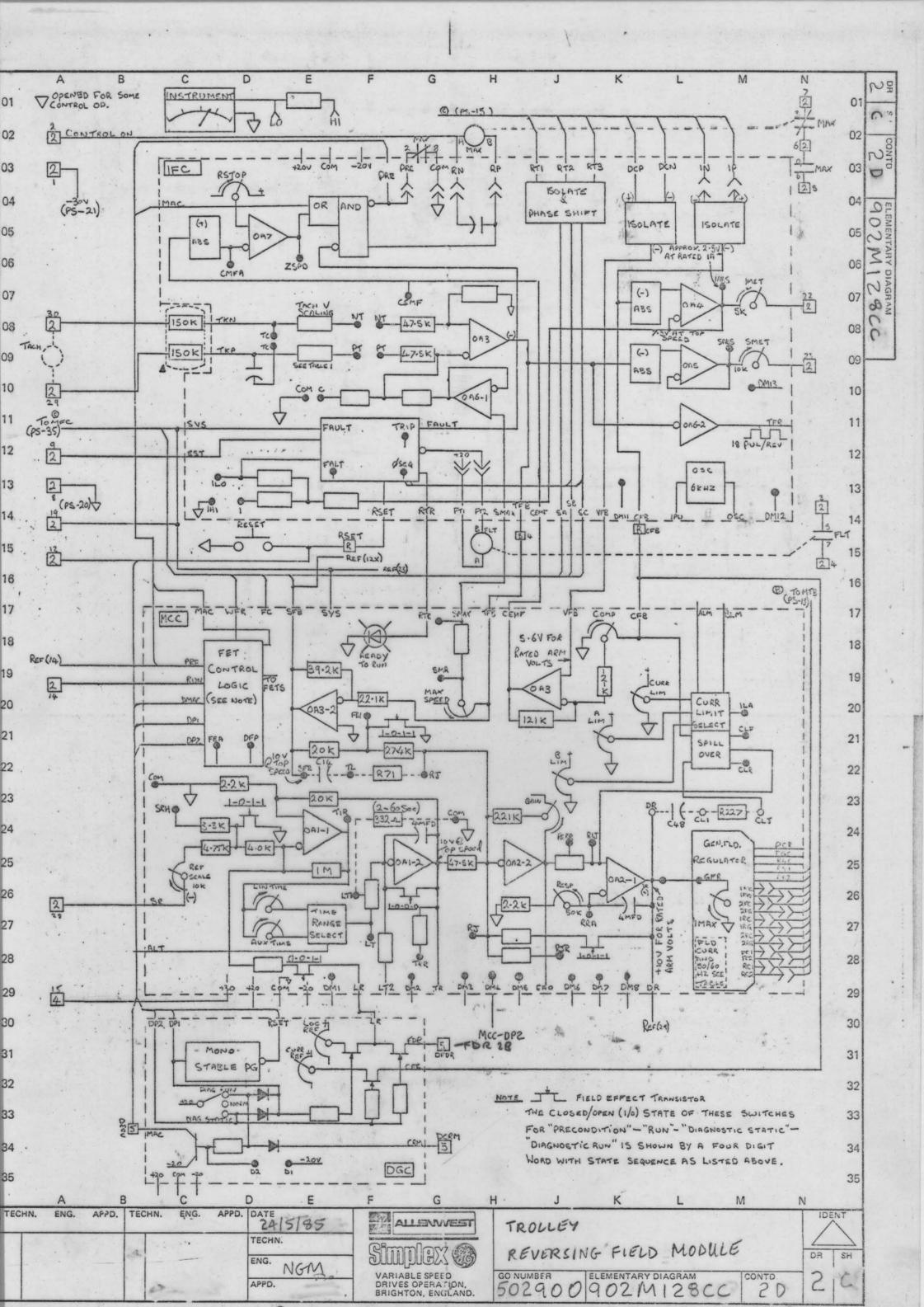
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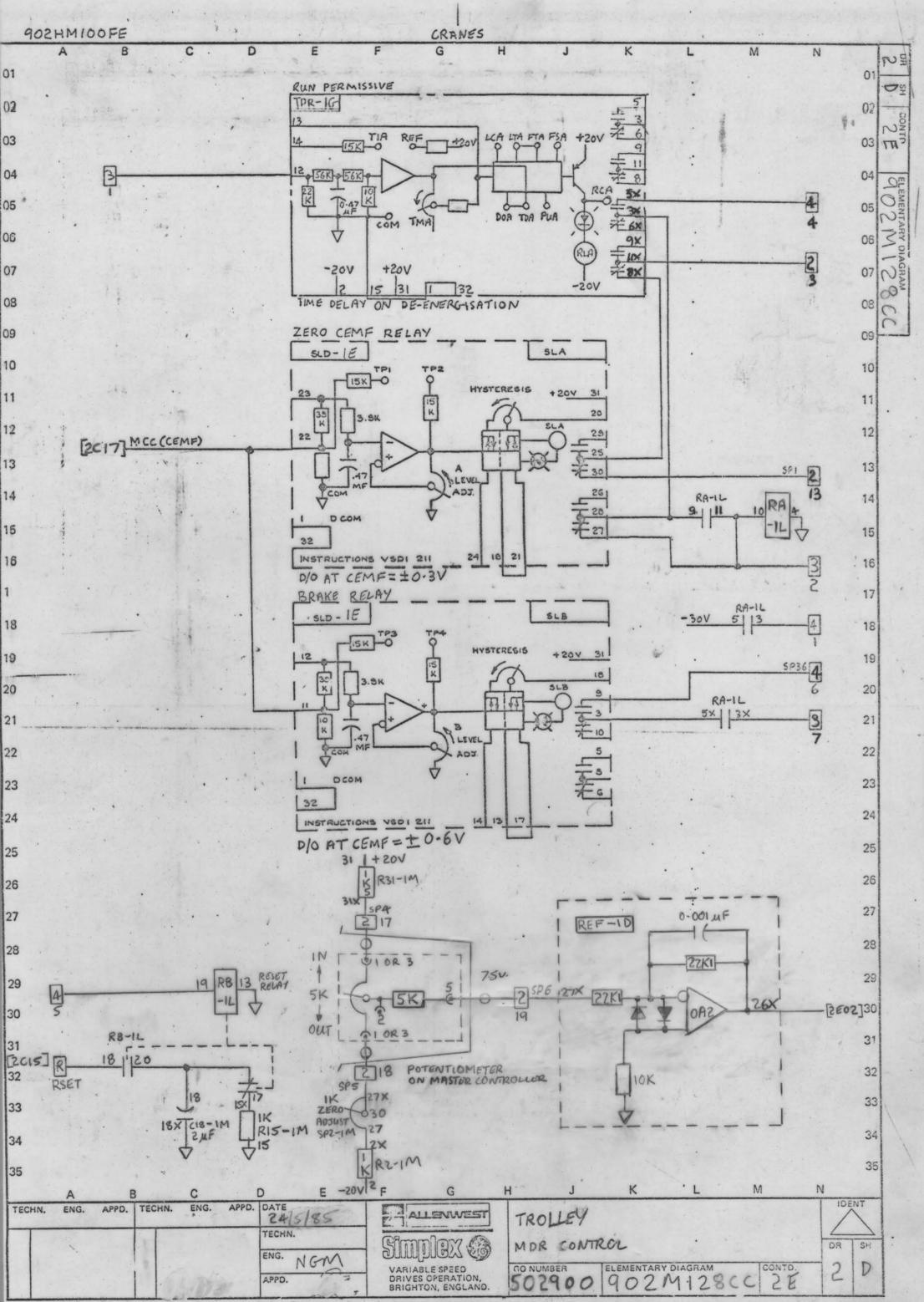
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3PH VAC	RT1,2,3R
380-420	2-64MA
230	1.506MA
460	3.0M2
IPH VAC	RS1/2
340	2-21MA
575	3.71MA
VDC	DCPR, DCNR
240	1.681MA

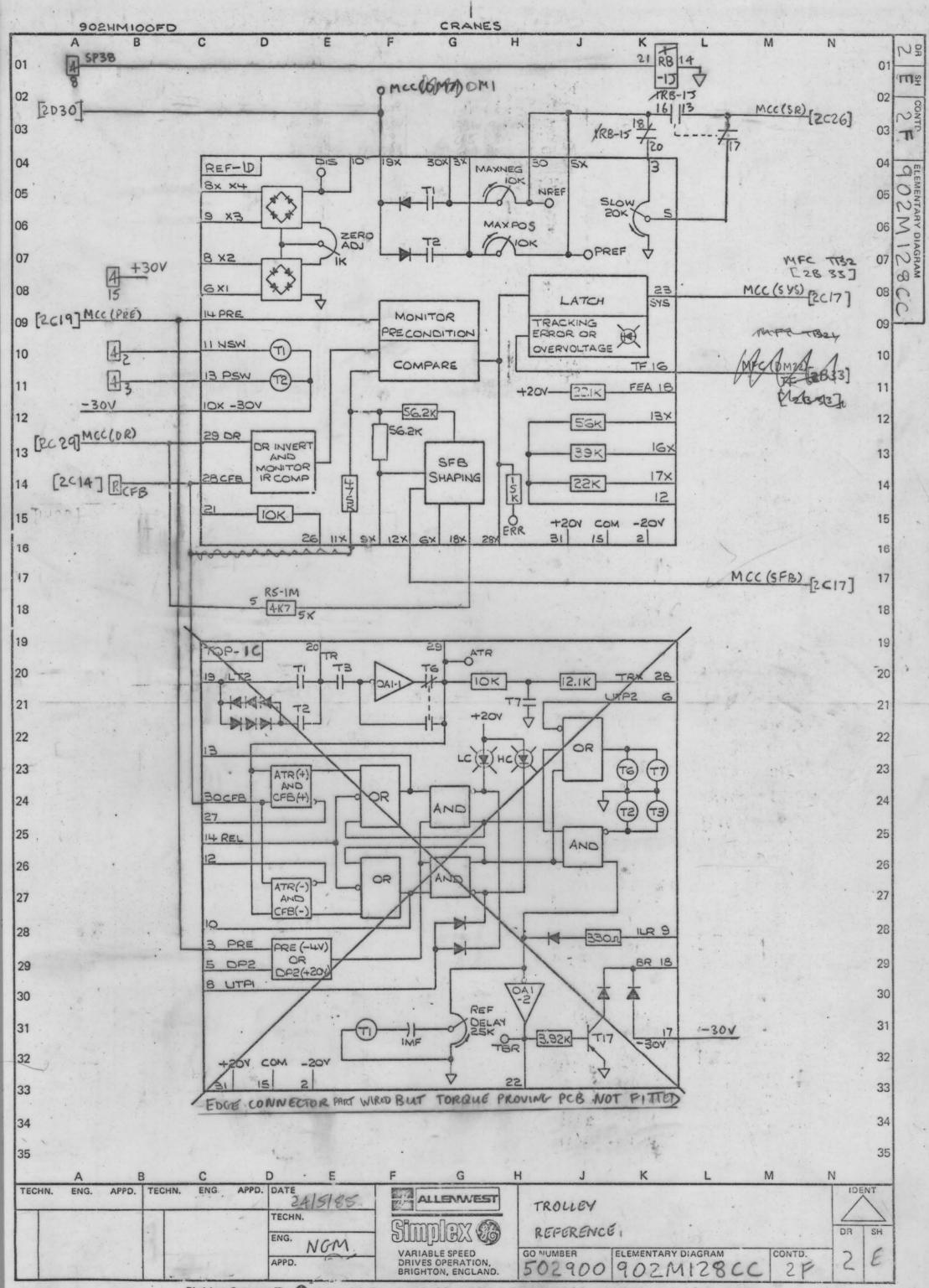








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A FRIP	CEPTACLE CEPTACLE CEPTACLE RACK CL SITION. 2 - 64 1 - 63 0 - 62 9 - 61 8 - 60 7 - 59 6 - 58 5 - 57 4 - 56	AFTE OF AS	64 P SEEN 32 31 30 29 28 27 26 25 24 23 22	- 32x - 32x - 31x - 30x - 29x - 29x - 29x - 29x - 29x - 25x - 25x - 24x - 23x - 22x	UNTIL	RTB RTB RTB	(com) (+20) (-20) (-30)	REMOVE RMALLY HAVE C SYMBO ) - 1 ) - 1 ) - 1 ) - 1 ) - 1	DIS: TEST F DIS D31 D02 D28 05	POST CI 3T 3T 3T 3T	CARD BEING NOT RE ARD RAG B2 - B3 - 34 - 35 - B6 -	IN OPEH MOVE OR	POT	ADJUS ADJUS TABL PAA PAS TB3 MCCTF	E SHOU DS WITH TMENT E 	LD BE 1 H POWE (+30)		L20 MIS L17 M27	$\frac{-1}{\sqrt{-1}}$	ULIGHT MIS MIS MIS MIS MISX MISX MISX MISX	
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A F R II P P	CARDS         CEPTACLE         CEPTACLE         RACK CL         SITION.         2 - 64         1 - 63         0 - 62         9 - 61         8 - 60         7 - 59         6 - 58         5 - 57         4 - 56         3 - 55         2 - 54         1 - 53	AFTE OF AS	64 P SEEN 32 31 30 29 28 27 26 25 24 23 22 21 20 19	- 32x - 32x - 31x - 30x - 29x - 29x - 29x - 29x - 29x - 25x - 25x - 25x - 24x - 23x - 22x - 21x	UNTIL	RTB RTB RTB RTB RTB RTB RTB ( RTB) RTB ( RTB)	(COM) (+20) (-20) (CPB) (SFB) (SFB)	REMOVE       RMALLY       IAVE C       SYMBO       ) - 1       ) - 1       ) - 1       ) - 1       ) - 1       ) - 1       ) - 1       - 13	DIS: TEST F DIS DIS DIS DIS DIS DIS DIS DIS DIS DIS	POST CI 3T 3T 3T 3T	CARD BEING NOT RE ARD RAG B2 - B3 - 34 - 35 - B6 - 37 - 38 -	IN OPEH MOVE OR OCK WIRE	POT JUMPER	ADJUS ADJUS TABL PAA PAS TB3 NCCTF TB(DI TB(RS	E SHOU S WITH STMENT E - MC - 1G B) FOR)-1 ET)-1 TTOR -1 TTOR	C(+30) (+30) (X C(+30) (X C(+30) (X C(+30) (X C(+30) (X C(+30) (X C(+30)) (X)		LIED. LIED. LIED. LIED. LICA M18 LIT M27 M27 M27 M27 M27	TING $\frac{-1}{2}$	ULIGHT MIS MIS MIS MIS MISX MISX MISX MISX	]
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33 NOTE: RECEPTACLE PINS MAY BE NUMBERED AS SHOWN	SP7 -	SP41 -	BUS PINS 02 1D-1G	and the second s	33
34 IN EITHER SKETCH. (PIN 33 CORRESPONDS TO PIN	SP8 -	SP42 -	BUS PINS IS 10-13	1.800	
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