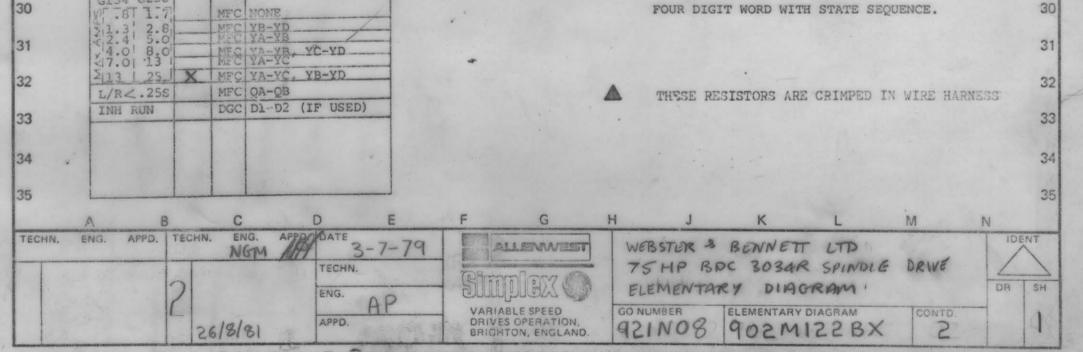
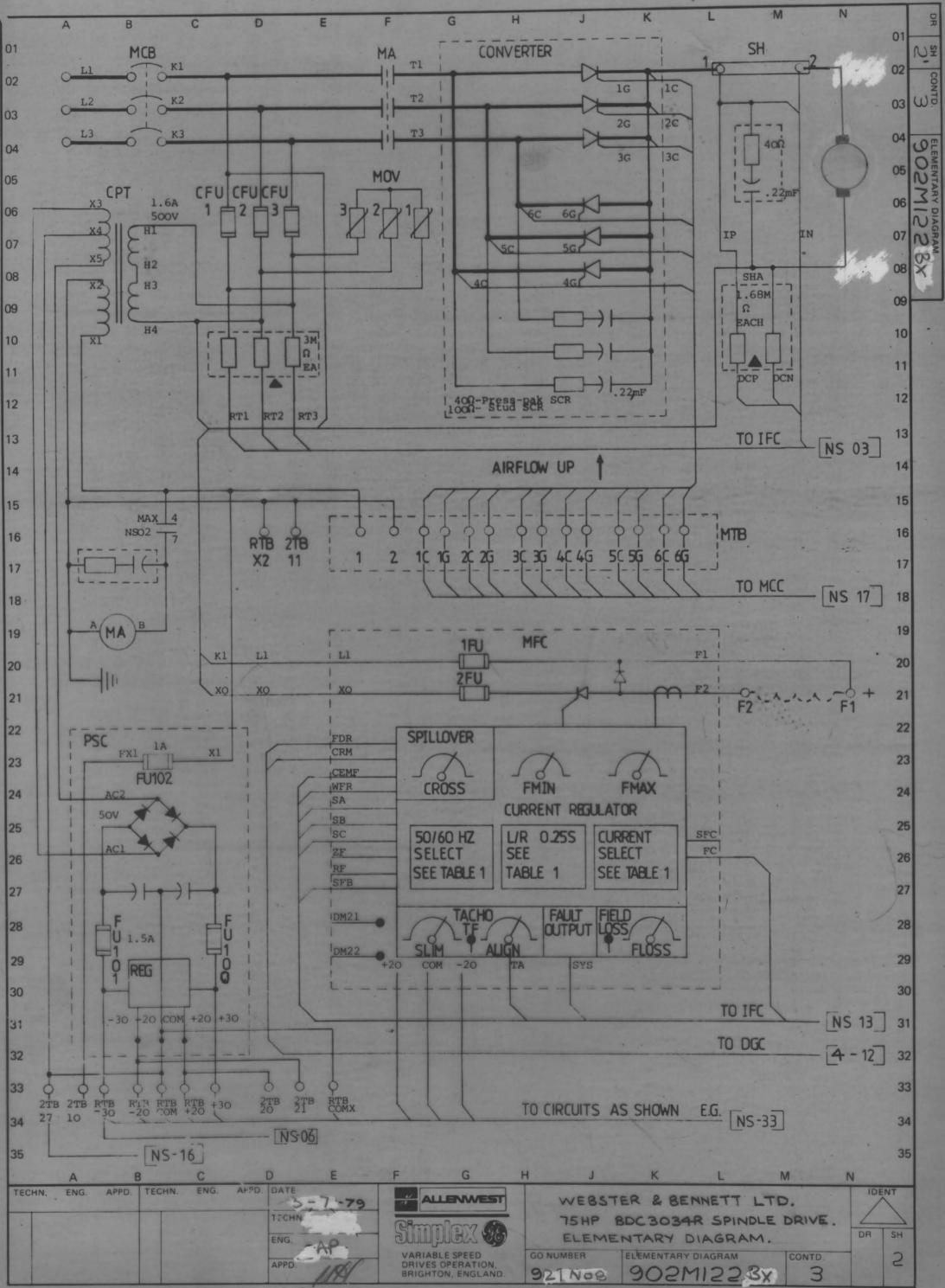
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				ASSEMBLY)	CRM	CROSSOVER MODIFY (11)	nel
				CARD	•	DFP	DELAYED FIRING POWER (25)	05
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	PIL/R P	TODIE.	ICATI	ON RACK		EST	EXTERNAL FLT STOP INPUT (14)	
			-			FALT FC	FAULT (14) FIELD CURRENT (NS26)	07
	SYMBOLS		AMPL	IFIERS		FDR	FIELD DIAGNOSTIC REFERENCE (08)	
1	LE .	22		- T >vo	· · · · · · · · · · · · · · · · · · ·	FEA	FIELD ECONOMY ADJUST (25)	08
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		SE GI	ROUND			JOG	JOG SWITCH INPUT (23)	
	VIL , VO VO) = SI	IGN () X ABSOLUTE VALUE	OF VI	JOGR	JOG REFERENCE INPUT (31)	12
	Lange and					MAC	MAX/MA CONTROL SIGNAL (20)	12
		TAB O	N TER	MINAL		MSW OSC	MODE SWITCH (30) * OSCILLATOR (17)	
		ERMIN	AL AT	2TB, 3TB, 4TB, RT	R	PCR	PHASE CONTROL REF. (26)	13
				2TB9; X2 [R] - RTBX		PRE	DRIVE PRECONDITION (21)	
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	O TI	SIGNITIN	AP AL	T.B. S		RERR	REGULATOR ERROR (27)	
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				DIAGRAMS INDICATE		RJ RRA	REGULATOR SUMMING JUNCTION (31) REGULATOR RESPONSE ADJUST (30)	
				TION AS THE POTENT		RSET	RESET (16)	16
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	supervised on the statement of the	JNCTH			1	RUN	RUN SWITCH INPUT (21)	17
	FUNCTION	USE	LOC	JUNPERS		SA-C	PHASE SYN OUTPUT (16)	
	GOHE	1	MCC	AA-AS, BA-BS, CA-GS		SFB SMET	SPEED FEEDBACK (20) SPEED SIGNAL FOR METER (12)	18
	A OUNTER	1	MEC	ZA-ZB (IF USED)		* SR	SYSTEM REFERENCE INPUT (29)	
	1.400		IFC	0.00474F RT1-RT2		* SYS	SYSTEM FAULT TRIP (13)	19
	SOHZ	X		0.00474F RT2-RT3	- CAPACITORS TO BE	* TA	OUTPUT FOR TACHO TRIP ADJUST (20)	
	Julia .	A	IFC	0.00474F RT3-RT1		TF	TACHO FAULT (NS28)	20
		1	and the second second	AA-AF, BA-BF, CA-CF		TFB	TACHOMETER FEEDBACK (20)	
	IOC-400% -500%	X		NONE		TFR TR	AC TACHO FREQUENCY OUTPUT (13) TIMED REFERENCE (33)	21
	-300%			I-IHI I-ILO		* VFB	VOLTAGE FEEDBACK (19)	-
	SR5 - 9v	X	and the letter	(NONE)		WFR	WEAK FIELD REFERENCE (20)	22
	9 - 20v	1 million	MCC	SRH-COM				-
	JOGR LOV			(NONE)		(* - TEST	POINT ON DOOR FRONT)	23
1	200	×	MCC	JH - COM				-
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	TACHO FIL	7		TC-TC			TS - THIS SHEET	26
	TACHO V.	1	1		HENCE PS - 12	DENOTES LOCA	TION ON PAST SHEET LINE 12. OTHER LOCATIONS	ARE
	24-64vdc	-		NT-NTL.PT-PT1	DENOTED BY SHE	ET NUMBER AN	ND LINE, E.G. [1A16] SIGNIFIES LOCATION ON SHE	ET 27
	27-71vac	+		NT-NT1, PT-PT1	1A, LINE 16 ET	the second se		
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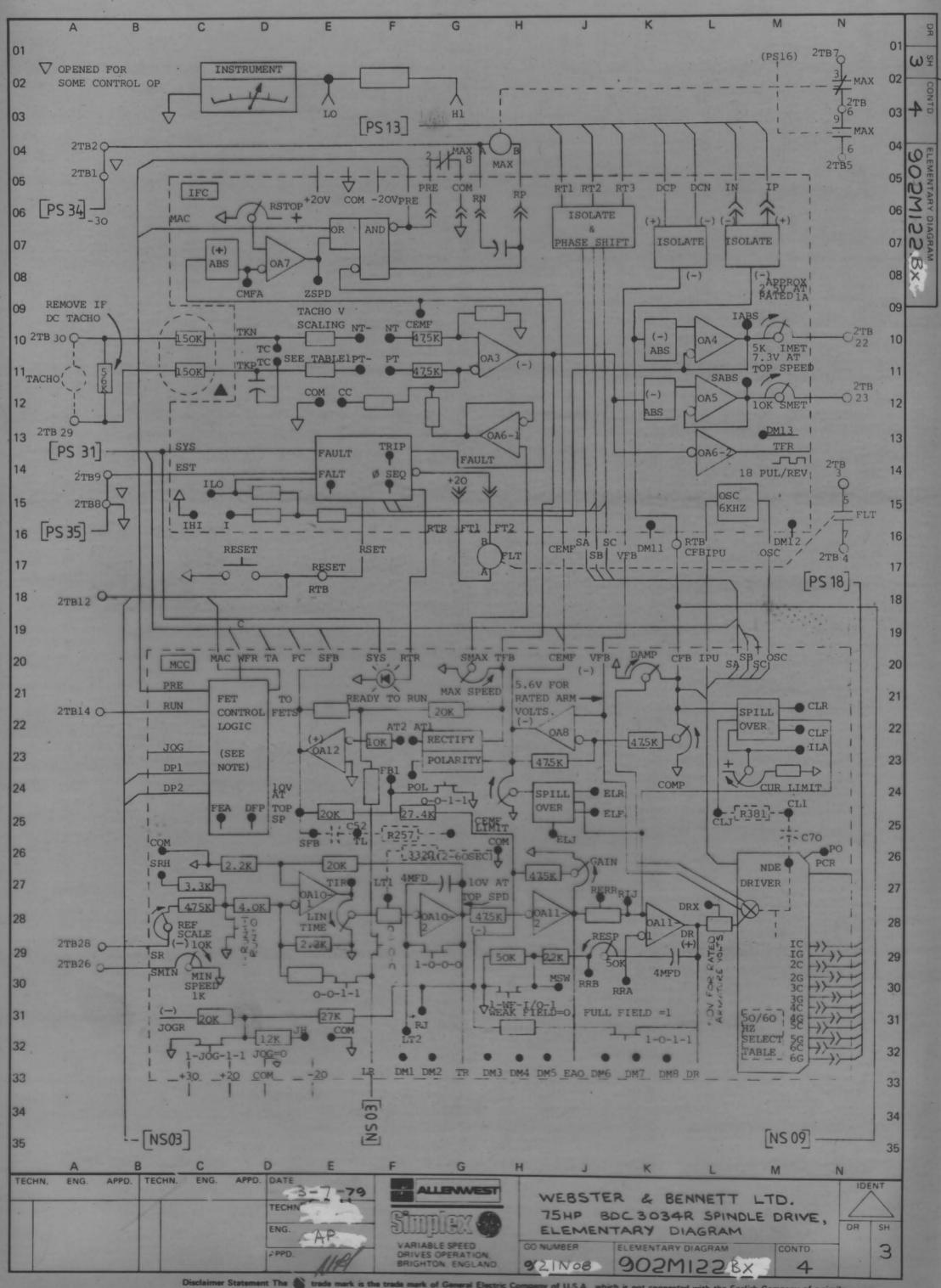


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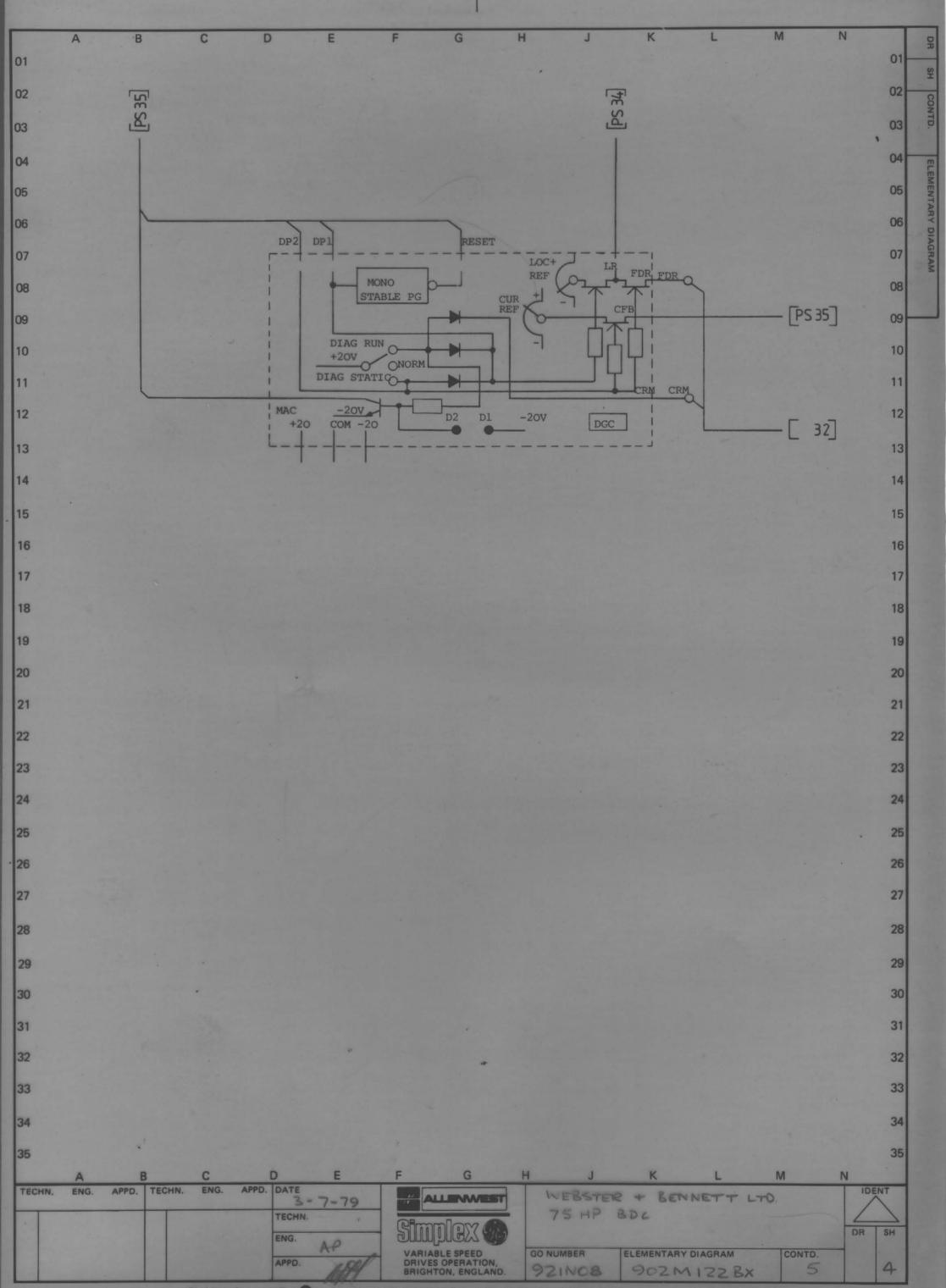


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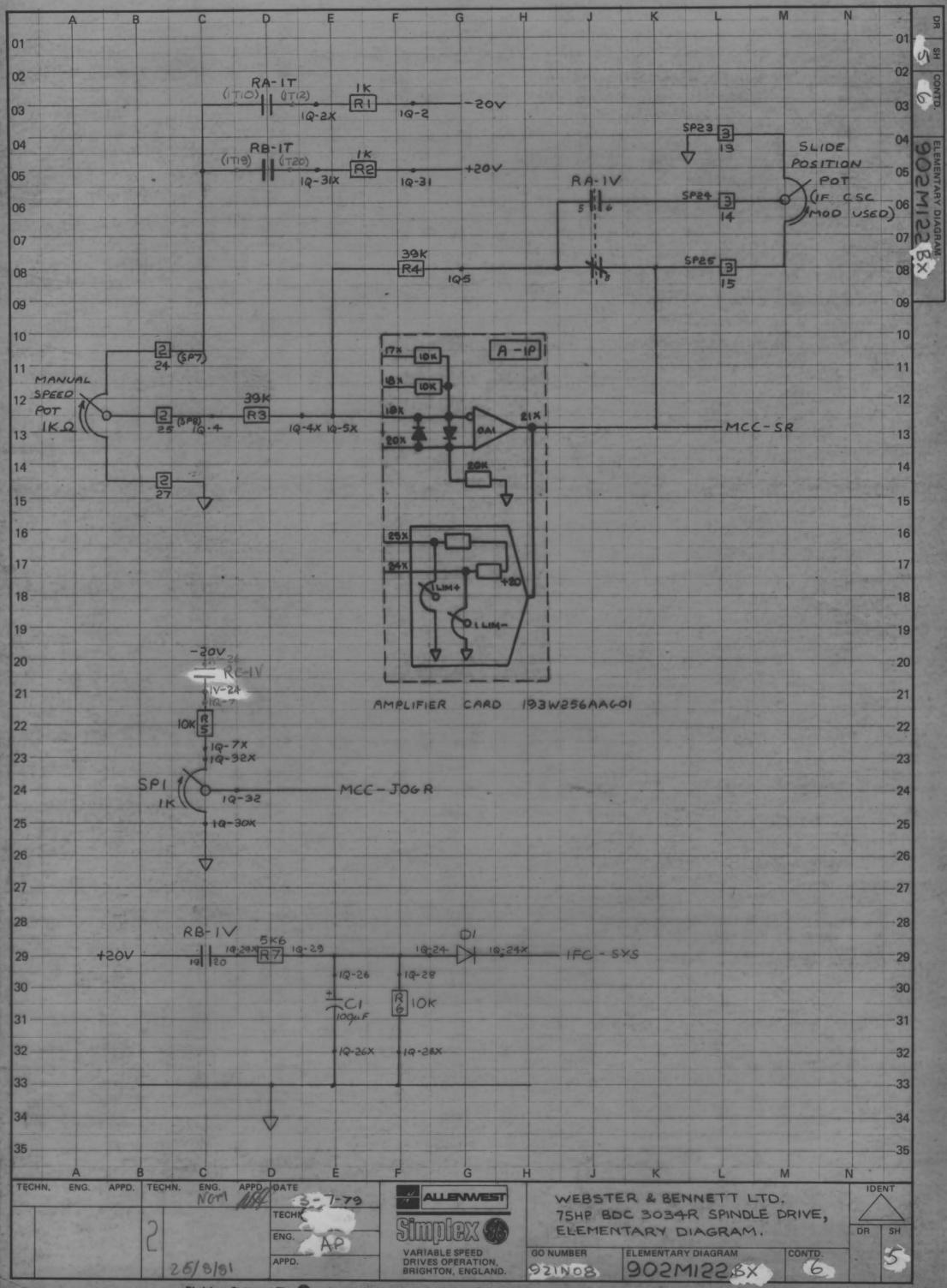
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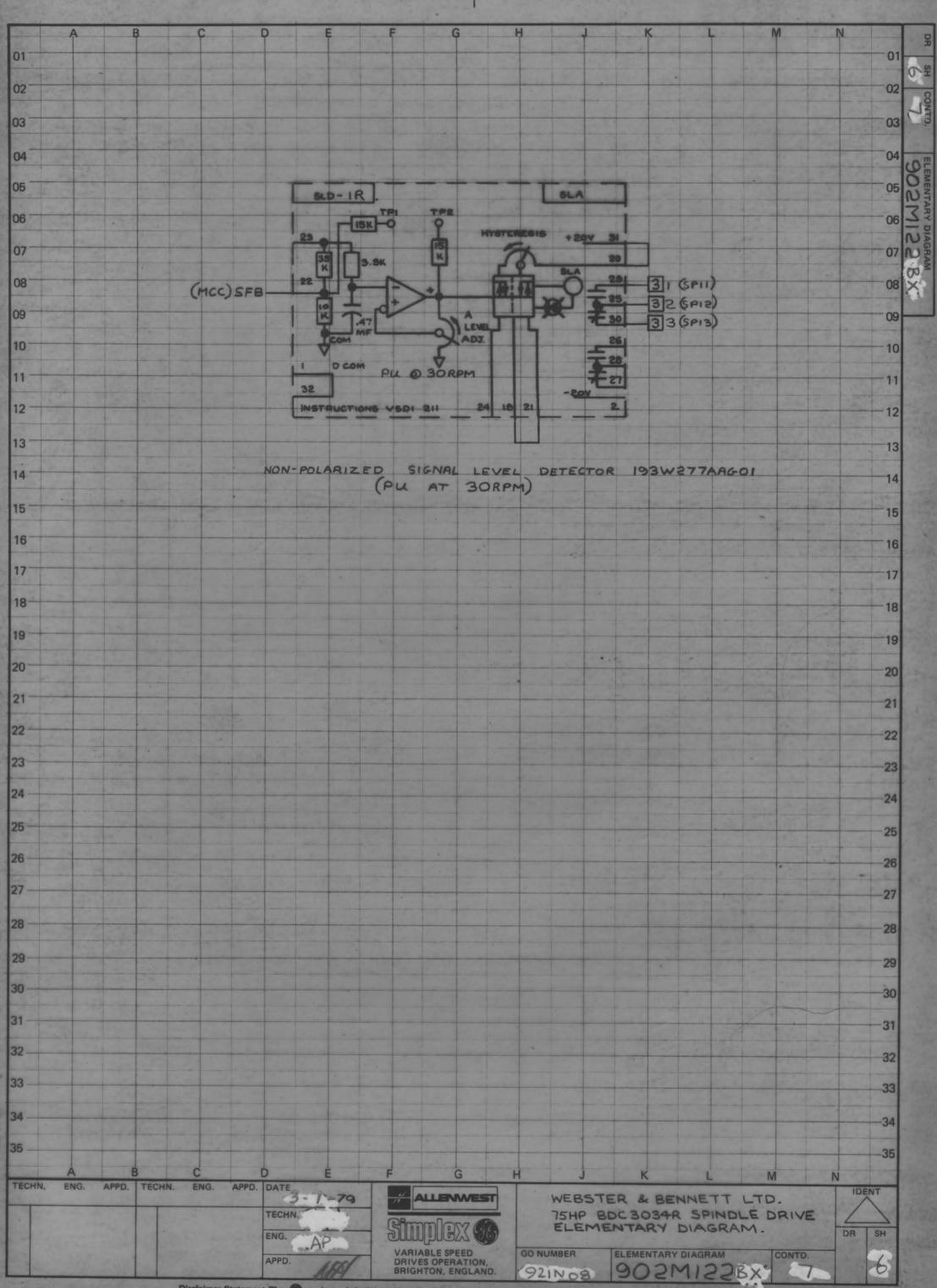
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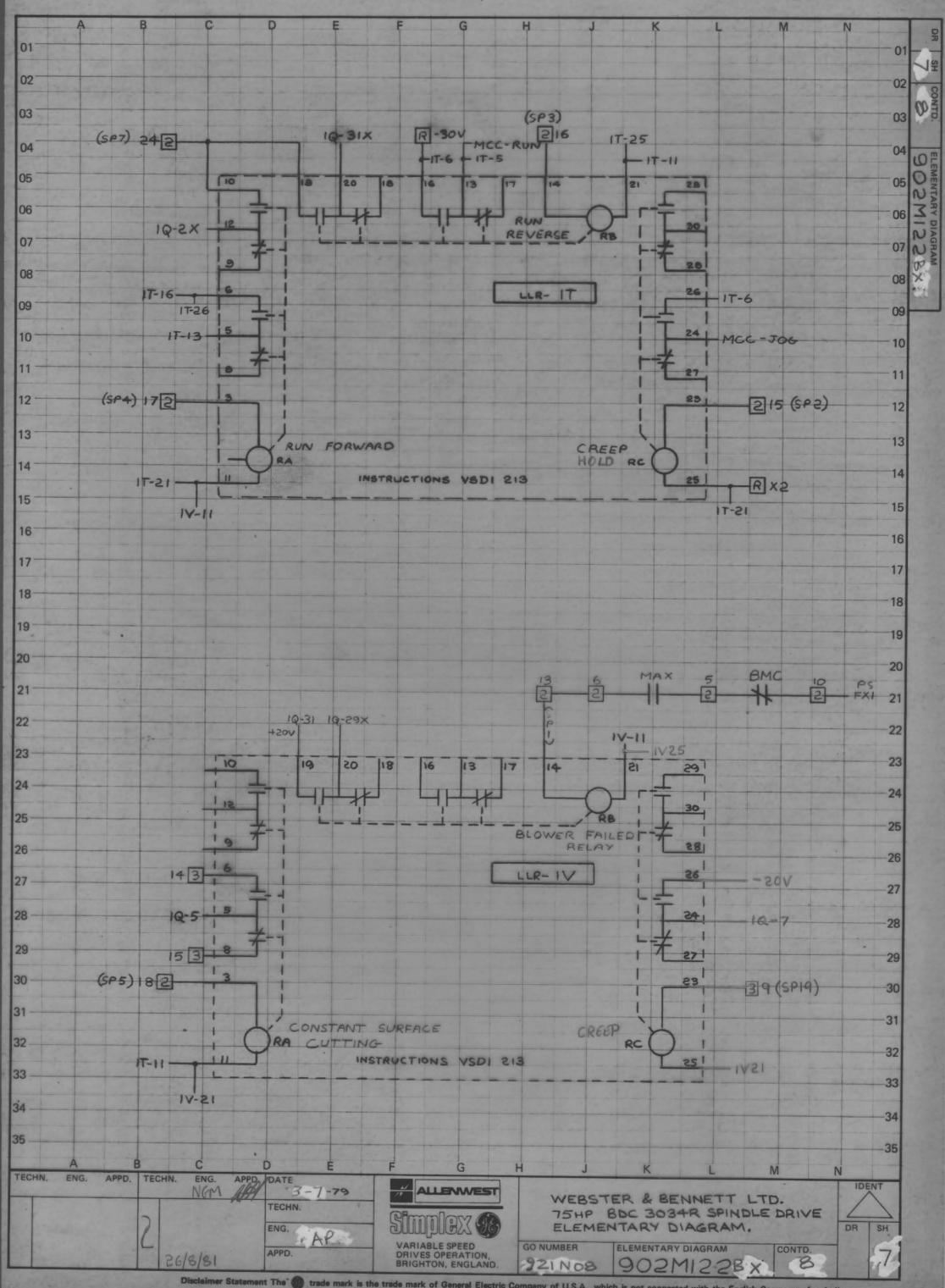
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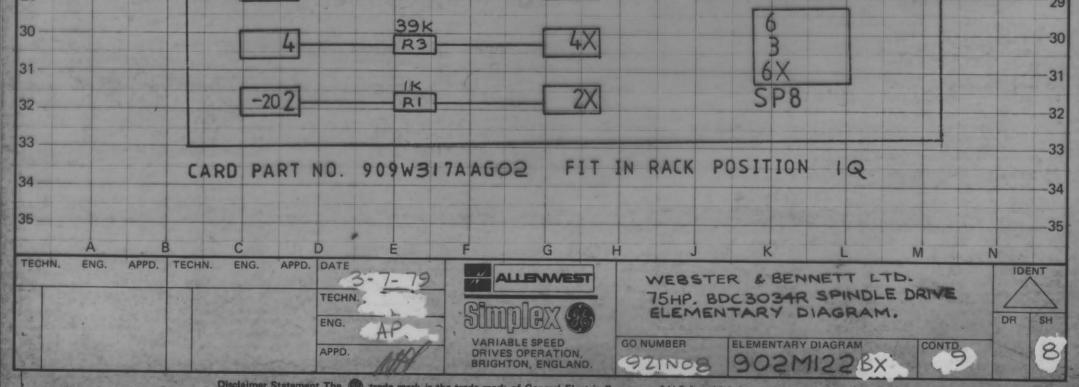


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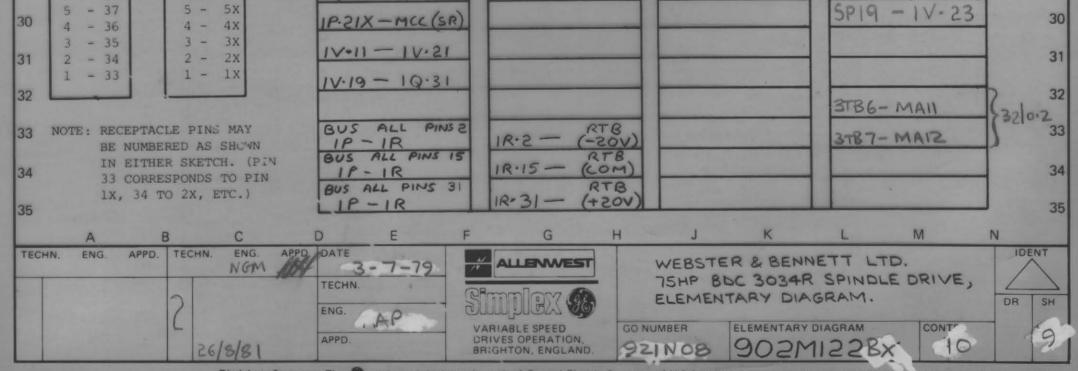
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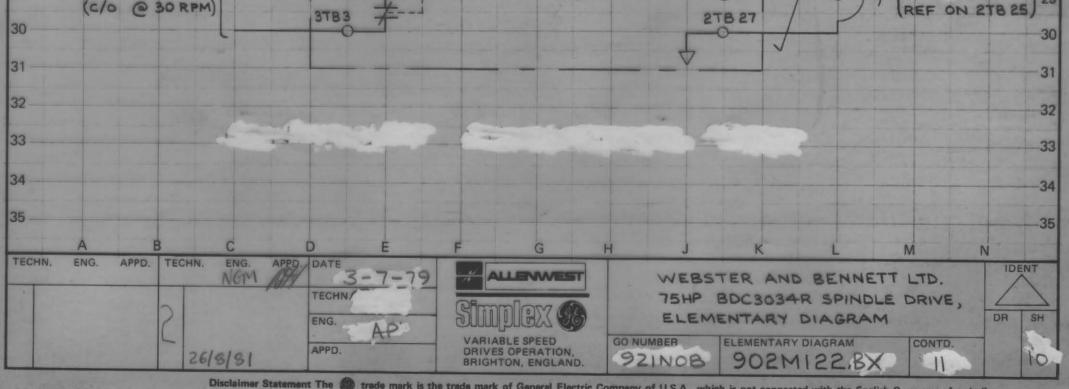
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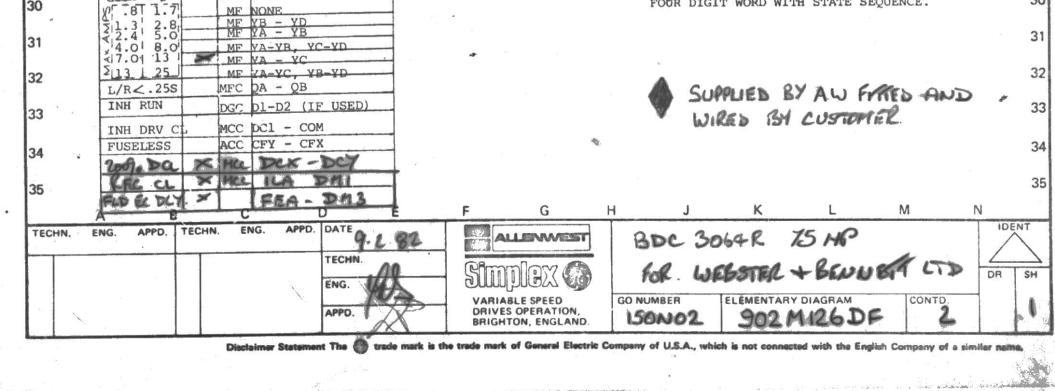


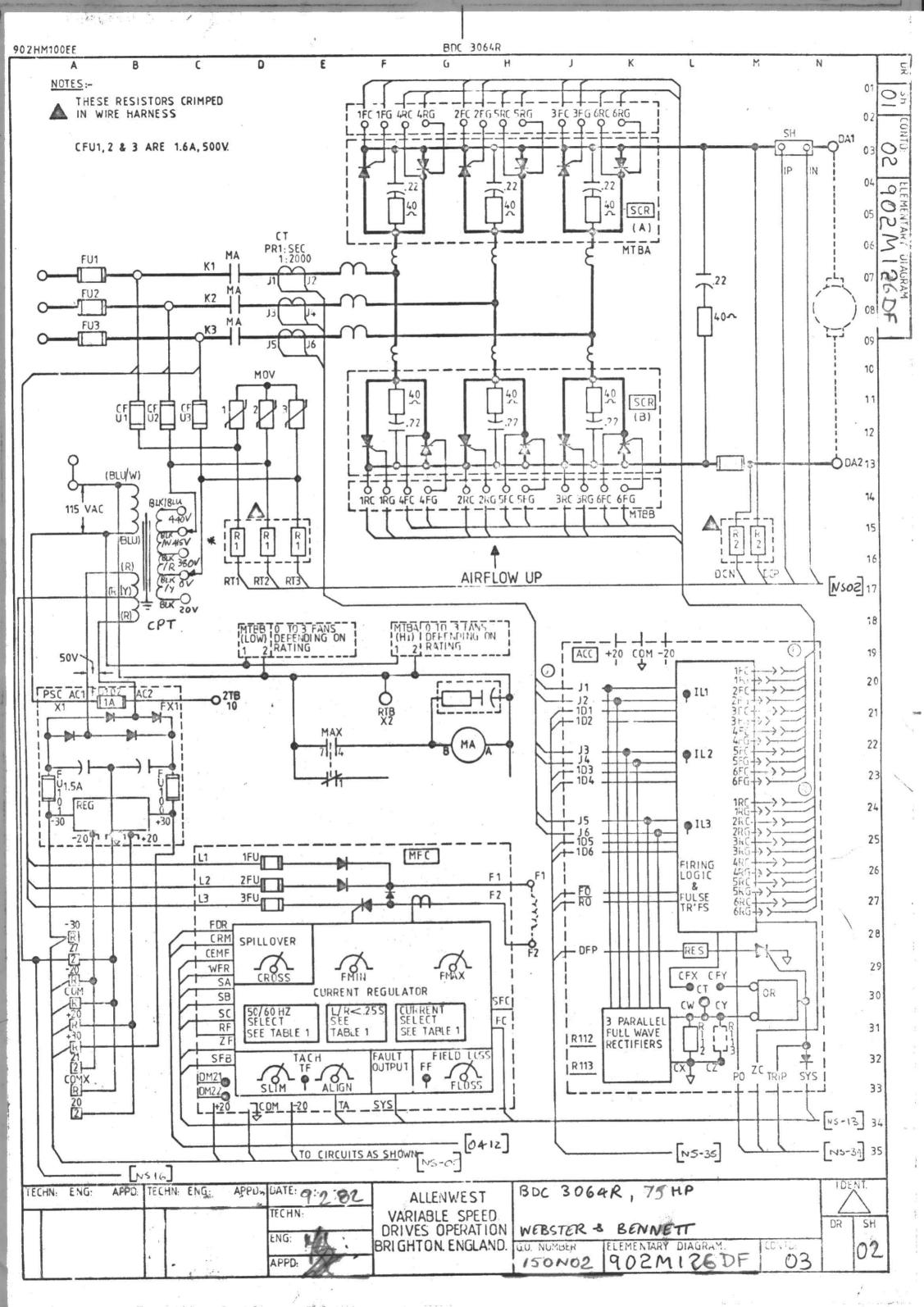
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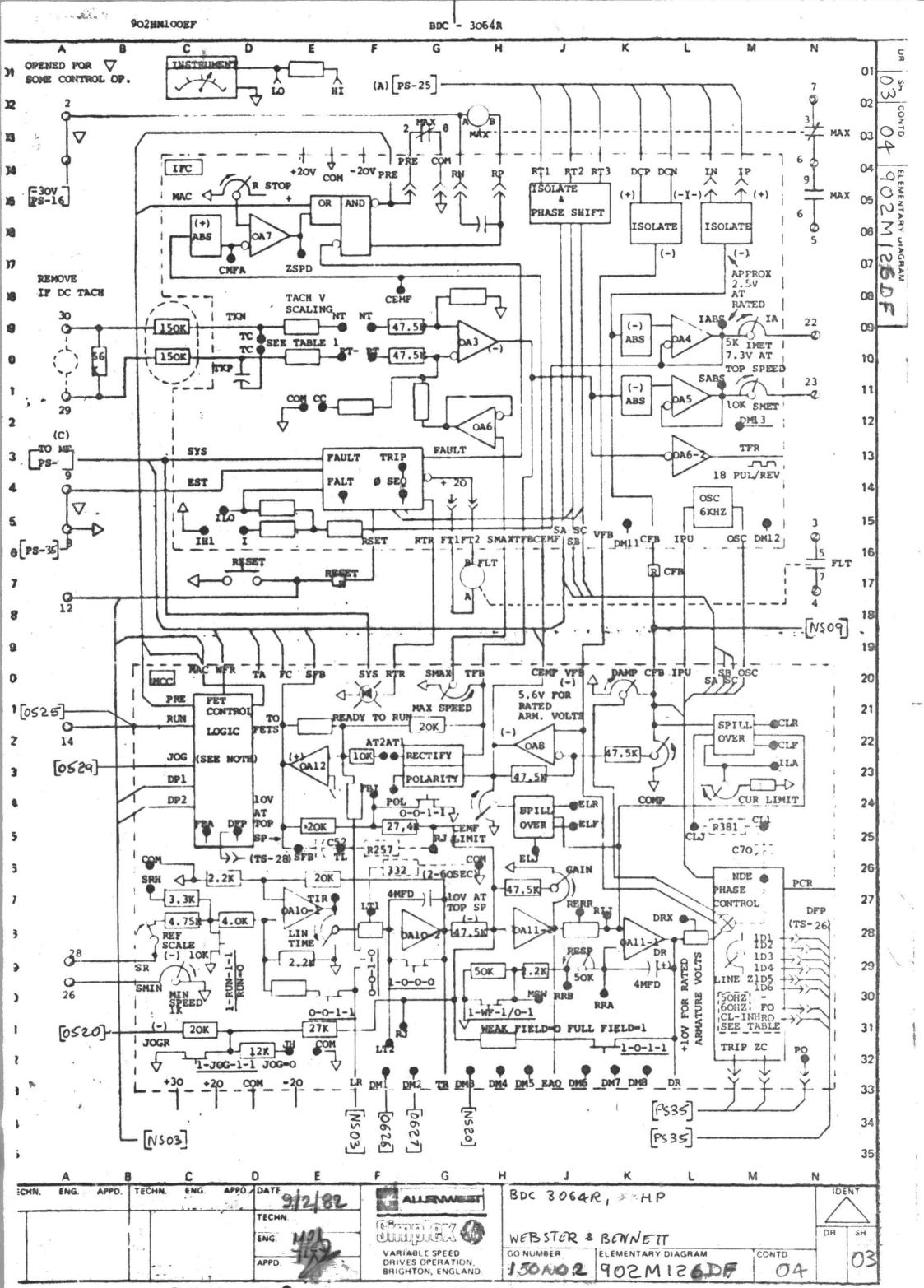
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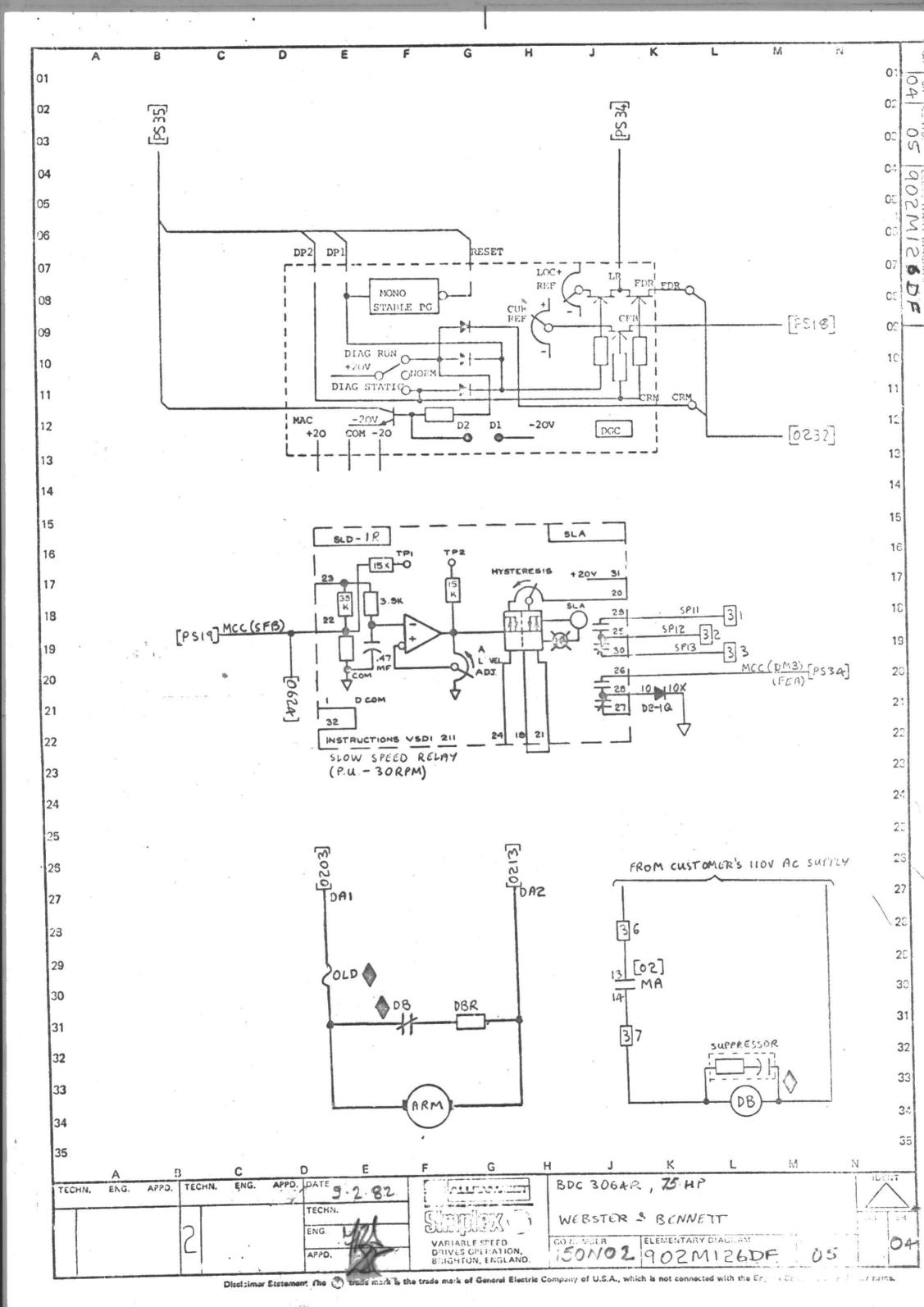
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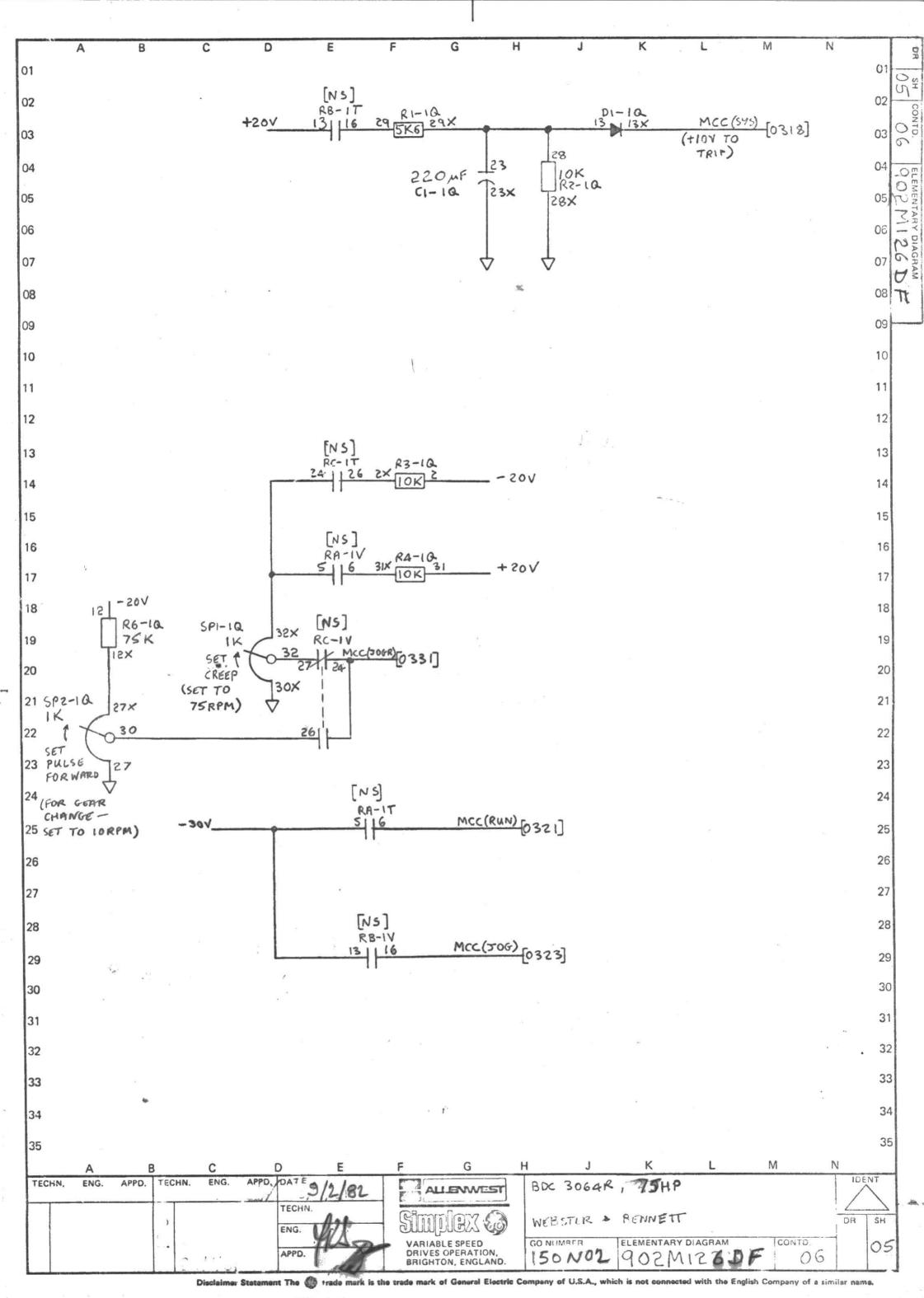




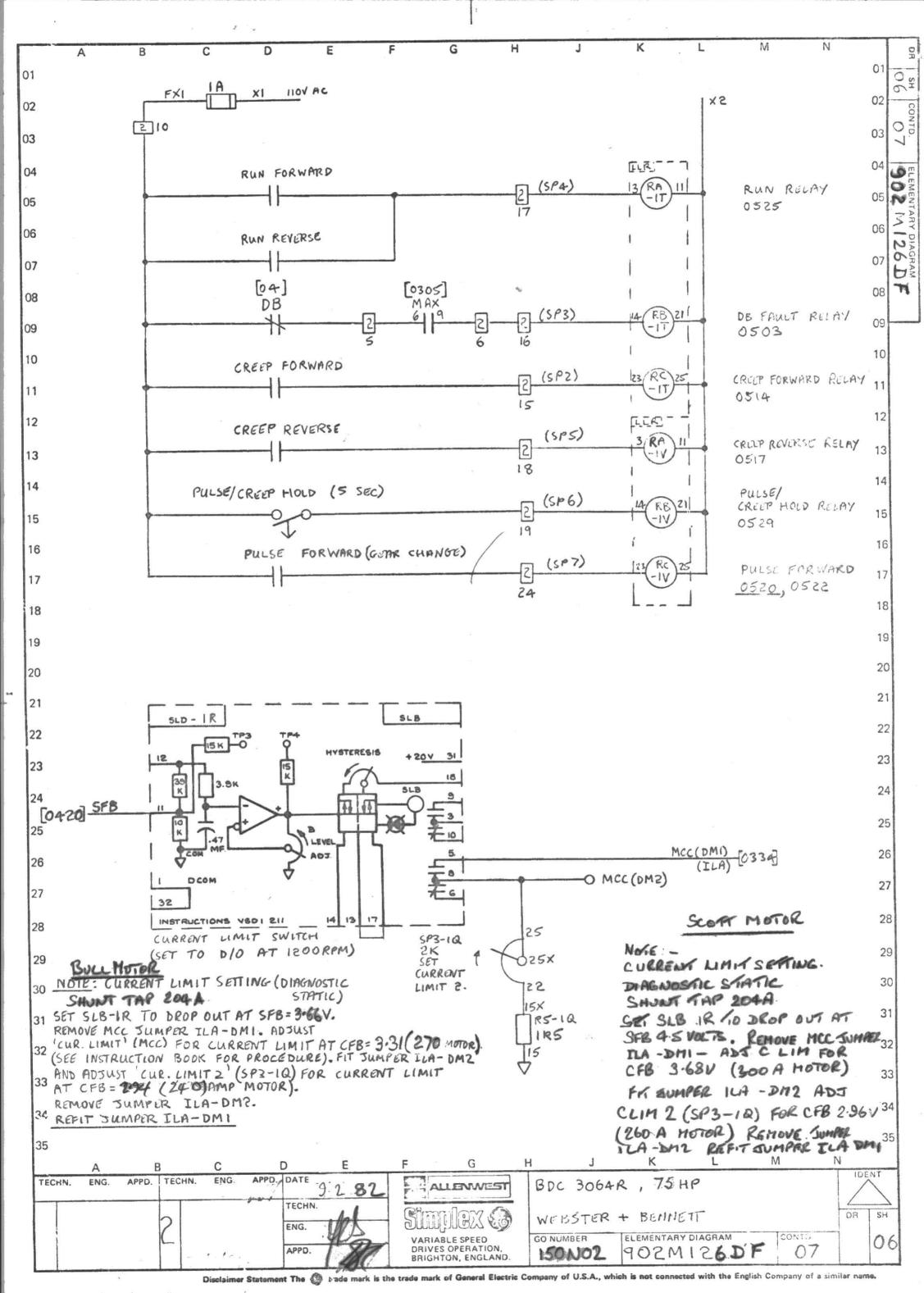


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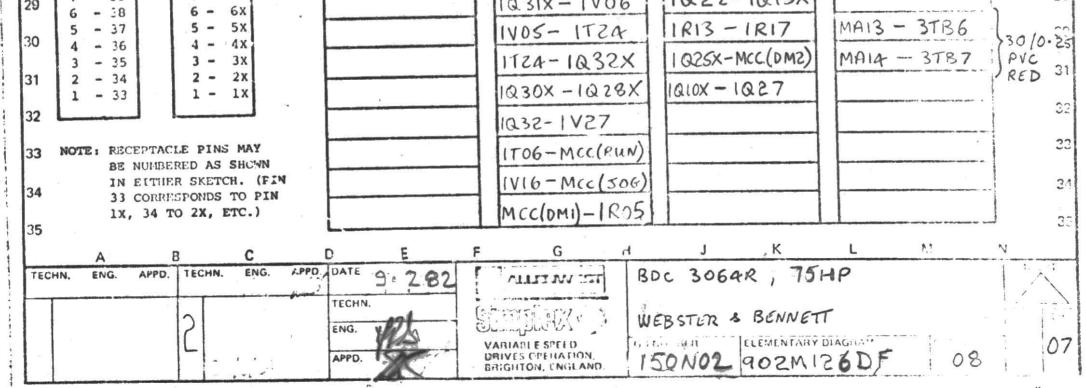


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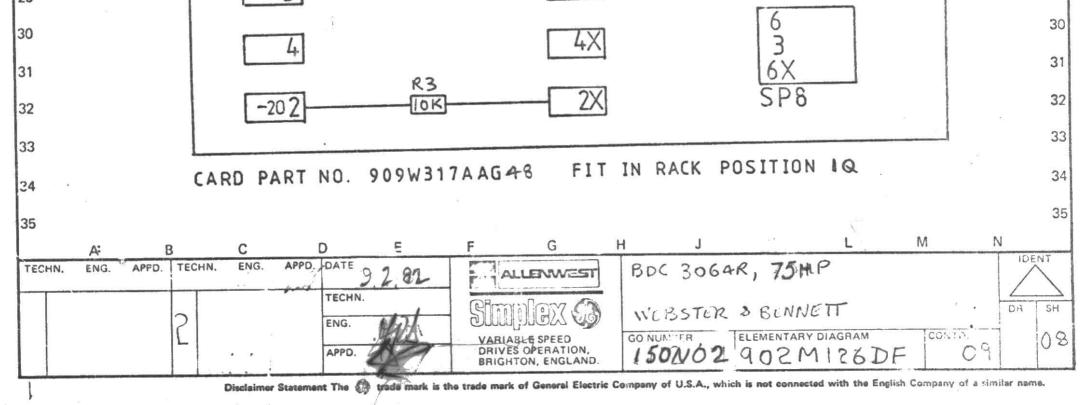


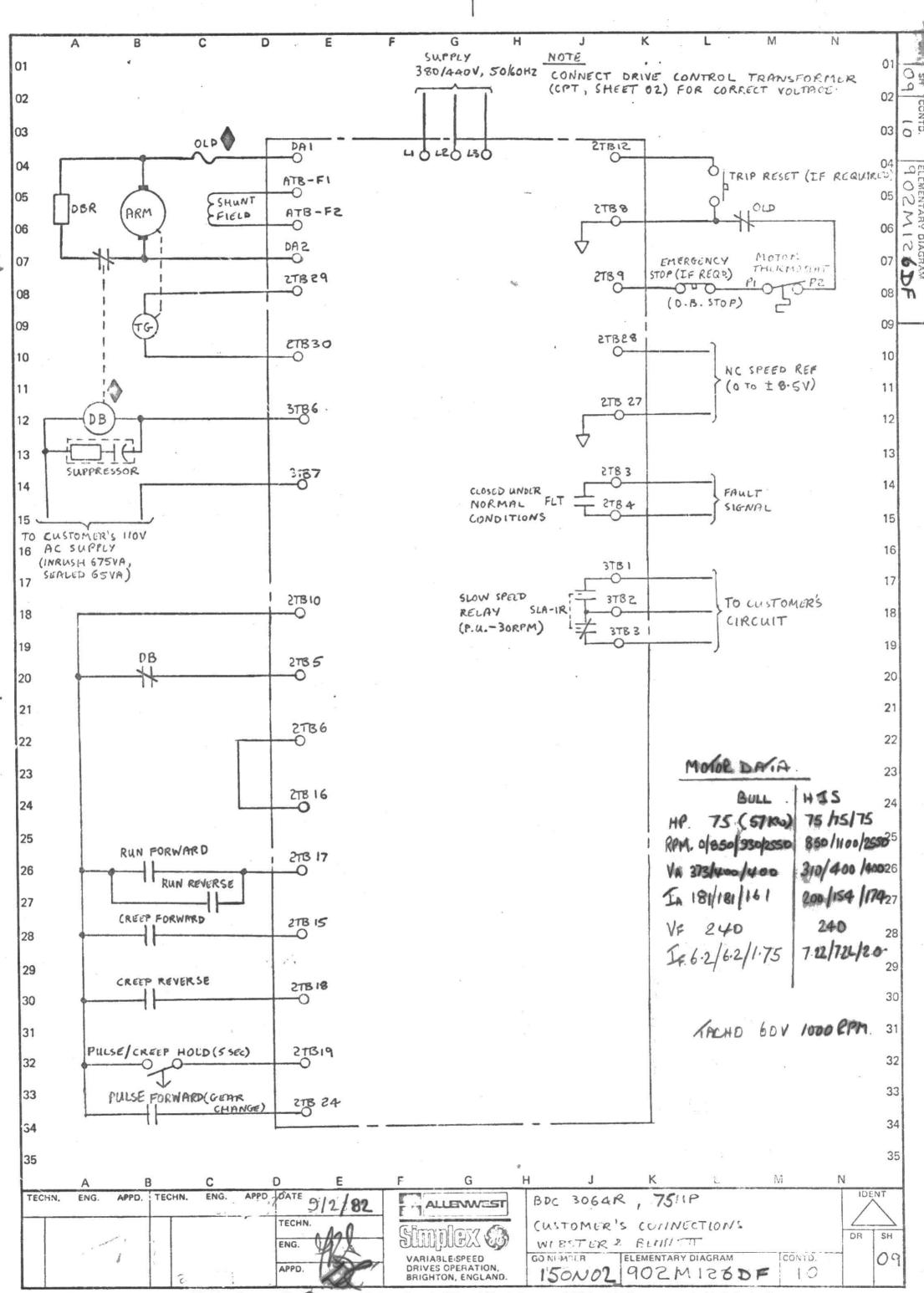
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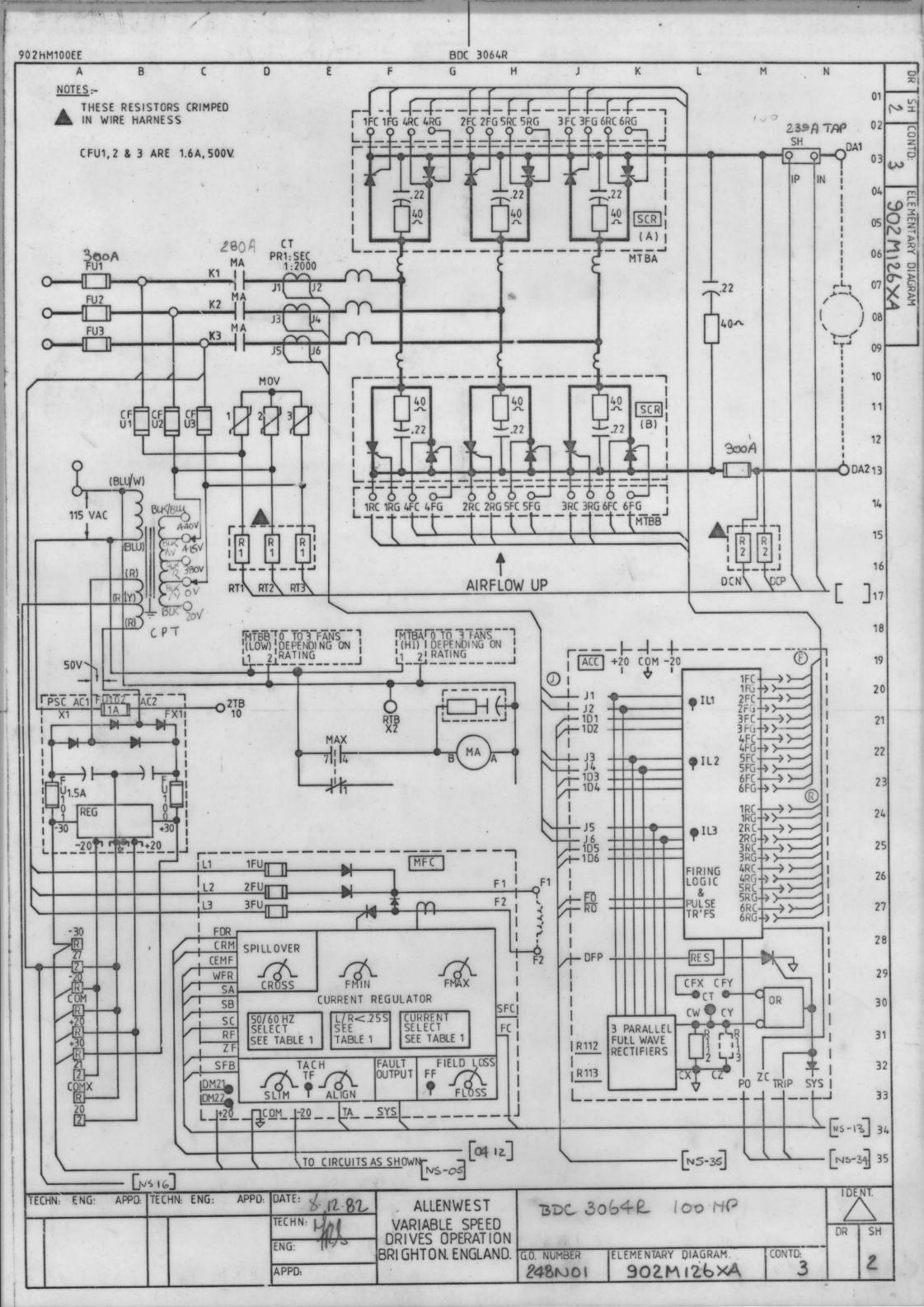


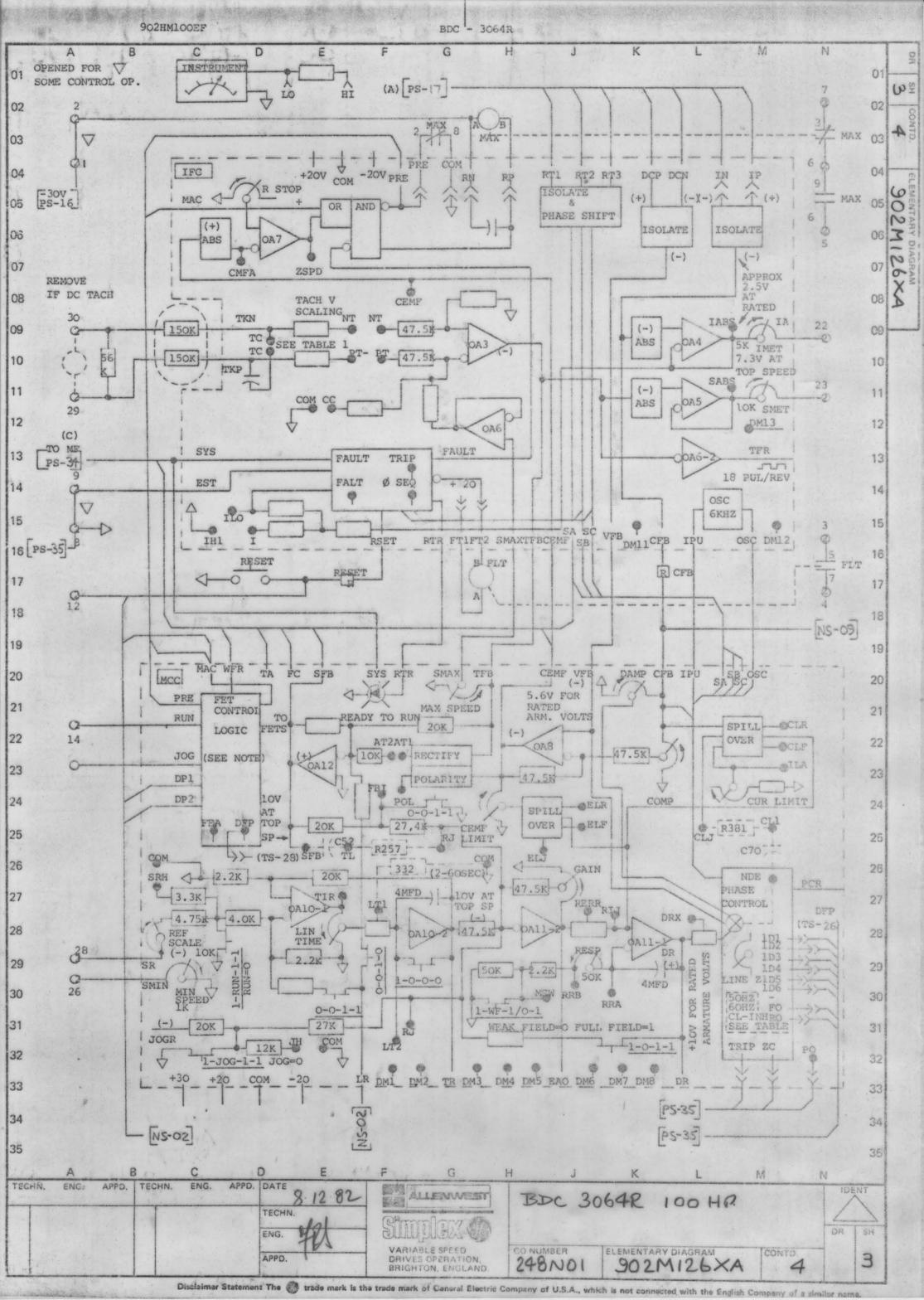


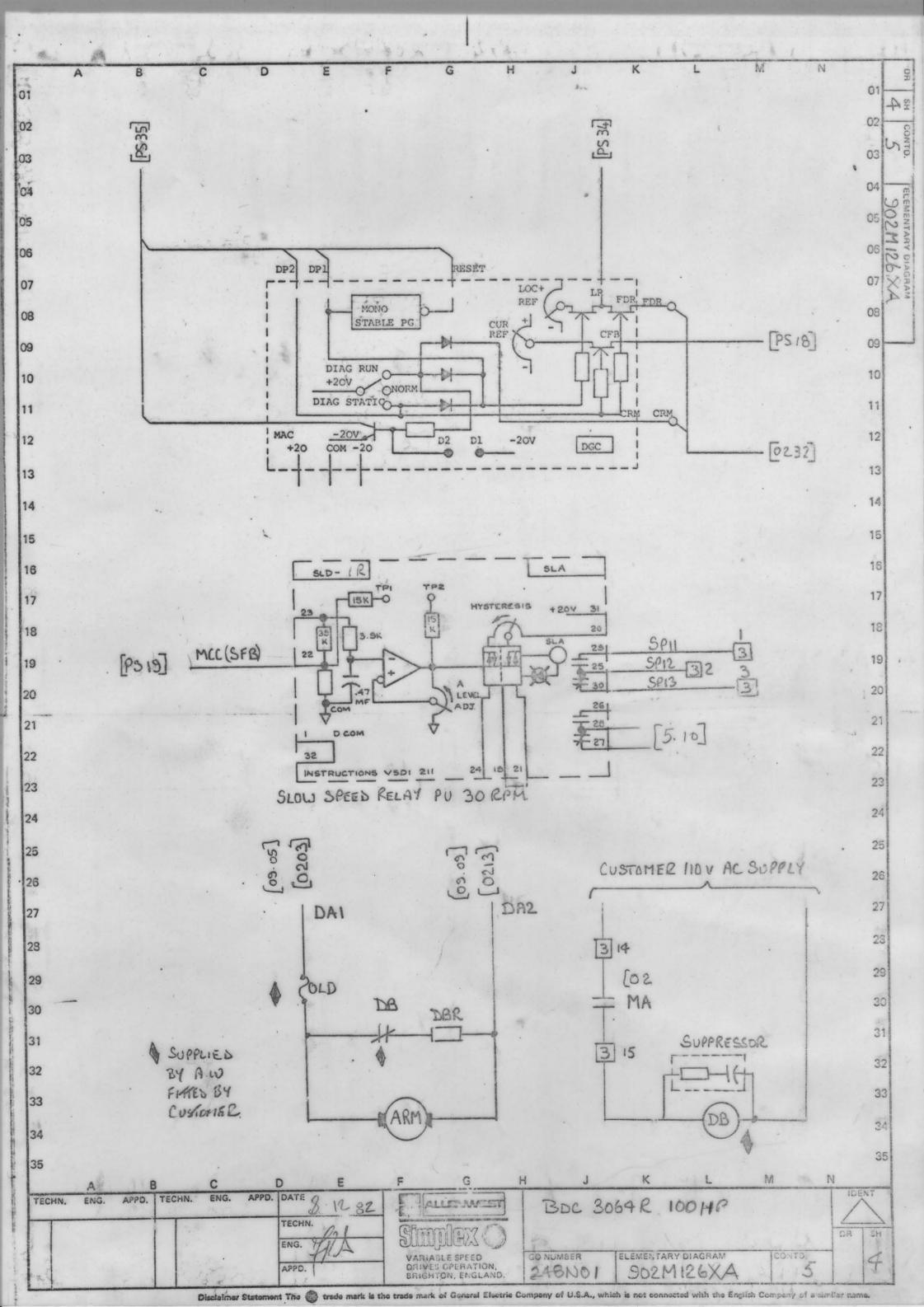
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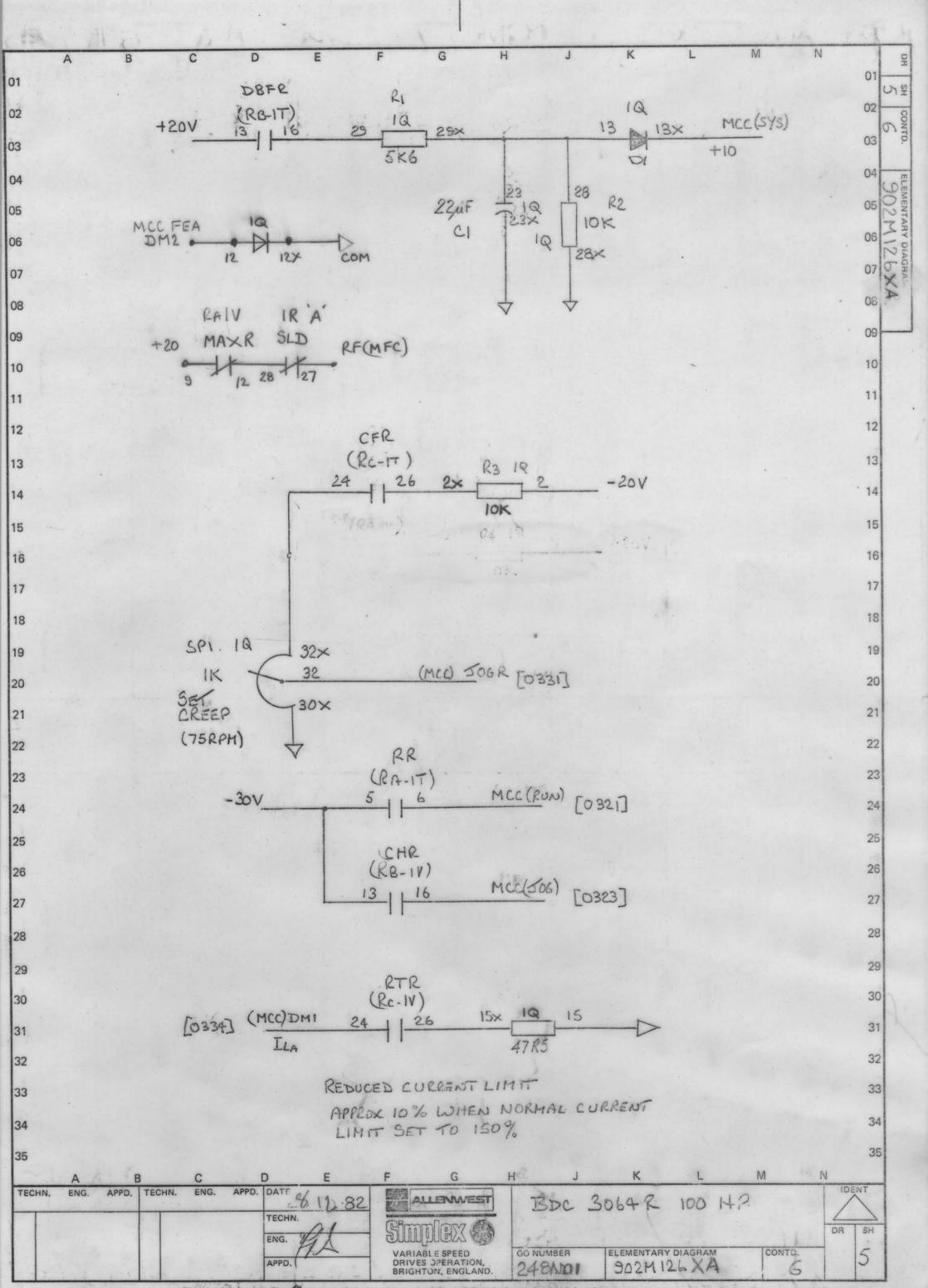
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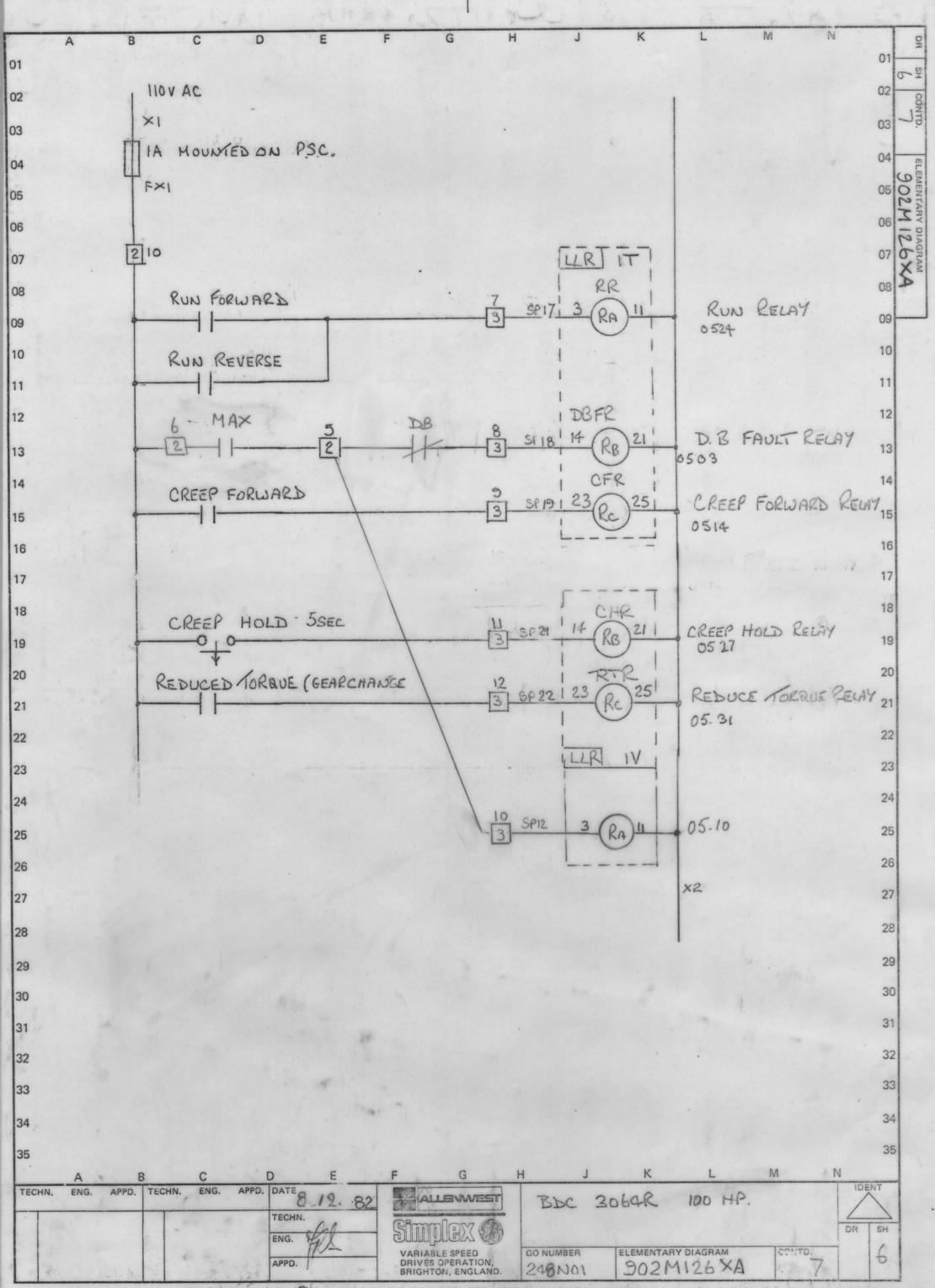






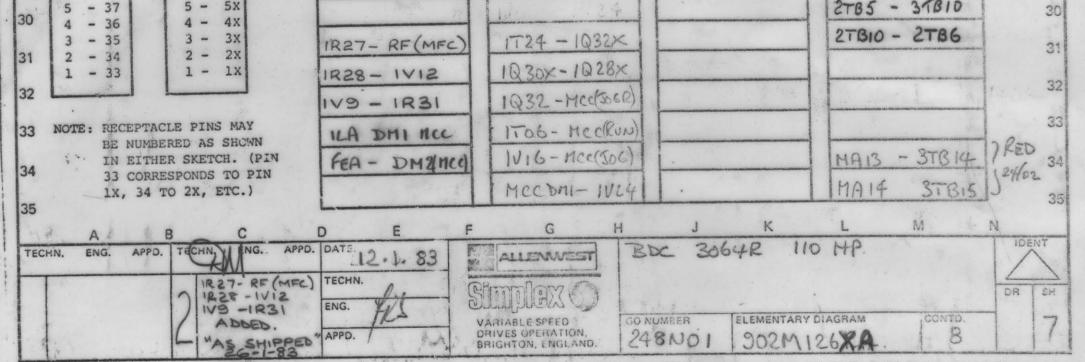


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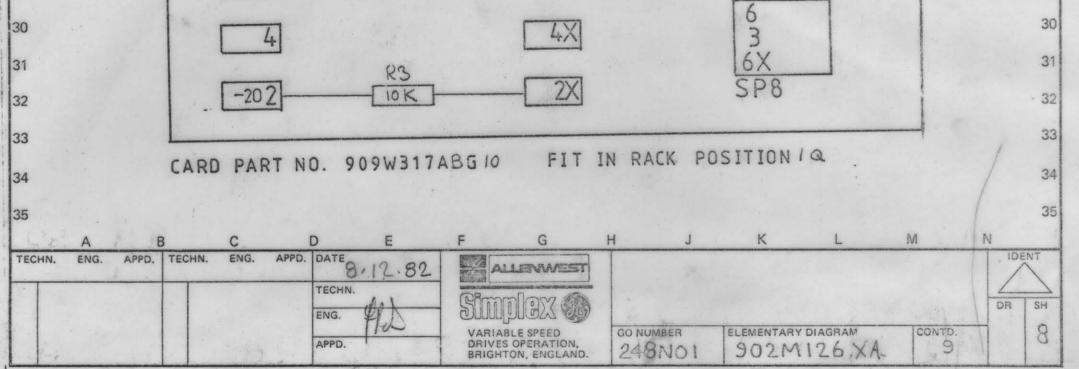
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CARDS CONTAIN PARTS CARDS AFTER REMOVAL NT VIEW OF 64 PIN EPTACLE AS SEEN RACK CLOSED ITION. - 64 - 63 - 62 - 62 - 61 - 62 - 60 - 28 - 29 - 29x - 60 28 - 28x 27 - 27x 28 - 28x 27 - 27x 28 - 28x 27 - 27x 28 - 28x 27 - 27x 26 - 26x 25 - 25x - 55 23 - 23x 24 - 24x 23 - 32x 30 - 30x 29 - 29x 28 - 28x 27 - 27x 26 - 26x 23 - 23x 26 - 26x 23 - 23x 24 - 24x 23 - 32x 30 - 30x 29 - 29x 28 - 28x 27 - 27x 26 - 26x 23 - 23x 24 - 24x 23 - 23x 25 - 25x 24 - 24x 23 - 23x 24 - 24x 23 - 23x 25 - 25x 24 - 24x 23 - 23x 25 - 25x 26 - 26x 25 - 25x 26 - 26x 27 - 27x 28 - 28x 27 - 27x 28 - 28x 27 - 27x 28 - 28x 27 - 27x 28 - 28x 29 - 29x 28 - 28x 27 - 27x 28 - 28x 27 - 27x 28 - 28x 29 - 29x 28 - 28x 27 - 27x 28 - 28x 29 - 29x 20 - 20x 20 - 20x 20 - 20x 20 - 20x	WHICH WILL UNTIL THESE	BE THERMALLY HOT PARTS HAVE COOLE SYMBOLS: TEST R/B - 20 - 1002 1002 - 1002 R/B Com - 1015 1015 - 1015	T AFTER BEIN ED. DO NOT N T POST CARD 2 MCC.(9 1R19 MCC.(9 1R19 MCC.(9 1R2) 1R31 1T16	NG IN OPERATION REMOVE OR INSI RACK WIRE JUM F(5) - 1R22 - 1R21 - 1R21 - 1R21 - 1R21 - 1R21 - 1R23 - 1713	ON. CARE S ERT CARDS OT ADJUST PER TABLE 1V26 1V25 1V21 1V11 1T11	HOULD BE WITH POWE SENT $- 1015 \times$ $- 1015 \times$ - 1011 - 1711 - 1721	X I	SED IN LIED. INDICAT	- 1R - 1R	GET 29 25
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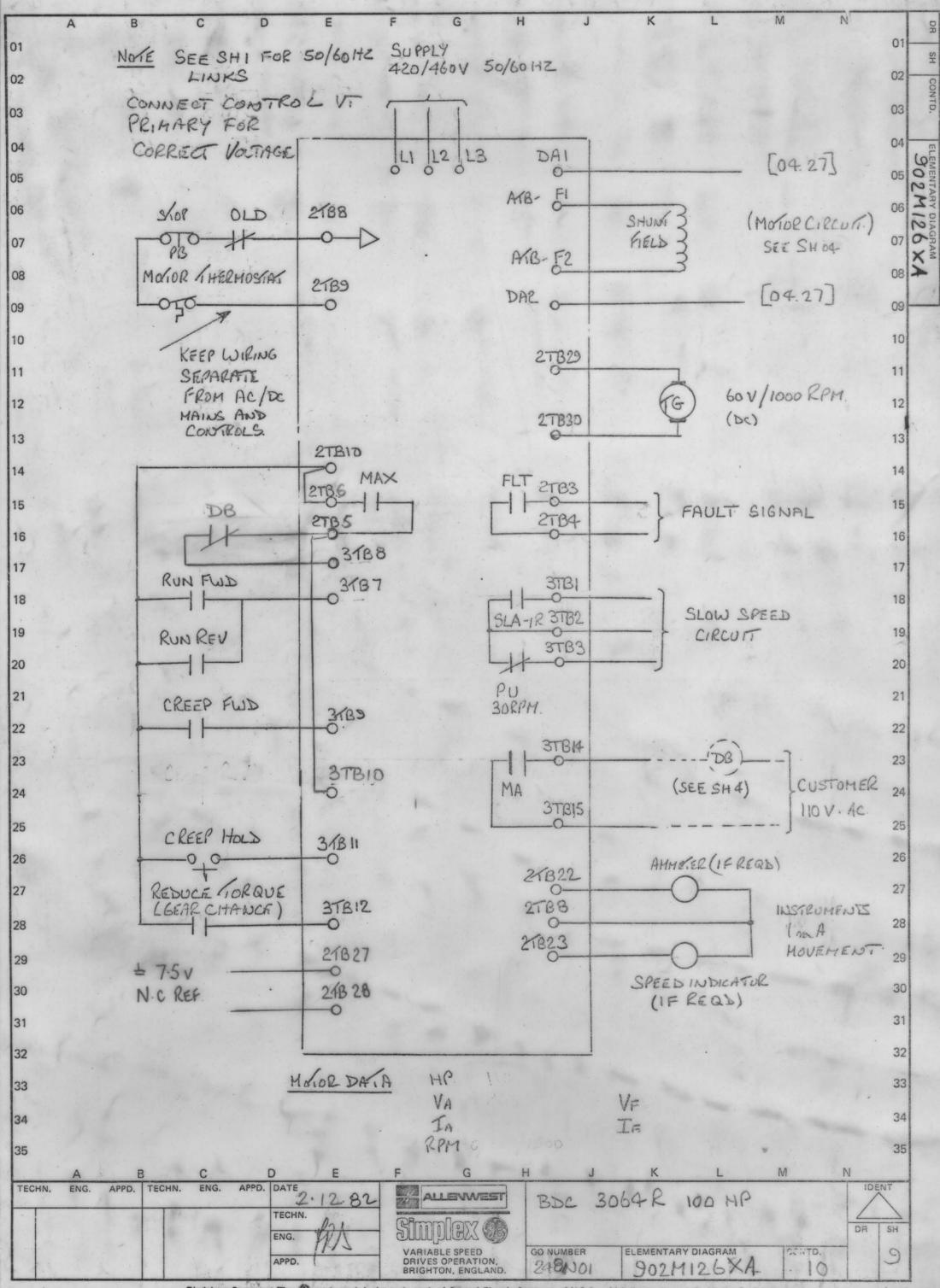


Discisimer Statement The of trade mark is the trade mark of General Electric Company of U.S.A., which is not connected with the English Company of a similar name.

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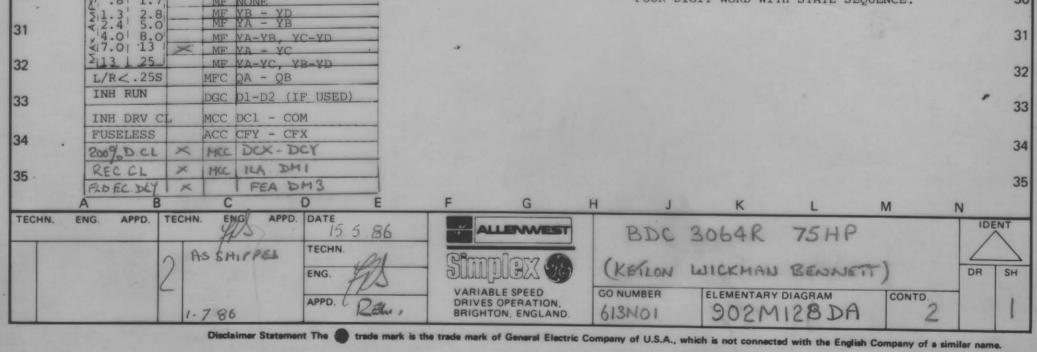


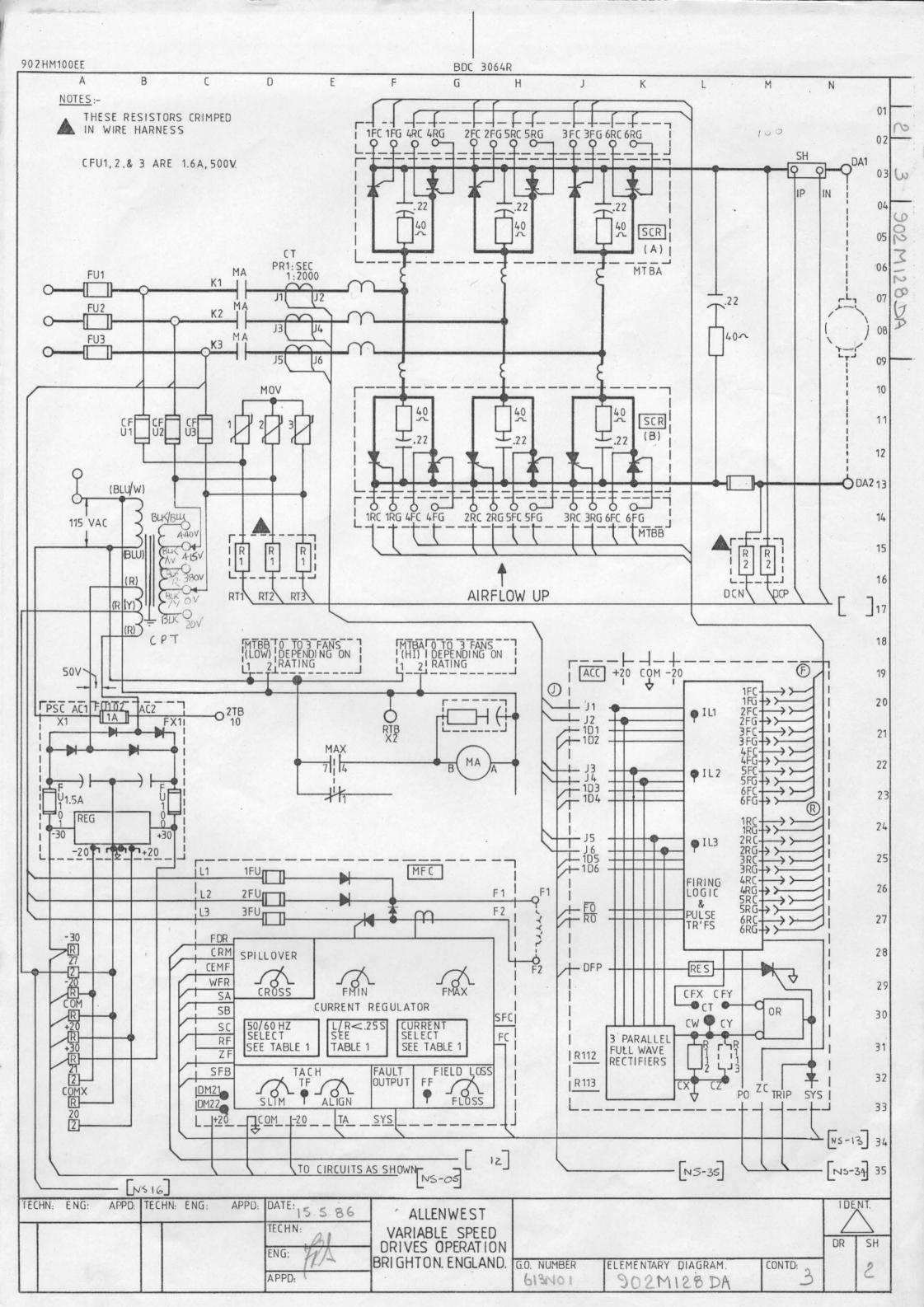
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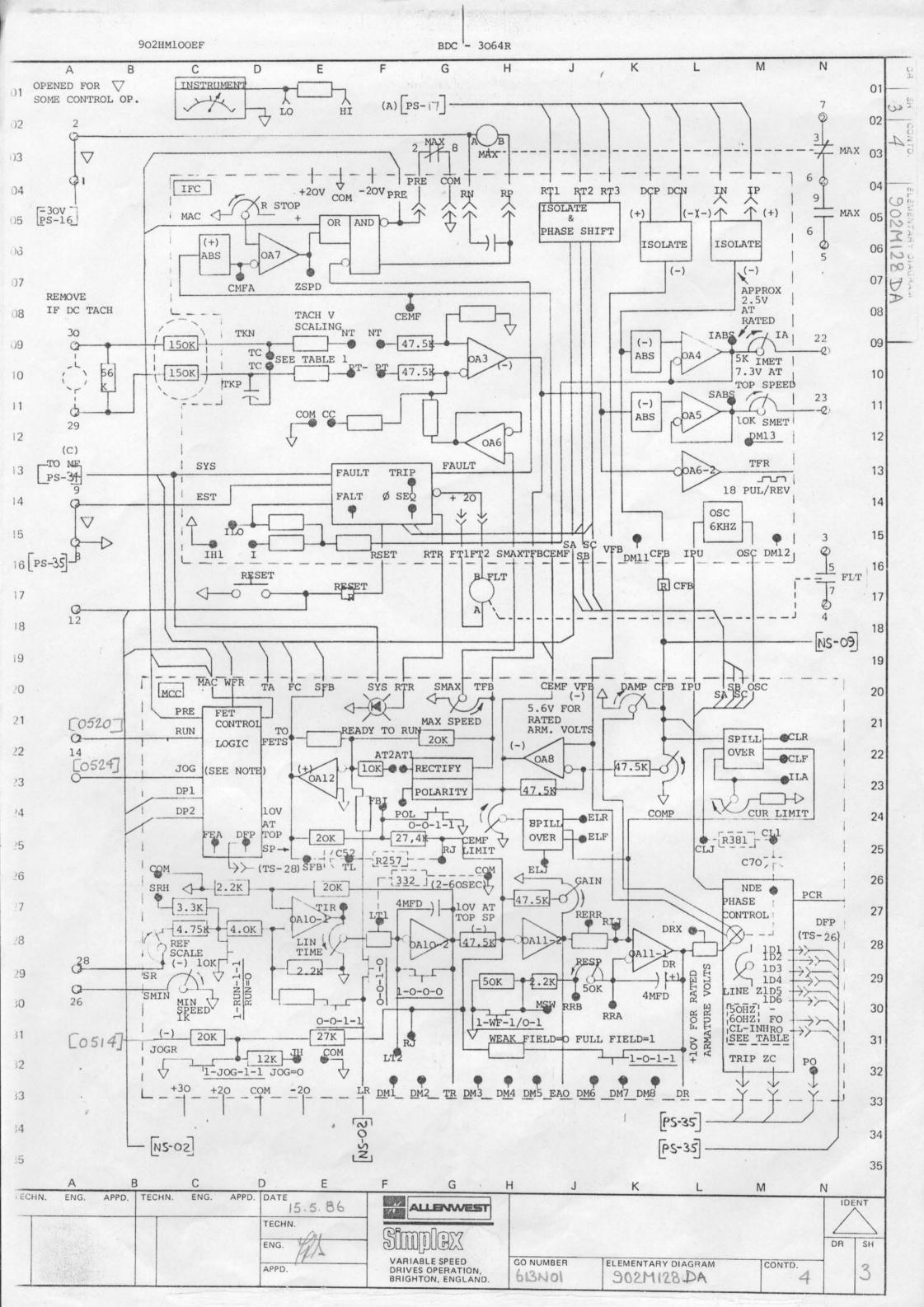
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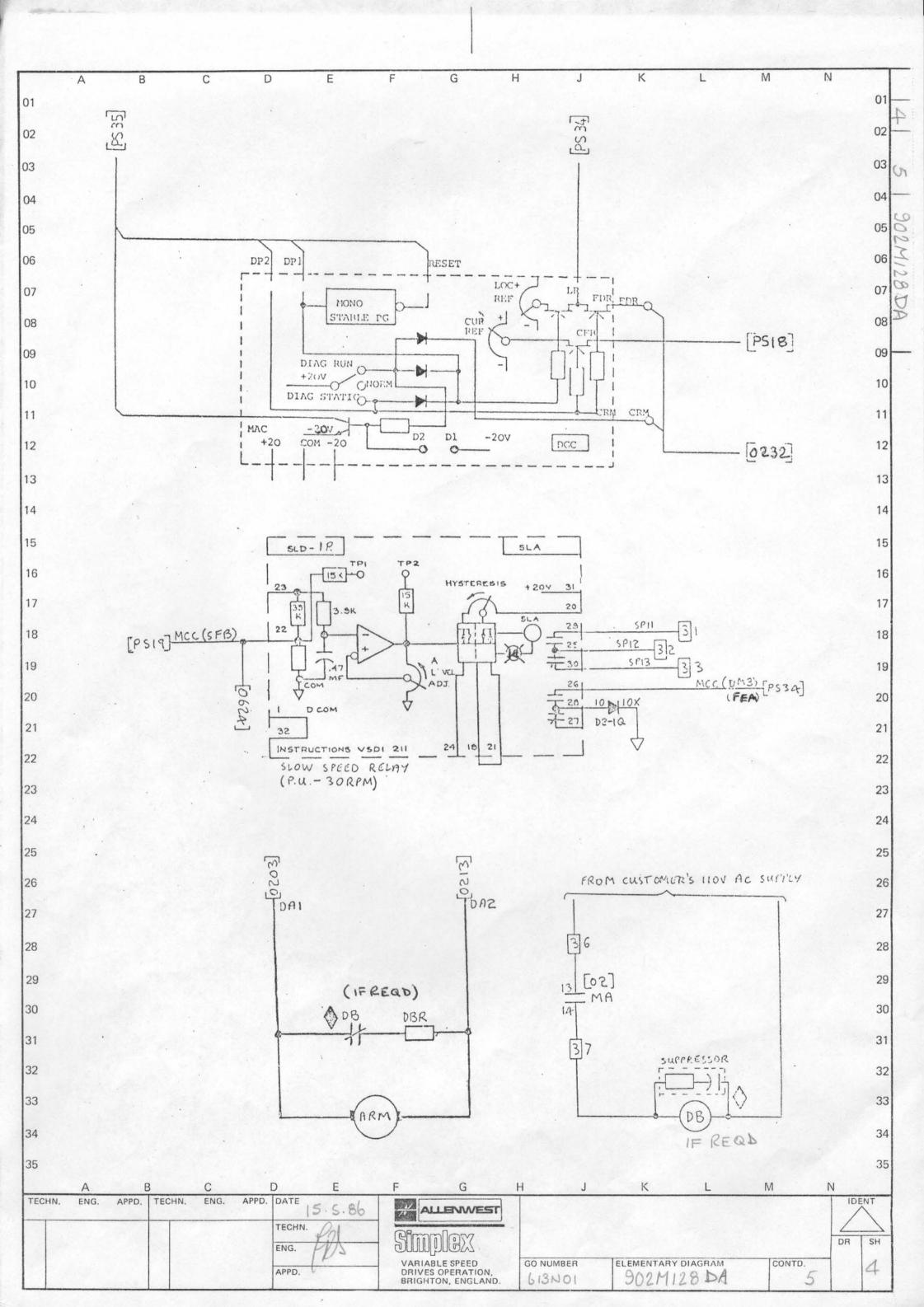
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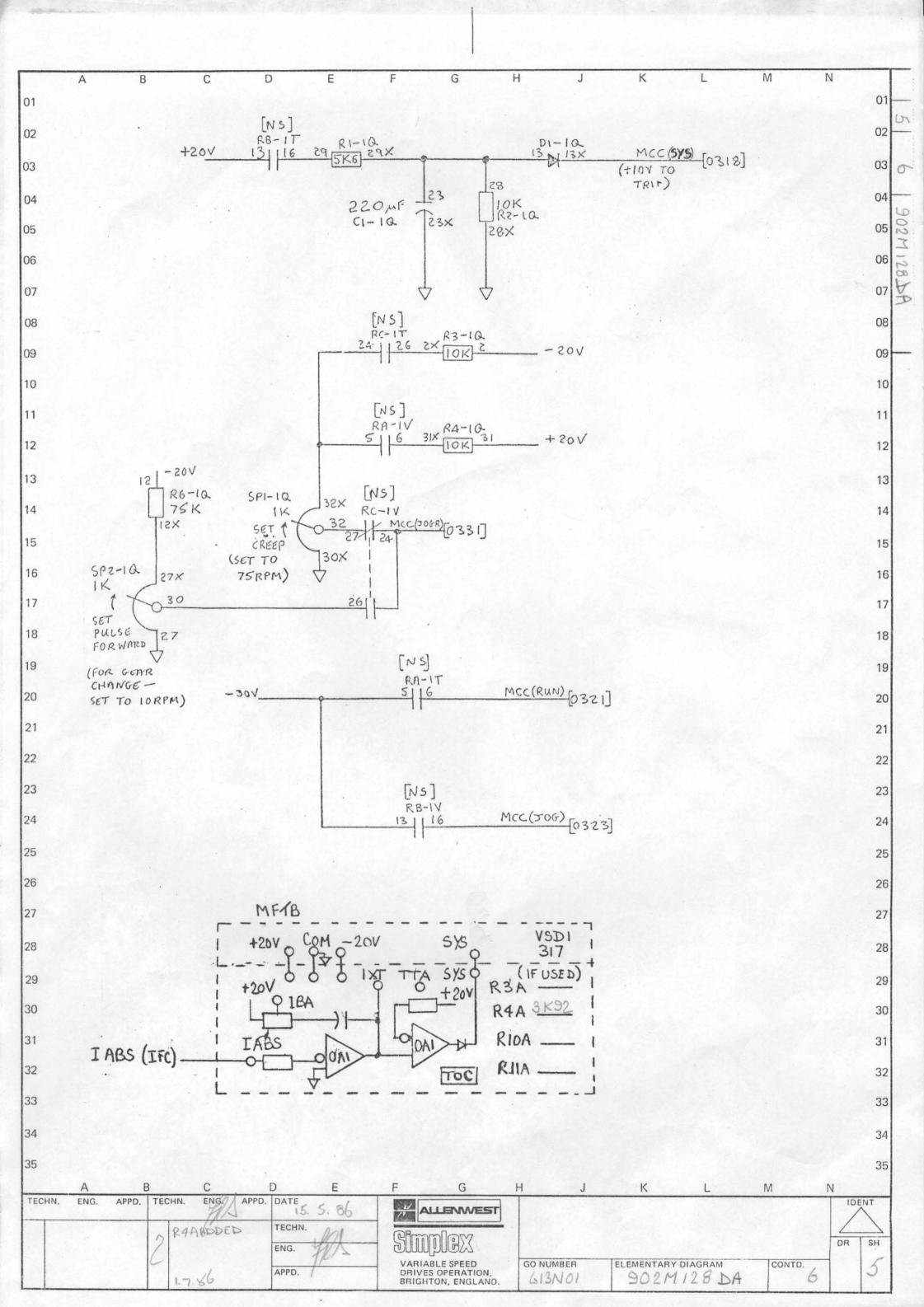
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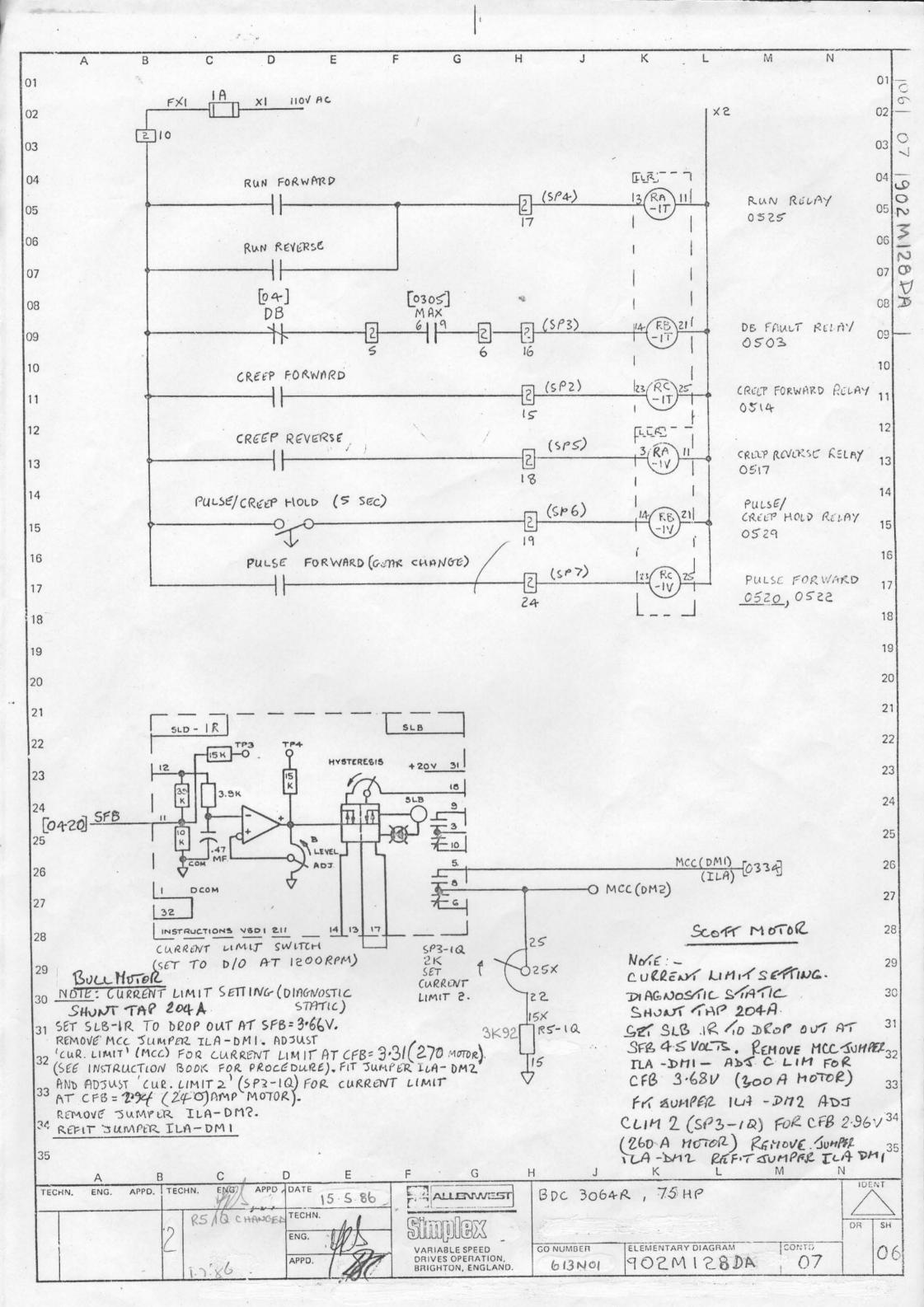




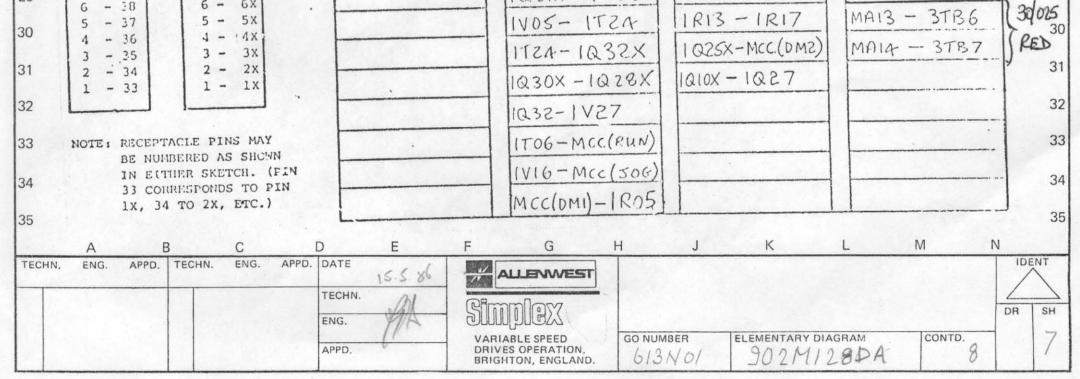




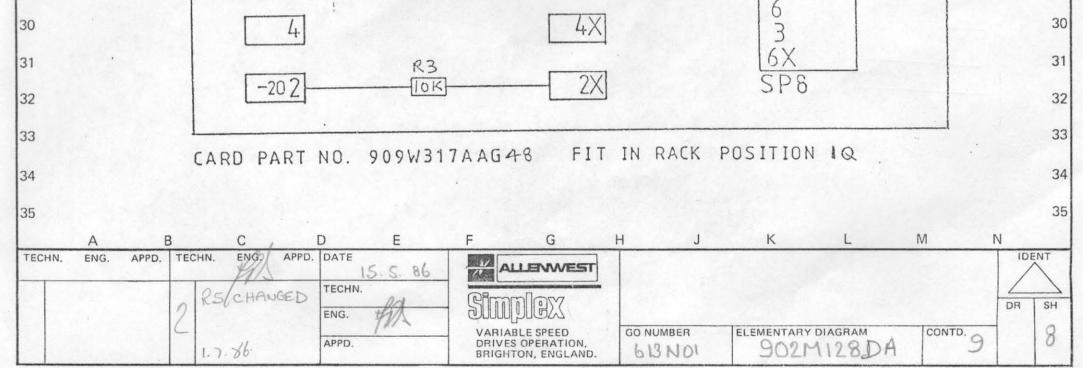


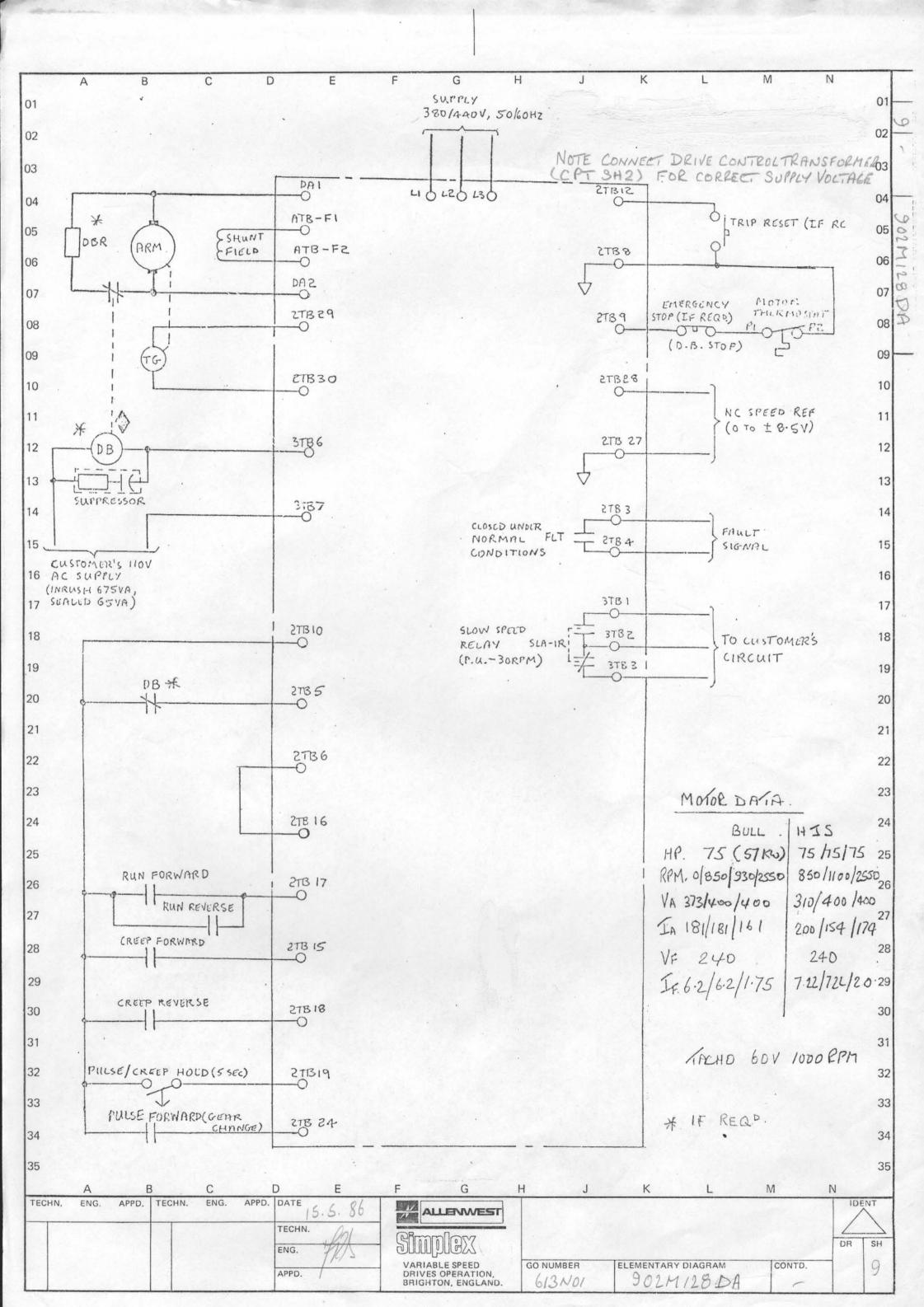


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ALL CA	VIEW OF VIEW OF VIEW OF VIEW OF VACLE AS CK CLOSE CON. - 64 - 63 - 62 - 61 - 60 - 59 - 58 - 57 - 56 - 55 - 54 - 53	F 64 I 5 SEET ED 3: 3: 3: 3: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2:	$\begin{array}{c} \text{PIN} \\ 2 & - & 32 \\ 1 & - & 31 \\ 0 & - & 30 \\ 9 & - & 29 \\ 8 & - & 28 \\ 7 & - & 27 \\ 6 & - & 26 \\ 5 & - & 25 \\ 4 & - & 24 \\ 3 & - & 23 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 21 \\ 0 & - & 26 \\ 1 & - & 21 \\ 8 & - & 18 \\ 8 & - & 18 \end{array}$	UNTIL 1 X X X X X X X X X X X X X	THESI	RTB(100 RTB(101 RTB(103 RTB(-	$\frac{SYN}{2}$ SY	EDOLS: TEST -1Q02 R02 1Q15 R15 -1Q31 231 -1T05	POST	CARD R CARD R NCC (SFT R 19- NCC (UT R 28- R 31 T 16 T 16 T 16	$\frac{1100}{1000} = \frac{1000}{1000} = \frac{1000}{1000$	PERATI DR INS D F PE JIT 22 1 R26 10 13 27 228	ON. C. ERT C.	ARE SUC ARDS WI JUSTHEN 22 - 1 22 - 1 22 - 1 21 - 1 11 - 1 21 - 21 - 202 - 1	IRII V21 V21 V21 V21 V11 T11 T25 IQ12		INDICA SP2- SP3 SP4 SP5 SP6 SP7	- IT 2 - IT 2 - IT - I - I - I	23 TIA TO3 V03 V14 IV23	
ALL CA	VIEW OF ACLE AS CK CLOSE CON. - 64 - 63 - 62 - 61 - 60 - 59 - 58 - 57 - 56 - 55 - 54 - 53 - 52 - 51 - 50 - 49	F 64 I 5 SEE ED 3 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\begin{array}{c} \text{PIN} \\ 2 & - & 32 \\ 1 & - & 31 \\ 0 & - & 30 \\ 9 & - & 29 \\ 8 & - & 28 \\ 7 & - & 27 \\ 6 & - & 26 \\ 5 & - & 25 \\ 4 & - & 24 \\ 3 & - & 23 \\ 2 & - & 21 \\ 2 & - & 21 \\ 2 & - & 21 \\ 0 & - & 26 \\ 1 & - & 11 \\ 8 & - & 16 \\ 7 & - & 11 \end{array}$	UNTIL 1 X X X X X X X X X X X X X	THESI	RTB(1Q1 RTB(1Q1 RTB(1Q3 RTB(- 1T03	$\frac{SYN}{O}$	EDOLS: TEST -1Q02 R02 1Q15 R15 -1Q31 231 -1T05 V13	POST	CARD R CARD R NCC (SFT R 19- NCC (UT R 28- R 31 T 16 T 16 T 16 T 16 T 10 T 28	$\frac{1100}{1000} = 0$	PERATI DR INS D F PE JIT 22 1 R26 10 13 27 27 27 27 27 27 27 27 27 27	ON. C. ERT C.	ARE SUC ARDS WI JUSTHEN 22 - 1 22 - 1 22 - 1 21 - 1 11 - 1 11 - 1 21 - 1 21 - 202 - 2 212 - 2	IRII V21 V21 V21 V21 V21 V21 V21 V21 V21 V21		INDIC SP2- SP3 SP4 SP5 SP6 SP7 2TE	$- 1T_{2}$	23 T14 T03 V03 V14 IV23 TB16	
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ALL CA FRONT RECEPTI IN RAC POSITI 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14	VIEW OF VIEW OF VIEW OF CALE AS CALOSI CON. - 64 - 63 - 62 - 61 - 60 - 59 - 58 - 57 - 56 - 55 - 54 - 53 - 52 - 51 - 50 - 49 - 48 - 47 - 46	TER RE F 64 I S SEE 3: 3: 3: 3: 2: 2 2 2: 2 2 2: 2 2 2: 2 2 2: 2 2 2: 2 2 2: 2 2 2: 2 2 1: 1: 1:	$\begin{array}{c} \text{PIN} \\ 2 & - & 32 \\ 1 & - & 31 \\ 0 & - & 30 \\ 9 & - & 29 \\ 8 & - & 28 \\ 7 & - & 27 \\ 6 & - & 26 \\ 5 & - & 25 \\ 4 & - & 24 \\ 3 & - & 23 \\ 2 & - & 22 \\ 1 & - & 21 \\ 20 & - & 20 \\ 1 & - & 21 \\ 0 & - & 20 \\ 1 & - & 21 \\ 1 & - & 1 \\ 1 & - & 1 \\ 1 & - & 1 \\ 1 & - & 1 \end{array}$	UNTIL I X X X X X X X X X X X X X	THESI	RTB(1Q1 RTB(1Q1 RTB(1Q3 RTB(- 1T03	$\frac{SYN}{O}$	EDOLS: TEST -1Q02 R02 1Q15 R15 -1Q31 231 -1T05 V13	POST	NOT PI CARD R NCC (SFT R19- NCC (UT R28- NCC	$\frac{1100}{1000} = 0$	PERATI DR INS PE JIT 22 1 R26 1 R26 1 R26 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2		ARE SUCARDS WI JUSTHEN 22 - 1 25 - 1 25 - 1 25 - 1 25 - 1 21 - 1 21 - 1 21 - 1 21 - 1 21 - 1 21 - 2 21 - 2 202 - 2 212 - 2 230 - 2 230 - 2	IRII V21 V21 V21 V21 V21 V11 T11 T25 IQ12 IQ27 IQ27 IQ2 IQ2 IQ2	X ER AF	INDIC SP2- SP3 SP4 SP5 SP6 SP7 2TE (SP11- SP12	$- 1T_{2}^{2}$	LICIT 23 TL4 TO3 V03 V14 IV23 TB16 R25	
ALL CA	VIEW OF ACLE AS CK CLOSE CON. - 64 - 62 - 61 - 60 - 59 - 58 - 57 - 56 - 55 - 54 - 53 - 52 - 51 - 49 - 48 - 47 - 46 - 45 - 44	TER RE F 64 I S SEEI 3 31 3 3 32 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1	$\begin{array}{c} \text{PIN} \\ 2 & - & 32 \\ 1 & - & 31 \\ 0 & - & 30 \\ 9 & - & 29 \\ 8 & - & 28 \\ 7 & - & 27 \\ 6 & - & 26 \\ 5 & - & 25 \\ 4 & - & 24 \\ 3 & - & 23 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 21 \\ 1 & - & 26 \\ 1 & - & 16 \\ 1 $	UNTIL 1 X X X X X X X X X X X X X	THESI	RTB(1Q1 RTB(1Q1 RTB(1Q3 RTB(- 1T03	$\frac{SYN}{O}$	EDOLS: TEST -1Q02 R02 1Q15 R15 -1Q31 231 -1T05 V13	POST	NOT RI CARD R NCC (SFT R19- NCC (UT R28- NCC	$\frac{1100}{1000} = 0$	PERATI DR INS PE JIT 22 1 R26 1 R26 1 R26 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2		ARE SUC ARDS WI JUSTHEN 22 - 1 22 - 1 22 - 1 22 - 1 22 - 1 21 - 1 21 - 1 21 - 1 21 - 1 21 - 1 21 - 2 21 -	IRII V21 V21 V21 V21 V21 V11 T11 T25 IQ12 IQ27 IQ27 IQ2 IQ2 IQ2	X ER AF	INDIC SP2- SP3 SP4 SP5 SP6 SP7 2TE (SP11- SP12	$- 1T_{2}^{2}$	LICIT 23 T14 T03 V03 V14 IV23 TB16 R29	
ALL CA FRONT RECEPTI IN RAC POSITI 32 31 30 29 28 27 26 25 24 23 21 20 19 18 17 16 15 14 13 12 11	VIEW OF ACLE AS CK CLOSE CON. - 64 - 63 - 62 - 61 - 60 - 59 - 58 - 57 - 56 - 55 - 54 - 55 - 54 - 55 - 51 - 50 - 49 - 48 - 45 - 44 - 43	TER RE F 64 I S SEEN 2 ED 3 3 31 3 3 32 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 1 1 1 1 1 1 1 1	$\begin{array}{c} \text{PIN} \\ 2 & - & 32 \\ 1 & - & 31 \\ 0 & - & 30 \\ 9 & - & 29 \\ 8 & - & 28 \\ 7 & - & 27 \\ 6 & - & 26 \\ 5 & - & 25 \\ 4 & - & 24 \\ 3 & - & 23 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 2 & - & 2 \\ $	UNTIL I X X X X X X X X X X X X X	THESI	RTB(1Q1 RTB(1Q1 RTB(1Q3 RTB(- 1T03	$\frac{SYN}{O}$	EDOLS: TEST -1Q02 R02 1Q15 R15 -1Q31 231 -1T05 V13	POST	NOT PI CARD R NCC (SFT R19- NCC (UT R28- NCC	$\frac{1100}{10000000000000000000000000000000$	PERATI DR INS D I DE JIT 22 1 R26 0 13 27 27 27 27 27 27 27 27 27 27	ON. C. ERT C. ERT C.	ARE SUCARDS WI JUSTHEN 22 - 1 25 - 1 25 - 1 25 - 1 25 - 1 21 - 1 21 - 1 21 - 1 21 - 1 21 - 1 21 - 2 21 - 2 202 - 2 212 - 2 230 - 2 230 - 2	IRII V21 V21 V21 V21 V11 T11 T25 1Q12 1Q27 1Q27 1Q2 1Q2 1Q2 1Q2 1Q2 1Q2 1Q2	X ER AF	INDIC SP2- SP3 SP4 SP5 SP6 SP7 2TE (SP11- SP12	$- 1T_{2}^{2}$	LICIT 23 TL4 TO3 V03 V14 IV23 TB16 R25	
ALL CA	VIEW OF VIEW OF VIEW OF CALE AS CALOSI CON. - 64 - 63 - 62 - 61 - 60 - 59 - 58 - 57 - 56 - 55 - 54 - 53 - 52 - 51 - 49 - 48 - 47 - 46 - 45 - 44 - 43 - 42 - 41	TER RE F 64 I S SEEN 2 ED 3 3 31 3 3 32 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 1 1 1 1 1 1 1 1	$\begin{array}{c} \text{PIN} \\ 2 & - & 32 \\ 1 & - & 31 \\ 0 & - & 30 \\ 9 & - & 29 \\ 8 & - & 28 \\ 7 & - & 27 \\ 6 & - & 26 \\ 5 & - & 25 \\ 4 & - & 24 \\ 3 & - & 23 \\ 2 & - & 22 \\ 1 & - & 21 \\ 20 & - & 26 \\ 1 & - & 26 \\ 2 & - & 22 \\ 1 & - & 21 \\ 20 & - & 26 \\ 1 & - & 26 \\ 1 & - & 26 \\ 2 & - & 26 \\ 1 & - & 26 \\ 2 & - & 26 \\ 1 & - & 26 \\ 2 & - & 26 \\ 1 & - & 26 \\ 2 & - & 26 \\ 1 & - & 26 \\ 2 & - & 26 \\ 1 & - & 26 \\ 2 & - & 26 \\ $	UNTIL I X X X X X X X X X X X X X	THESI	RTB(1Q1 RTB(1Q1 RTB(1Q3 RTB(- 1T03	$\frac{SYN}{O}$	EDOLS: TEST -1Q02 R02 1Q15 R15 -1Q31 231 -1T05 V13	POST	CARD R ACC (SFI R 19- ACC (SFI R 19- ACC (UT R 28- R 31 A 29 A	$\frac{1100}{1000} = 10000000000000000000000000000000$	ERATI R INS		ARE SUC ARDS WI JUSTHEN 22 - 1 25 - 1 25 - 1 25 - 1 25 - 1 21 - 1 11 - 1 11 - 1 11 - 1 11 - 1 21 - 1 21 - 1 21 - 1 21 - 2 202 - 2 202 - 2 230 - 2 230 - 2 230 - 2 24 - 2	NT IRII V21 V21 V21 V21 V21 V21 V21 V21	X ER AF	INDIC SP2- SP3 SP4 SP5 SP6 SP7 2TE (SP11- SP12	$- 1T_{2}^{2}$	LICIT 23 TL4 TO3 V03 V14 IV23 TB16 R25	
EL CA	VIEW OF ACLE AS CK CLOSE CN. - 64 - 63 - 62 - 61 - 60 - 59 - 58 - 57 - 56 - 55 - 54 - 53 - 52 - 51 - 50 - 49 - 48 - 47 - 46 - 45 - 44 - 43 - 42	TER RE F 64 I S SEEN 2 ED 3 3 31 3 3 32 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 1 1 1 1 1 1 1 1	$\begin{array}{c} \text{PIN} \\ 2 & - & 32 \\ 1 & - & 31 \\ 0 & - & 30 \\ 9 & - & 29 \\ 8 & - & 28 \\ 7 & - & 27 \\ 6 & - & 26 \\ 5 & - & 25 \\ 4 & - & 24 \\ 3 & - & 23 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 22 \\ 1 & - & 21 \\ 2 & - & 21 \\ 1 & - & 21 \\ 2 & - & 21 \\ 1 & - & 1 \\ 1 & - $	UNTIL I X X X X X X X X X X X X X	THESI	RTB(1Q1 RTB(1Q1 RTB(1Q3 RTB(- 1T03	$\frac{SYN}{O}$	EDOLS: TEST -1Q02 R02 1Q15 R15 -1Q31 231 -1T05 V13	POST	CARD R ACC (SFI R 19- ACC (SFI R 19- ACC (UT R 28- R 31 T 16 1028 1028 1028 1023	$\frac{1100}{1000} = 0$	PRATI R INS PRE JIN 22 1 R26 10 13 27 0 28 0 23 23 23 23 23 23 23 23 23 23	ON. C. ERT C. POT AD IV IV IV IV IV IV IV IV IV IV IV IV IV IV I	ARE SUC ARDS WI JUSTHEN 22 - 1 25 - 1 25 - 1 25 - 1 21 - 1 21 - 1 11 - 1 11 - 1 21 - 1 21 - 202 - 2 202	IRII V21 V21 V21 V21 V21 V11 T11 T25 1Q12 1Q27 1Q27 1Q27 1Q2 -1Q2 -1Q2 -1Q2 -1Q2	X ER AF	INDIC SP2- SP3 SP4 SP5 SP6 SP7 2TE (SP11- SP12	$- 1T_{2}^{2}$	LICIT 23 TL4 TO3 V03 V14 IV23 TB16 R25	



N M К G H J L С D Ε F A В 01 01 00 02 02 9 03 03 R4 04 +2031 31X 04 32X IK 32 SET 02 O 05 05 RI CREEP JXOE F SKG 29 29X 06 1200 06 SPI RZ 07 07 28% 28 V D 80 08 27X 30 27 IK 26 26X SET 09 09 PULSE FORWARD 10 10 SP2 24 24X 11 11 25 25X CI SK 23X SET 23 +1 1(220µF 12 12 22 LIMIT 2 13 13 21 21X SP3 14 14 19 20 20X ----22X 15 15 0 5 19X SP4 16 16 ~ 18 18X 4 4 17 17 5 2 18 18 X R5 m 19 19 15X com15 16X 19 3 892 17 20 20 DI 16 13 13X D 21 21 SP5 22 R6 22 12X 12 14X 75K. 23 11X 23 DS 14 10X 10 24 24 M SP6 25 25 11 9X 9 26 26 8X 8 27 27 7X 7 SP7 28 28 5X 5 29 29

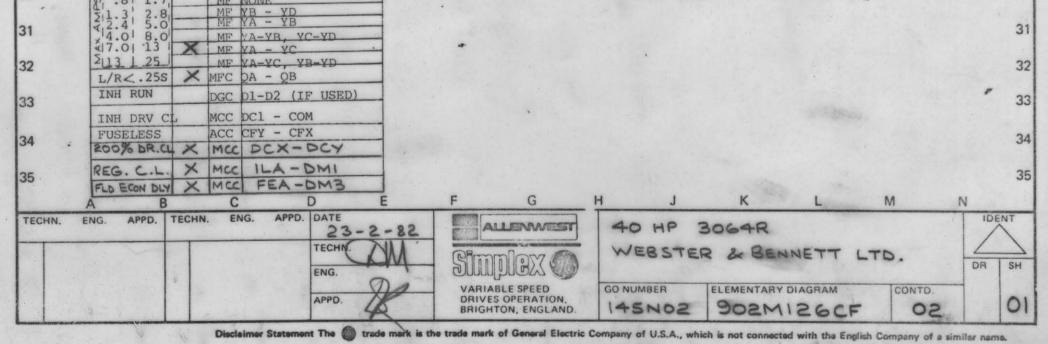


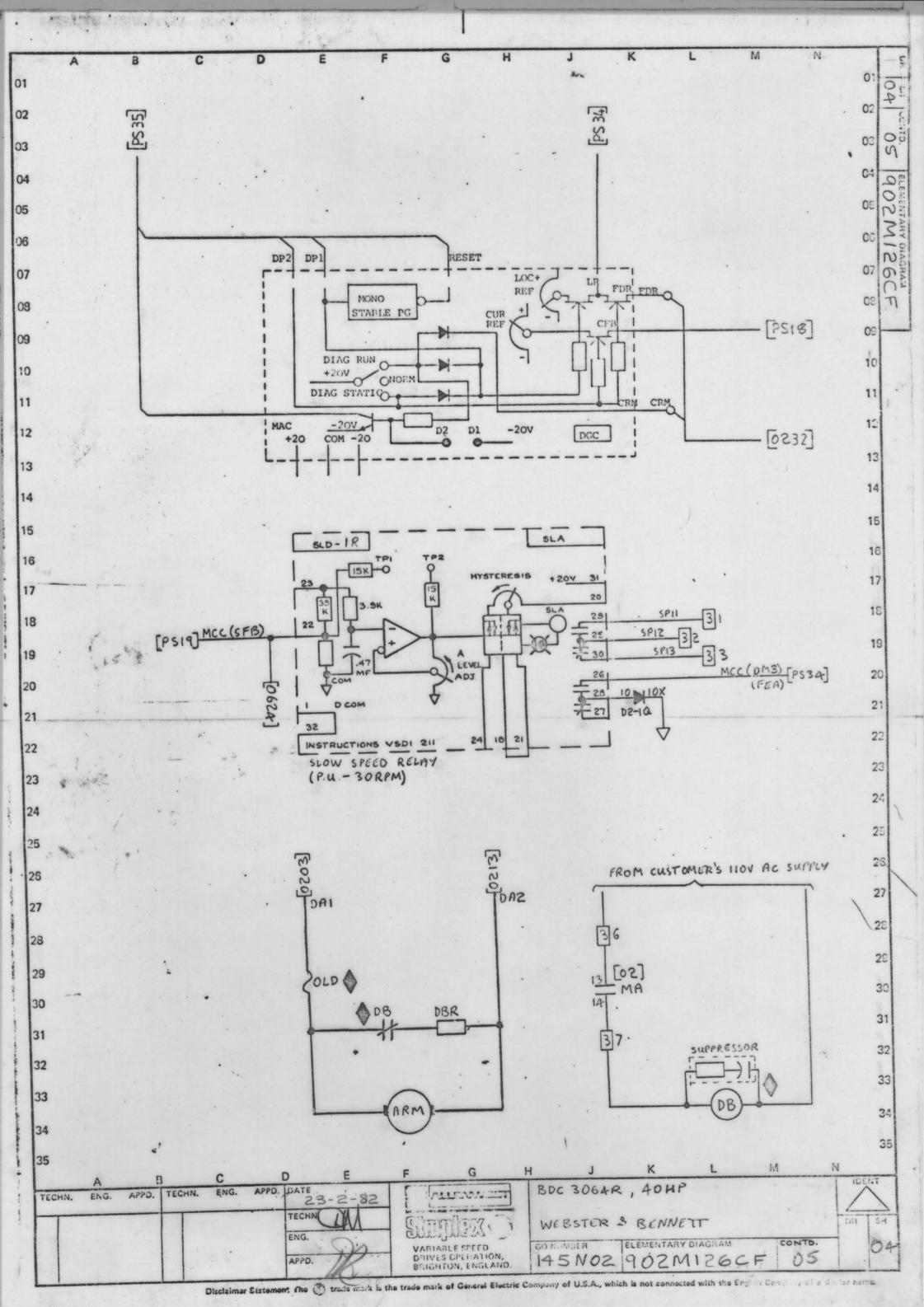


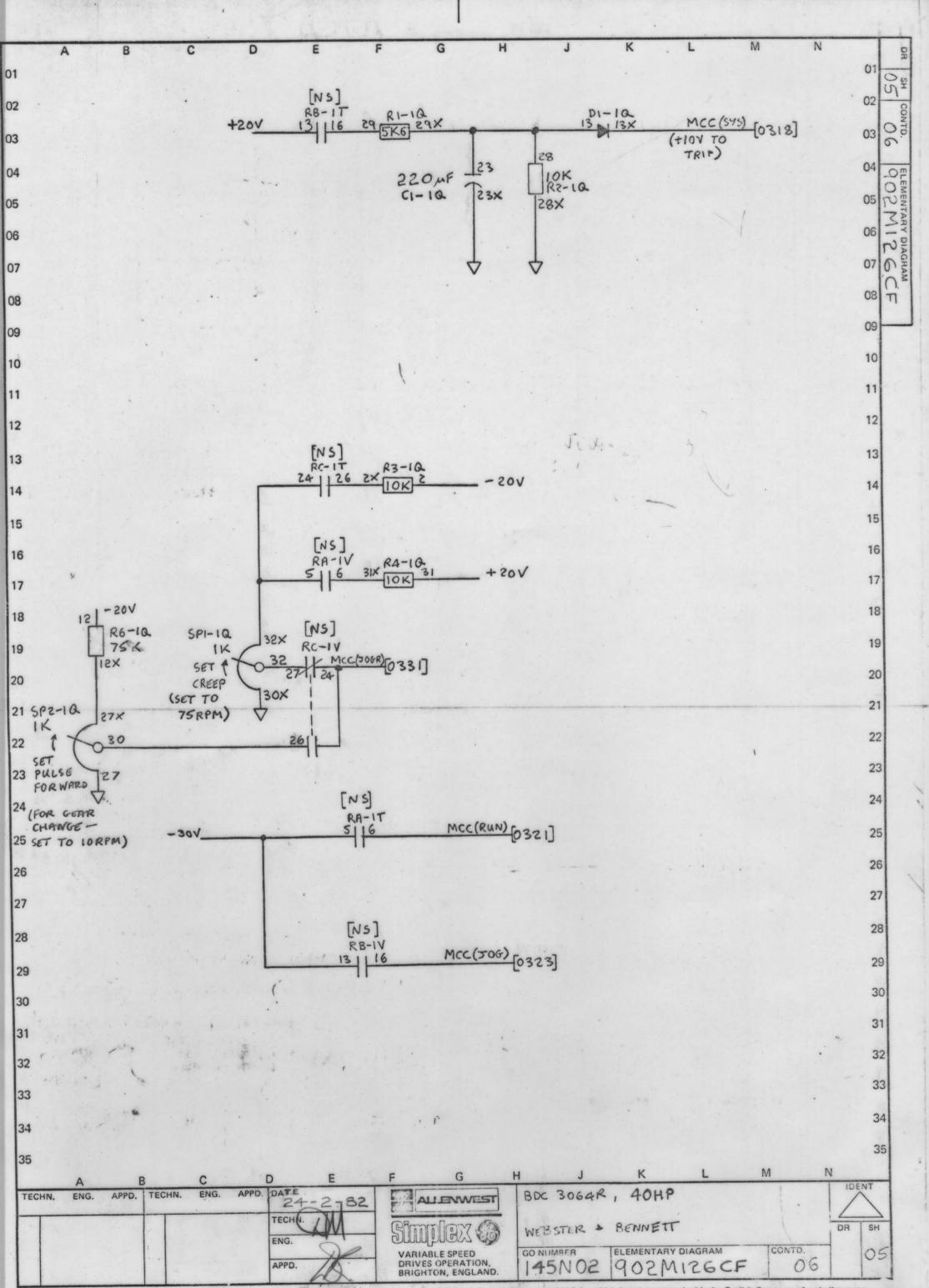
1. 1.			- 1.5%			4	DC -	3064R			
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	VOLUME						19.00				
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,	MCC	MATN	CONTR	OL CARD					-		03
1	IFC	INTER		the state of the s		1. 1. 2. 1		* CEN * CFE		COUNTER EMF (16) CURRENT FEEDBACK (16)	04
	PSC	POWER	SUPP	LY CARD	7			CMF		ABSOLUTE VALUE CEMF (08)	
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	DGC			CARD				DFF		DELAYED FIRING POWER (25)	.00
	MFC MFE			D CONTROL				* DR		DRIVER REFERENCE (33)	06
	MDR			ON RACK				* EAC		ERROR AMP OUTPUT (33)	U.
	ACC			CONTROL CARD				EST FAI		EXTERNAL FLT STOP INPUT (14) FAULT (14)	07
	CUMPOT C		las	The second s				* FC		FIELD CURRENT (NS26)	07
	SYMBOLS		AMPL	IFIERSVI	-			FDF		FIELD DIAGNOSTIC REFERENCE (08)	08
		-R2			-			FEA		FIELD ECONOMY ADJUST (25)	Uc
	VI		vo r	RICO				FF		FIELD FAULT (28)	~
	LRI	V	4	7 (R2)				IAE		MOTOR CURRENT ABSOLUTE (09)	09
	-R2	VT		$r_{0} = (1 + \frac{R^{2}}{RI}) V$	T			ILA		CURRENT LIMIT ADJUST (23)	
	$VO = \frac{1}{R1}$	VI	V	RI V	-			* IPU		CURRENT SIGNAL FOR METER (10) INITIAL PULSE (20)	1(
	1	-	-					* LR		LOCAL REF. FROM DGC (33)	
The second	÷	CASE G	ROUND)				* JOC		JOG SWITCH INPUT (23)	1
	VI () VO	V0 = 5	TCN () X ABSOLUTE V	ALUE OF V	T		* JOC	R	JOG REFERENCE INPUT (31)	
	ABS				ALOD OF V	•		* MAC		MAX/MA CONTROL SIGNAL (20)	1:
	ę	STAB O	N TER	MINAL				MSW		MODE SWITCH (30)	
		TEDMIN		2TB, 3TB, 4TB	DWD			* OSC * PCF		OSCILLATOR (17) PHASE CONTROL REF. (26)	1:
	-			2TB9; X2 R -				* PRE		PHASE CONTROL REF. (26) DRIVE PRECONDITION (21)	1
			-		RIDAL			ØSE		PHASE SEQUENCE (14)	1.
	0	TERMIN	AL AI	T.B.'s				REF	R	REGULATOR ERROR (27)	
	- 1	DOTTENT	TONE	TER ARROWS ON T	THE CADD			RIJ	1	INTEGRATOR SUMMING JUNCTION (27)	1
	132			DIAGRAMS INDIC				RJ		REGULATOR SUMMING JUNCTION (31)	
	· ·			TION AS THE PO		ER		RRA		REGULATOR RESPONSE ADJUST (30)	1
		SHAFT	IS RO	TATED CLOCKWIS	SE TO INCR	EASE		* RTF		RESET (16) READY TO RUN (16)	
		FUNCTI	ON.					* RUN		RUN SWITCH INPUT (21)	1
						100		* SA-		PHASE SYN OUTPUT (16)	
				STORS ARE CRIME	PED IN WIR	E		* SFF	3	SPEED FEEDBACK (20)	1
	-	HARNES	5.					SMI	T	SPEED SIGNAL FOR METER (12)	
	FUNCTIO	N USE	LOC	JUMPERS				* SR		SYSTEM REFERENCE IN: UT (29)	19
		N USE	Inc					* SYS * TA	;	SYSTEM FAULT TRIP (13) OUTPUT FOR TACHO TRIP ADJUST (20)	
	60HZ		MFC	ZA-ZB (IF USEI	D)			TF		OUTPUT FOR TACHO TRIP ADJUST (20) TACHO FAULT (NS28)	2
	JOHZ -	-+	MCC	HZA - PHA				* TFI	3	TACHOMETER FEEDBACK (20)	3
	IOC-400			(NONE)				TFI		AC TACHO FREQUENCY OUTPUT (13)	2
	-500	8	IFC	I - IHI				* TR		TIMED REFERENCE (33)	
	-300		IFC	I-ILO				* VFI		VOLTAGE FEEDBACK (19)	2
	SR5 - 9		-	NONE)				* WFI	•	WEAK FIELD REFERENCE (20)	
	9 - 2		MCC	SRH - COM				(* .	TEST P	OINT ON DOOR FRONT)	2:
	JOGR 10		-	(NONE)							
	20		1	JH - COM							2
	LT. 3-7s		-	(NONE)				MA	PPING S	SYSTEM .	
	2 - 605	ec		3320 FROM LTI				rut	L'ETHO		2
	VREG DC TACH	X	1	(NONE)				(N	S/PS/TS	S) PS - PAST SHEET	2.
	AC TACH	and the second s	MCC	AT1 - AT2						NS - NEXT SHEET	20
	TACHO F	contraction Municipality	IFC	TC - TC						TS - THIS SHEET	20
	TACHO V					HENCE (PS	- 12) I	DENOTES	S LOCATI	ION ON PAST SHEET LINE 12. OTHER LOCATIONS	ARE
	24-64vd	lc	and the second designed to the second designed as the second designe	NT-NT1 PT - P				NUMBER	R AND LI	INE? E.G. (1A16) SIGNIFIES LOCATION ON SHEE	T
	27-71va	and the same		NT-NT1 PT - P' NT-NT2 PT - P'	Concernance of the second s	1A, LINE	16 ETC.			T DIDID POPPOR PONICICADA - MUR *	
	66-177			$\frac{NT-NT2}{NT-NT2} PT - P'$				NO		T FIELD EFFECT TRANSISTOR: THE * DSED/OPEN (I/O) STATE OF THESE	20
		-+		NT-NT3 PT - P	And the second se					ITCHED FOR "PRECONDITION" - "RUN"	
1	110-300									JOG" - "DIAGNOSTIC STATIC" -	29
	G134 G2		-	NT-NT3 PT - P' MFC OR MFE	12					IAGNOSTIC RUN" IS SHOWN BY A	
	G134 G2		1000	NONE					FO	UR DIGIT WORD WITH STATE SEQUENCE.	30
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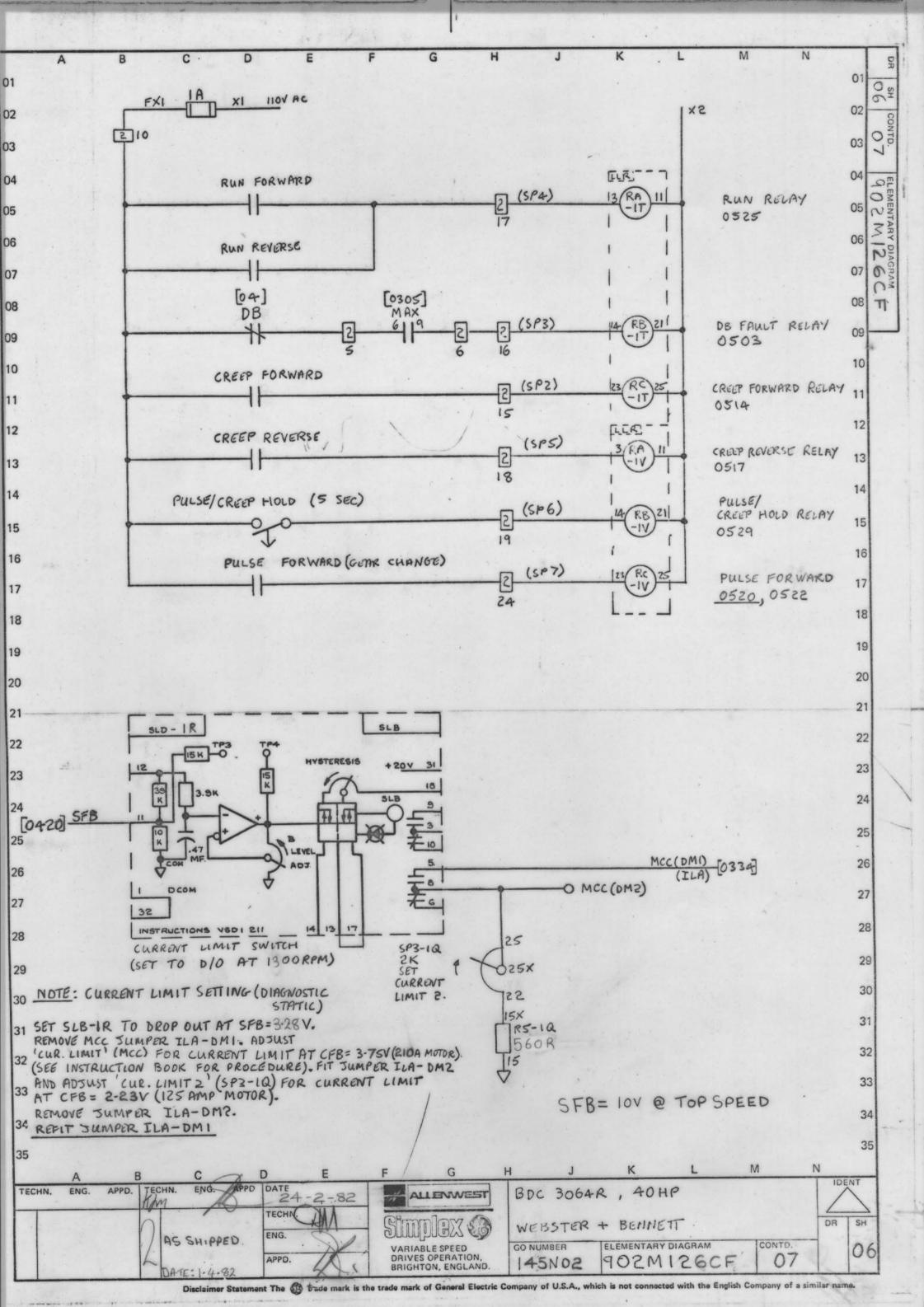
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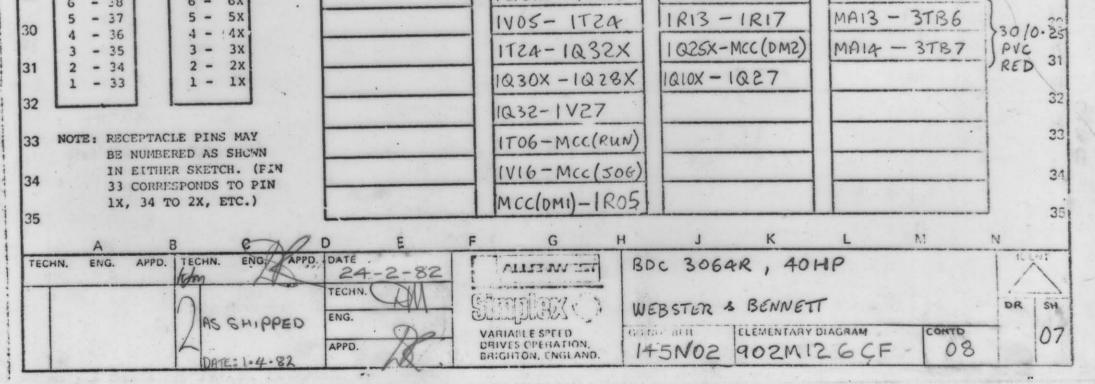


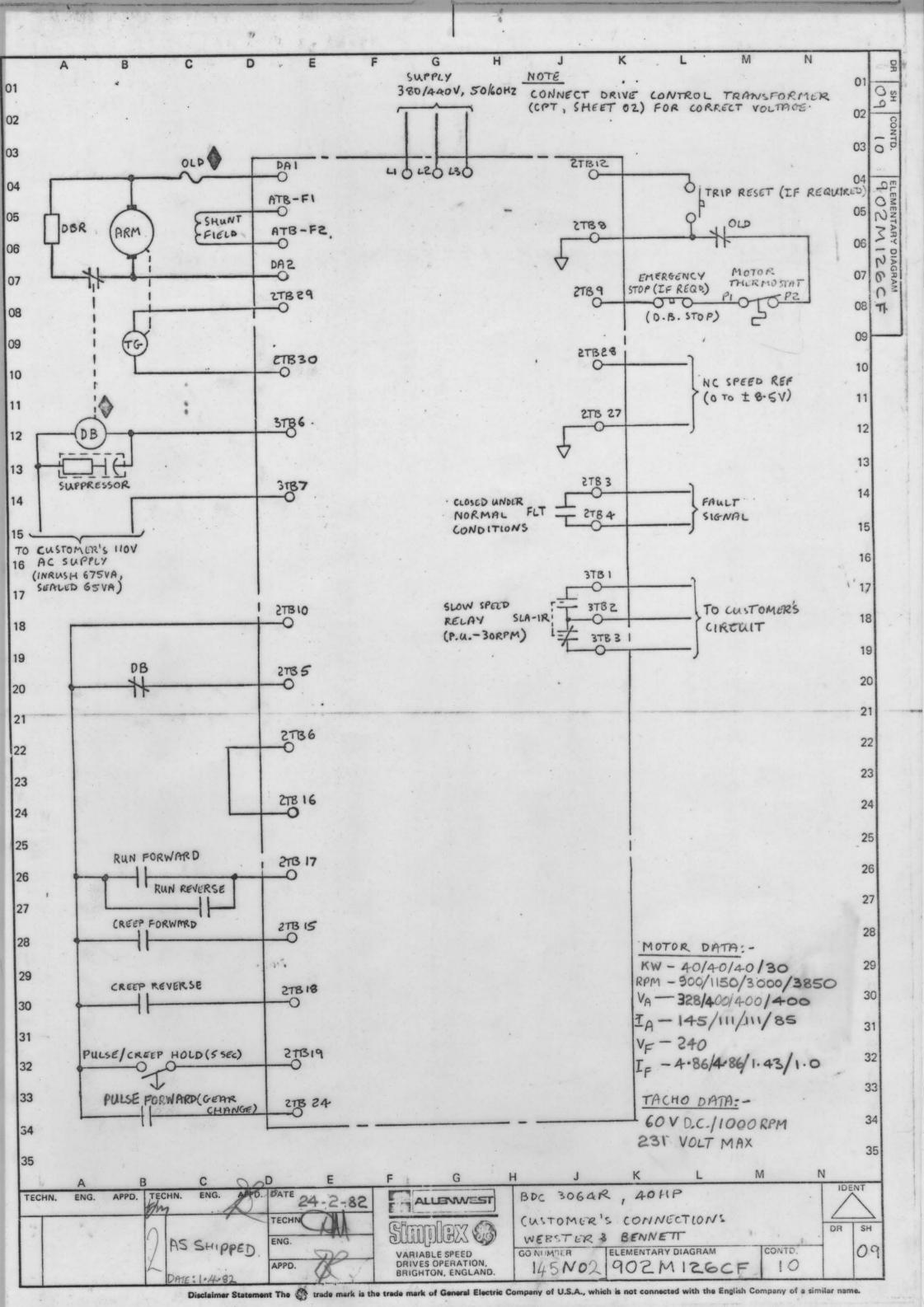


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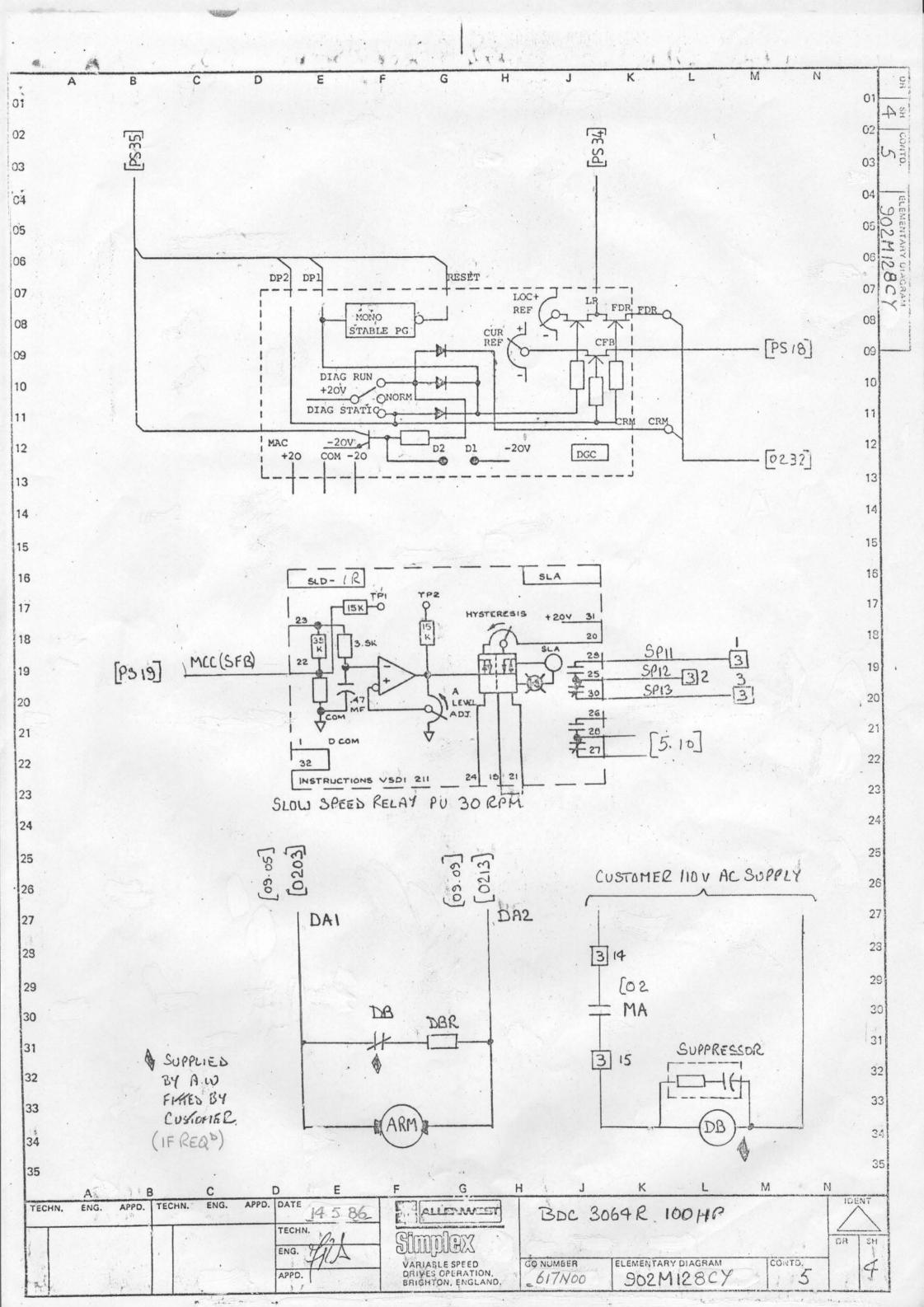


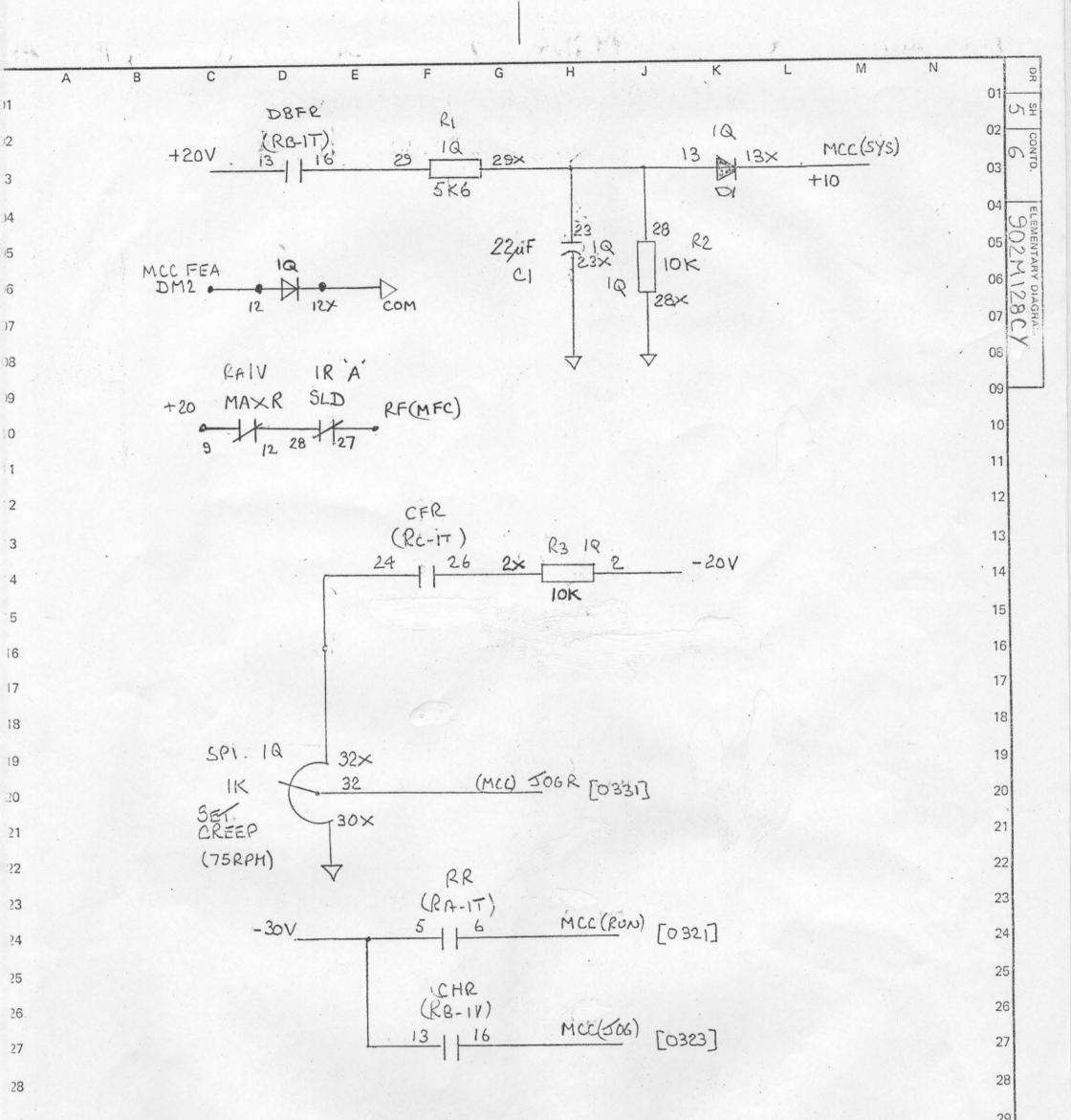
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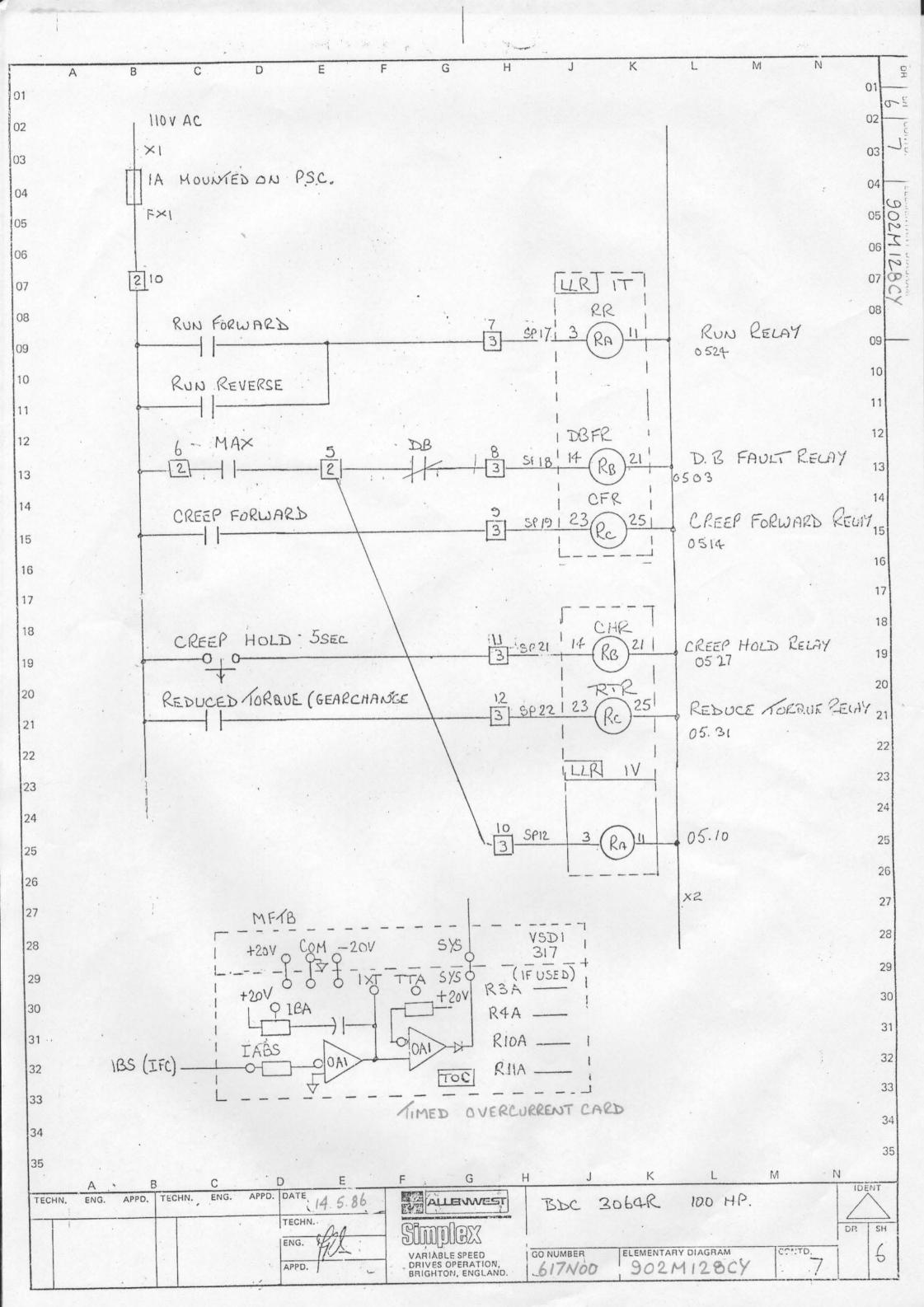
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	PSC SCR			ASSEMBLY				CMF		ABSOLUTE V					9
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	MFC	MOT	OR FIEL	LD CONTROL				* DR		DRIVER REF					3
06	MFE			DEXCITER				* EAO		ERROR AMP					06
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08	SYMBOLS	5	AMPI	LIFIERSVI				FDR		FIELD DIAG			B 08)		08
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10	$VO = \frac{-R_2}{R_1}$	vi vi		$VO = \left(1 + \frac{R2}{RI}\right)$	VT			ILA IME		CURRENT LI CURRENT SI					10 -
10	R			RI /				* IPU		INITIAL PU					
11	1	CASE	GROUNI	0				* LR		LOCAL REF.					11
	VICIV							* JOG		JOG SWITCH JOG REFERE					
12	ABS	<u>vo</u> =	SIGN	() X ABSOLUTE	VALUE OF	VI		* JOG * MAC		MAX/MA CON			0)		12
	•	STAB	ON TEL	RMINAL				MSW		MODE SWITC			<i></i>		
13	-							* OSC		OSCILLATOR					13
				г 2тв, 3тв, 4				* PCR		PHASE CONT					
14		EX:	9 [2] -	2TB9; X2 R	- RTBX2			* PRE		DRIVE PREC PHASE SEQU					14
12300	0	TERM	INAL A	T T.B.'s				ØSE RER	100	REGULATOR					
15	F. 1	DOTT	NITTONE					RIJ		INTEGRATOR			N (3 27)		15
	12			TER ARROWS ON DIAGRAMS IND				RJ		REGULATOR					
16	0			CTION AS THE		TER		RRA		REGULATOR		E ADJUST	(330)		16
				OTATED CLOCKW	ISE TO INC	REASE		* RTR		RESET (3 1 READY TO R		5)			
17		FUNC	TION.					* RUN		RUN SWITCH					17
		THES	E REST	STORS ARE CRI	MPED IN WI	RE		* SA-		PHASE SYN					
18			ESS.	STORE HALL CHI				* SFB		SPEED FEED			101		18
								* SR	r	SPEED SIGN SYSTEM REF					
19	FUNCT	ION US	E LOC	JUMPERS				* SYS		SYSTEM FAU			231		19
	60HZ		MEC	ZA-ZB (IF US	ED)			* TA		OUTPUT FOR			ST (3 20)	,	
20								TF		TACHO FAUL					20
21	50HZ		MCC	HZA - PHA				* TFB		TACHOMETER			13 1 21		
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22		008 -		I-ILO				* VFB		VOLTAGE FE					22
22	SR5 -	9v >	×	NONE)				* WFR		WEAK FIELD	REFEREN	NCE (3 20)		22
23		200	MCC	SRH - COM				1 +	mpon o	OTHE ON DOC	D DDCIN				23
	JOGR			(NONE)				(TEST P	OINT ON DOC	DR FRONT)			23
24			× MCC	JH - COM											24
	LT.3-		-	(NONE)	T TO CON			MAT	PINC	SYSTEM					
25	Z = 6 VREG	Osec 2		3329 FROM LT				- dil	1 1110 2	TOTEN					25
	DC TA		<	(NONE)				(NS	PS/TS	5) PS - 1					
26	AC TA	CHO		AT1 - AT2							NEXT SH				26
	TACHO		IFC	TC - TC							THIS SH				
27	TACHO 24-64		IFC	NT-NT1 PT -	PTI					ON ON PAST					2/1
1	27-71	vac	IFC	NT-NT1_PT	PTL		BY SHEET 16 ETC.	NOMBER	AND LI	NE? E.G. (1A16) SI	IGNIFIES	LOCATION	ON SHE	E.L.
28	60-16			NT-NT2 PT -	the second se	TA' LINE	TO BIC.	NOT		FIELD EN					28
	66-17			NT-NT2 PT -	Careford and the second se					SED/OPEN ()					4
29		oovde -		NT-NT3 PT -						TCHED FOR '					29
	120-3	the second se		NT-NT3 PT -	PT3					JOG" - "DIA AGNOSTIC RU					~
30	G134	1-7	Province and	MFC OR MFE		-				IR DIGIT WOR					30

31 32 33 34 35	4.0 8.0 (7.0 13 213 1 25 L/R<.25S INH RUN INH DRV CL FUSELESS 175%/100 SCL	$\begin{array}{c} MF YA-YB, \\ MF YA - YC, \\ MF YA-YC, \\ MFC QA - QB \\ DGC D1-D2 () \\ MCC DC1 - C() \\ ACC CFY - C) \\ MCC DCX - \\ \end{array}$	YB-YD IF USED) OM FX DeY.						31 32 33 34 35
TECHN.	A B ENG. APPD. TEC	C IN. ENG. APPO	D E DATE 14. 5. 86	F G	H J BDC 30	K 1001	M	N	NT
			TECHN. ENG.	VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.	and the second	(WICKMAN B ELEMENTARY DIAGR 902M128	ENNETT)	-	SH

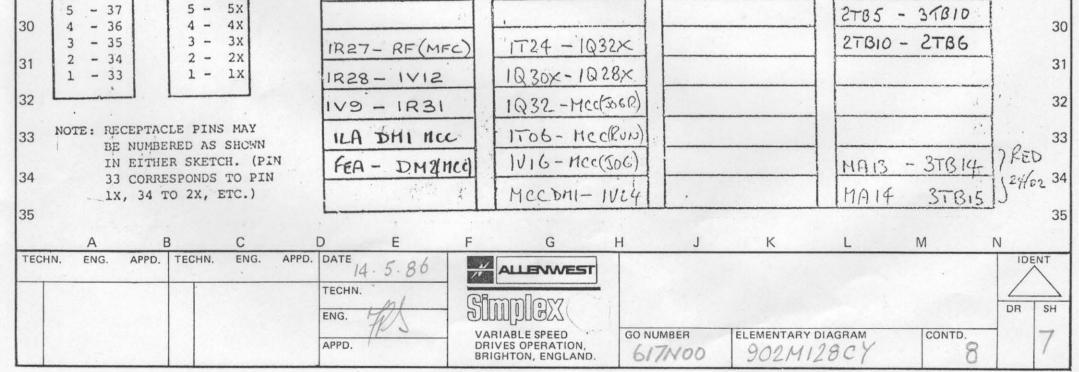


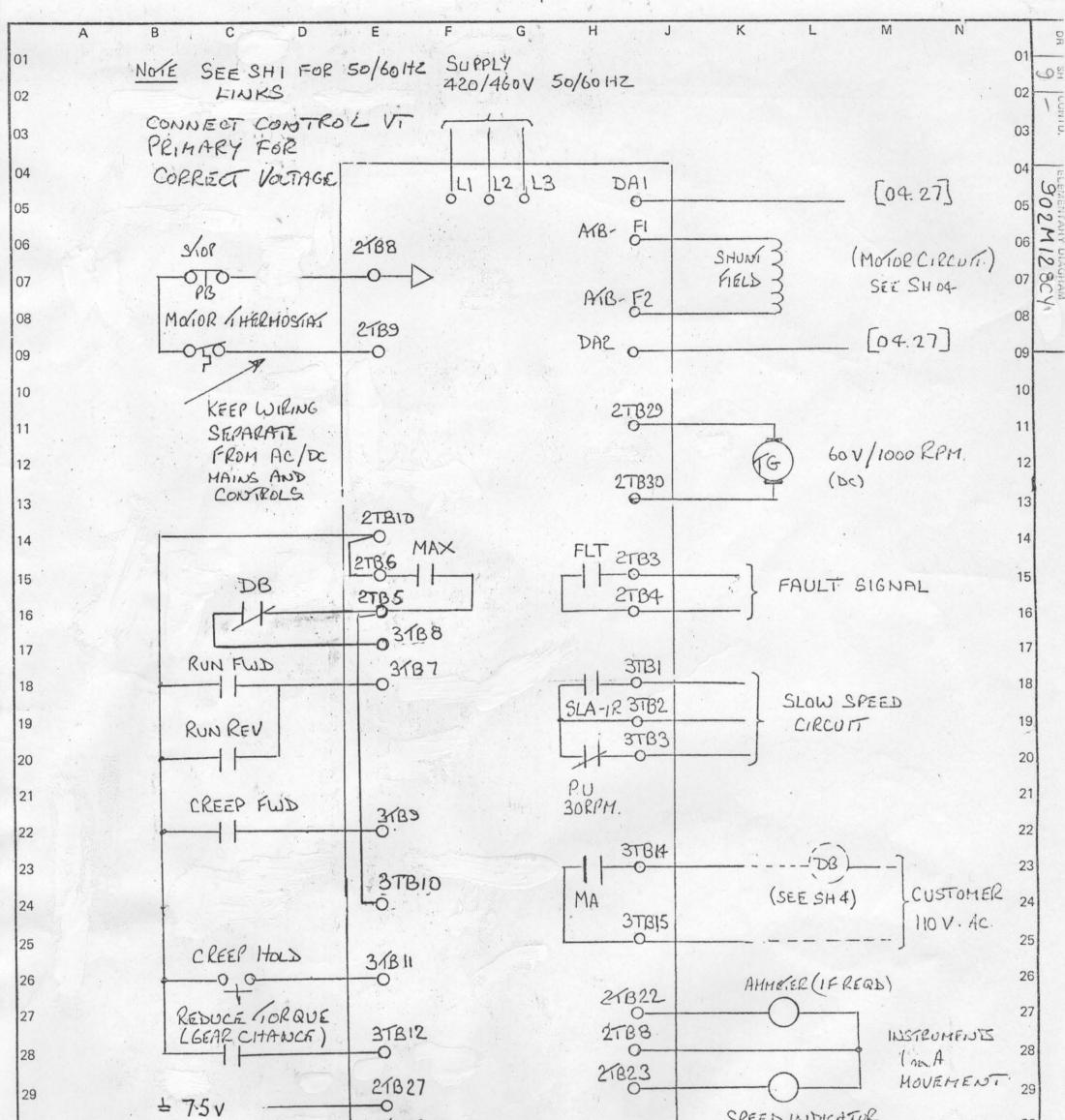


29	RTR	29
30	(Rc-IV)	30
31	[0334] (MCC)DM1 24 26 15x 19 15	31
32	ILA 47R5	32
33	REDUCED CURRENT LIMIT	33
34	APPEDX 10% WHEN NORMAL CURRENT LIMIT SET TO 150%	34
35		35
1.1.1.1	A B C D E F G H J K L M N	
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ETC., ARE DIRECTLY INTERCHANGEABLI	E AND MAY BE SUPPLIED	IN PLACE OF THE 'AA'	CARDS.			
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IN RACK CLOSED POSITION.	C TEST P	POST V P	OT ADJUSTMENT	C INDICA	TING LIGHT	•
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31 - 63 30 - 62 30 - 30X	0/0 00 1000	1				
29 - 61 29 - 29X 28 - 60 28 - 28X	Provide the second seco	MCC(SHS) - THEL	11/20 - 10	215×		
	11002 - 1802	1010 -1821			- 1029	•
27 - 59 27 - 27x 26 - 58 26 - 26x	1202 - 1802	1213 - 1221 HCC (DH2)-1212	1V25 - 1V 1V21 - 1V	21 SPIL	- 1R29 - 1R25	
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27 - 59 27 - 27x 26 - 58 26 - 26x 25 - 57 25 - 25x	R/B Con - 10,15	HCC (DH2)-11212	1V25 - 1V 1V21 - 1V	21 SP 11 11 SP12 11 SP13	- 1R25	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		Hec (briz)-1212 1.012X-1023X	1V2S - 1V 1V21 - 1V 1V11 - 1T	21 SP 11 11 SP 12 11 SP 13 21 SP 14	- 1R25	•
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	RIB COM - 1Q15 1Q15 - 1R15 RIB+20 - 1Q31	Hec (br12)-11212 122X-1223X 1231 - 1713 1716 - 1229 1229x - 1228	$\frac{1V2S - 1V}{1V21 - 1V}$ $\frac{1V11 - 1T}{1T11 - 1T}$	21 SP 11 11 SP 12 11 SP 12 11 SP 13 21 SP 14 125 SP 15 SP 15 SP 15 SP 15 SP 17 -	- 1R25 1R30	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	RIB COM - 1Q15 1Q15 - 1R15 RIB+20 - 1Q31	$\frac{Hcc (DH2) - 1Q12}{1Q12X - 1Q23X}$ $\frac{1Q12X - 1Q23X}{1R31 - 1713}$ $\frac{1716 - 1Q29}{1Q29X - 1Q28}$ $1Q28 - 1Q23$	$\frac{1V2S - 1V}{1V21 - 1V}$ $\frac{1V11 - 1T}{1T11 - 1T}$ $\frac{1T11 - 1T}{1T21 - 1T}$	21 SP 11 11 SP 12 11 SP 12 11 SP 13 21 SP 14 125 SP 14 SP 15 SP 15 SP 15 SP 15 SP 16 SP 17 SP 18 	- 1R25 1R30	
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	RABCOM - 1015 1015 - 1015 RAB+20 - 1031 1031 - 1031 RAB-30 - 105 1705 - 113	$\frac{Hcc (bm2) - 1@12}{1.0023 \times - 1.023 \times 1.023}$ $\frac{1R31 - 1713}{1716 - 1.029}$ $\frac{1029 \times - 1.028}{1.028 - 1.023}$ $\frac{1028 \times - 1.023}{1.028 \times - 1.023}$ $\frac{1028 \times - 1.023}{1.023 \times - 1.015}$	$\frac{1V2S - 1V}{1V21 - 1V}$ $\frac{1V11 - 1T}{1T11 - 1T}$ $\frac{1T11 - 1T}{1T21 - 1T}$	21 SP 11 11 SP 12 11 SP 13 21 SP 14 125 SP 15 SP 17 SP 12 SP 14 SP 12 SP 14 SP 12 SP 14 SP 14 SP 12 SP 14 SP 14 SP 15 SP 20 SP 20 SP 21	- 1R25 1R30 - IT 3 - IT 14 - IT 23 - IV 3	
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FRONT VIEW OF 64 PIN RECEPTACLE AS SEEN IN RACK CLOSED POSITION. 32 - 6431 - 6332 - 30X29 - 6130 - 30X29 - 29X $RECEPTACLE AS SEENIN RACK CLOSEDPOSITION.RECEPTACLE AS SEENIN RACK CLOSEDPOSITION PARTING POSITION PA$	DN PRIVTED CIRCUIT CARDS USED IN THIS RACK THE LETTERS 'AA' AFTER BASIC CATS SUBSEQUENT DESIGNS WITH THE SAME BASIC NUMBERS AND GROUP NUMBER WITH THE SAME SUBSEQUENT DESIGNS WITH THE SAME BASIC NUMBERS AND GROUP NUMBER WITH THE SAME SUBSEQUENT DESIGNS WITH THE SAME BASIC NUMBERS AND GROUP NUMBER WITH THE SAME SUBSEQUENT DESIGNS WITH THE SAME BASIC NUMBERS AND GROUP NUMBER WITH THE SAME SUBSEQUENT DESIGNS WITH THE SAME BASIC NUMBERS AND GROUP NUMBER WITH THE SAME SUBSEQUENT DESIGNS WITH THE SAME BASIC NUMBERS AND GROUP NUMBER WITH THE SAME SUBSEQUENT DESIGNS WITH THE SAME BASIC NUMBERS AND GROUP NUMBER WITH THE SAME SUBSEQUENT DESIGNS WITH THE SAME BASIC NUMBERS AND GROUP NUMBER WITH THE SAME SOME CARDS CONTAIN PARTS, WHICH WILL BE THERMALLY HOT AFTER DUSING IN OPERATINALL CARDS AFTER REMOVAL UNTIL THESE PARTS HAVE COOLED. DO NOT REMOVE OR INSENDERSITION. FRONT VIEW OF 64 PIN SYMBOLS: RECEPTACLE AS SEEN SYMBOLS: IN RACK CLOSED TEST POST POSITION. SIZ - 32X SIZ - 64 SIZ - 32X SIZ - 64 SIZ - 32X SIZ - 64 SIZ - 32X SIZ - 62 SIZ - 32X	ON PRINTED CIRCUIT CARDS USED IN THIS RACK THE LETTERS 'AA' AFTER BASIC CATOLOGUE NUMBER IN SUBSEQUENT DESIGNS WITH THE SAME BASIC NUMBERS AND GROUP NUMBER WITH THE SECOND LETTER CHADER CONSEQUENT DESIGNS WITH THE SAME BASIC NUMBERS AND GROUP NUMBER WITH THE SECOND LETTER CHADER CONSEQUENT DESIGNS WITH THE SAME BASIC NUMBERS AND GROUP NUMBER WITH THE SECOND LETTER CHADER CONSEQUENT DESIGNS WITH THE SAME BASIC NUMBERS AND GROUP NUMBER WITH THE SECOND LETTER CHADER CONSEQUENT DESIGNS WITH THE SAME BASIC NUMBERS AND GROUP NUMBER WITH THE SECOND LETTER CHADER CONSEQUENT DESIGNS WITH THE SAME BASIC NUMBERS AND GROUP NUMBER WITH THE SECOND LETTER CHADER TO CARDS CONTAIN PARTS, WHICH WILL BE THERMALLY HOT AFTER BUING IN OPERATION. CARE SHOULD ALLY CARDS AFTER REMOVAL UNTIL THESE PARTS HAVE COOLED. DO NOT REMOVE OR INSERT CARDS WITH THE CARD SATER REMOVAL UNTIL THESE PARTS HAVE COOLED. DO NOT REMOVE OR INSERT CARDS WITH THE SECONT VIEW OF 64 PIN RECEPTINCLE AS SEEN IN MACK CLOSED POSTION. SYMBOLS: O TEST POST POT ADJUSTMENT FRONT VIEW OF 64 PIN RECEPTION. SYMBOLS: O TEST POST POT ADJUSTMENT SYMBOLS: O TEST POST POT ADJUSTMENT POT ADJUSTMENT 32 - 64 32 - 32X CAND RACK WIRE JUMPER TABLE 1////////////////////////////////////	Image: Strate in the same basic numbers and card of the strate of the second letter chances, such as: 1 Subsequent designs with the same basic numbers and card of number within the second letter chances, such as: 1 Subsequent designs with the same basic numbers and card of number within the second letter chances, such as: 1 Subsequent designs with the same basic numbers and card of number within the second letter chances, such as: 1 Subsequent designs with the same basic numbers and card of number within the second letter chances, such as: 1 Subsequent designs with the same basic numbers and card of number within the second letter chances, such as: 1 Subsequent designs with the same basic numbers and card of number within the second letter chances, such as: 1 Subsequent designs with the same basic numbers and card of number within the second letter chances, such as: 1 Subsequent designs with the same basic numbers and card of number within the second letter chances, such as: 1 Subsequent designs with the same basic numbers and card of numbers within the second letter chances of the number of the second letter chances of the second letter chance of the second letter chances of th	NN PRINTED CIRCUIT CARDS USED IN THIS RACK THE LETTERS 'AA' AFTER BASIC CATOLOGUE NUMBER INDICATES ORIGINAL DESIGN. SUBSEQUENT DESIGNS WITH THE SAME BASIC NUMBERS AND GROUP NUMBER WITH THE SECOND LETTER CHANGED, SUCH AS: AS, AC, AD, TC., ARE DIRECTLY INTERCHANGEABLE AND MAY BE SUPPLIED IN PLACE OF THE 'AA' CARDS. THE PRINTED CIRCUIT CARD SHOULD ALWAYS BE REMOVED WITH THE CARD EXTENCTOR WITH IS SECOND LETTER CHANGED, SUCH AS: AS, AC, AD, TC., ARE DIRECTLY INTERCHANGEABLE AND MAY BE SUPPLIED IN PLACE OF THE 'AA' CARDS. THE PRINTED CIRCUIT CARD SHOULD ALWAYS BE REMOVED WITH THE CARD EXTENCTOR WITH IS ATTACHED ON TOP OF THE CARD FACK. SOME CARDS CONTAIN PARTS, WHICH HILL BE THERMALLY HOT AFTER BEING IN OPERATION. CARE SHOULD DE EXERCISED IN HANDLING ALL CARDS AFTER REMOVAL UNTIL THESE PARTS HAVE COOLED, DO NOT REMOVE OR INSERT CARDS WITH POKER APPLIED. FRONT VIEW OF 64 PIN RECEPTIACLE AS SEEN IN RACK CLOSED TEST POST OF ADJUSTMENT (A DIMENTING LIGHT



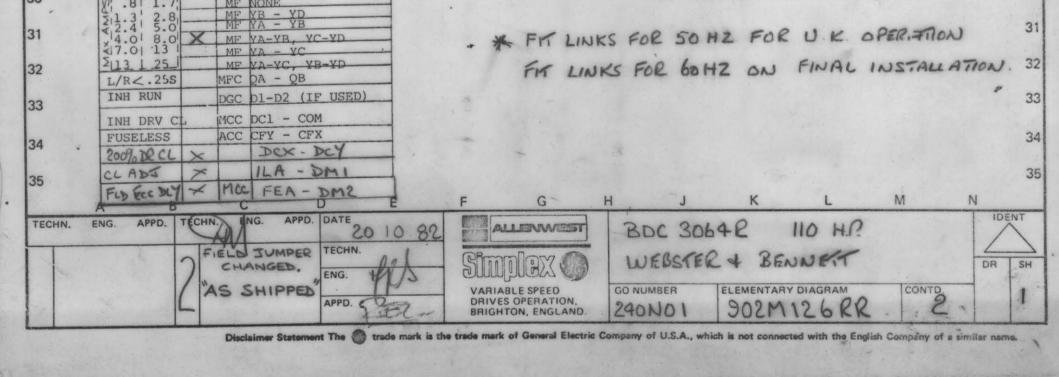


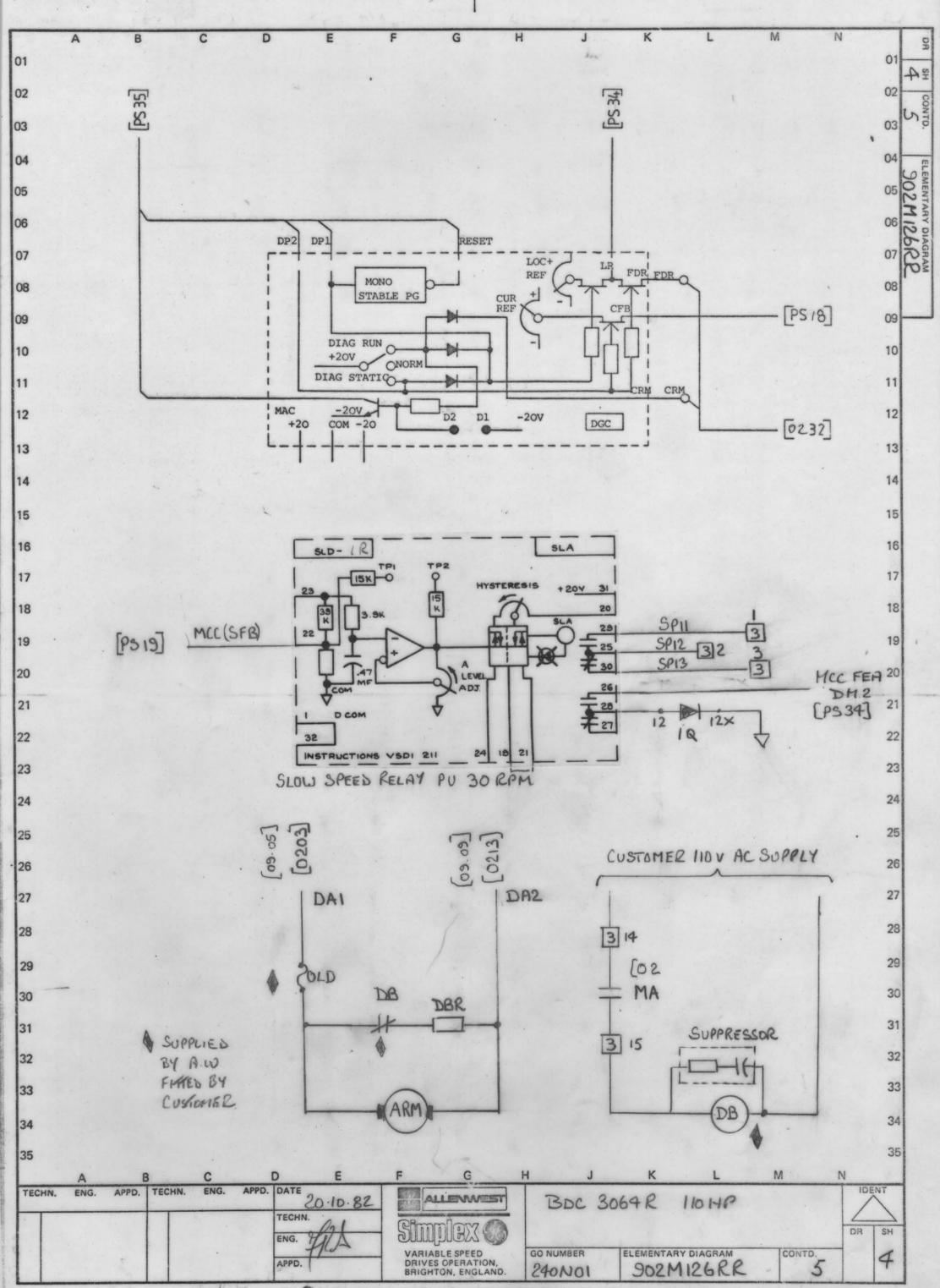
SPEED IN DICATOR 24B 28 30 N.C REF. 30 (IF REQL) -0 31 31 32 32 HOIOR DAIA HP. 33 33 VA VF IA. RPM 34 34 I. 35 35 M G К L N D E F H С В A IDENT ENG. APPD. DATE TECHN. TECHN. ENG. APPD. ALLEWEST 3064 R 100 NP 5.86 BDC 4 TECHN. S DR SH ENG. ELEMENTARY DIAGRAM GO NUMBER CONTD. 9 VARIABLE SPEED APPD. DRIVES OPERATION, 617N00 902M128CY BRIGHTON, ENGLAND. Tr Phila.

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LT. 3-7		-	(NONE)						a avann					4
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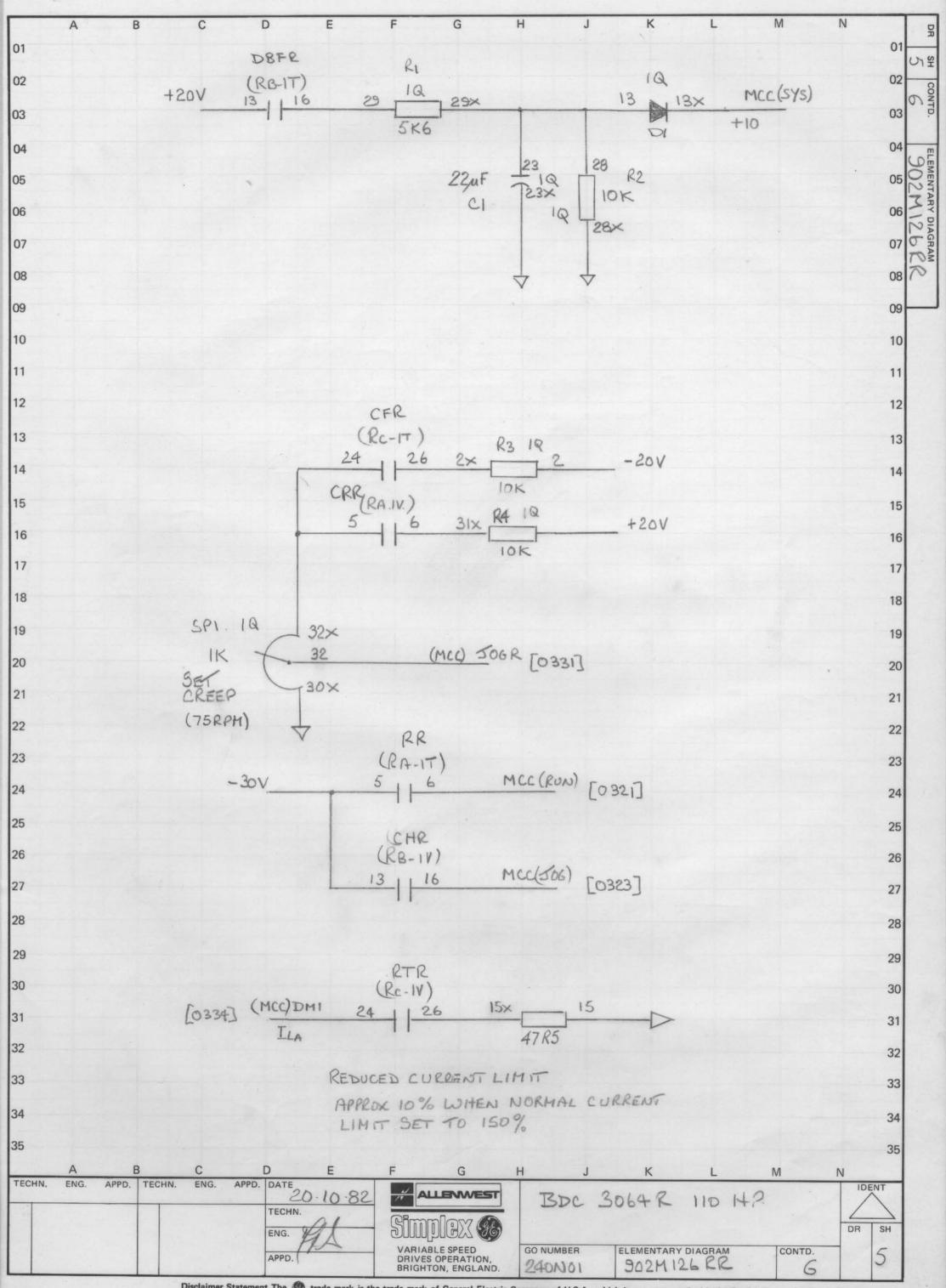
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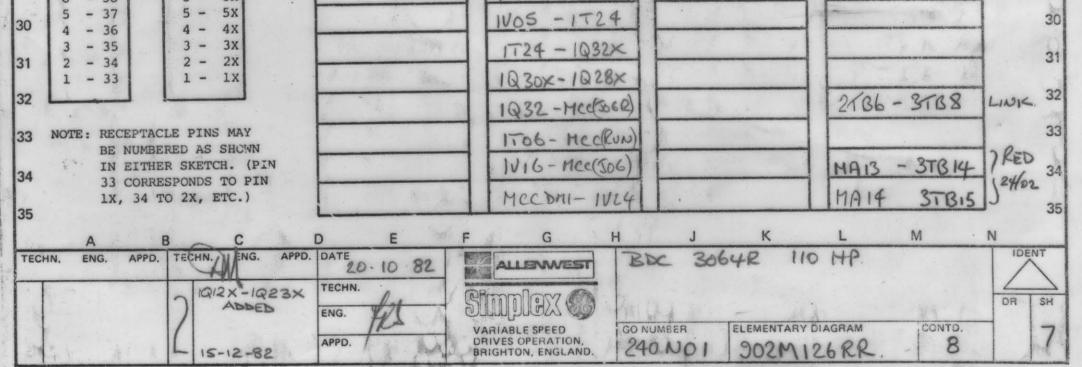


M N D G Н К L В С Ε F J A PR 01 01 HS O 110V AC 02 02 CONTD. XI 03 03 1A MOUNTED ON P.S.C. 04 04 ELEMENTARY DIAGRAM FXI 05 05 06 06 210 LLRTIT 07 07 RR 08 08 RUN FORWARD 7 RUN RELAY SP17 З RA 09 09 0 524 10 10 RUN REVERSE 11 11 DBFR 12 MAX 12 DB 6 5 200 D. B FAULT RELAY 14 SP18 21 6 19 2 RB 13 13 0503 CFR 14 14 CREEP FORWARD CREEP FORWARD RELAY 15 3 23 25 SP191 3 15 0514 16 CREEP REVERSE 16 10 CREEP REVERSE RELAY 3 11 SP20 RA 3 17 17 0516 CRR 18 CHR 18 CREEP HOLD SSEC 3 CREEP HOLD RELAY 14 SP21 21 RB 19 0 0 19 05 27 20 20 REDUCED TORQUE (GEARCHANGE 12 REDUCE FORQUE RELAY 21 25 SP 22 23 21 5.31 22 22 ILLR IV 23 23 24 24 25 25 26 26 27 27 28 28 29 29 30 30 31 31 32 32 33 33 34 34 35 35 С D A В E G H F K M N TECHN. ENG. ENG. APPD. DATE APPD. TECHN. IDENT 3064R 20.10.82 ALLENWEST 110 HP. BDC TECHN R DR SH ENG. 0 VARIABLE SPEED GO NUMBER ELEMENTARY DIAGRAM CONTD. 6 APPD. DRIVES OPERATION, BRIGHTON, ENGLAND. 902M126RR 240101

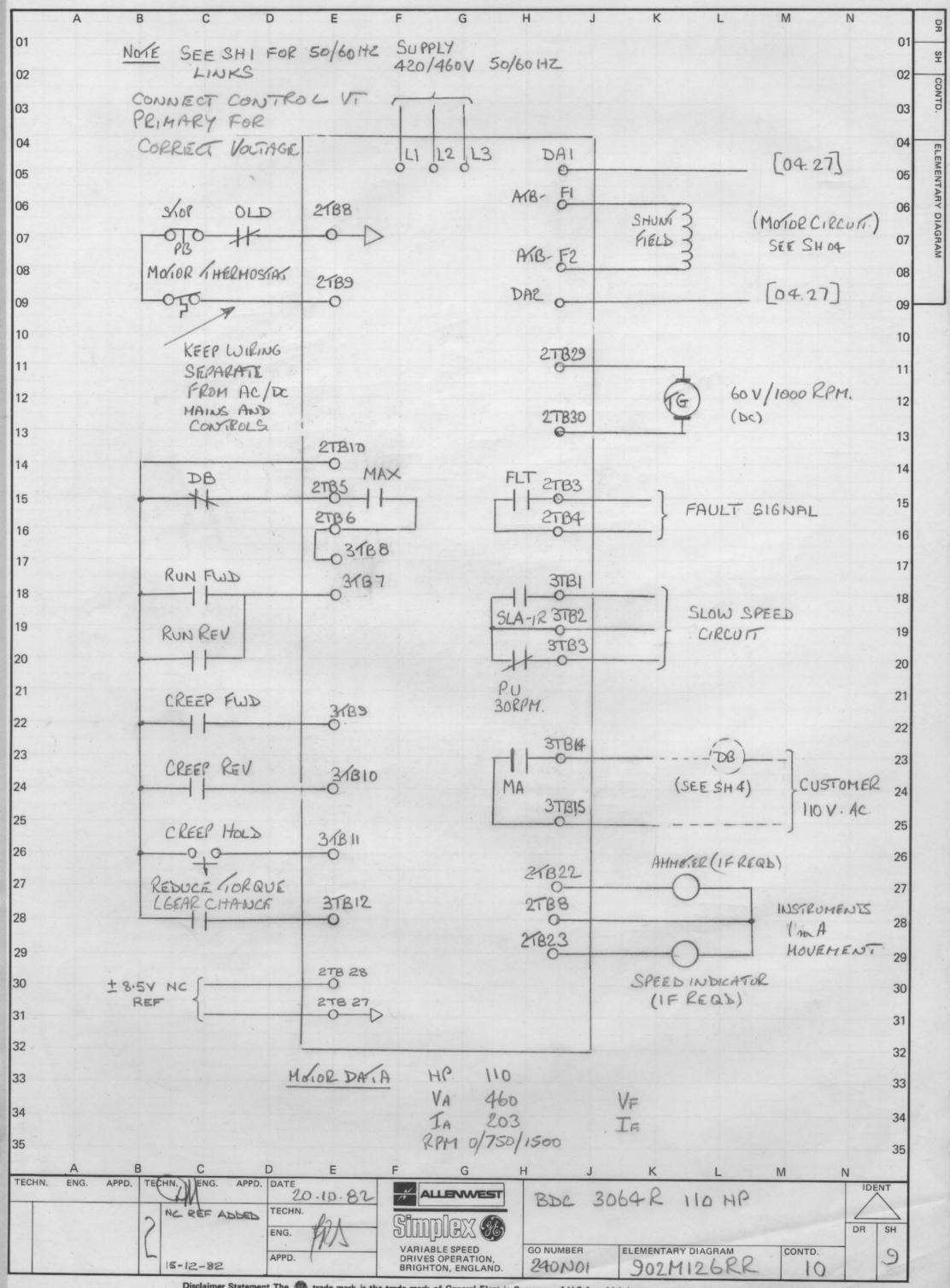
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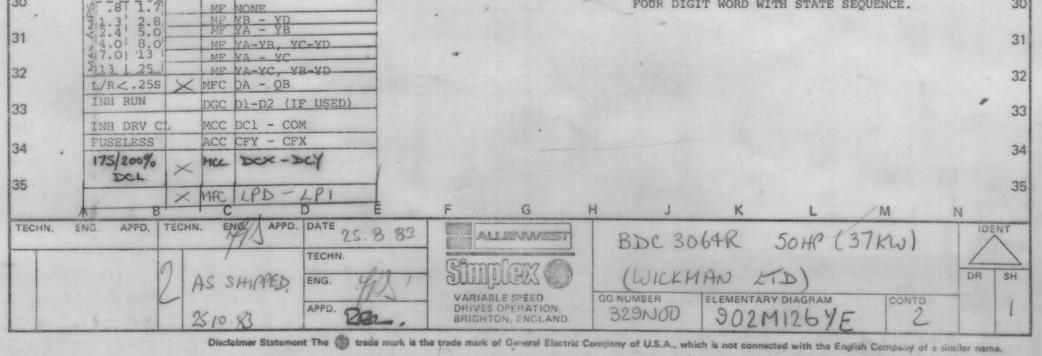


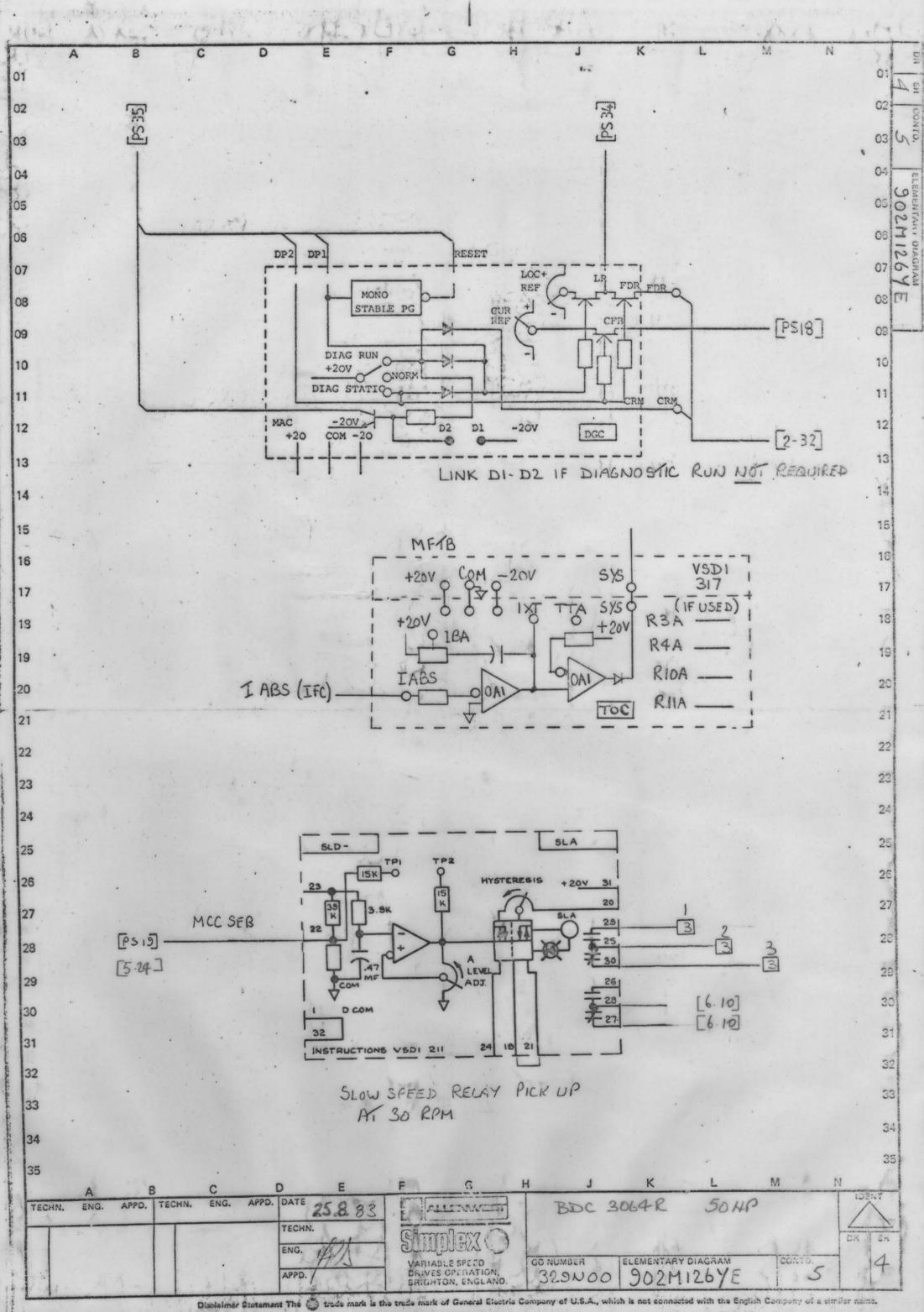
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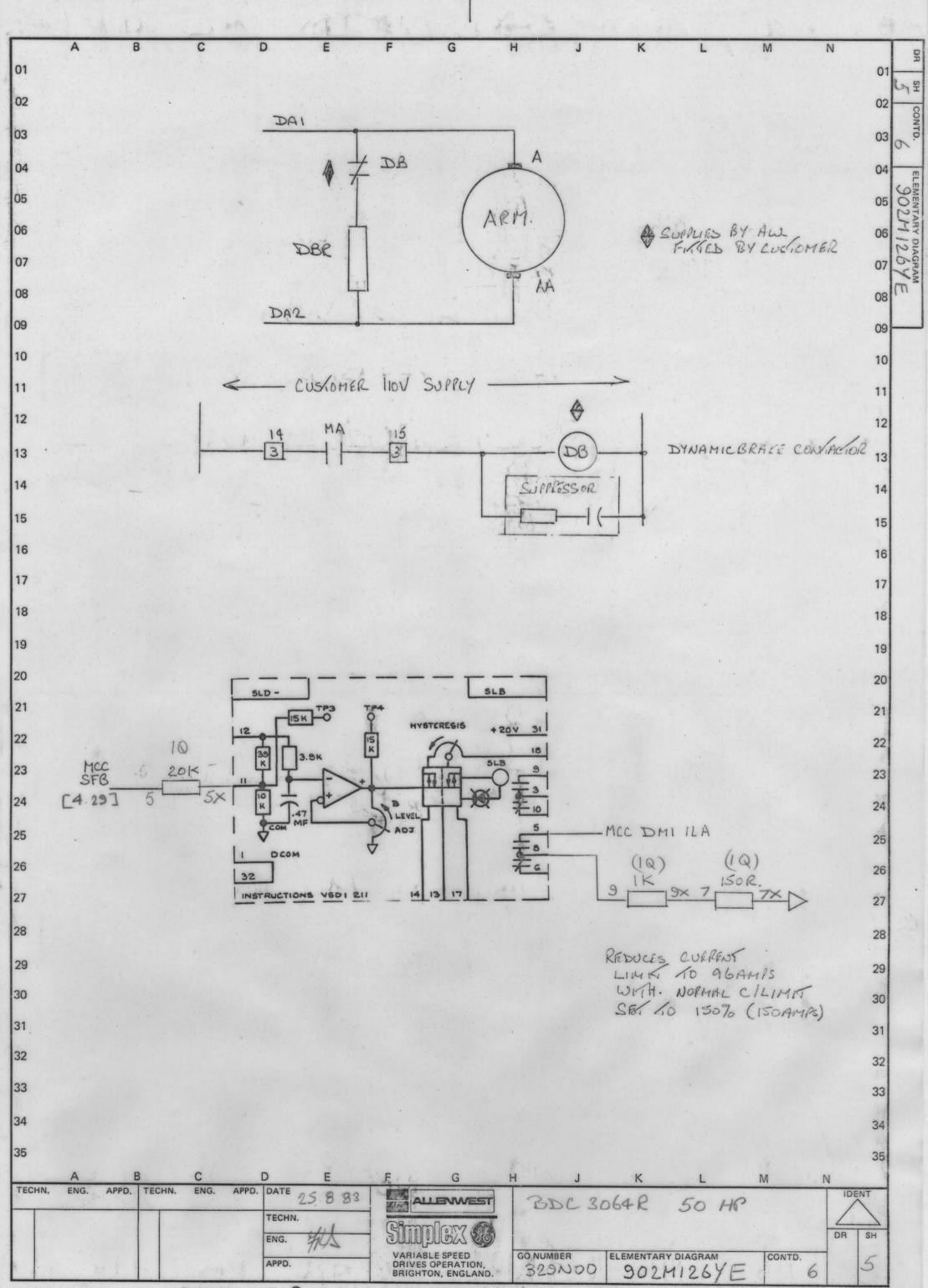
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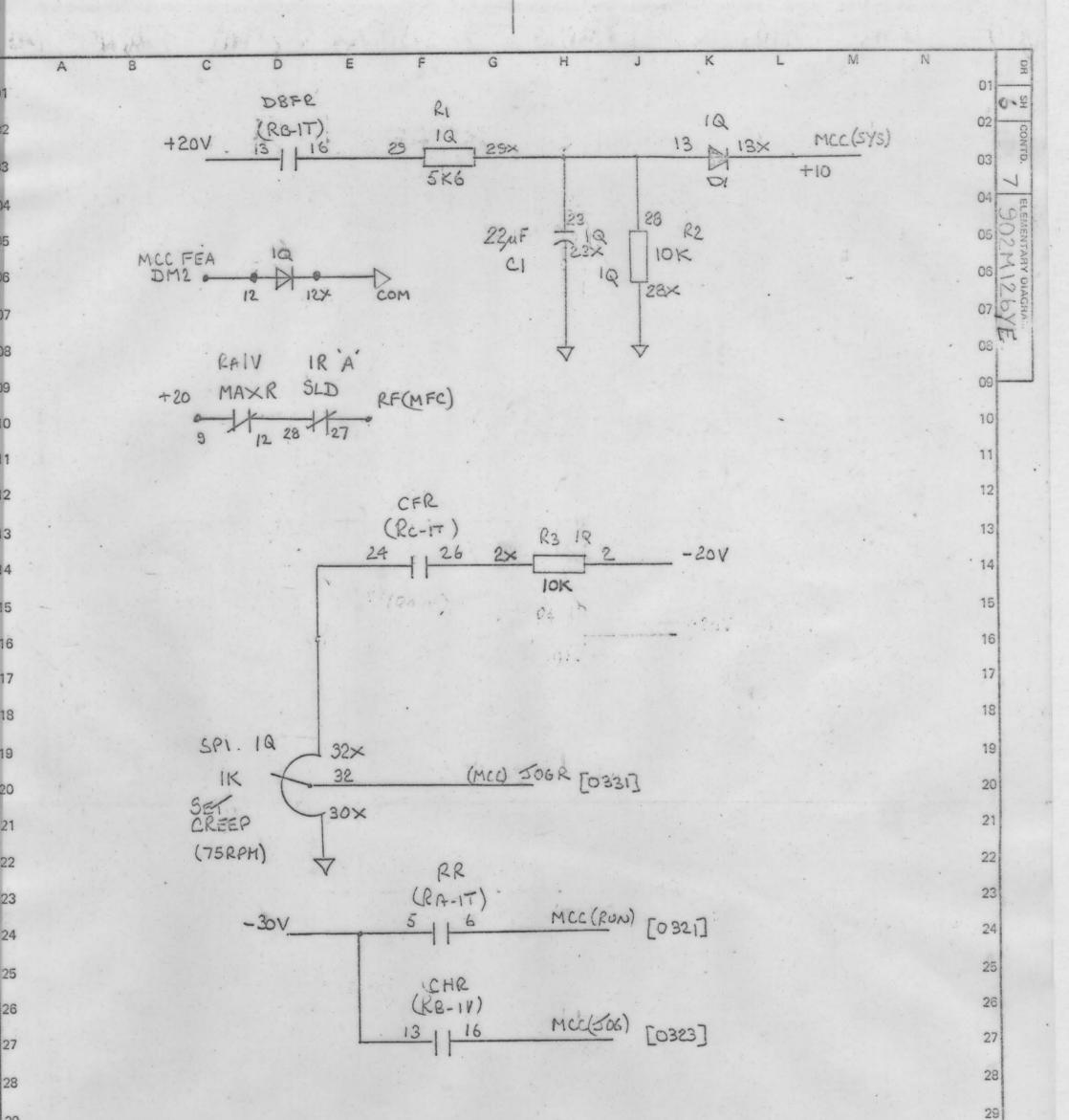
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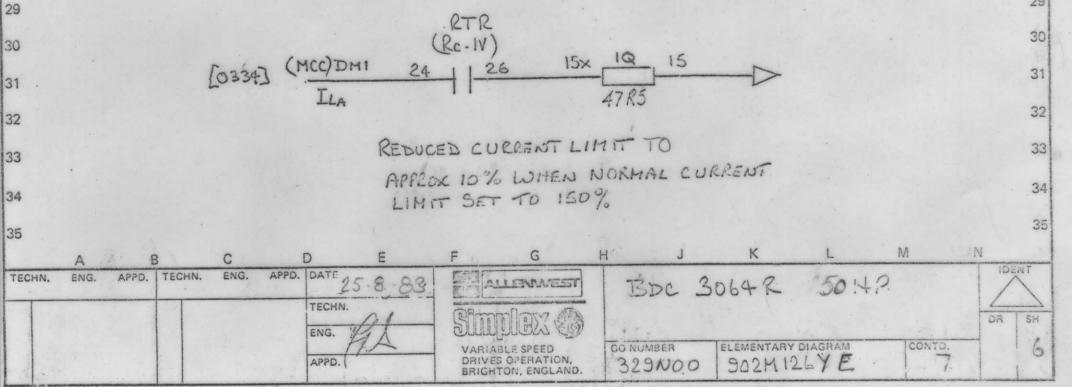


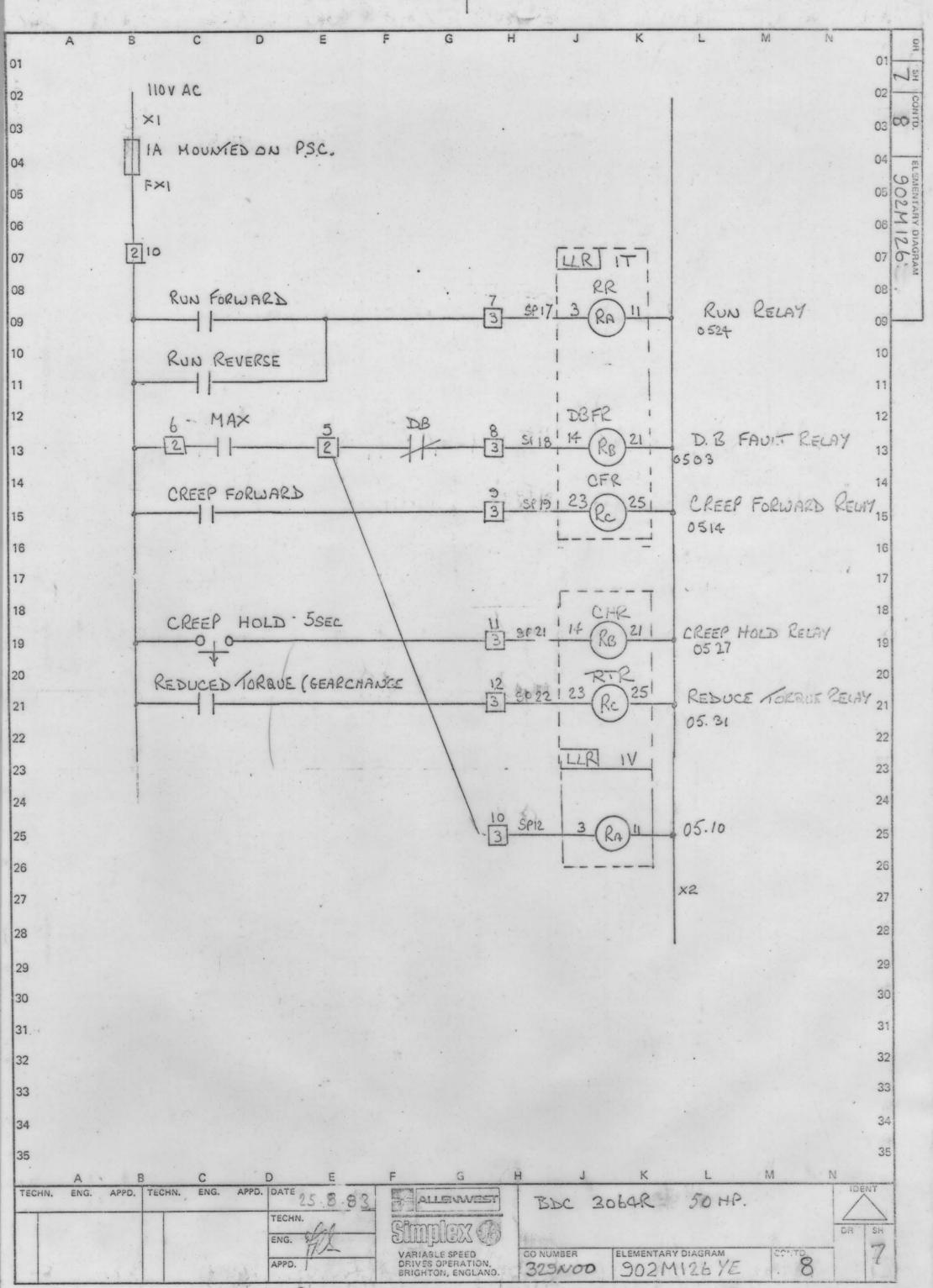




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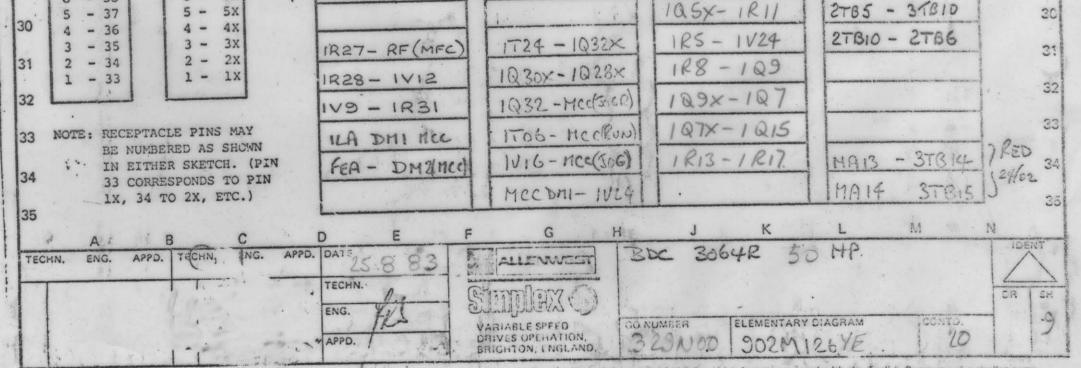




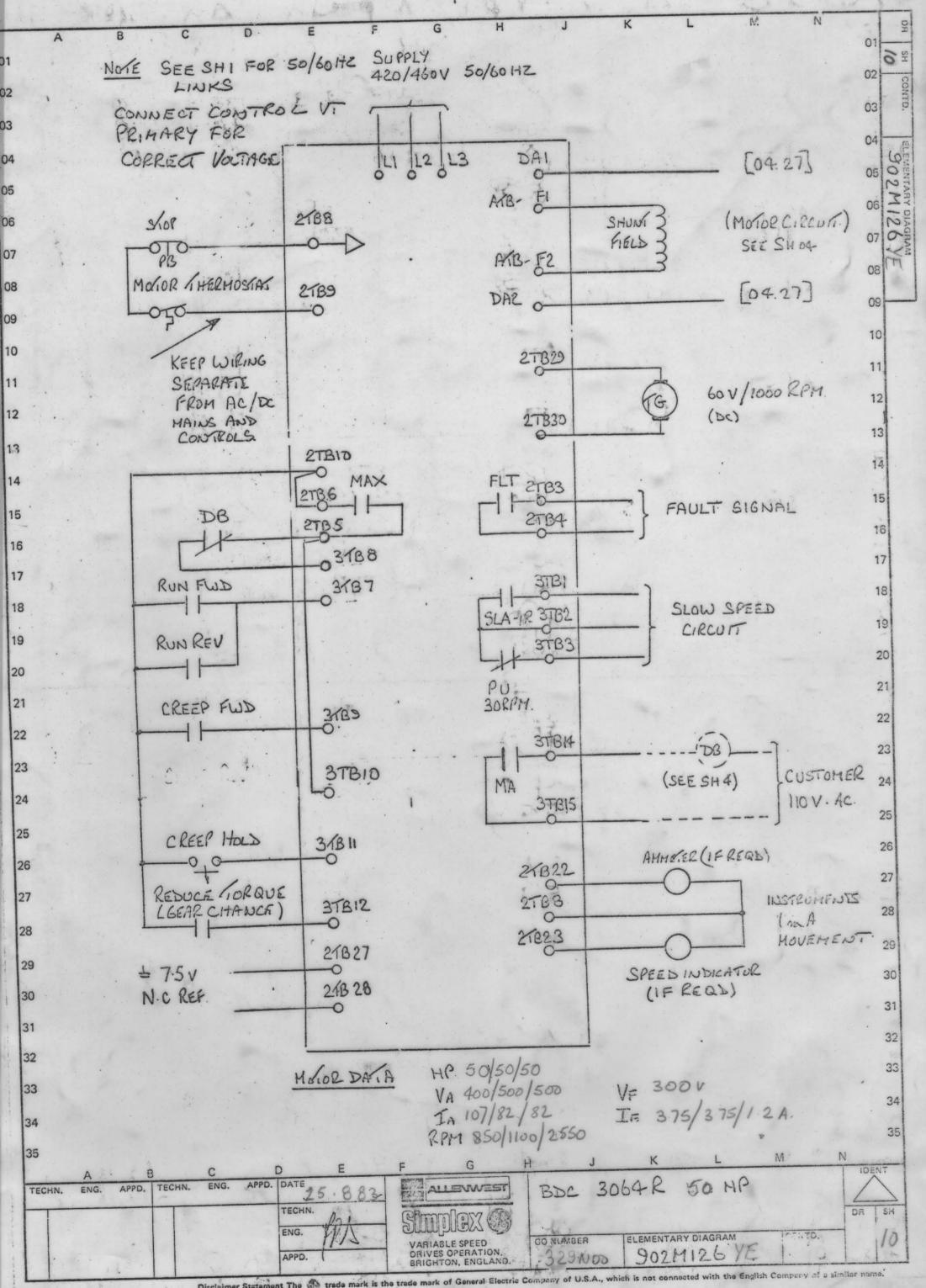


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ON PRINTED CIRC	UIT CARDS USED IN	THIS RACK THE LETTERS	'AA' AFTER BASIC CATO	LOGUE NUMBER INDICAT	ES ORIGINAL DESIGN.	
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THE PRINTED CIR	CUIT CARD SHOULD A	LWAYS BE REMOVED WITH	THE CARD EXTRACTOR WH	ICH IS ATTACHED ON T	OP OF THE CARD RACK.	
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ALL CARDS AFTER	REMOVAL UNTIL THE	LL BE THERMALLY HOT A SE PARTS HAVE COOLED.	FTER BEING IN OPERATIO	N. CARE SHOULD BE EX	ERCISED IN HANDLING	
ALL CARDS AFTER	REMOVAL UNTIL THE	SE PARTS HAVE COOLED.	FTER BUING IN OPERATIO DO NOT REMOVE OR INSE	N. CARE SHOULD BE EX	ERCISED IN HANDLING APPLIED.	
ALL CARDS AFTER FRONT VIEW OF 6 RECEPTACLE AS S	REMOVAL UNTIL THE	SE PARTS HAVE COOLED.	FTER BUING IN OPERATIO DO NOT REMOVE OR INSE	N. CARE SHOULD BE EX	ERCISED IN HANDLING APPLIED.	
ALL CARDS AFTER FRONT VIEW OF 6 RECEPTACLE AS S IN RACK CLOSED POSITION.	REMOVAL UNTIL THE 4 PIN EEN	SE PARTS HAVE COOLED.	FTER BLING IN OPERATIO DO NOT REMOVE OR INSE OST Ø PO	N. CARE SHOULD BE EX RT CARDS WITH POWER	ERCISED IN HANDLING APPLIED.	
ALL CARDS AFTER FRONT VIEW OF 6 RECEPTACLE AS S IN RACK CLOSED POSITION. 32 - 64 31 - 63	REMOVAL UNTIL THE 4 PIN EEN 32 - 32X 31 - 31X	SE PARTS HAVE COOLED. SYMBOLS: TEST P	PTER BLING IN OPERATIO DO NOT REMOVE OR INSE OST OPO CAND RACK WIRE JUMI	N. CARE SHOULD BE EX RT CARDS WITH POWER	ERCISED IN HANDLING APPLIED.	
ALL CARDS AFTER FRONT VIEW OF 6 RECEPTACLE AS S IN RACK CLOSED POSITION. 32 - 64 31 - 63 30 - 52 29 - 61	REMOVAL UNTIL THE 4 PIN EEN 32 - 32X 31 - 31X 30 - 30X 29 - 29X	SYMBOLS: TEST P RIB-20 - 10.02	OST OF PO CARD RACK WIRE JUMI	N. CARE SHOULD BE EX RT CARDS WITH POWER TADJUSTMENT χ VER TABLE $1\sqrt{26} - 1015 \times$	INDICATING LIGHT	
ALL CARDS AFTER FRONT VIEW OF 6 RECEPTACLE AS S IN RACK CLOSED POSITION. 32 - 64 31 - 63 30 - 52 29 - 61 28 - 60 27 - 59	REMOVAL UNTIL THE 4 PIN EEN 32 - 32X 31 - 31X 30 - 30X 29 - 29X 28 - 28X 27 - 27X	SE PARTS HAVE COOLED. SYMBOLS: TEST P	OST OF PO CAND RACK WIRE JUMI MCC.(STG) - 1822	N. CARE SHOULD BE EX RT CARDS WITH POWER TADJUSTMENT X VER TABLE $1\sqrt{26} - 1015 \times 1$ $1\sqrt{25} - 1\sqrt{21}$	INDICATING LIGHT	
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ALL CARDS AFTER 5 FRONT VIEW OF 6 RECEPTACLE AS S IN RACK CLOSED POSITION. 3 $32 - 64$ $31 - 63$ $30 - 62$ $29 - 61$ $28 - 60$ $27 - 59$ $26 - 58$ $25 - 57$ $24 - 56$ $23 - 55$ $22 - 54$ $3 20 - 52$ $4 19 - 51$ $18 - 50$ $17 - 49$ $16 - 48$ $15 - 47$ $26 14 - 46$ $13 - 45$ $27 - 49$ $16 - 48$ $15 - 47$ $14 - 46$ $13 - 45$ $27 - 12 - 44$ $11 - 43$	REMOVAL UNTIL THE 4 PIN EEN 32 - 32X 31 - 31X 30 - 30X 29 - 29X 28 - 28X 27 - 27X 26 - 26X 25 - 25X 24 - 24X 23 - 23X 22 - 22X 21 - 21X 20 - 20X 19 - 19X 18 - 18X 17 - 17X 16 - 16X 15 - 15X 14 - 14X 13 - 13X 12 - 12X 11 - 11X	$\frac{\text{SYMBOLS}:}{\text{©} \text{TEST P}}$ $\frac{\text{R}/\text{B}-20 - 1002}{1002 - 1002}$ $\frac{\text{R}/\text{B}-30 - 1003}{1000}$ $\frac{\text{R}/\text{B}-30 - 1003}{1000}$ $\frac{\text{R}/\text{B}-30 - 1003}{1000}$	FTER BEIING IN OPERATIO DO NOT REMOVE OR INSE OST O PO CARD RACK WIRE JUME MCC (576) - 1822 1819 - 1821 MCC (576) - 1822 1819 - 1821 MCC (576) - 1822 1823 - 1823 1831 - 1713 1716 - 1823 1831 - 1713 1716 - 1823 1829 - 1825 1829 - 1825	N. CARE SHOULD BE EX RT CARDS WITH POWER TADJUSTMENT X VER TABLE $1V26 - 1015 \times 1025 \times 1025 - 1021$ 1021 - 1011 1021 - 1011 1011 - 1711	ERCISED IN HANDLING APPLIED. INDICATING LIGHT SP 11 - 1R29 SP 12 - 1R25 SP 12 - 1R25 SP 12 - 1R25 SP 12 - 1R25 SP 13 - 1R30 SP 14 SP 14 SP 14 SP 15 SP 16 SP 16 SP 16 SP 17 - 17 3 SP 16 - 17 23 SP 20 - 17 3	

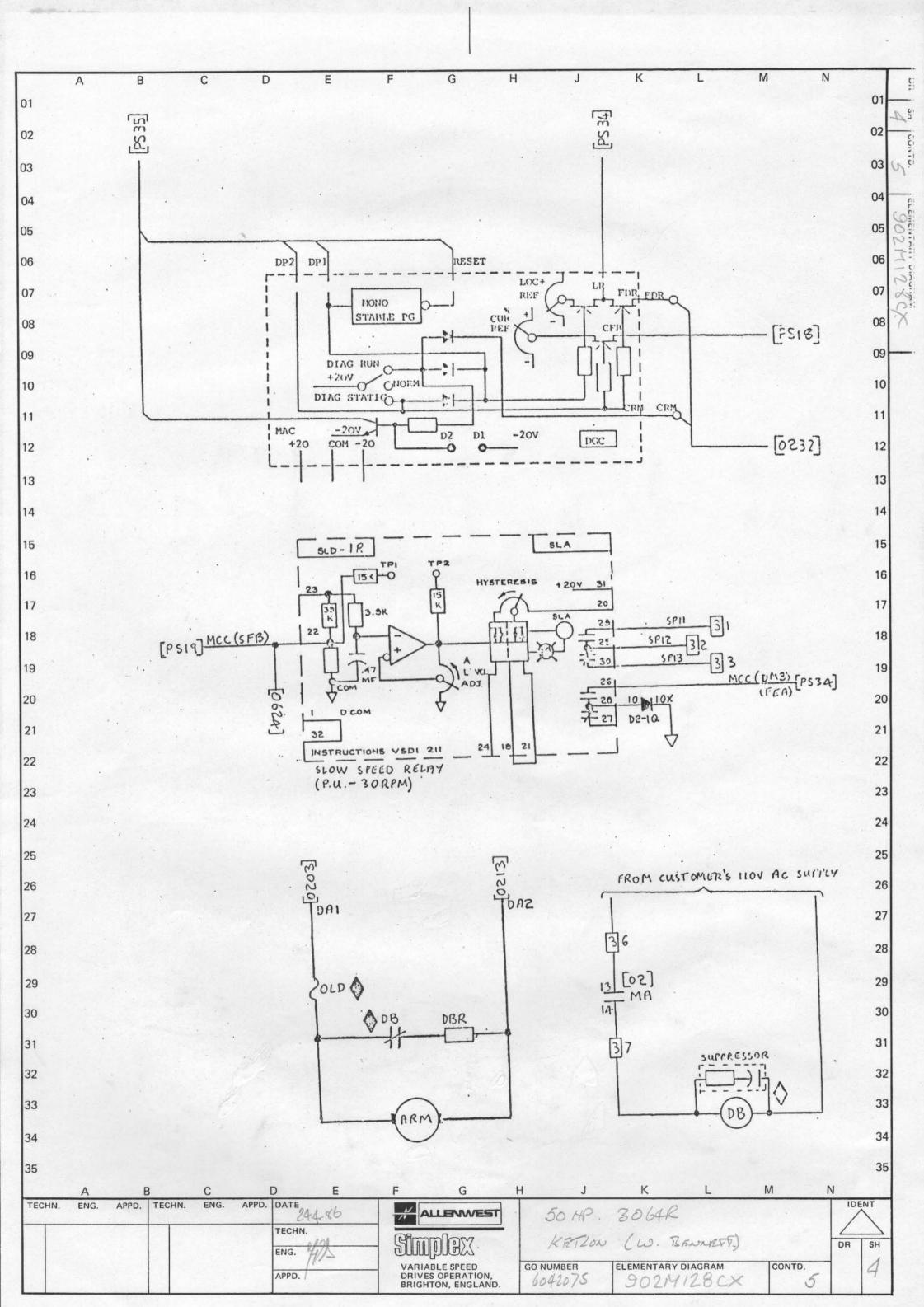


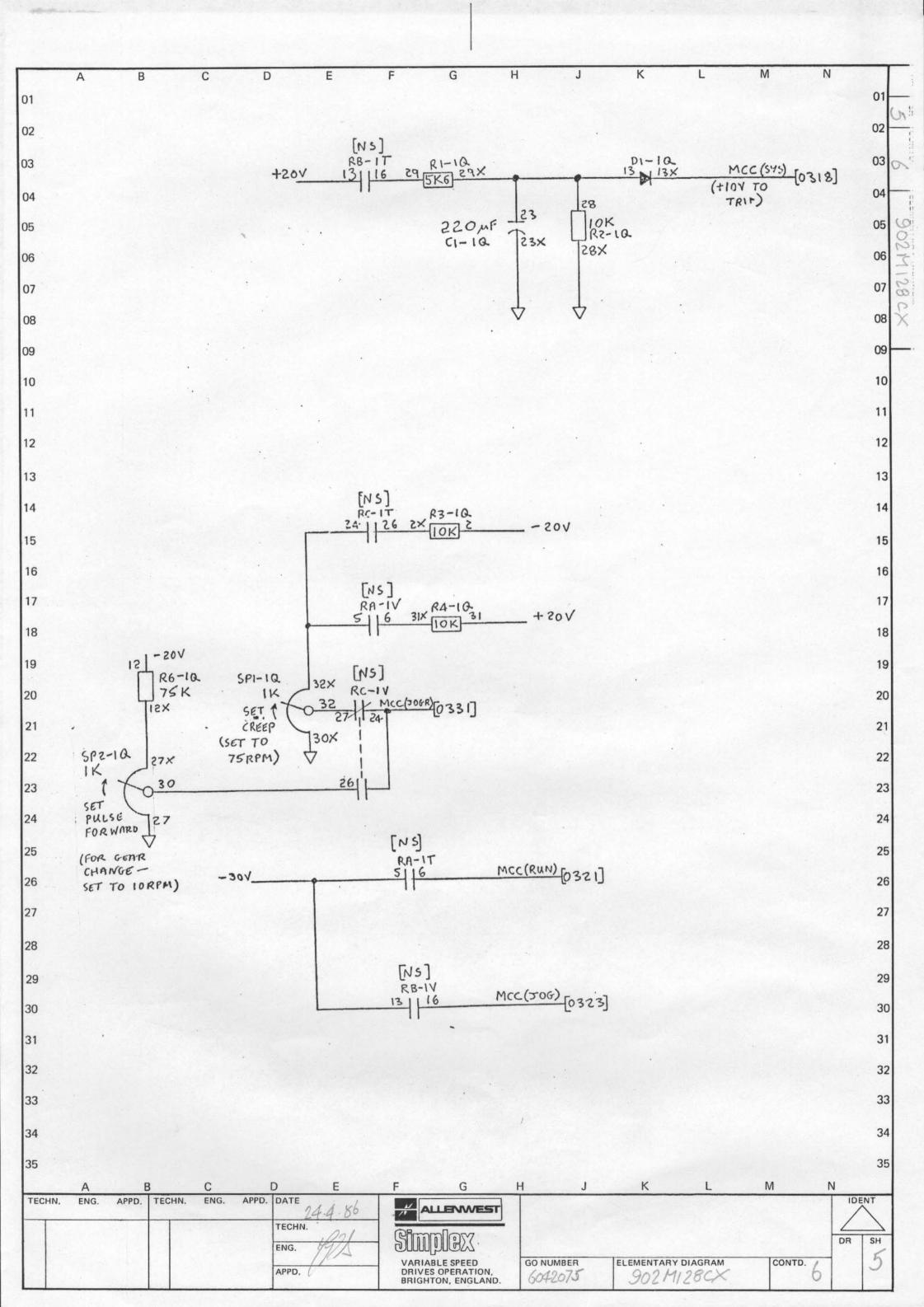
Discisimer Statement The Strade mark is the trade mark of General Electric Company of U.S.A., which is not connected with the English Company of a similar name.

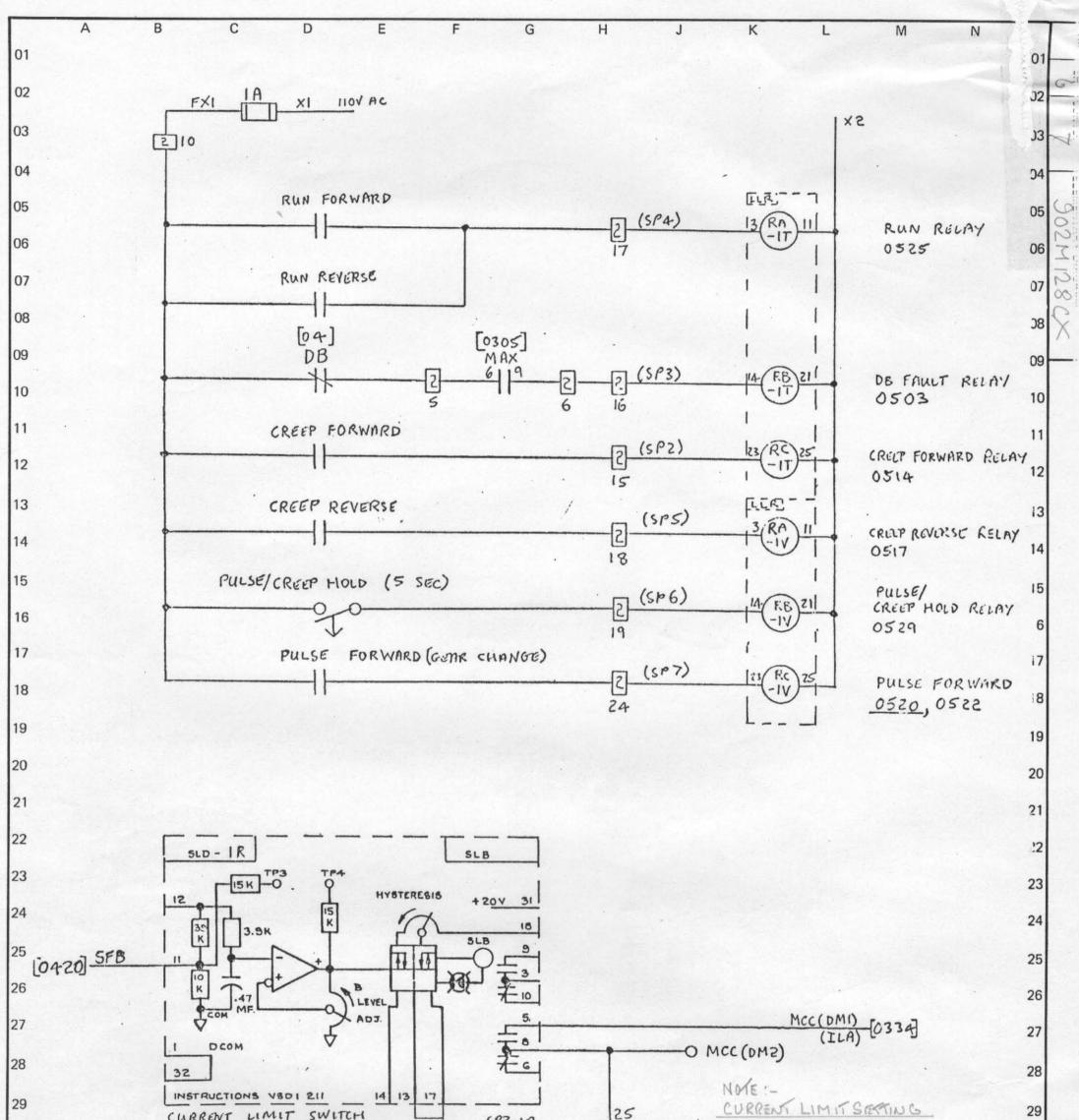


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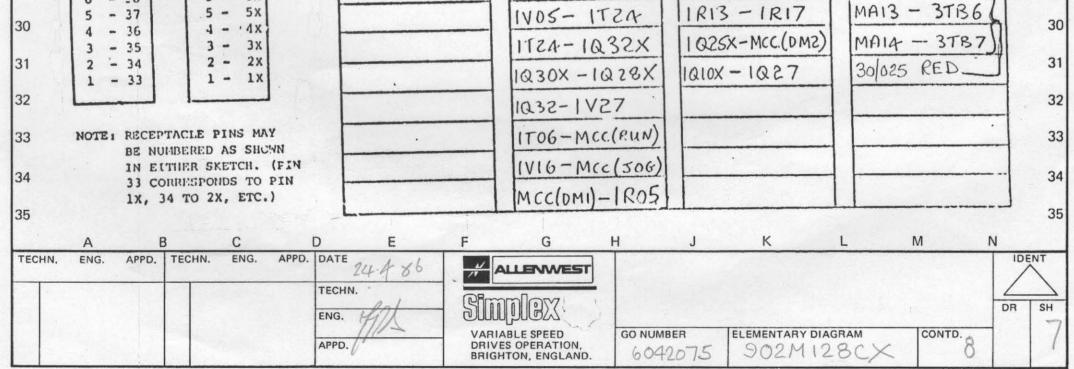


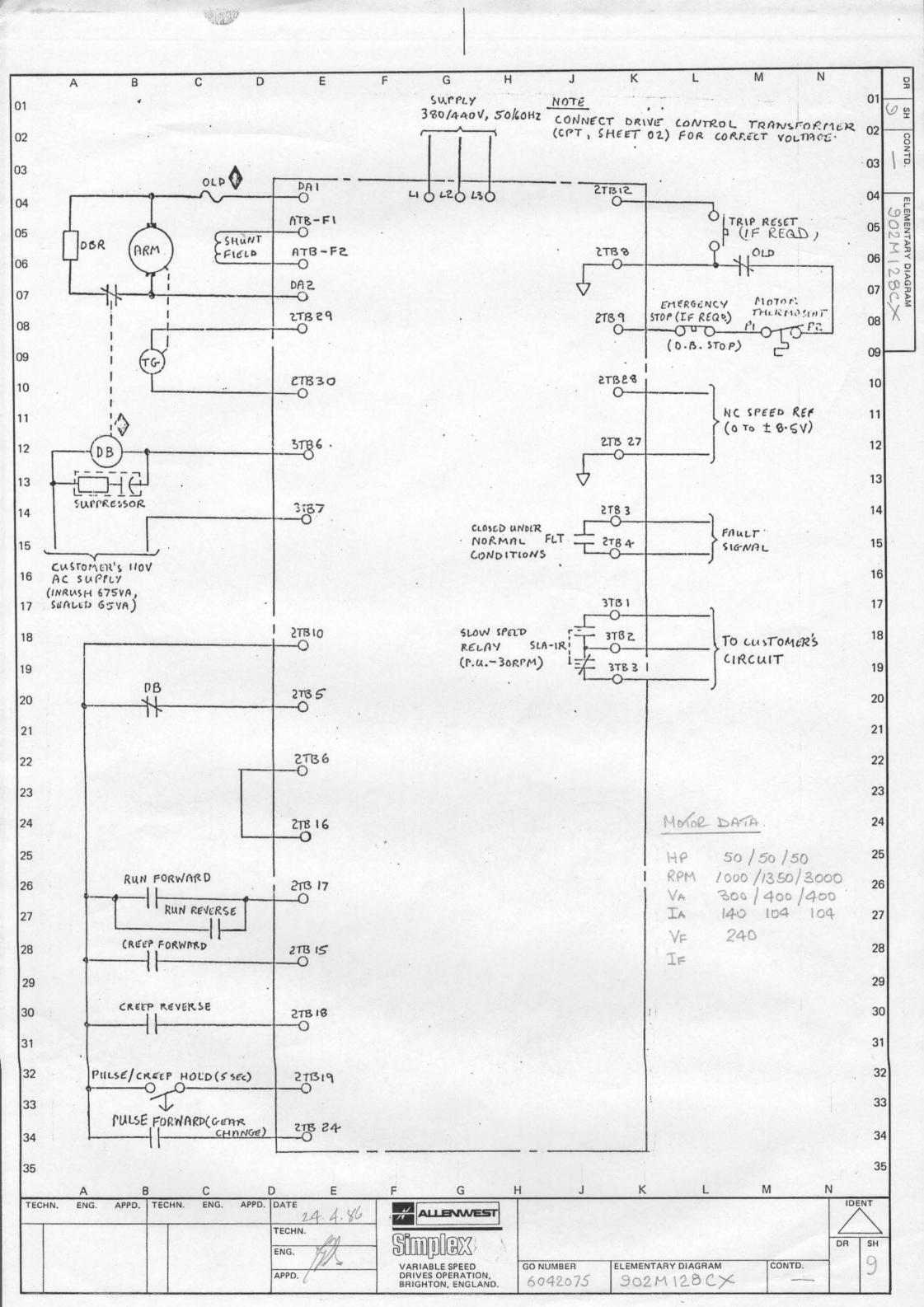




CURRENT LIMIT SWITCH 25 SP3-1Q SHUNT TAP 140 A. (SET TO DIO AT 1200 RPM) 2K 30 O25X 30 SET SLB IR TO DROP OUT AT SET CURRENT VOLTS. SFB 31 LIMIT 2. 122 REMOVE MCC JUMPER ILA - DMI 31 15× ADJ C. LIM FOR CFB V(A MOTOR) 32 1R5-1Q 32 FIT SUMPER ILA - DM2 IRS 33 ADJ. CLIM 2 (SP3-1Q) FOR CFB V.33 15 V (A AT MOTOR) 34 34 REMOVE JUMPER ILA - DH2 35 REFIT JUMPER ILA - DMI 35 A В С D E F G Η J K L M N ENG. APPD. DATE TECHN. ENG. APPD. TECHN. IDENT N ALLENWEST 24. 86 A TECHN. DR SH ENG. VARIABLE SPEED GO NUMBER ELEMENTARY DIAGRAM CONTD. DRIVES OPERATION, BRIGHTON, ENGLAND. APPD. 6 902M128CX 6042075

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										TOLOCU	E MUNDE	D TNDT	CATES	OPICIN	ST DE	SICA		
C	ON PRINTED	CIFCUI	T CARDS	USED IN	THIS RA	ACK THE	LETTERS	AA' AFT	ER BASIC CA WITH THE S	FCOUD	E NUMBE	CHANCE	D SUC	H AC.	AR. A	C. AD.		
1	FTC APE	DIRECTL	Y INTER	HANGEAB	LE AND M	MAY BE	SUPPLIED	IN PLACE	OF THE 'AA	' CARD	s.							
	THE PRINTE	D CIRCU	IT CARD	SHOULD	ALWAYS I	BE REMO	VED WITH	THE CARD	EXTRACTOR	WIICH	IS ATTA	CHED O	N TOP	OF THE	CAPT	RACK.		
\$	SOME CARDS	CONTAI	N PARTS	WHICH W	ILL BE	THERMAL	LY HOT A	FTER BEIN	IN OPERAT	ION. C	ARE SIIC	ULD BE	EXERO	CISED I	N HAN	NDLING		
2	ALL CARDS	AFTER F	EMOVAL	UNTIL TH	ESE PAR	TS HAVE	COOLED.	DO NOT R	EMOVE OR IN	SERT C	VKD2 MI	IN POW	ER API	LIGD.				
	FRONT VIEW					SYN	BOLSI											
1	RECEPTACLE	AS SEE				SYN	BOLS 1	•	Ø						VTING	LICHT		
1	RECEPTACLE IN RACK CI	AS SEE				<u>SY1</u>		•	-		JUSTHE		¤		VT11:G	LICHT		
1	RECEPTACLE	AS SEE				<u>SYN</u>	BOLS 1	•	-						VTING	LICHT		
1	RECEPTACLE IN RACK CI POSITION.	AS SEE	EN	1		<u>5¥1</u>	BOLS 1	OST	0	POT AT	UUSTHE N				VTING	LICHT	-1	
1	RECEPTACLE IN RACK CI POSITION.	AS SEE				<u>SYN</u>	BOLS 1	OST	-	POT AT	UUSTHE N				VTING	LICUT		
1	RECEPTACLE IN RACK CI POSITION. 32 - 64	AS SEE	32 - 32x 31 - 31x 30 - 30x	1.00		•	1BOLS I TEST P	OST CAPD F	O NOCK WIPE J	POT A	VUSTHÉN FADLE	v T	¤		VTING	LICIT	-	
1	RECEPTACLE IN RACK CI POSITION. 32 - 64 31 - 63 30 - 62 29 - 61	AS SEE	32 - 32x 31 - 31x 30 - 30x 29 - 29x		RTB	• (-20V)	TEST P	CAPD F	B)-IR22	POT ÅI	NUSTHEN FADLE 22-	IRII	¤	INDIC				
1	RECEPTACLE IN RACK CI POSITION. 32 - 64 31 - 63 30 - 62 29 - 61 28 - 60	AS SEE	32 - 32x 31 - 31x 30 - 30x 29 - 29x 28 - 28x		RTB	• (-20V)	1BOLS I TEST P	CAPD F	O NOCK WIPE J	POT ÅI	VUSTHÉN FADLE	IRII	¤					
1	RECEPTACLE IN RACK CI POSITION. 32 - 64 31 - 63 30 - 62 29 - 61 28 - 60 27 - 59	AS SEE	29 - 32x 30 - 30x 29 - 29x 28 - 28x 27 - 27x		RTB IG	(-20V)-	TEST P	CAPD F MCC (SF IR 19-	Ø ACK WIPE JI B)-IR22 IR21		NUSTHEN FABLE 22-1	1R11 V21	¤	INDIC	· 172	23		
1	RECEPTACLE IN RACK CI POSITION. 32 - 64 31 - 63 30 - 62 29 - 61 28 - 60	AS SEE	$ \frac{32}{31} - \frac{32x}{31} - \frac{31x}{30} - \frac{30x}{29} - \frac{29x}{29x} - \frac{29x}{27} - \frac{27x}{26} - \frac{26x}{25} - \frac{26x}{25} - \frac{25x}{25} $		RTB IG RTB((-zov) (-zov)- (0M)-	1801.51 TEST P -1Q02 1R02 -1Q15	CAPD T MCC (SF IR 19- MCC (U	() ACK WIPE JI B)-IR22 IR21 M3)-IR26		NUSTHEN PADLE 22-1 25-1 21-	IR11 V21 IV11	¤	INDIC/ SP2- SP3	· 172	23		
1	RECEPTACLE IN RACK CI POSITION. 32 - 64 31 - 63 30 - 62 29 - 61 28 - 60 27 - 59 26 - 58 25 - 57 24 - 56	AS SEE	32 - 32x $31 - 31x$ $30 - 30x$ $29 - 29x$ $28 - 28x$ $27 - 27x$ $26 - 26x$ $25 - 25x$ $24 - 24x$		RTB IG RTB((-20V)-	1801.51 TEST P -1Q02 1R02 -1Q15	CAPD T MCC (SF IR 19- MCC (U IR 28	() ACK WIPE JI B)-IR22 IR21 M3)-IR26 -IQ10		11 - 1	IR11 V21 IV11 IT11	¤	INDIC/ 5P2- 5P2- 5P4-	- 17 2 - 17 - 17	23 14 103		
1	RECEPTACLE IN RACK CI POSITION. 32 - 64 31 - 63 30 - 62 29 - 61 28 - 60 27 - 59 26 - 58 25 - 57 24 - 56 23 - 55	AS SEE	$ \frac{32}{31} - \frac{32x}{31} - \frac{31x}{30} - \frac{30x}{29} - \frac{29x}{29x} - \frac{29x}{27} - \frac{27x}{26} - \frac{26x}{26} - \frac{26x}{25} - \frac{25x}{26} - \frac{26x}{25} - \frac{25x}{25} - $		RTB IG RTB(IQ	(-zov) (-zov) (00)- (00)-	TEST P - 1QOZ IROZ IROZ RIS	CAPD T MCC (SF IR 19- MCC (U IR 28	() ACK WIPE JI B)-IR22 IR21 M3)-IR26 -IQ10		11 - 1	IR11 V21 IV11 IT11	¤	INDIC/ SP2- SP3	- 17 2 - 17 - 17	23 14 103		
1	RECEPTACLE IN RACK CI POSITION. 32 - 64 31 - 63 30 - 62 29 - 61 28 - 60 27 - 59 26 - 58 25 - 57 24 - 56 23 - 55 22 - 54	AS SEE	$ \begin{array}{r} 32 - 32x\\ 31 - 31x\\ 30 - 30x\\ 29 - 29x\\ 28 - 28x\\ 27 - 27x\\ 26 - 26x\\ 25 - 25x\\ 24 - 24x\\ 23 - 23x\\ 22 - 22x \end{array} $		RTB IO RTB(IQ RTB	(-20V) (-20V) (00)- (00)- (15-1 (+20V)	1001.51 TEST P -1Q02 1R02 1Q15 R15 -1Q31	CAPD T MCC (SF IR 19- MCC (U IR 28 IR 31	Ø ACK WIPE JI B)-IR22 IR21 M3)-IR26 -IQ10 - IT13		11 - 1 11 - 1	IRII V21 IV11 IT11 IT21		INDIC SP2- SP3 SP4 SP5	- 17 2 - 17 - 17 - 11	23 14 103 103		
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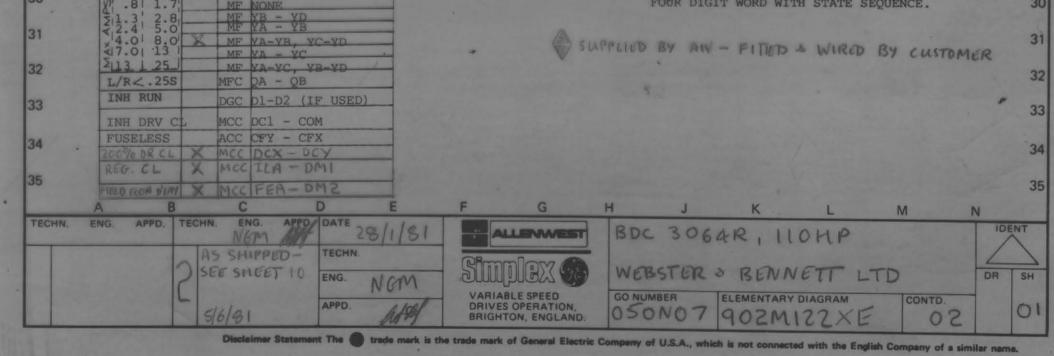
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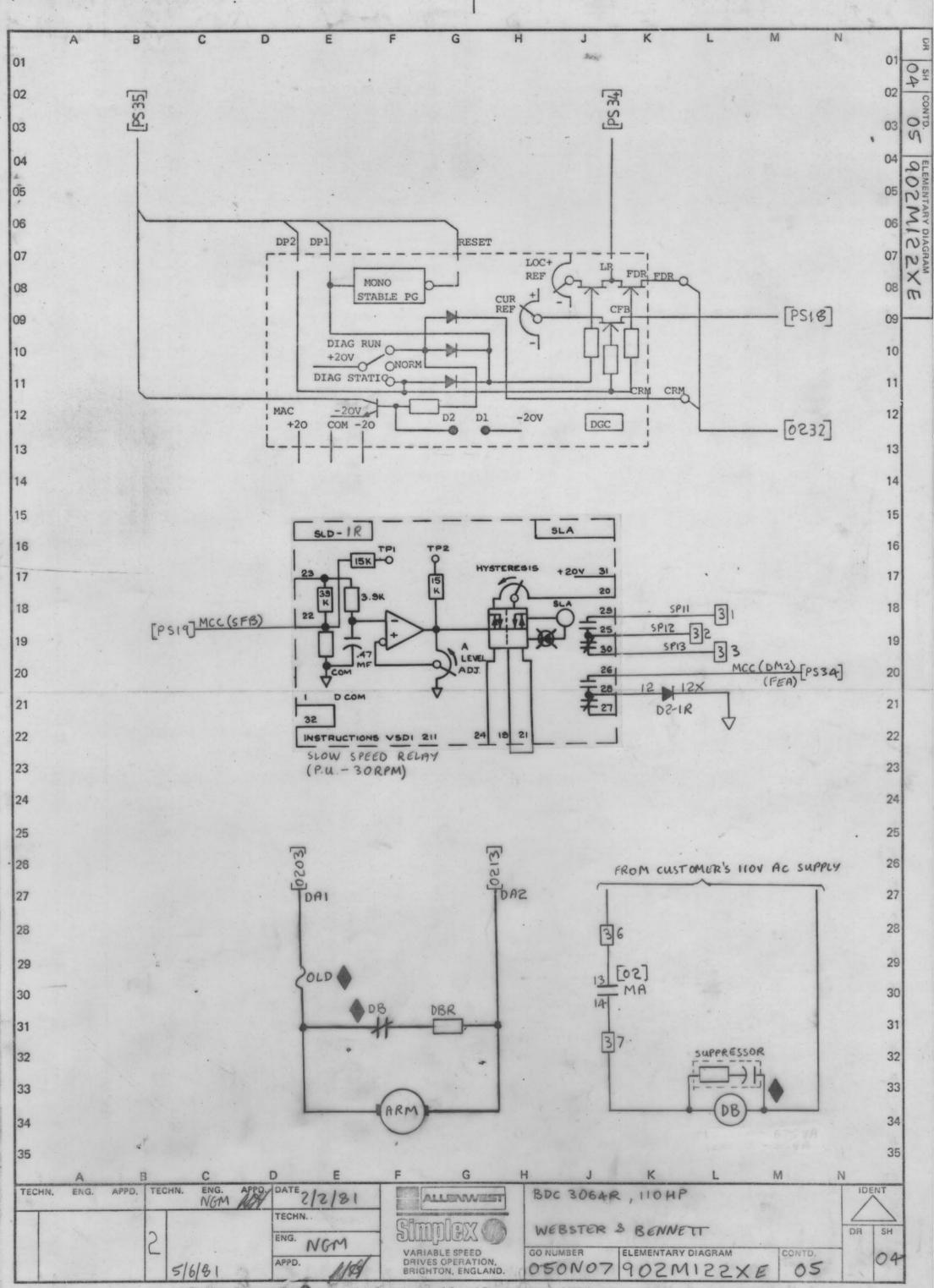
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10		$VO = \frac{-R2}{R1}$ VI		V	$TO = (1 + \frac{R2}{R1}) VI$			IMET	C	URRENT SIGNAL FO	R METER (10)		10
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12		VI () VO VO) = S	IGN (() X ABSOLUTE VALUE OF	VI	*	JOGR		OG REFERENCE INP				10
1.6		103					*	MAC		AX/MA CONTROL SI)		12
100		Y 51	CAB C	N TEF	RMINAL			MSW		ODE SWITCH (30)			1 Carlos
13							*	OSC		SCILLATOR (17)				13
					C 2TB, 3TB, 4TB, RTB.		*	PCR		HASE CONTROL REF				
14		EST	: 91	- 12	2TB9; X2 R - RTBX2			PRE		RIVE PRECONDITIC				14
		O TH	ERMIN	AL AT	T.B.'s			ØSEQ		HASE SEQUENCE (
15								RERR		EGULATOR ERROR (and the second
15		FX PC	TENT	IOMET	TER ARROWS ON THE CARD			RIJ		NTEGRATOR SUMMIN				15
		JOL EI	LEMEN	TARY	DIAGRAMS INDICATE THE			RJ		EGULATOR SUMMING				
16		W	PER	DIREC	TION AS THE POTENTIOM	ETER		RRA		EGULATOR RESPONS	E ADJUST (30)	1	16
100		SI	IAFT	IS RC	DTATED CLOCKWISE TO IN	CREASE	+	RSET		ESET (16)	63			1
17		FU	INCTI	ON.			*	RUN		EADY TO RUN (1 UN SWITCH INPUT				17
100		1					*	SA-C		HASE SYN OUTPUT				
18		TH A	IESE	RESIS	STORS ARE CRIMPED IN W	IRE	*	SFB		PEED FEEDBACK (10
		HZ	ARNES	s.				SMET		PEED SIGNAL FOR		21		18
10			12.00		and the second		*	SR		YSTEM REFERENCE			1	
19		FUNCTION	USE	LOC	JUMPERS		*	SYS		YSTEM FAULT TRIP			1	19
10.1		60HZ		MIDO	ZA-ZB (IF USED)		*	TA		UTPUT FOR TACHO		T (20)		1.000
20			Part 1	FIEC	CA-2B (IF USED)			TF		ACHO FAULT (NS28		- (20)	1	20
100		50HZ	TX	MCC	HZA - PHA		*	TFB		ACHOMETER FEEDBA	Contraction of the second s			Colorester
21			12		(NONE)			TFR		C TACHO FREQUENC		13)		21
		IOC-400% -500%	10		I - IHI		*	TR		IMED REFERENCE (
22		-300%			I-ILO		*	VFB		OLTAGE FEEDBACK				
44		SR5 - 9v	X		NONE)		*	WFR		EAK FIELD REFERE			7	22
00		9 - 20v		MCC	SRH - COM									
23		JOGR LOV	1	1	(NONE)		(* - TES	ST POI	NT ON DOOR FRONT)		7	23
		200	X		JH - COM									1000
24		LT. 3-7sec.	13		Contraction of the local distance of the loc								1	24
1.0		and the second s	-		(NONE)			MADDIA	NC CV	CODEM		× / 2000		
25		2 - 60sec VREG			332 S FROM LTI TO COM			MAPPIN	NG DI	DIEM				100
20		DC TACHO	-		(NONE)			(NS/PS	C/TC)	PS - PAST SI	IPPM		4	25
00		AC TACHO	X	MCC	ATI - AT2			(ND) F	5/15/	NS - NEXT SH				1 1 2 1 1
26		TACHO FIL	1	-	TC - TC					TS - THIS SH			2	26
		TACHO V.			and the second second second second	HENCE (DC 12)	TADAT	OTTER TO	CTA INT ON					
27		24-64vdc			NT-NTI PT - PTI	HENCE (PS - 12)	DEN	MPED IN	CATION	ON PAST SHEET	UINE 12.	OTHER LOCA	TIONS AR	7
		27-71vac	X.	IFC	NT-NT1 PT - PT1	DENOTED BY SHEE	I' NU	PIBER AN	D LINE	r E.G. (IAI6) S	IGNIFIES L	OCATION ON	SHEET	10000
28		60-160vdc		IFC	NT-NT2 PT - PT2	1A, LINE 16 ETC	•	NOTE :	TH	FIELD EFFECT TR	ANSISTOR	THE *		0
		66-177vac		IFC	NT-NT2 PT - PT2					D/OPEN (I/O) STA				28
0.0		110-300vd	-	IFC	NT-NT3 PT - PT3					HED FOR "PRECOND				a section
29		120-300va			NT-NT3 PT - PT3					G" - "DIAGNOSTIC			2	29
1000		G134 G256			MFC OR MFE					NOSTIC RUN" IS S				
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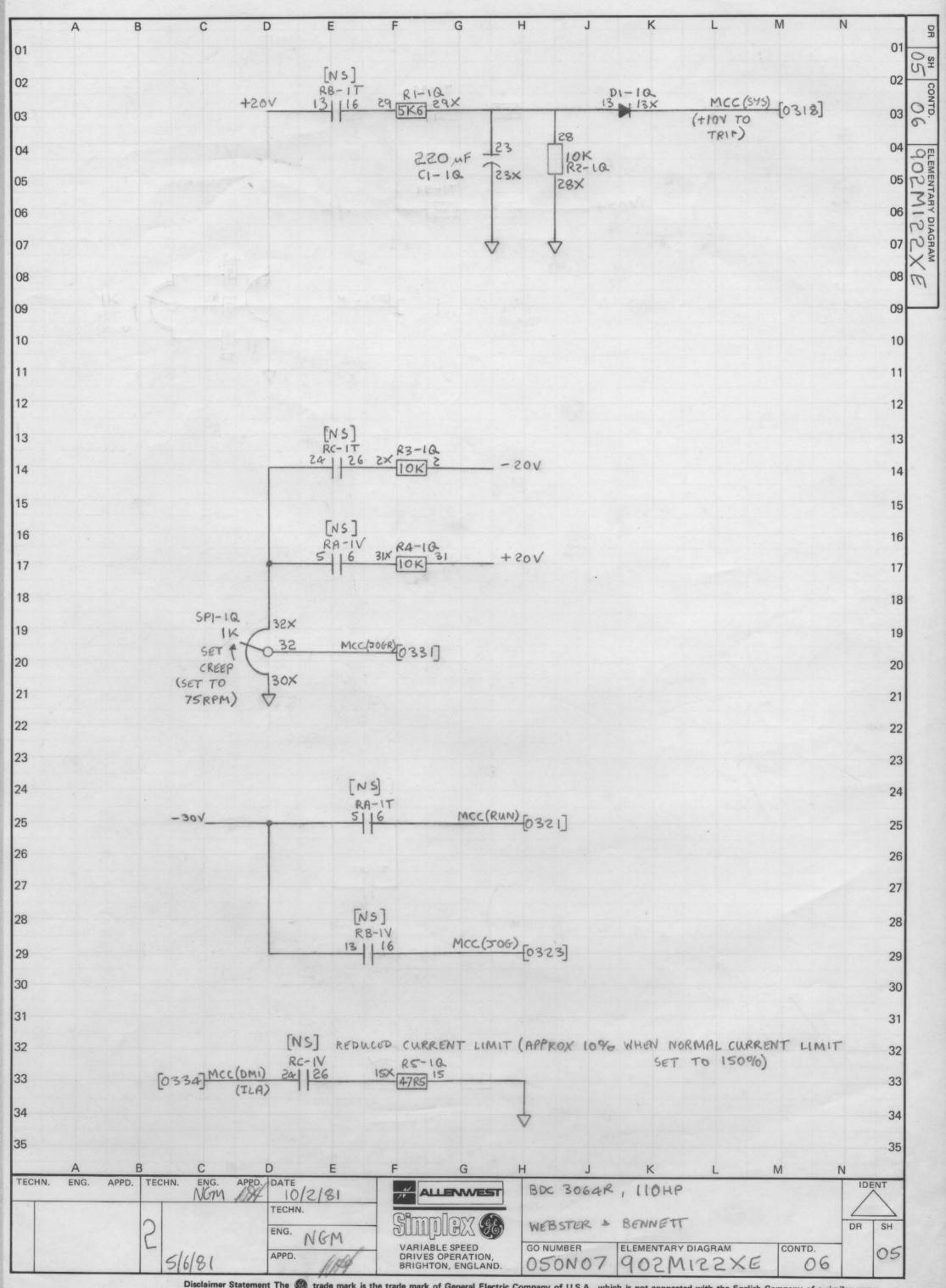
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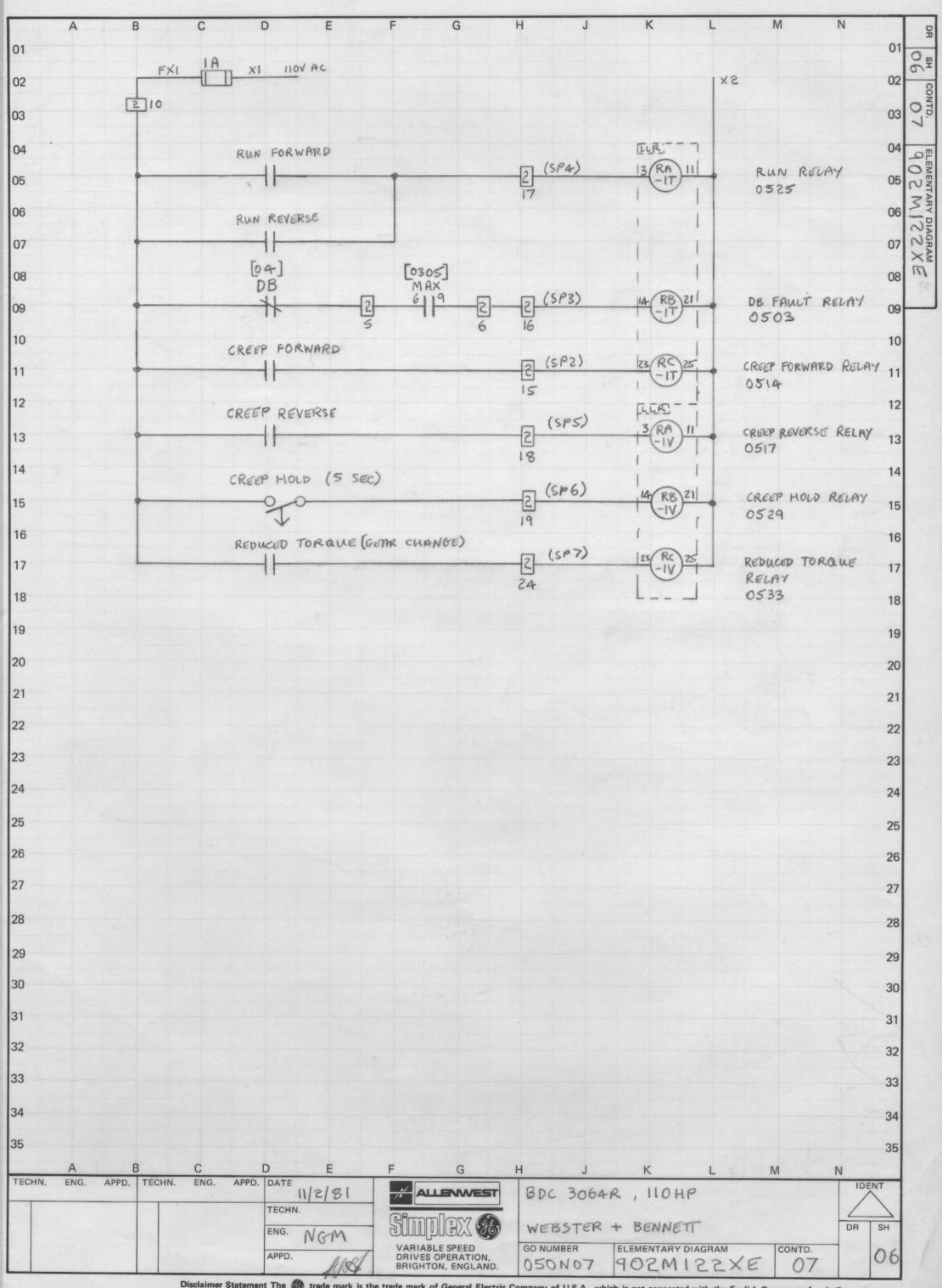
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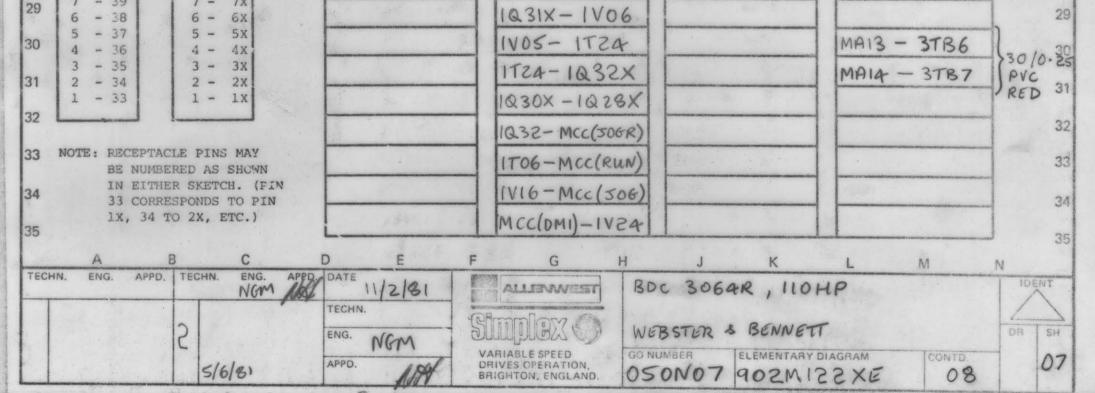


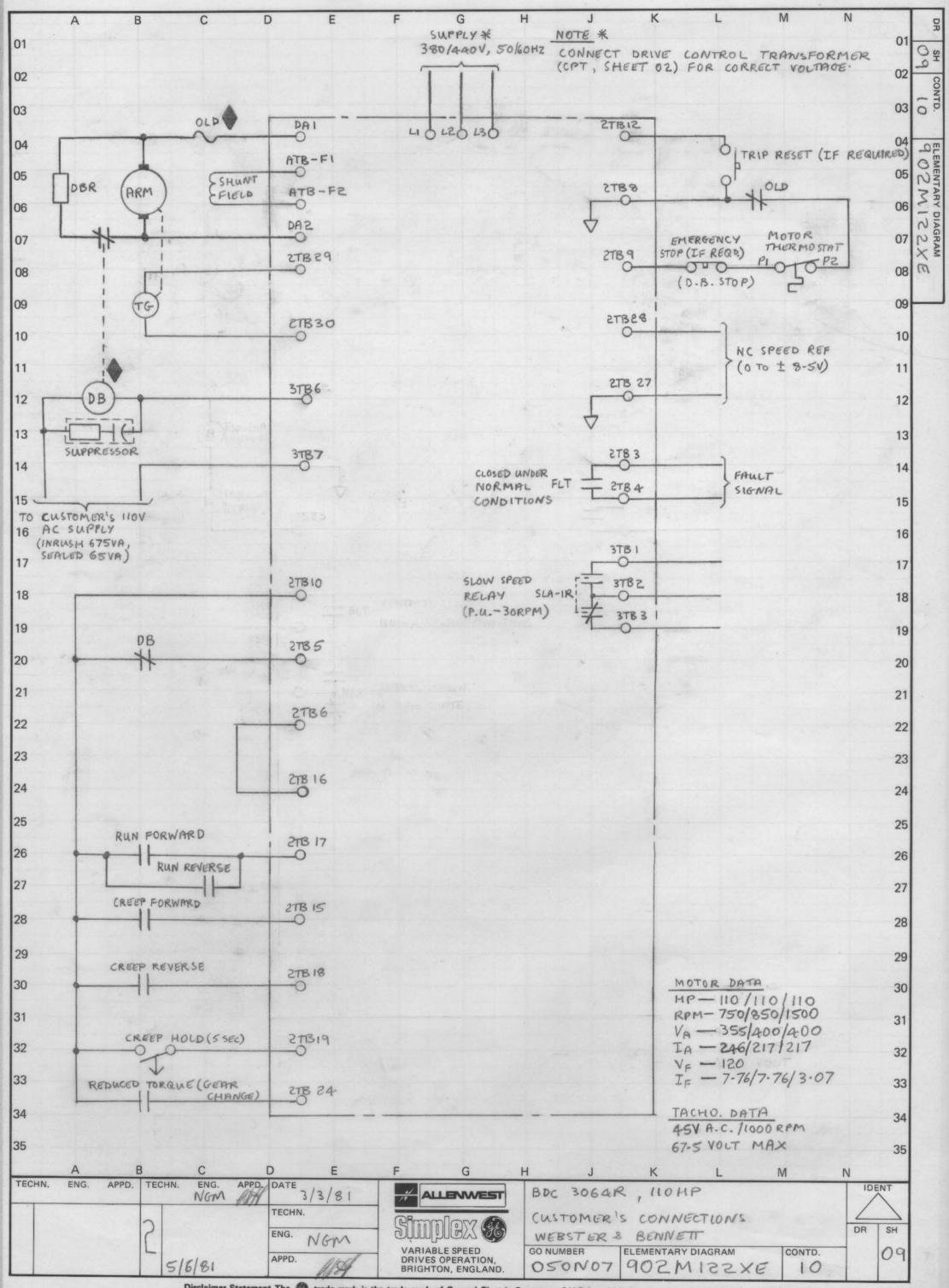


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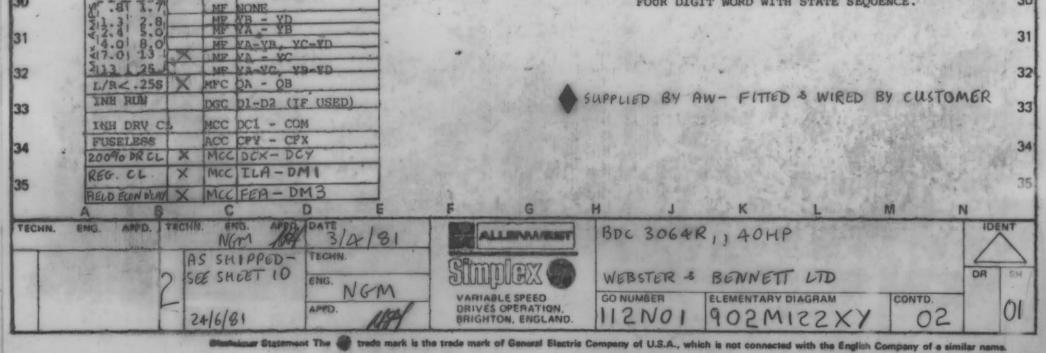


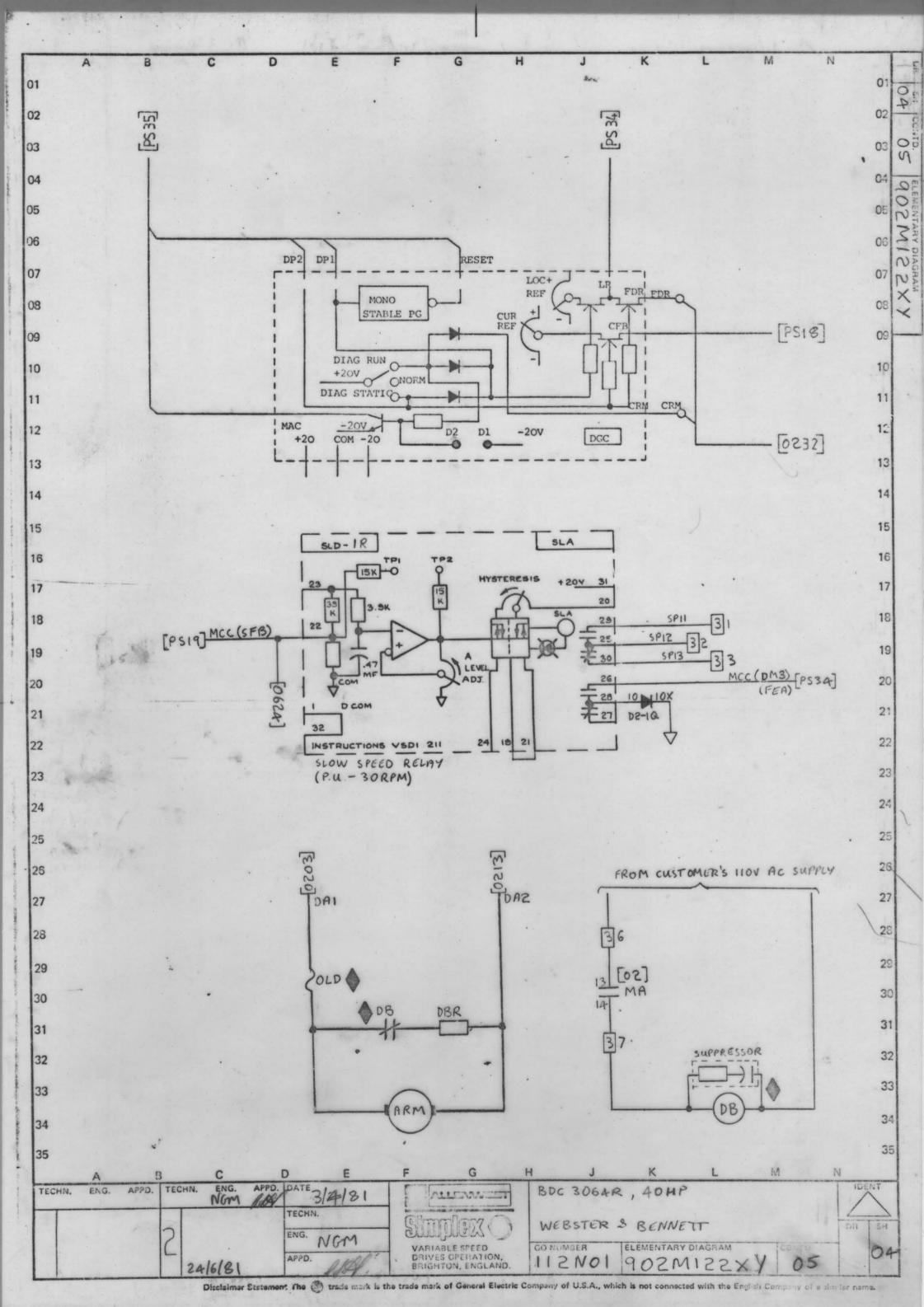


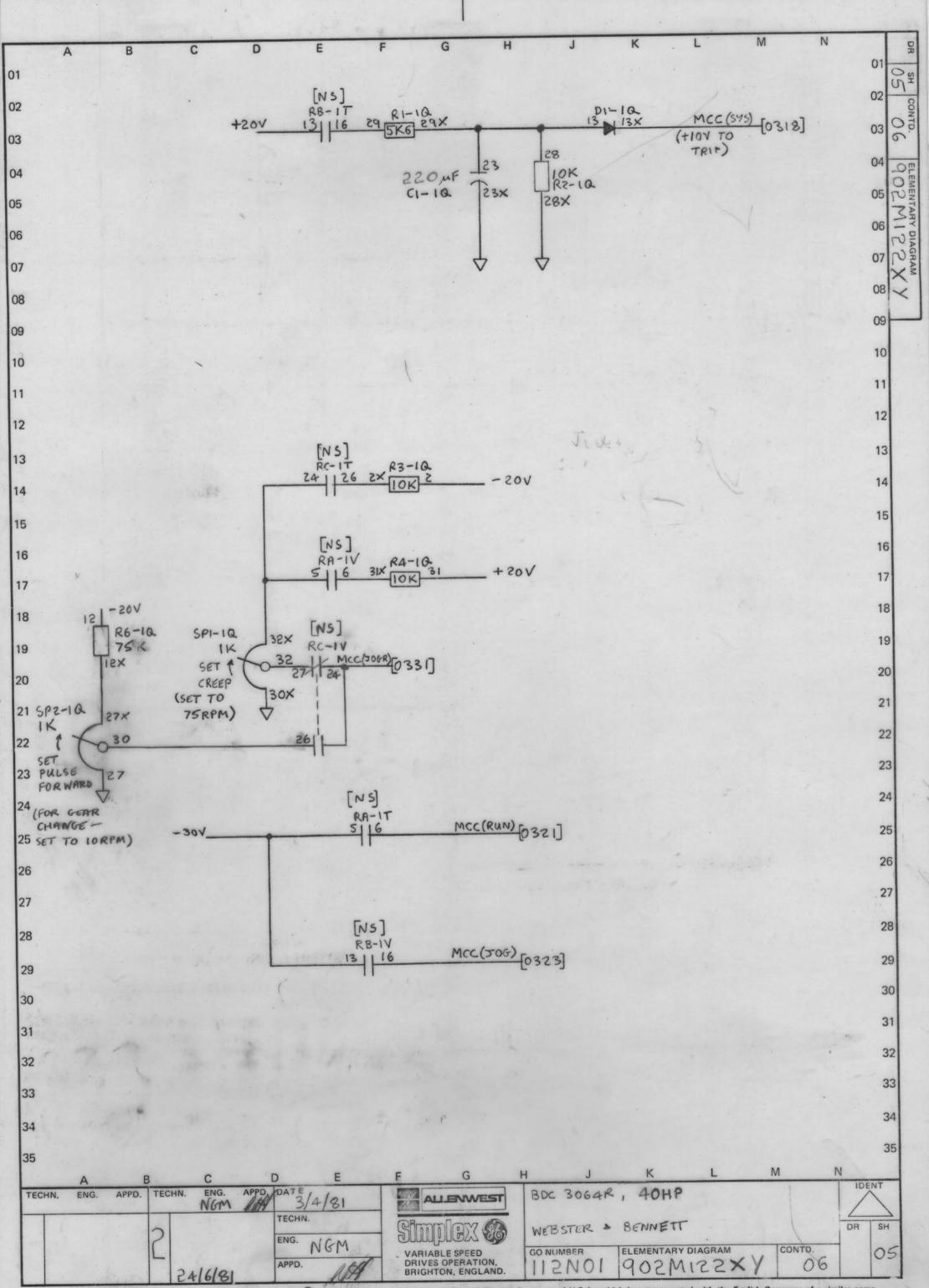
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ARDWARE AMBREVIATIONS				A HE MAN
				and the second
ICC NAIN CONTROL CARD		* CEMF * CFB	COUNTER EMF (16) CURRENT FEEDBACK (16)	The second second
SC POWER SUPPLY CARD	1	CMFA	ABSOLUTE VALUE CEMF (OF	I)
ICR THIRISTON ASSEMBLY		CRM	CROSSOVER MODIFY (11)	and the state hit is
GC DEAGROSTIC CARD	and the second second	DFP		15)
IFE MOTOR FIELD CONTRA		* DR * EAO	DRIVER REFERENCE (33) ERROR AMP OUTPUT (33)	ANTERNAL STREET
IDR MODIFICATION RACK	and the second se	EST	EXTERNAL FLT STOP INPUT	(14)
AUXILIARY CONTROL	CARO	FALT	FAULT (14)	441
YMBOLS MUPLIFIERS.		* FC	FIELD CURRENT (NS26)	
dir2 b	vo ·	FDR FEA	FIELD DIAGNOSTIC REFERENCE FIELD ECONOMY ADJUST (E (08)
		FF	FIELD FAULT (28)	
-Lained >+	The second se	IABS	MOTOR CURRENT ABSOLUTE (
-R2	82	IĻA		23)
$10 = \frac{R_2}{R_1} VI \qquad V0 = (1+$	RI) VI	IMET * IPU	CURRENT SIGNAL FOR METER INITIAL PULSE (20)	1 101
		* LR	LOCAL REF. FROM DGC (33	I)
CASE GROUND.	ちょう くろんは 空間 こうしょう	* JOG	JOG SWITCH INPUT (23)	
VO - SIGN () X ABS	OLUTE VALUE OF VI	* JOGR	JOG REFERENCE INPUT (3)	
STAB ON TERMINAL		* MAC MSW	MAX/MA CONTROL SIGNAL (MODE SWITCH (30)	20)
T DIAG ON JEINSMIS	and the second and the	* OSC	OSCILLATOR (17)	
TERMINAL AT 2TB, 3		* PCR	PHASE CONTROL REF. (26)	and the second
8X: 9 😰 - 2TB9; X	2 🗐 - R#BX2	* PRE	DRIVE PRECONDITION (21)	THE REPORT OF THE PARTY
And the second				
O TERMINAL AT T.B.'s		ØSEQ	PHASE SEQUENCE (14) RECILLATOR ERROR (27)	A States
	一、自己的时候,他们已经有些意义。	ØSEQ RERR RIJ	PHASE SEQUENCE (14) REGULATOR ERROR (27) INTEGRATOR SUMMING JUNCT	ION (27)
FOTENTIONETER ARRO	WS ON THE CARD	RERR RIJ RJ	REGULATOR ERROR (27) INTEGRATOR SUMMING JUNCTI REGULATOR SUMMING JUNCTION	DN (31)
	WS ON THE CARD IS INDICATE THE	RERR RIJ RJ RRA	REGULATOR ERROR (27) INTEGRATOR SUMMING JUNCT REGULATOR SUMMING JUNCTIC REGULATOR RESPONSE ADJUST	DN (31)
THE POTENTIONETER ARRO ELEMENTARY DIAGRAM WIPER DIRECTION AS	WS ON THE CARD IS INDICATE THE	RERR RIJ RJ RRA RSET	REGULATOR ERROR (27) INTEGRATOR SUMMING JUNCTIC REGULATOR SUMMING JUNCTIC REGULATOR RESPONSE ADJUST RESET (16)	DN (31)
THE POTENTIONETER ARRO ELEMENTARY DIAGRAM WIPER DIRECTION AS	WS ON THE CARD IS INDICATE THE THE POTENTIONETER	RERR RIJ RJ RRA	REGULATOR ERROR (27) INTEGRATOR SUMMING JUNCTION REGULATOR SUMMING JUNCTION REGULATOR RESPONSE ADJUST RESET (16) READY TO RUN (16) RUN SWITCH INPUT (21)	DN (31)
FOTENTIONETER ARRO ELEMENTARY DIAGRAM WIPER DIRECTION AS SHAFT IS ROTATED C PUNCTION.	WS ON THE CARD IS INDICATE THE THE POTENTIOMETER LOCKWISE TO INCREASE	RERR RIJ RJ RRA RSET * RTR * RUN * SA-C	REGULATOR ERROR (27) INTEGRATOR SUMMING JUNCT: REGULATOR SUMMING JUNCT: REGULATOR RESPONSE ADJUST RESET (16) READY TO RUN (16) RUN SWITCH INPUT (21) PHASE SYN OUTPUT (16)	DN (31)
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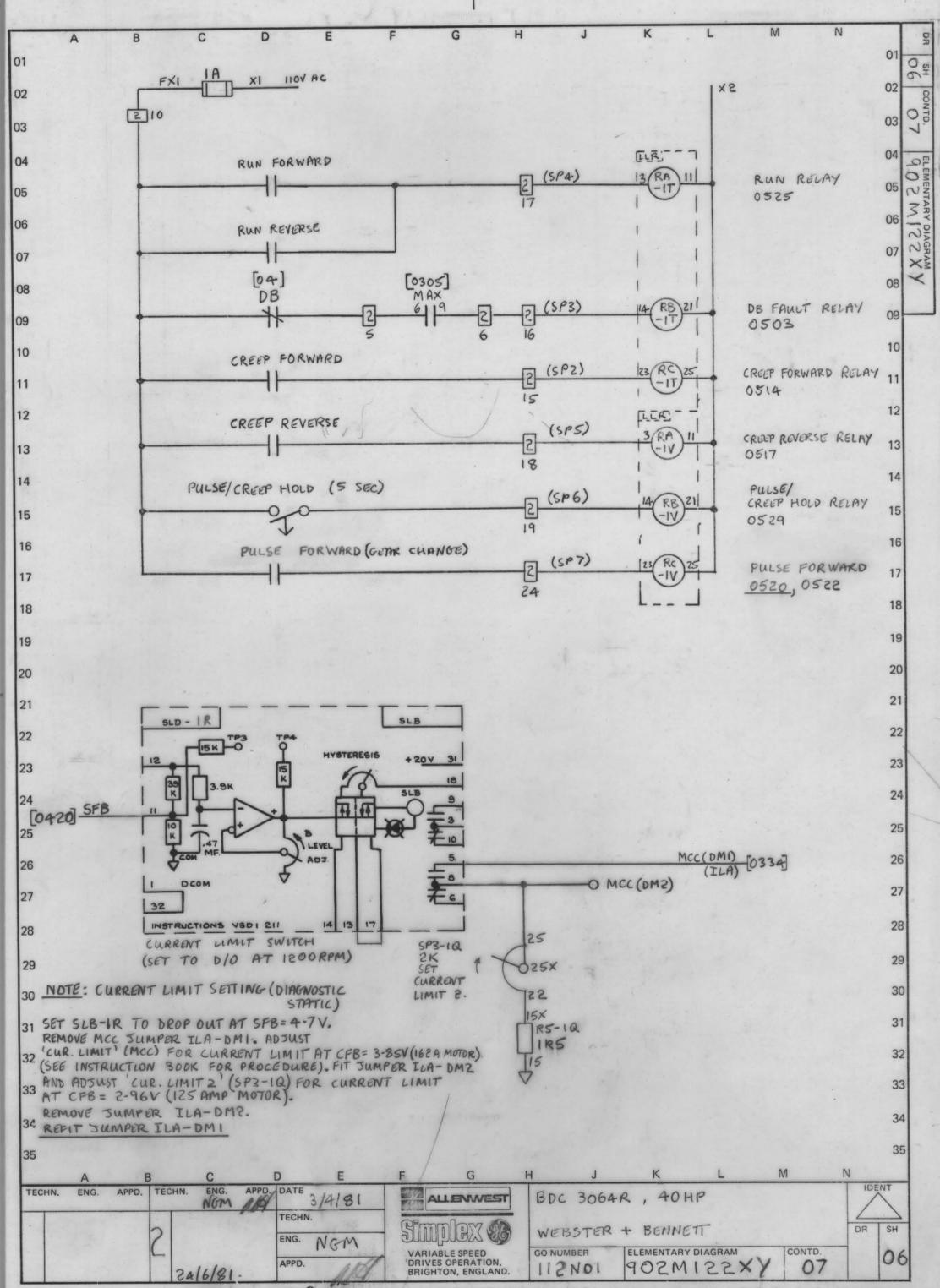
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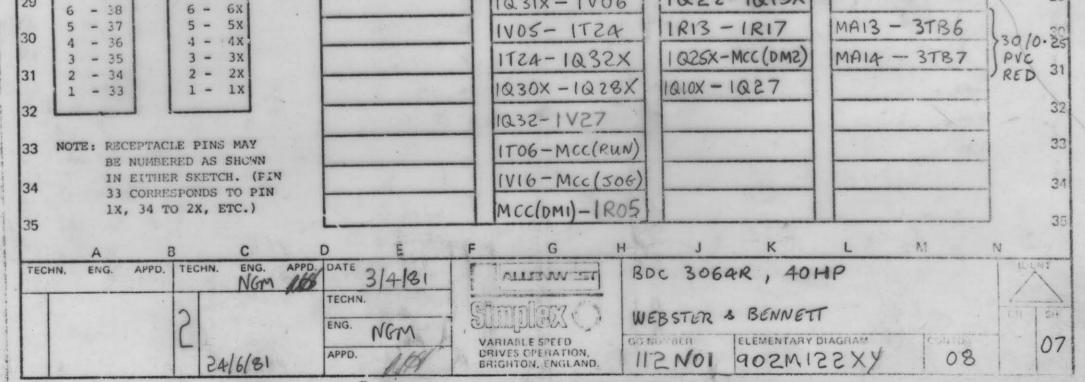


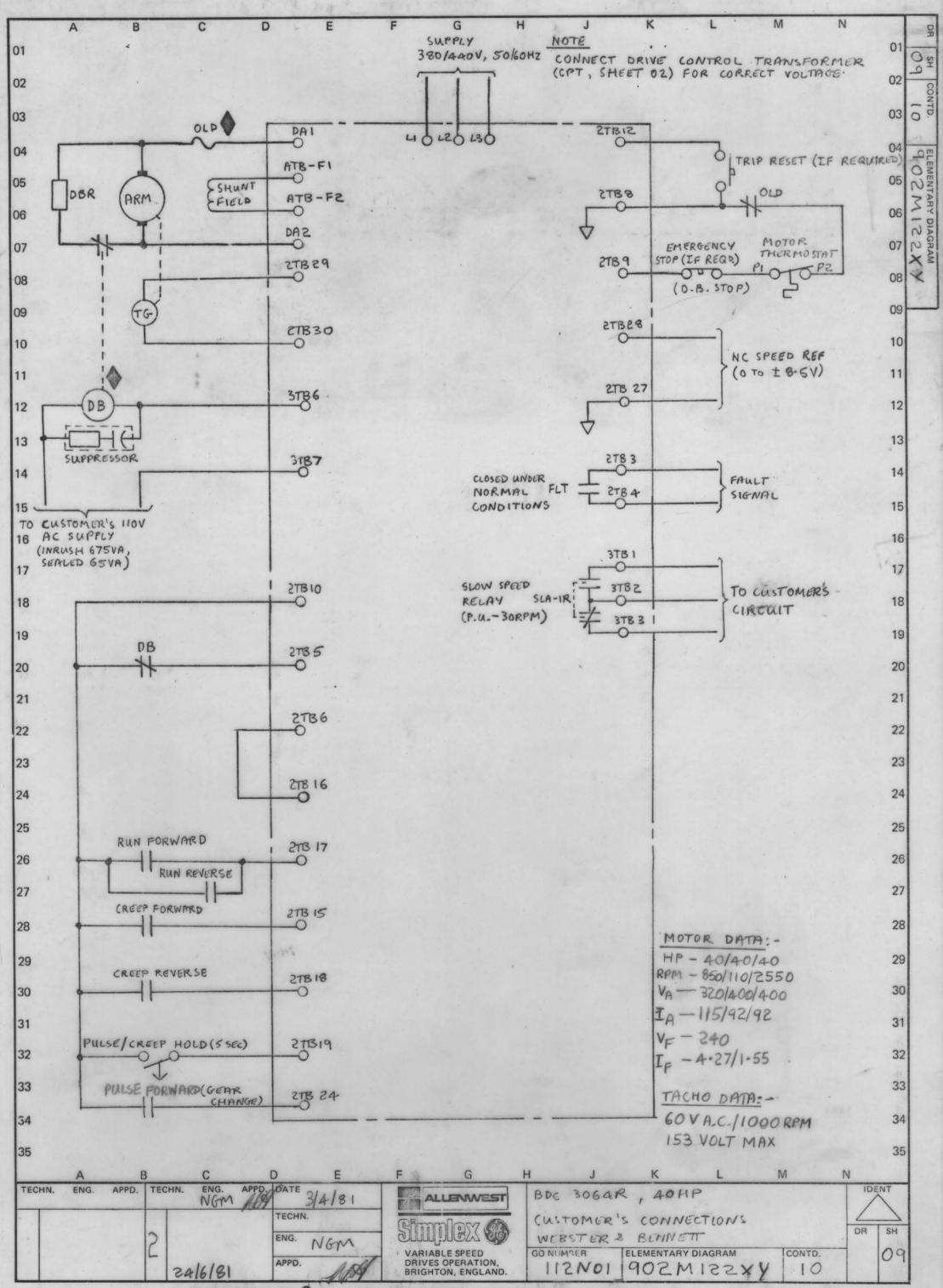
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ALL CARDS	CONTAIN PARTS	WHICH WILL	BE THERMAL PARTS HAVE	LY HOT AFT COOLED. I	TER BEING I	N OPERATIO	ON. CARE SHO	DULD BE E	XERCISED 1	E CAPD RACK IN HANDLING	ς. 3
FRONT VIEW RECEPTACLE IN RACK CLA POSITION.	AFTER REMOVAL OF 64 PIN AS SEEN	WHICH WILL	BE THERMAL PARTS HAVE	LY HOT AFT	TER BEING I	N OPERATIO	ON. CARE SHO	OULD BE E	APPLIED.	E CARD RACK	3
ALL CARDS A FRONT VIEW RECEPTACLE IN RACK CL POSITION. 32 - 64	OF 64 PIN AS SEEN OSED 32 - 32X	WHICH WILL UNTIL THESE	BE THERMAL PARTS HAVE	E COOLED. I	TER BEING I	N OPERATIO	ON. CARE SHO ERT CARDS W	OULD BE E	APPLIED.	IN HANDLING	3
ALL CARDS A FRONT VIEW RECEPTACLE IN RACK CLA POSITION. 32 - 64 31 - 63 30 - 62	AFTER REMOVAL OF 64 PIN AS SEEN OSED 32 - 32X 31 - 31X 30 - 30X	WHICH WILL UNTIL THESE	BE THERMAL PARTS HAVE	EY HOT AFT COOLED. I BOLS: TEST POS	TER BEING I	N OPERATIO	ON. CARE SHO ERT CARDS W	NT)	APPLIED.	IN HANDLING	3
ALL CARDS A FRONT VIEW RECEPTACLE IN RACK CLA POSITION. 32 - 64 31 - 63 30 - 62 29 - 61 28 - 60	AFTER REMOVAL OF 64 PIN AS SEEN OSED 32 - 32X 31 - 31X 30 - 30X 29 - 29X 28 - 28X	WHICH WILL UNTIL THESE	BE THERMAL PARTS HAVE	BOLS: TEST POS	CARD RACK	N OPERATION VE OR INSE	ON. CARE SHO ERT CARDS W OT ADJUSTME	IRII	XERCISED I APPLIED.	IN HANDLING	3
ALL CARDS A FRONT VIEW RECEPTACLE IN RACK CLA POSITION. 32 - 64 31 - 63 30 - 62 29 - 61	AFTER REMOVAL OF 64 PIN AS SEEN OSED 32 - 32x 31 - 31x 30 - 30x 29 - 29x	WHICH WILL UNTIL THESE	BE THERMAL PARTS HAVE <u>SYM</u> TB(-20V)- IQ02-1	EV HOT AFT COOLED. I BOLS: TEST POS	CARD RACK	N OPERATION VE OR INSE WIRE JUM	ON. CARE SHO ERT CARDS WI OT ADJUSTME THER TABLE	NT C IRII V21	XERCISED T APPLIED.	IN HANDLING	3
ALL CARDS A FRONT VIEW RECEPTACLE IN RACK CLA POSITION. 32 - 64 31 - 63 30 - 62 29 - 61 28 - 60 27 - 59 26 - 58 25 - 57	AFTER REMOVAL OF 64 PIN AS SEEN OSED 32 - 32x 31 - 31x 30 - 30x 29 - 29x 28 - 28x 27 - 27x	WHICH WILL UNTIL THESE	BE THERMAL PARTS HAVE SYM	ILY HOT AFT COOLED. I HEOLS: TEST POS - 1QOZ ROZ 1QIS	CARD RACK MCC (SFB)-	N OPERATION VE OR INSE VE OR INSE VE OR INSE VE OR INSE PO PO VE OR INSE PO PO PO PO PO PO PO PO PO PO PO PO PO	on. Care sho ert cards with ot adjustme rer table 1R22 - 1 1V25 - 1	IRII V21	XERCISED T APPLIED.	ATING LIGHT	3
ALL CARDS A FRONT VIEW RECEPTACLE IN RACK CLA POSITION. 32 - 64 31 - 63 30 - 62 29 - 61 28 - 60 27 - 59 26 - 58 25 - 57 24 - 56 23 - 55	AFTER REMOVAL OF 64 PIN AS SEEN OSED 32 - 32x 31 - 31x 30 - 30x 29 - 29x 28 - 28x 27 - 27x 26 - 26x 25 - 25x 24 - 24x 23 - 23x	WHICH WILL UNTIL THESE	BE THERMAL PARTS HAVE SYM TB(-20V)- IQOZ-I TB(COM)-	EV HOT AFT COOLED. I BOLS: TEST POS ROZ IQIS RIS	CARD RACK MCC (SFB)- IR 19-11 MCC (DM3)	N OPERATION VE OR INSE VE OR INSE VE OR INSE VE OR INSE VE OR INSE PO PO VE OR INSE VE OR INSE	DN. CARE SHO ERT CARDS WE DT ADJUSTME IR22 - I IV25 - I IV21 - I	IRII V21 V11 T11	XERCISED T APPLIED.	ATING LIGHT	3
ALL CARDS A FRONT VIEW RECEPTACLE IN RACK CLA POSITION. 32 - 64 31 - 63 30 - 62 29 - 61 28 - 60 27 - 59 26 - 58 25 - 57 24 - 56 23 - 55 22 - 54 21 - 53	AFTER REMOVAL 1 OF 64 PIN AS SEEN OSED 32 - 32x 31 - 31x 30 - 30x 29 - 29x 28 - 28x 27 - 27x 26 - 26x 25 - 25x 24 - 24x 23 - 23x 22 - 22x 21 - 21x	WHICH WILL UNTIL THESE	BE THERMAL PARTS HAVE <u>SYM</u> TB(-20V)- 1Q02-1 TB(COM)- 1Q15-1	ILY HOT AFT COOLED. I HEOLS: TEST POS ROZ IQIS RIS -1Q31	CARD RACK MCC (SFB)- IR 19-11 MCC (DM3) IR 28-	N OPERATION VE OR INSE VE OR INSE VE OR INSE VE OR INSE PO PO VE OR INSE PO PO VE OR INSE PO PO VE OR INSE VE OR INSE	DN. CARE SHO ERT CARDS WE DT ADJUSTME 1R22 - 1 1V25 - 1 1V21 - 1 1V11 - 1	IRII V21 V21 V11 T11 T21	XERCISED T APPLIED. (INDIC) SP2- SP3 SP4 SP5	IN HANDLING ATING LIGHT - 1T23 - 1T14 - 1T03	3
ALL CARDS A FRONT VIEW RECEPTACLE IN RACK CLA POSITION. 32 - 64 31 - 63 30 - 62 29 - 61 28 - 60 27 - 59 26 - 58 25 - 57 24 - 56 23 - 55 22 - 54 21 - 53 20 - 52 19 - 51	AFTER REMOVAL OF 64 PIN AS SEEN OSED 32 - 32x 31 - 31x 30 - 30x 29 - 29x 28 - 28x 27 - 27x 26 - 26x 25 - 25x 24 - 24x 23 - 23x 21 - 21x 20 - 20x 19 - 19x	WHICH WILL UNTIL THESE	BE THERMAL PARTS HAVE SYM TB(-20V)- 1Q02-1 TB(COM)- 1Q15-1 TB(+20V)	- IQOZ ROZ IQIS RIS - IQ31 231	CARD RACK MCC (SFB) IR 19 - II MCC (DM3) IR 28 - I IR 31 -	N OPERATION VE OR INSE VE OR INSE	DN. CARE SHO ERT CARDS WI DT ADJUSTME 1122 - 11	IRII V21 IVII T11 IT25	XERCISED T APPLIED. SP2- SP3 SP4 SP5 SP6	IN HANDLING ATING LIGHT - 1T23 - 1T14 - 1T03 - 1V03	3 F
ALL CARDS A FRONT VIEW RECEPTACLE IN RACK CLA POSITION. 32 - 64 31 - 63 30 - 62 29 - 61 28 - 60 27 - 59 26 - 58 25 - 57 24 - 56 23 - 55 22 - 54 21 - 53 20 - 52	AFTER REMOVAL I OF 64 PIN AS SEEN OSED 32 - 32x 31 - 31x 30 - 30x 29 - 29x 28 - 28x 27 - 27x 26 - 26x 25 - 25x 24 - 24x 23 - 23x 24 - 24x 25 - 25x 24 - 24x 23 - 23x 21 - 21x 20 - 20x 19 - 19x 18 - 18x 17 - 17x	WHICH WILL UNTIL THESE	BE THERMAL PARTS HAVE SYM TB(-20V)- 1Q02-1 TB(COM)- 1Q15-1 TB(420V) 1Q31-1R	-1Q02 R02 1Q15 R15 -1Q31 -1T05	TER BEING I DO NOT REMO ST CARD RACK MCC (SFB)- IR 19 - 11 MCC (DM3) IR 28 - 1 IR 31 - 1716 -	N OPERATION VE OR INSE WIRE JUM - $IR22$ R21)- $IR26$ Q10 ITI3 IQ29 - $IQ28$	DN. CARE SHO ERT CARDS WE DER TABLE $\frac{1R22 - 1}{1V25 - 1}$ $\frac{1V25 - 1}{1V21 - 1}$ $\frac{1V11 - 1}{1T1 - 1}$	IRII V21 V21 V21 V21 V21 V21 V21 V21 V21 V21	XERCISED T APPLIED. SP2- SP3 SP4 SP5 SP6 SP7	IN HANDLING ATING LIGHT - 1T23 - 1T14 - 1T03 - 1V03 - 1V14	3 F
ALL CARDS A FRONT VIEW RECEPTACLE IN RACK CLA POSITION. 32 - 64 31 - 63 30 - 62 29 - 61 28 - 60 27 - 59 26 - 58 25 - 57 24 - 56 23 - 55 22 - 54 21 - 53 20 - 52 19 - 51 18 - 50 17 - 49 16 - 48	AFTER REMOVAL I OF 64 PIN AS SEEN OSED 32 - 32X 31 - 31X 30 - 30X 29 - 29X 28 - 28X 27 - 27X 26 - 26X 25 - 25X 24 - 24X 23 - 23X 24 - 24X 23 - 23X 27 - 27X 26 - 26X 27 - 27X 27 - 27X 26 - 26X 27 - 27X 26 - 26X 27 - 27X 26 - 26X 27 - 27X 27 - 27X 27 - 27X 26 - 26X 27 - 27X 27 - 27X 27 - 27X 27 - 27X 27 - 27X 27 - 27X 26 - 20X 19 - 19X 18 - 18X 17 - 17X 16 - 16X	WHICH WILL UNTIL THESE	BE THERMAL PARTS HAVE SYM TB(-20V)- 1Q02-1 TB(COM)- 1Q15-1 TB(20V) 1Q31-1R TB(-30V)- 1T05-1 1T05-1	-1Q02 R02 1Q15 R15 -1Q31 231 -1T05 V13	TER BEING I DO NOT REMO ST CARD RACK MCC (SFB) - IR 19 - II MCC (DM3) IR 28 - I IR 31 - IR 31 - IR 16 - IQ 29 X -	N OPERATION VE OR INSE WIRE JUM -IR22 R21 -IR26 Q10 1T13 IQ29 -IQ28 IQ23	DN. CARE SHO ERT CARDS WE DT ADJUSTME $\frac{1}{1}$	ULD BE E: TH POWER IRII V21 V21 V21 V21 V21 V21 V21 V21	XERCISED T APPLIED. SP2- SP3 SP4 SP5 SP6 SP7 2TB (IN HANDLING - 1T23 - 1T23 - 1T14 - 1T03 - 1V03 - 1V14 - 1V23	3 F
ALL CARDS A FRONT VIEW RECEPTACLE IN RACK CLA POSITION. 32 - 64 31 - 63 30 - 62 29 - 61 28 - 60 27 - 59 26 - 58 25 - 57 24 - 56 23 - 55 22 - 54 21 - 53 20 - 52 19 - 51 18 - 50 17 - 49 16 - 48 15 - 47 14 - 46	AFTER REMOVAL I OF 64 PIN AS SEEN OSED 32 - 32x 31 - 31x 30 - 30x 29 - 29x 28 - 28x 27 - 27x 26 - 26x 25 - 25x 24 - 24x 23 - 23x 22 - 22x 21 - 21x 20 - 20x 19 - 19x 18 - 18x 17 - 17x 16 - 16x 15 - 15x 14 - 14x	WHICH WILL UNTIL THESE	BE THERMAL PARTS HAVE SYM TB(-20V)- 1Q02-1 TB(COM)- 1Q15-1 TB(20V) 1Q31-1R TB(-30V)-	-1Q02 R02 1Q15 R15 -1Q31 231 -1T05 V13	TER BEING I DO NOT REMO ST CARD RACK MCC (SFB)- IR 19 - 11 MCC (DM3) IR 28 - 1 IR 31 - 1 IR 3 - 1 I	N OPERATION VE OR INSE VE OR INSE WIRE JUM -IR22 R21 -IR26 Q10 1T13 IQ29 -IQ28 IQ23 IQ13	DN. CARE SHO ERT CARDS WE DER TABLE $\frac{ R22 - }{ V25 - }$ $\frac{ V25 - }{ V21 - }$ $\frac{ V11 - }{ T11 - }$ $\frac{ T11 - }{ T21 - }$ $\frac{ Q02 - }{ Q02 - }$ $\frac{ Q30 - }{ Q30 - }$	ULD BE E: TH POWER IRII V21 V21 V21 V21 V21 V21 V21 V21	XERCISED T APPLIED. SP2- SP3 SP4 SP5 SP6 SP7 2TB (SP11-	ATING LIGHT - IT23 - IT23 - IT14 - IT03 - IV14 - IV23 6- 2TB16	3 F
ALL CARDS A FRONT VIEW RECEPTACLE IN RACK CLA POSITION. 32 - 64 31 - 63 30 - 62 29 - 61 28 - 60 27 - 59 26 - 58 25 - 57 24 - 56 23 - 55 22 - 54 21 - 53 20 - 52 19 - 51 18 - 50 17 - 49 16 - 48 15 - 47 14 - 46 13 - 45 12 - 44	AFTER REMOVAL I OF 64 PIN AS SEEN OSED 32 - 32x 31 - 31x 30 - 30x 29 - 29x 28 - 28x 27 - 27x 26 - 26x 25 - 25x 24 - 24x 23 - 23x 22 - 22x 21 - 21x 20 - 20x 19 - 19x 18 - 18x 17 - 17x 16 - 16x 15 - 15x 14 - 14x 13 - 13x 12 - 12x	WHICH WILL UNTIL THESE	BE THERMAL PARTS HAVE SYM TB(-20V)- 1Q02-1 TB(COM)- 1Q15-1 TB(20V) 1Q31-1R TB(-30V)- 1T05-1 1T05-1	-1Q02 R02 1Q15 R15 -1Q31 231 -1T05 V13	TER BEING I DO NOT REMO ST CARD RACK MCC(SFB)- IR 19 - 11 MCC(DM3) IR 28 - 1 IR 31 - 1 IR 3 - 1 IR	N OPERATION VE OR INSE VE OR INO	DN. CARE SHO ERT CARDS WI DT ADJUSTME R22 - 1 V25 - 1 V	ULD BE E: TH POWER IRII V21 V21 V21 V21 V21 V21 V21 V21	XERCISED APPLIED. SP2- SP3 SP4 SP5 SP6 SP6 SP7 ZTB (SP17 SP17	ATING LIGHA - IT23 - IT23 - IT14 - IT03 - IV14 - IV23 6- 2TB16 - IR29	G
ALL CARDS A FRONT VIEW RECEPTACLE IN RACK CLA POSITION. 32 - 64 31 - 63 30 - 62 29 - 61 28 - 60 27 - 59 26 - 58 25 - 57 24 - 56 23 - 55 22 - 54 21 - 53 20 - 52 19 - 51 18 - 50 17 - 49 16 - 48 15 - 47 14 - 46 13 - 45 12 - 44 11 - 43 10 - 42	AFTER REMOVAL I OF 64 PIN AS SEEN OSED 32 - 32X 31 - 31X 30 - 30X 29 - 29X 28 - 28X 27 - 27X 26 - 26X 25 - 25X 24 - 24X 23 - 23X 22 - 22X 21 - 21X 20 - 20X 19 - 19X 18 - 18X 17 - 17X 16 - 16X 15 - 152 14 - 14X 13 - 13X 12 - 12X 10 - 10X	WHICH WILL UNTIL THESE	BE THERMAL PARTS HAVE SYM TB(-20V)- 1Q02-1 TB(COM)- 1Q15-1 TB(20V) 1Q31-1R TB(-30V)- 1T05-1 1T05-1	-1Q02 R02 1Q15 R15 -1Q31 231 -1T05 V13	TER BEING I DO NOT REMO ST CARD RACK MCC(SFB)- IR 19 - 11 MCC(DM3) IR 28 - 12 IR 31 - 12 IR 31 - 12 IR 31 - 12 IR 28 - 12 IR 28 - 12 IR 29 - 12 IR 2	N OPERATION VE OR INSE VE OR INSE	DN. CARE SHO ERT CARDS WI DER TABLE R22 - 1 V25 - 1 V25 - 1 V25 - 1 V21 - 1 V11 - 1 T11 - 1 T11 - 1 T21 - 1 002 - 1 027 - 1 027 - 1 V24 - 1	IRII V21 V21 V21 V21 V21 V21 V21 V21 V21 V21	XERCISED APPLIED. SP2- SP3 SP4 SP5 SP6 SP6 SP7 ZTB (SP17 SP17	ATING LIGHT - IT23 - IT23 - IT14 - IT03 - IV03 - IV14 - IV23 6- 2TB16 - IR29 - IR25	G
ALL CARDS A FRONT VIEW RECEPTACLE IN RACK CLA POSITION. 32 - 64 31 - 63 30 - 62 29 - 61 28 - 60 27 - 59 26 - 58 25 - 57 24 - 56 23 - 55 22 - 54 21 - 53 20 - 52 19 - 51 18 - 50 17 - 49 16 - 48 15 - 47 14 - 46 13 - 45 12 - 44 11 - 43	AFTER REMOVAL I OF 64 PIN AS SEEN OSED 32 - 32x 31 - 31x 30 - 30x 29 - 29x 28 - 28x 27 - 27x 26 - 26x 25 - 25x 24 - 24x 23 - 23x 22 - 22x 21 - 21x 20 - 20x 19 - 19x 18 - 18x 17 - 17x 16 - 16x 15 - 15x 14 - 14x 13 - 13x 12 - 12x 11 - 11x 10 - 10x 9 - 9x	WHICH WILL UNTIL THESE	BE THERMAL PARTS HAVE SYM TB(-20V)- 1Q02-1 TB(COM)- 1Q15-1 TB(20V) 1Q31-1R TB(-30V)- 1T05-1 1T05-1	-1Q02 R02 1Q15 R15 -1Q31 231 -1T05 V13	TER BEING I DO NOT REMO ST CARD RACK MCC(SFB)- IR 19 - 11 MCC(DM3) IR 28 - 11 IR 28 - 12 IR 31 - 12 IR 28 - 12 IR 29 - 12 IR 2	N OPERATION VE OR INSE VE OR INSE	DN. CARE SHO ERT CARDS WE DER TABLE V25 - 1 V21 - 1 V22 - 1 Q02	IRII V21 V21 V21 V21 V21 V21 V21 V21 V21 V21	XERCISED APPLIED. SP2- SP3 SP4 SP5 SP6 SP6 SP7 2TB (SP11- SP12 SP13	ATING LIGHT - IT23 - IT23 - IT14 - IT03 - IV03 - IV14 - IV23 6- 2TB16 - IR29 - IR25	G

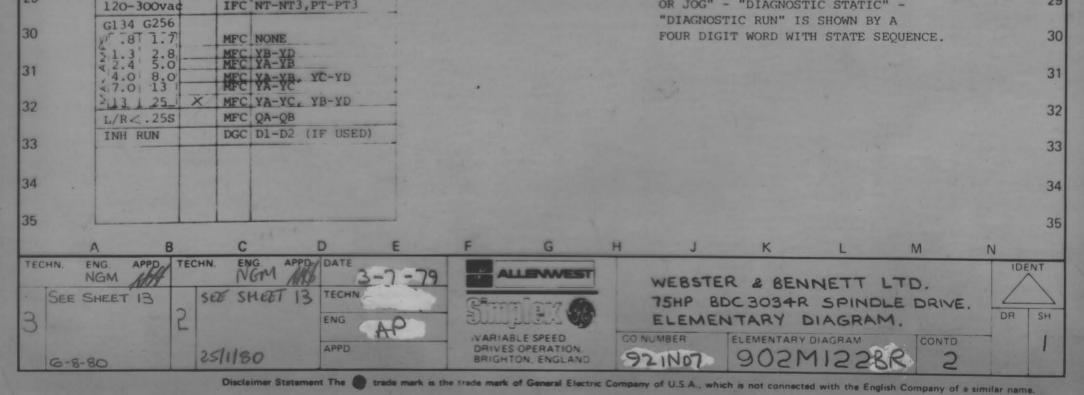


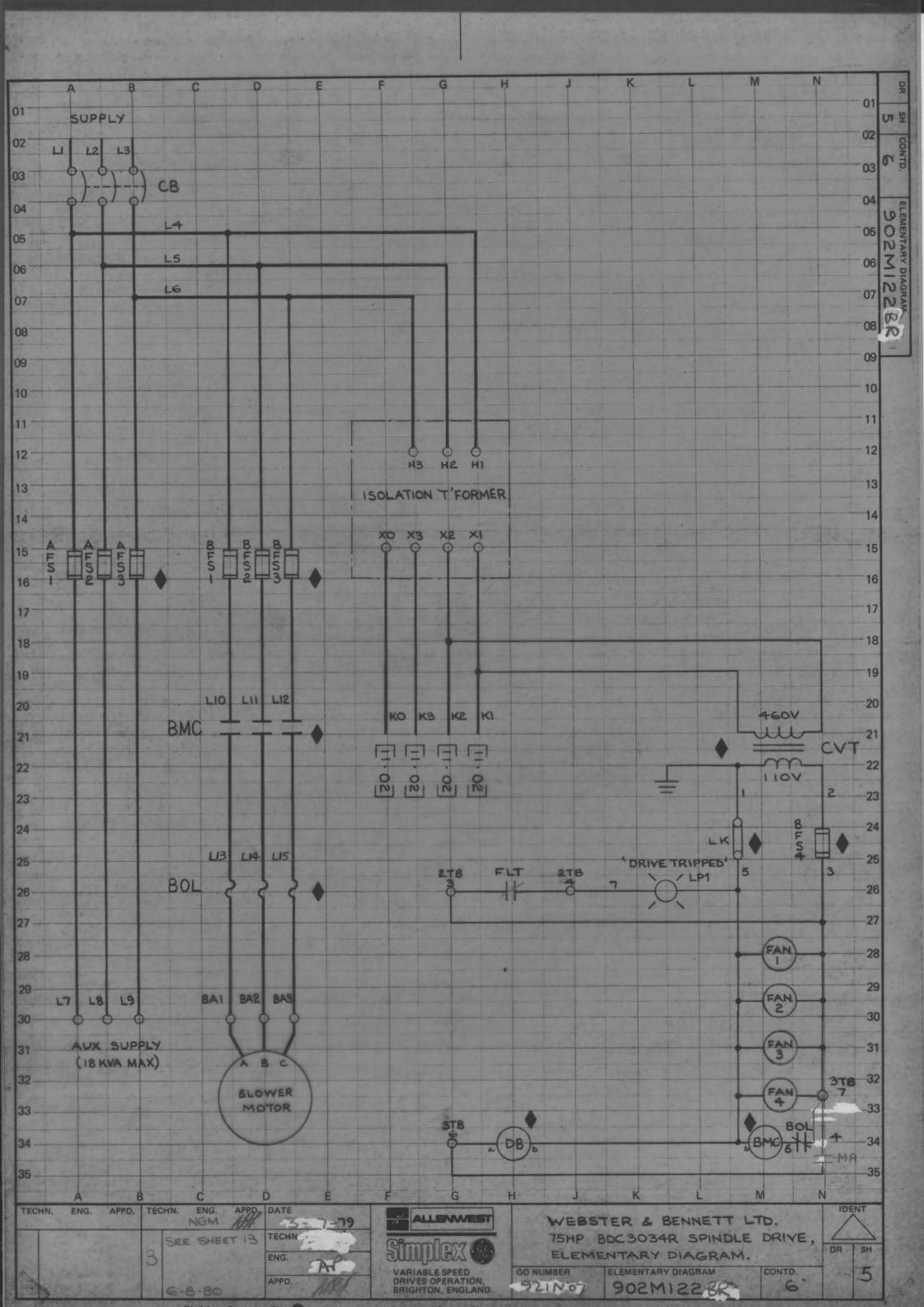


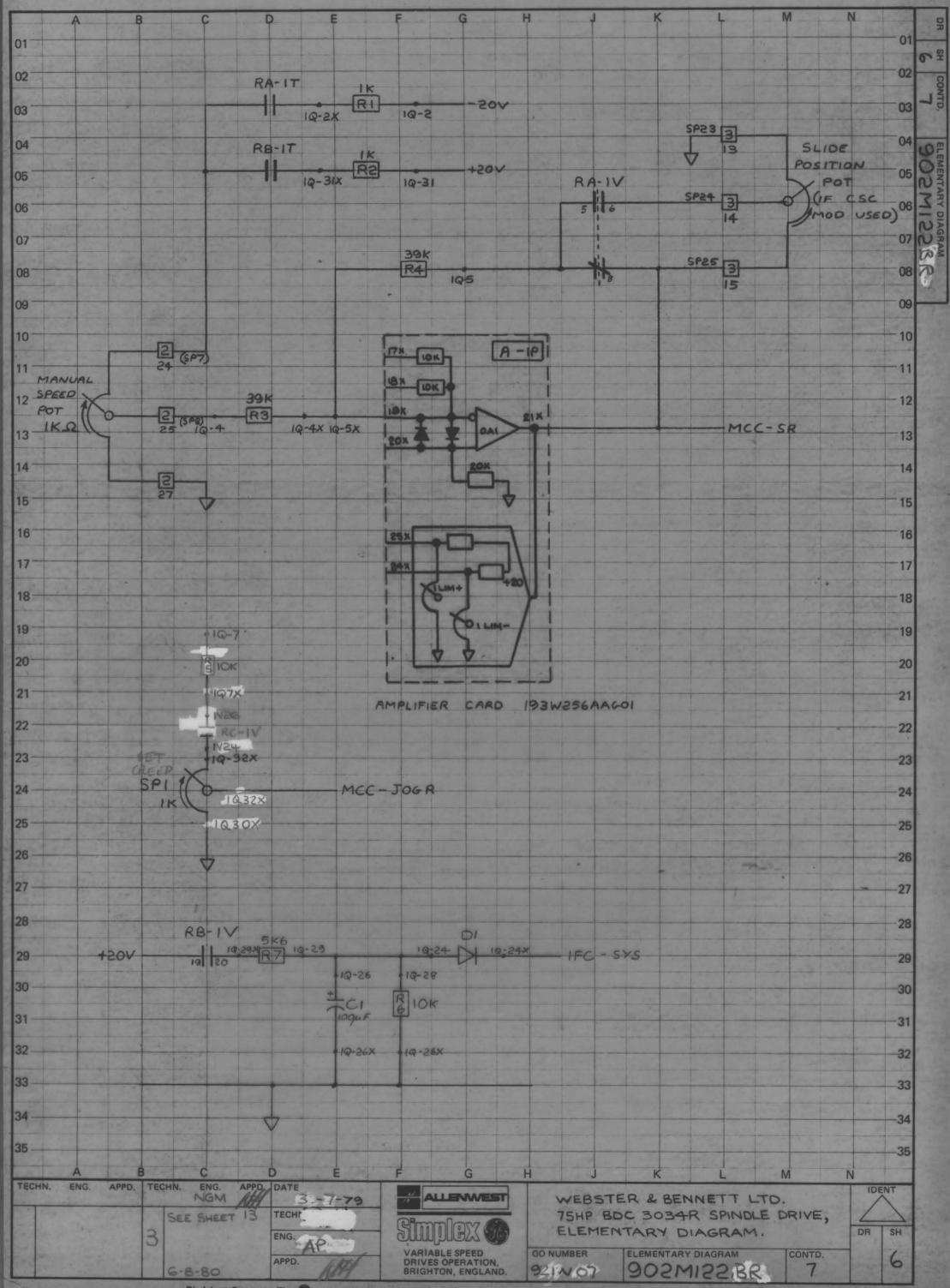
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A B C D E F	G	н	J K L M N	
				01
VOLTAGE POLARIES SHOWN ARE FOR MOTORING DA1(+)		SIGNAL DE	FINITIONS AND LOCATIONS	02
HARDWARE ABBREVIATIONS				
				03
MCC MAIN CONTROL CARD IFC INTERFACE CARD		* CEMF	COUNTER EMF (3-16)	04
PSC POWER SUPPLY CARD		* CFB CMFA	CURRENT FEEDBACK (3-16) ABSOLUTE VALUE CEMF (3-08)	04
SCR THYRISTOR ASSEMBLY		CMFA CRM	CROSSOVER MODIFY (4.11)	05
DGC DIAGNOSTIC CARD		DFP	DELAYED FIRING POWER (3-25)	00
MFC MOTOR FIELD CONTROL		* DR	DRIVER REFERENCE (3.33)	00
		* EAO	ERROR AMP OUTPUT (3.33)	06
MDR. MODIFICATION RACK		EST	EXTERNAL FLT STOP INPUT (3.14)	
		FALT	FAULT (3.14)	07
SYMBOLS AMPLIFIERS VI		* FC	FIELD CURRENT (NS26)	
TR2 VI VO		FDR	FIELD DIAGNOSTIC REFERENCE (4.08) FIELD ECONOMY ADJUST (3.25)	08
		FEA	FIELD ECONOMY ADJUST (3.25) FIELD FAULT (2.28)	
		IABS	MOTOR CURRENT ABSOLUTE (3.09)	09
V YR2 P		ILA	CURRENT LIMIT ADJUST (3.23)	
$VO = \frac{-R_2}{R_1}$ VI $VO = (1 + \frac{R_2}{R_1})$ VI		IMET	CURRENT SIGNAL FOR METER (3.10)	10
KP AL		* IPU	INITIAL PULSE (3.20)	
CASE GROUND		* LR	LOCAL REF. FROM DGC (3.33)	11
		* JOG	JOG SWITCH INPUT (3.23)	
$\frac{\sqrt{2}}{ ABS }$ VO = SIGN () X ABSOLUTE VALUE OF VI		* JOGR	JOG REFERENCE INPUT (3.31)	12
STAB ON TERMINAL		* MAC	MAX/MA CONTROL SIGNAL (3.20)	
STAB ON TERMINAL		MSW * OSC	MODE SWITCH (3.30) OSCILLATOR (3.17)	10
TERMINAL AT 2TB, 3TB, 4TB, RTB.		* OSC * PCR	PHASE CONTROL REF. (3.26)	13
EX: 9 2 - 2TB9; X2 R - RTBX2		* PRE	DRIVE PRECONDITION (3.21)	
		ØSEQ	PHASE SEQUENCE (3.14)	14
O TERMINAL AT T.B.'s		RERR	REGULATOR ERROR (3-27)	
THE DOTTINGTION PROVIDE AND THE CARD		RIJ	INTEGRATOR SUMMING JUNCTION (3.27)	15
POTENTIOMETER ARROWS ON THE CARD ELEMENTARY DIAGRAMS INDICATE THE		RJ	REGULATOR SUMMING JUNCTION (3.31)	
WIPER DIRECTION AS THE POTENTIOMETER		RRA	REGULATOR RESPONSE ADJUST (3.30)	16
SHAFT IS ROTATED CLOCKWISE TO INCREASE		RSET	RESET (3.16)	
FUNCTION.		* RTR	READY TO RUN (3.16)	17
		* RUN * SA-C	RUN SWITCH INPUT (3.21) PHASE SYN OUTPUT (3.16)	
THESE RESISTORS ARE CRIMPED IN WIRE		* SA-C * SFB	PHASE SYN OUTPUT (3.16) SPEED FEEDBACK (3.20)	10
HARNESS.		* SFB SMET	SPEED FEEDBACK (3.20) SPEED SIGNAL FOR METER (3.12)	18
MTD. ON PANEL		* SR	SYSTEM REFERENCE INPUT (3.29)	-
FUNCTION USE LOC JUMPERS		* SYS	SYSTEM FAULT TRIP (3.13)	19
60HZ MCC AA-AS, BA-BS, CA-CS		* TA	OUTPUT FOR TACHO TRIP ADJUST (3.20)	
MFC ZA-ZB (IF USED)		TF	TACHO FAULT (NS28)	20
SOHZ MCC AA-AF, BA-BF, CA-CF		* TFB	TACHOMETER FEEDBACK (3.20)	
IOC-400% × NONE		TFR	AC TACHO FREQUENCY OUTPUT (3.13)	21
-500% IFC I-IHI		* TR	TIMED REFERENCE (3-33)	
-300% IFC I-ILO		* VFB	VOLTAGE FEEDBACK (3.19)	22
SR5 - 9v (NONE)		* WFR	WEAK FIELD REFERENCE (3.20)	
9 - 20v × MCC SRH-COM JOGR 10v (NONE)		(* - TT	ST POINT ON DOOR FRONT)	23
$20V \times MCC JH - COM$ LT. 3-7sec. × (NONE)				24
2 - 60sec MCC 3320FROM LT1TOCOM		MAPPI	NG SYSTEM	
VREG IFC NT-CEMF, CC-COM			NO DIDIDA	25
DC TACHO X (NONE)		(NS/P	S/TS) PS - PAST SHEET	
AC TACHO MCC AT1-AT2			NS - NEXT SHEET	26
TACHO FILT IFC TC-TC			TS - THIS SHEET	26
TACHO V.				
24-64vdc IFC NT-NT1.PT-PT1			and the second	27
27-71vac IFC NT-NT1, PT-PT1 60-160vdc IFC NT-NT2, PT-PT2				
		NOTE :	T FIELD EFFECT TRANSISTOR: THE	28
			CLOSED/OPEN (I/O) STATE OF THESE	
120-300vac IFC NT-NT3.PT-PT3			SWITCHED FOR "PRECONDITION" - "RUN" OR JOG" - "DIAGNOSTIC STATIC" -	29
			UR JUG - DIAGNOSTIC STATIC -	201

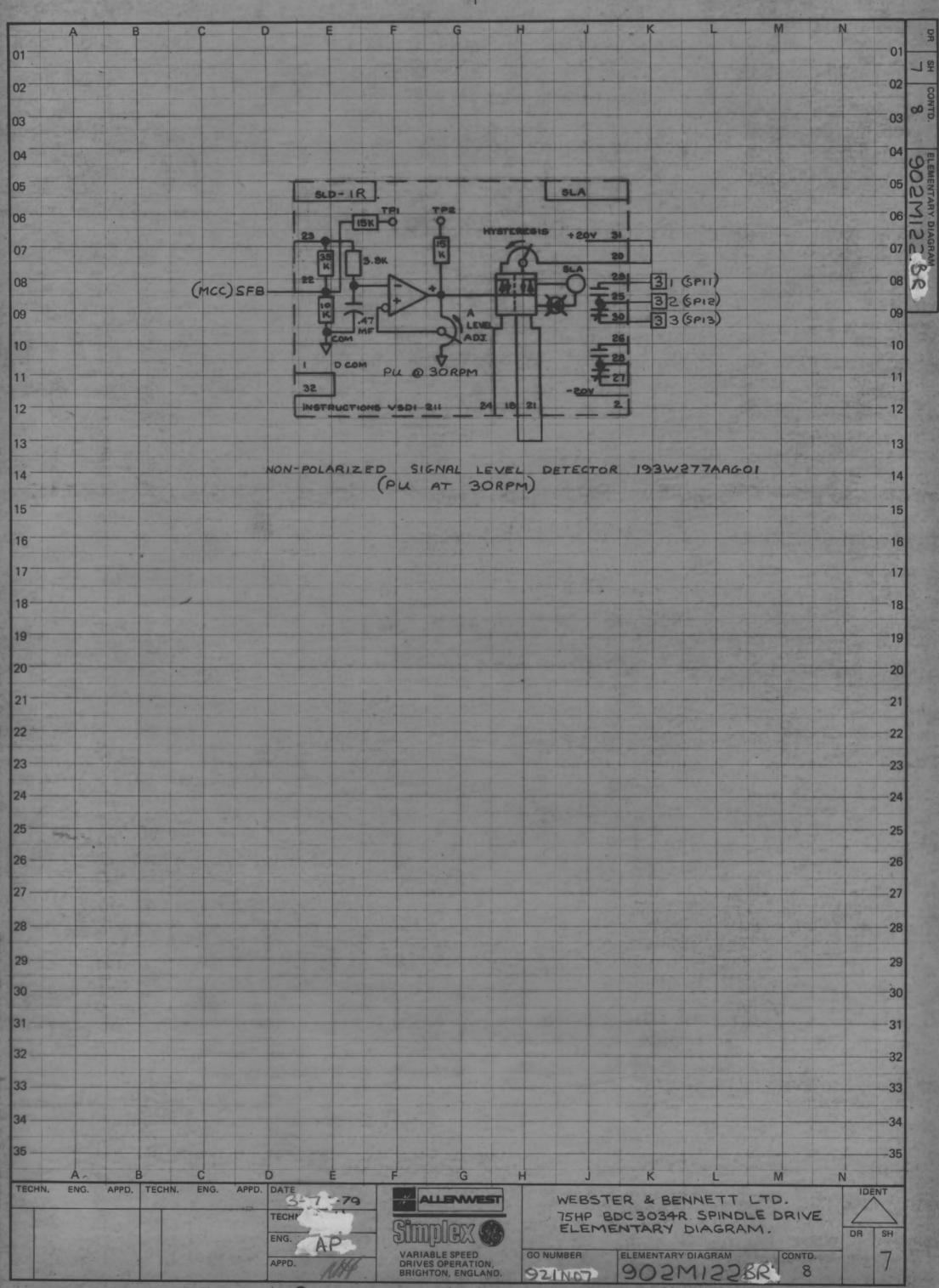
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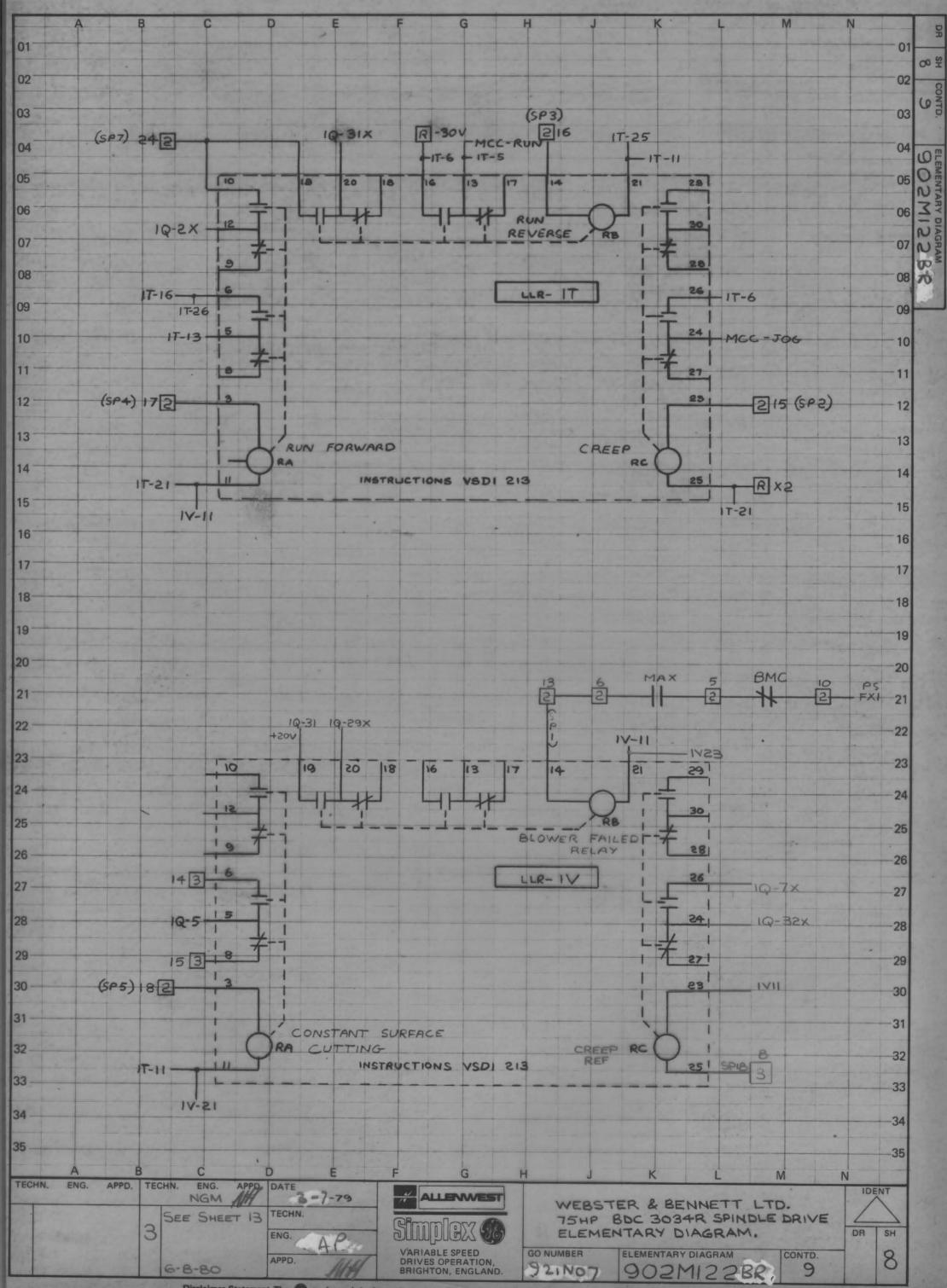




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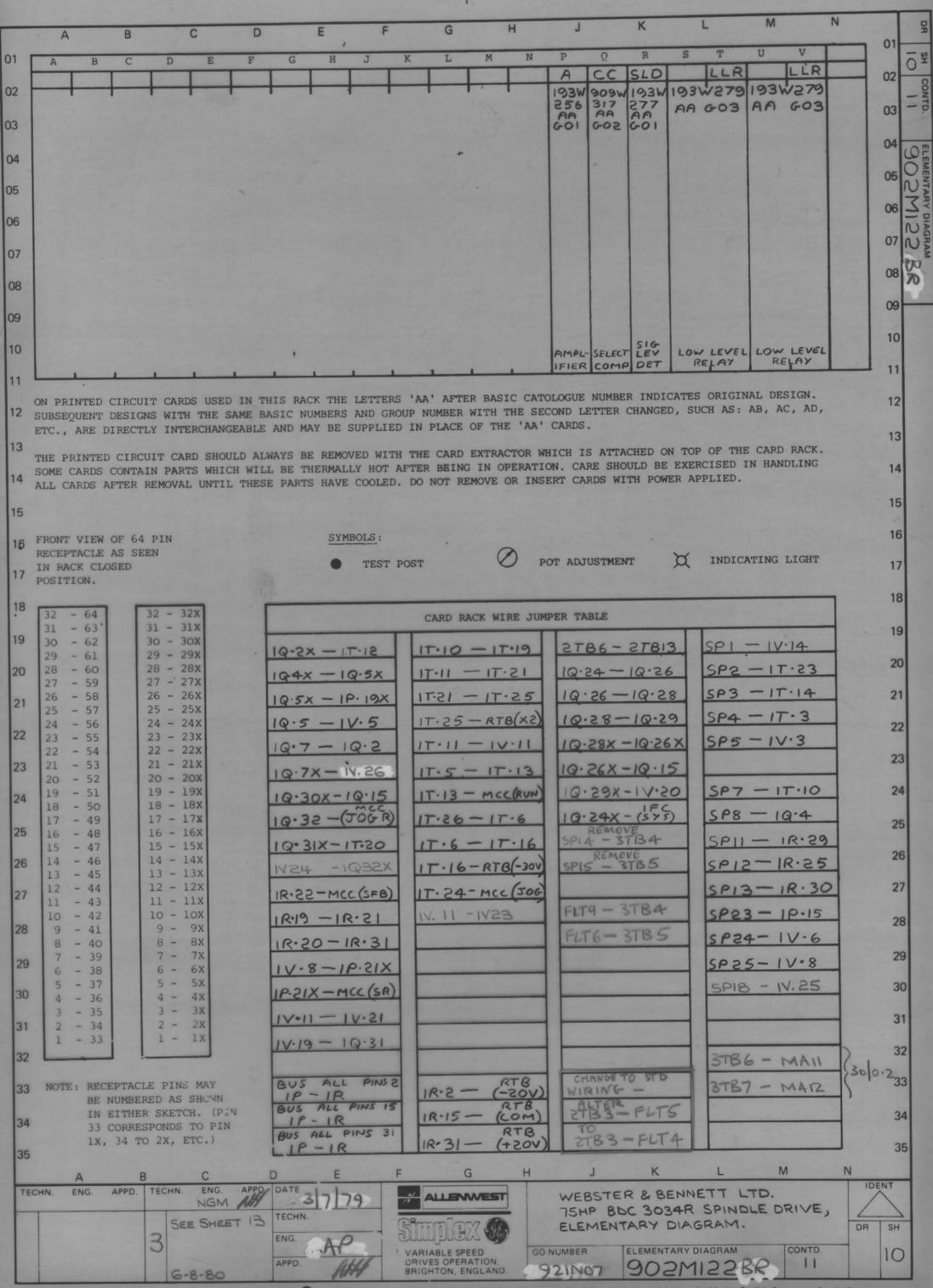


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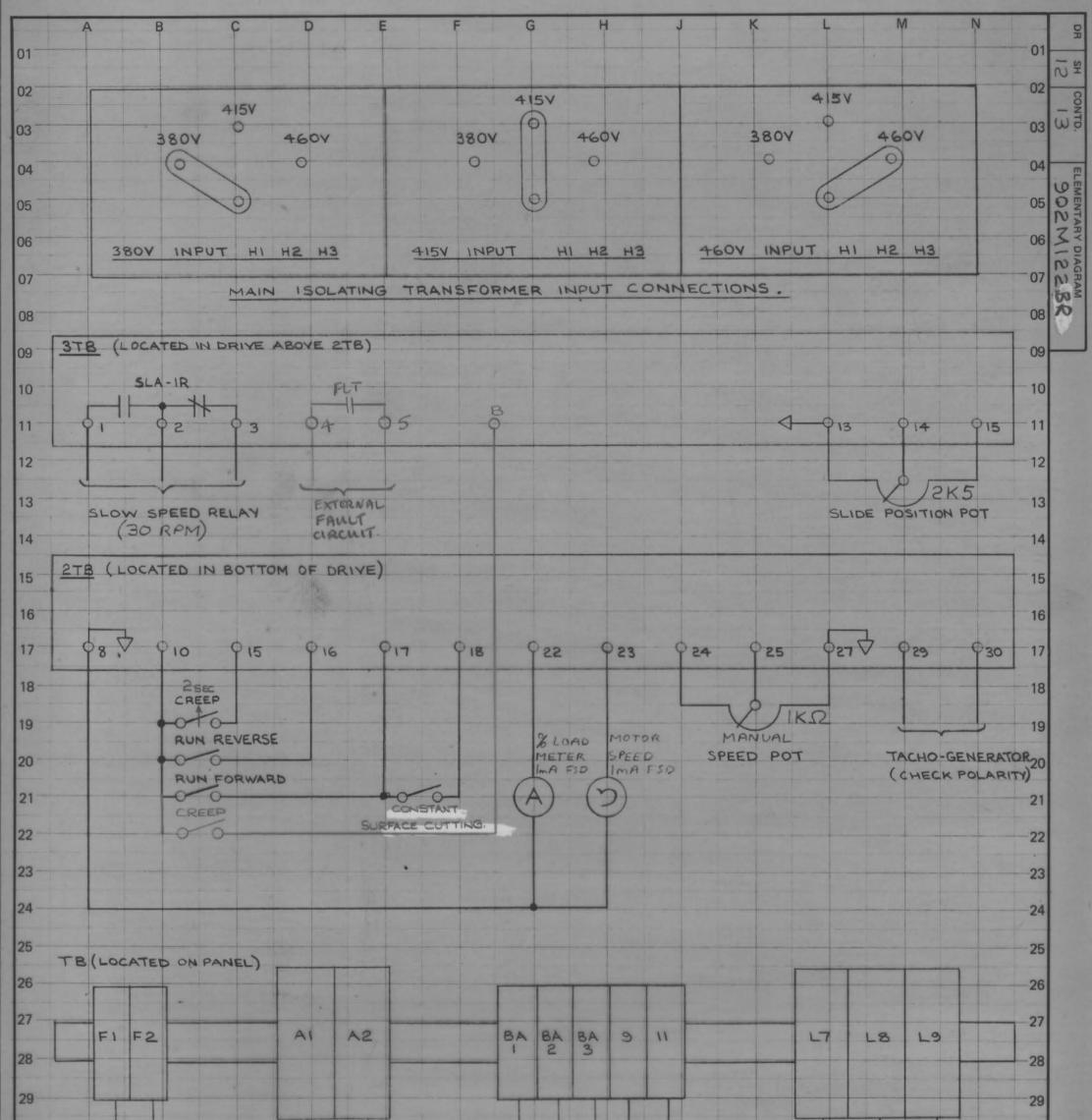
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1/MIN [04-28]	DAI				
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	278 30				
			27810		1
12	FXI				1
	RB-IV	RC-IT		REEP RUN / RUN	7
+ 844	278 13	X2	2TB 15	RVSE FWD	
+ BMC +					
	2787	RB-IT	OTOIC		1
13		+· ()-	27816		
	2786 7-7 MAX	RA-IT	1000		
	2тв5		27817		1000
acres (3TB4	RA-IV		CONSTANT SURFACE CUTTING	
FAULT	STBE FLT		2TB18 3788	CREEP	-2
CIRCUIT [RC-IV		MOTOR	2
	3 278 3	-0-	2788 8	OLD THERMOSTAT	
TO TRIPPED	FLT		V 2789		2
LIGHT CIRCUIT	2784		1 0 11	EXTERNAL	2
				STOP (IF REQD)	2
	4 3TB 6		378 13	<u> </u>	2
STARTER CCT.	3 MA		3TB14	SLIDE POS	NOITION
[05-33]	378 7		3TB 15	POT (IF CS	SED) 2
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(C/O @ 30 RPM)	зтвз #		278 27	REF ON 2T	B 25)2
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A B C ENG. APPD. TECHN. ENG.		G H	J K	L M N	
NGM	MH 3779 _ ALLE			BENNETT LTD.	IDENT
A SEE SHEET			LEMENTARY	R SPINDLE DRIVE,	DR SH
	ENG. AP				-

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30			9 11	30
31	DRIVE MOTOR	DRIVE MOTOR	DRIVE BLOWER THERMOSTAT AUXILIAR	TY SUPPLY 31
32	FIELD	ARMATURE	MOTOR HIDOLO (IB KVA	
33			CORRECT ROTATION) (DYNAMIC BRAKE ONLY, NEEDS TO BE RESET	33
34			AT DRIVE)	34
35 ——				35
	A B C	DE	F G H J K L	M N
TECHN.	ENG. APPD. TECHN. ENG.		WEBSTER & BENNETT	LTD.
1	SEE SHEE	ET 13 TECHN.	PERENDING 75HP BDC3034R SPIND	LE DRIVE.
100	3	ENG. A.D.	SUUJUEX CUSTOMERS CONNE	CTIONS. DR SH
	6-8-80	APPD.	VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND. 921N07 902M122BR	CONTD. 12

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A B C D E F	G	15 . 5 4	н	J K L M
		14	i.	
VOLTAGE POLARIES SHOWN ARE FOR MOTORING DA1(+)		SIC	GNAL DE	FINITIONS AND LOCATIONS
HARDWARE ABBREVIATIONS				
MCC MAIN CONTROL CARD		*	CEMF	COUNTER EMF (3-16)
IFC INTERFACE CARD		*	CFB	CURRENT FEEDBACK (3-16)
PSC POWER SUPPLY CARD			CMFA	ABSOLUTE VALUE CEMF (3-08)
SCR THYRISTOR ASSEMBLY			CRM	CROSSOVER MODIFY (4.11)
DGC DIAGNOSTIC CARD			DFP	DELAYED FIRING POWER (3.25)
MFC MOTOR FIELD CONTROL		*	DR	DRIVER REFERENCE (3.33)
		*	EAO	ERROR AMP OUTPUT (3.33)
MDR MODIFICATION RACK			EST	EXTERNAL FLT STOP INPUT (3.14)
			FALT	FAULT (3.14)
SYMBOLS AMPLIFIERS		*	FC	FIELD CURRENT (NS26)
- VI VO			FDR	FIELD DIAGNOSTIC REFERENCE (4.08)
			FEA	FIELD ECONOMY ADJUST (3.25)
VI DI VO RI VO			FF	FIELD FAULT (2.28)
			IABS	MOTOR CURRENT ABSOLUTE (3.09)
			ILA	CURRENT LIMIT ADJUST (3.23)
$VO = \frac{-R2}{R1} VI \qquad VO = (1 + \frac{R2}{R1}) VI$			IMET	CURRENT SIGNAL FOR METER (3.10)
		-	IPU	INITIAL PULSE (3.20)
CASE GROUND		-	LR JOG	LOCAL REF. FROM DGC (3.33) JOG SWITCH INPUT (3.23)
VI Dun		*	JOGR	JOG REFERENCE INPUT (3.31)
ARS VO = SIGN () X ABSOLUTE VALUE OF VI			MAC	MAX/MA CONTROL SIGNAL (3.20)
STAB ON TERMINAL			MSW	MODE SWITCH (3.30)
Y STAB ON TERMINAL			OSC	OSCILLATOR (3.17)
TERMINAL AT 2TB, 3TB, 4TB, RTB.		*	PCR	PHASE CONTROL REF. (3.26)
EX: 9 2 - 2TB9; X2 R - RTBX2		*	PRE	DRIVE PRECONDITION (3.21)
			ØSEO	PHASE SEQUENCE (3.14)
O TERMINAL AT T.B.'s			RERR	REGULATOR ERROR (3.27)
			RIJ	INTEGRATOR SUMMING JUNCTION (3.27)
FOTENTIOMETER ARROWS ON THE CARD ELEMENTARY DIAGRAMS INDICATE THE			RJ	REGULATOR SUMMING JUNCTION (3.31)
			RRA	REGULATOR RESPONSE ADJUST (3.30)
WIPER DIRECTION AS THE POTENTIOMETER			RSET	RESET (3.16)
SHAFT IS ROTATED CLOCKWISE TO INCREASE		*	RTR	READY TO RUN (3.16)
FUNCTION.		*	RUN	RUN SWITCH INPUT (3.21)
A MURCH DESTONOR AND COTMOED IN MIDE		*	SA-C	PHASE SYN OUTPUT (3.16)
THESE RESISTORS ARE CRIMPED IN WIRE HARNESS.		*	SFB	SPEED FEEDBACK (3.20)
MTD. ON PANEL			SMET	SPEED SIGNAL FOR METER (3.12)
		*	SR	SYSTEM REFERENCE INPUT (3.29)
			SYS	SYSTEM FAULT TRIP (3.13)
60HZ X MCC AA-AS, BA-BS, CA-CS			TA	OUTPUT FOR TACHO TRIP ADJUST (3.20)
X MFC ZA-ZB (IF USED)			TF	TACHO FAULT (NS28)
50HZ MCC AA-AF, BA-BF, CA-CF			TFB	TACHOMETER FEEDBACK (3.20)
IOC-400% × NONE			TFR	AC TACHO FREQUENCY OUTPUT (3.13)
-500% IFC I-IHI	· ·		TR	TIMED REFERENCE (3-33)
-300% IFC I-ILO -			VFB	VOLTAGE FEEDBACK (3.19)
SR5 - 9v (NONE)			WFR	WEAK FIELD REFERENCE (3.20)
9 - 20v X MCC SRH-COM		,	*	ST POINT ON DOOR FRONT)
JOGR 10V (NONE)	*		1E	ST POINT ON DOOR FRONT)
20V X MCC JH - COM				
LT. 3-7sec. × (NONE)				
2 - 60sec MCC 3320FROM LTITOCOM			MAPPI	NG SYSTEM
VREG _ IFC NT-CEMF, CC-COM				
DC TACHO X (NONE)			(NS/P	S/TS) PS - PAST SHEET
AC TACHO MCC AT1-AT2				NS - NEXT SHEET
TACHO FILT IFC TC-TC				TS - THIS SHEET
TACHO V.				
24-64vdc IFC NT-NTL PT-PTL				
27-71vac IFC NT-NT1, PT-PT1 60-160vdc IFC NT-NT2, PT-PT2				
			NOTE :	FIELD EFFECT TRANSISTOR: THE
66-177vac IFC NT-NT2, PT-PT2				CLOSED/OPEN (I/O) STATE OF THESE
110-300vde X IFC NT-NT3, PT-PT3				SWITCHED FOR "PRECONDITION" - "RUN"
120-300vac IFC NT-NT3, PT-PT3				OR JOG" - "DIAGNOSTIC STATIC" -
3300 101				"DIAGNOSTIC RUN" IS SHOWN BY A

DR

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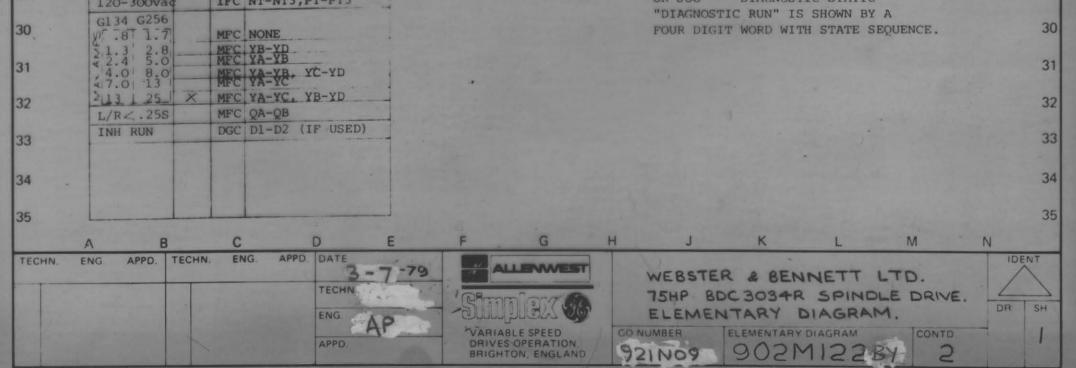
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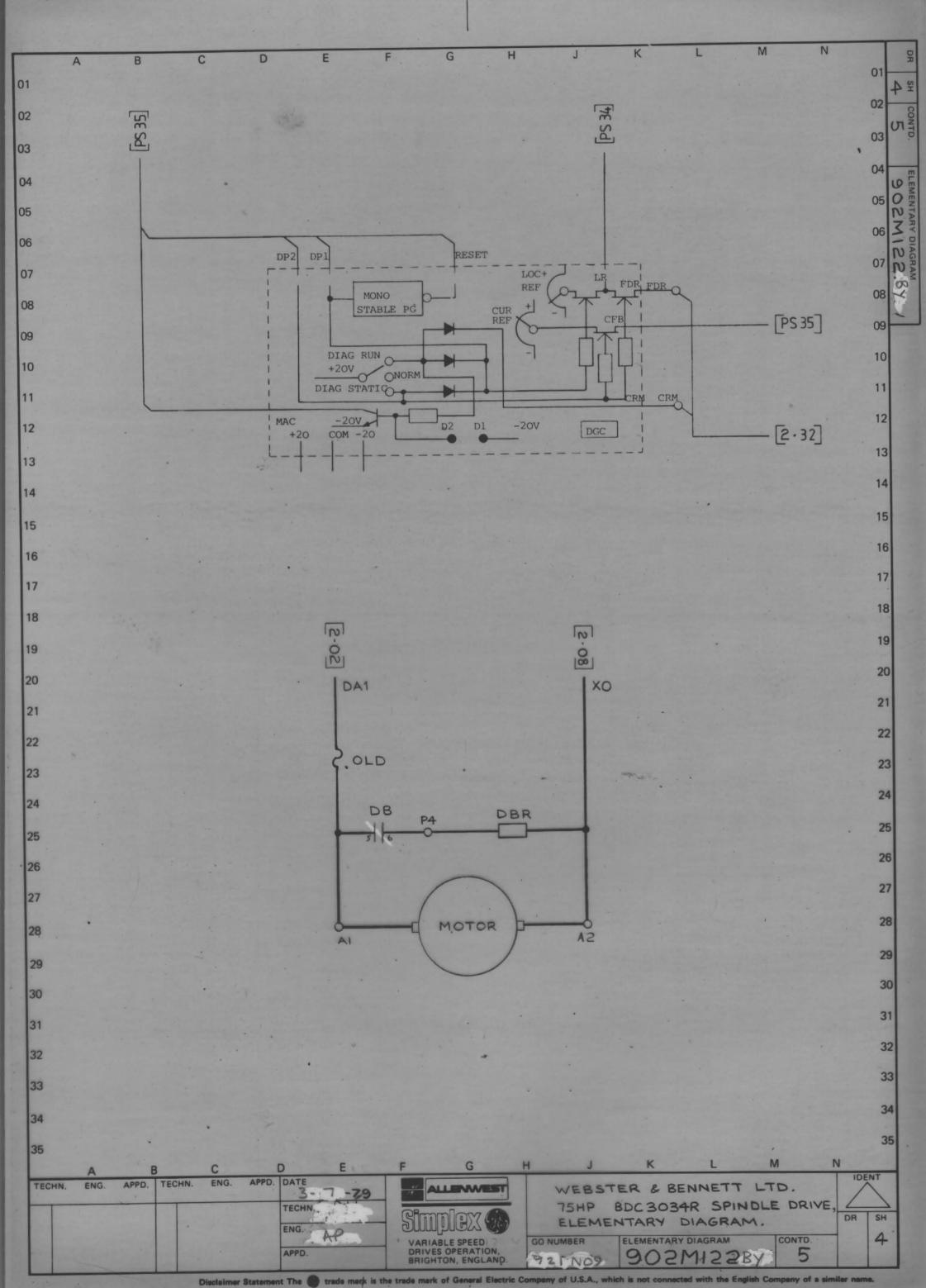
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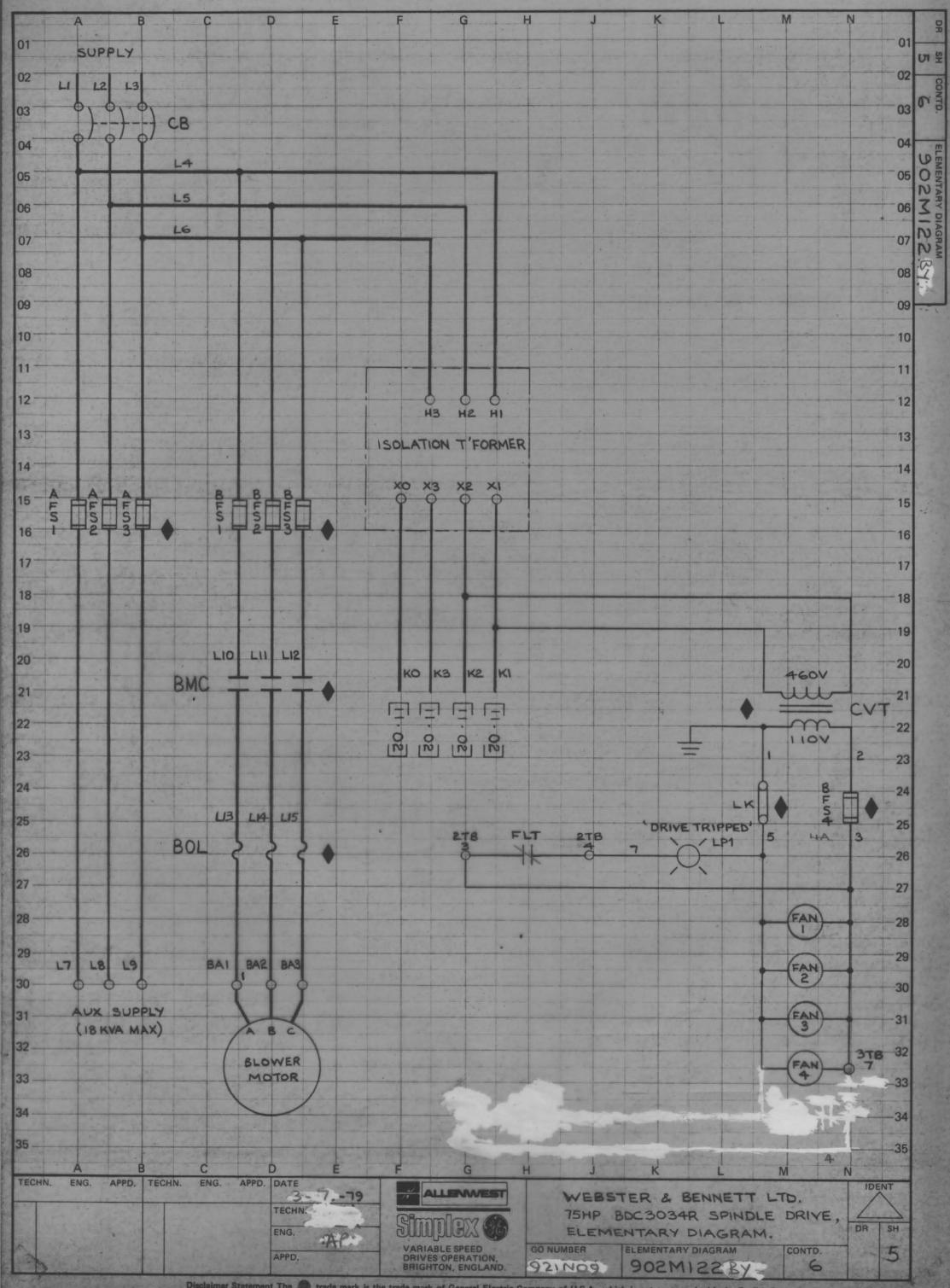
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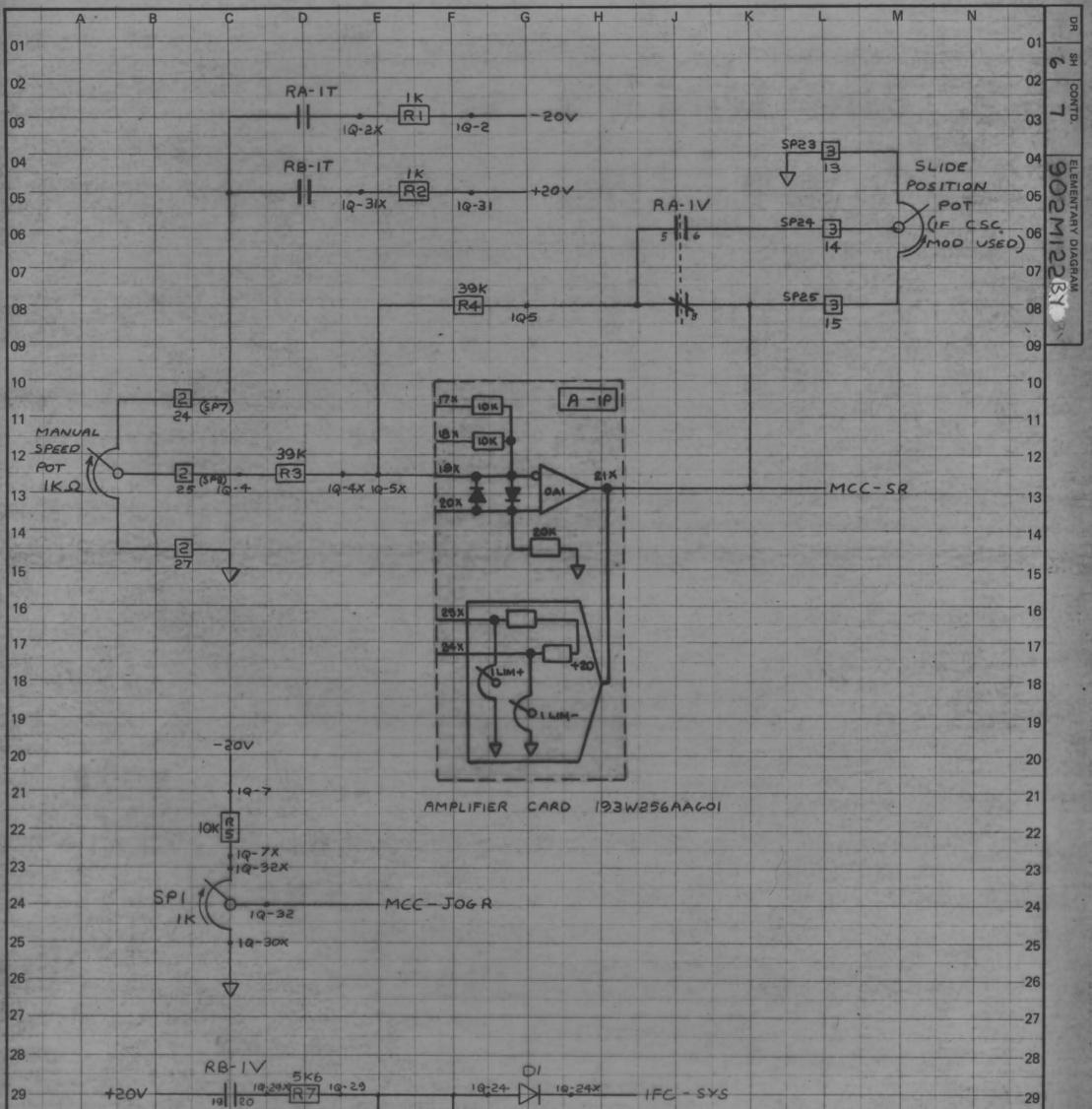
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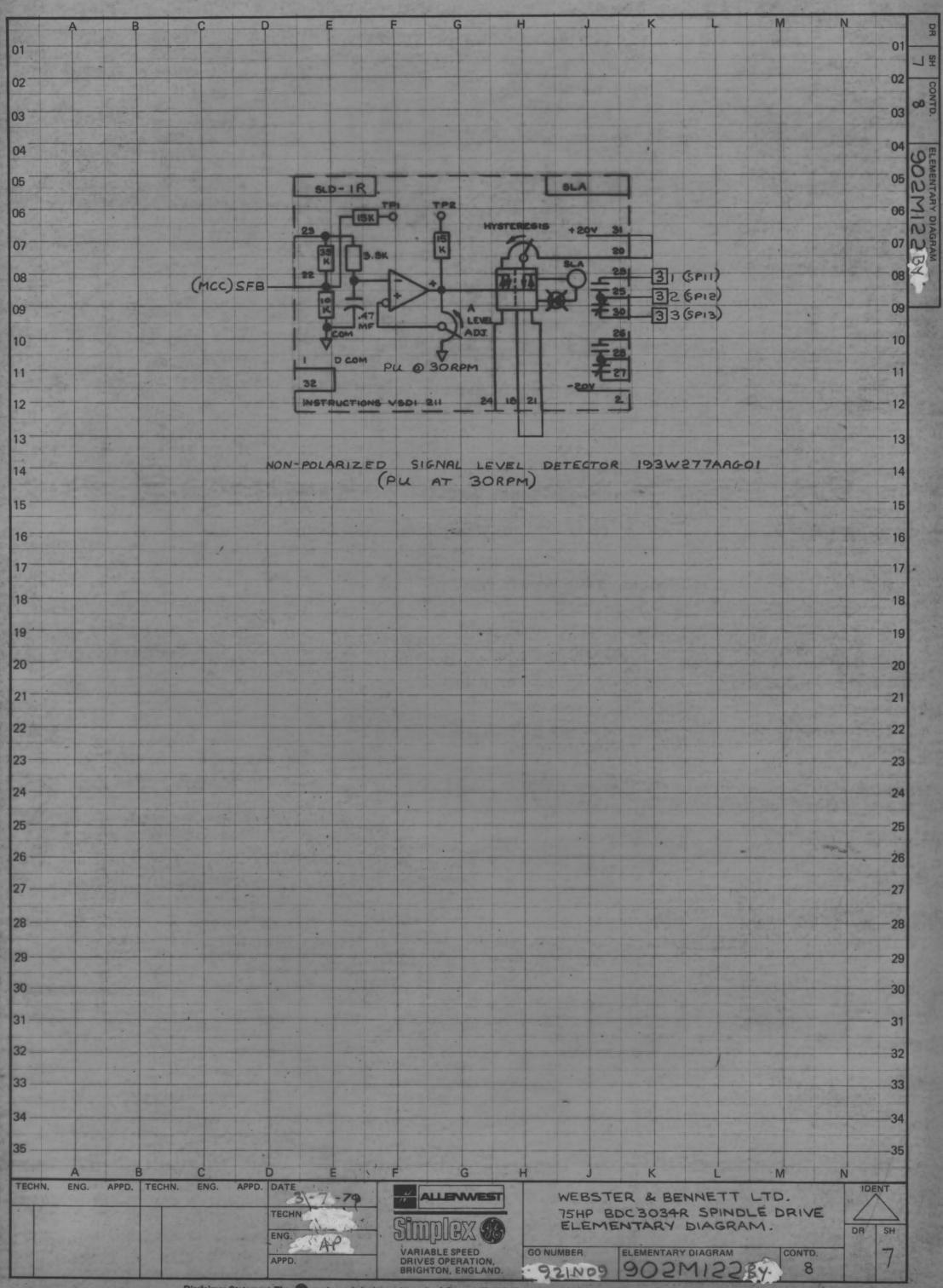


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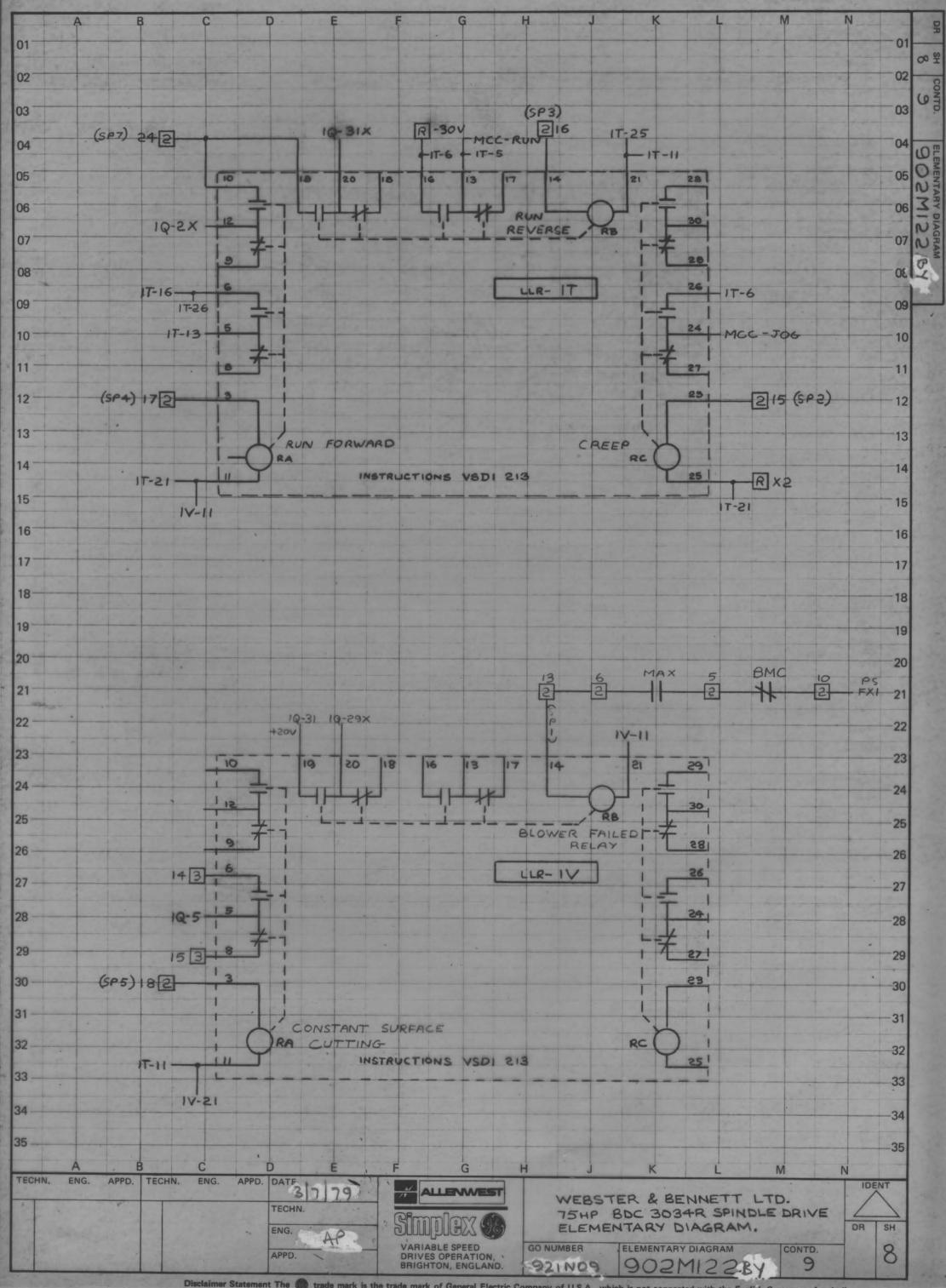


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33				-				- 33
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Carles In 19 4	AB	c	D	E	F	H	LM	N
TECHN. E	ENG. APPD.	TECHN. ENG.	APPD. DATE	1-79-	ALLENWEST	WEBSTER & BEN	NETT LTD.	IDENT
and the second	Dave Star	2 2 2 2 2	ENG.	T.P.	- Simplex 🚱	ELEMENTARY DI		DR SH
	Set ine	The state	APPD.	ALC: ALC: ALC: ALC: ALC: ALC: ALC: ALC:	VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.	GO NUMBER ELEMENTARY		6

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									A		SLD	10.21	LLR	1031	LLR	
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SOME CARDS CONT ALL CARDS AFTER FRONT VIEW OF 6 RECEPTACLE AS S IN RACK CLOSED POSITION.	R REMOVAL U	WHICH WILD JNTIL THESI	L BE THE PARTS	S HAVE C	OOLED.	DO NOT	REMOVE (DR INS	ON. CA	RDS WI	TH POW		INDIC			
32 - 64 31 - 63'	32 - 32X 31 - 31X		13000	27.51		CARD	RACK WI	RE JUM	PER TA	BLE						
31 - 63' 30 - 62 29 - 61	30 - 30X 29 - 29X	100000	10-2×	K - IT-	12	11-10	2 - IT	.19	21	B6-	2TBI	3.	SPI	- 14	.14	
28 - 60	28 - 28X			-19		IT-11	5- IT.	15	10.0	24-	10.20	5	SP2	- 17	23	
27 - 59 26 - 58	27 - 27x 26 - 26x			- 10.			- 17.	25	10.	26 —	19.2	8	SP3	- 11	.14	
25 - 57 24 - 56	25 - 25x 24 - 24x			-11.			5 - RT	1		-85			SP4	- 17	3	
23 - 55	23 - 23X									28X -			SP5			
22 - 54	22 - 22X 21 - 21X			- 19		17.1										
20 - 52	20 - 20X			x - 19.			<u> </u>			26X -						-
19 - 51 18 - 50	19 - 19X 18 - 18X		the second se	OX-1Q	255	17.13	3 - MCC	(RUN)	Statement Statement of	59X-			SP7			-
17 - 49	17 - 17X 16 - 16X		19.3	5 - (20	DGR)	11.5	6-17	-6	10.	24X -	(575	2	SP8	- 10	<u>9.4</u>	-
16 - 48 15 - 47	15 - 15X		19.3	1X-1T	20	IT .	5 - IT	.16	-				SPIL	- 1	R. 29	4
14 - 46 13 - 45	14 - 14X 13 - 13X					17.1	6-RTE	(-30V)					SPIZ	2-1	R.25	
12 - 44	12 - 12X	A REAL PROPERTY OF	18.22	-mer (SER)		4-MCC	2 1					SPIE	3-1	R . 30	>

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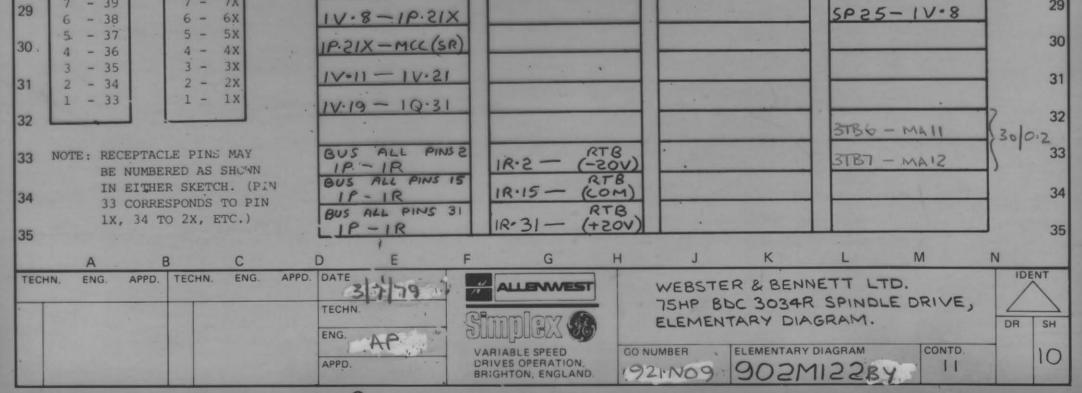
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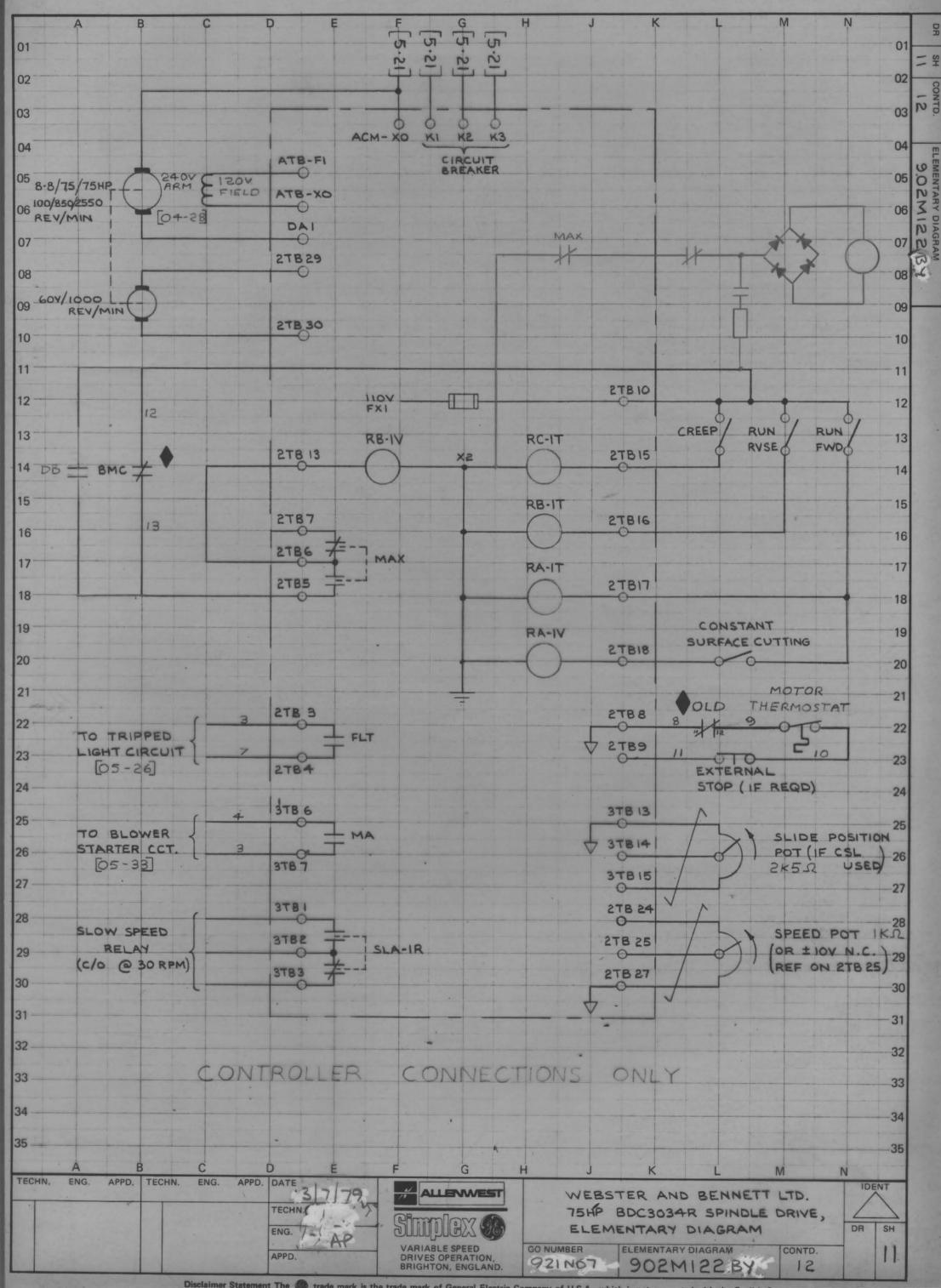
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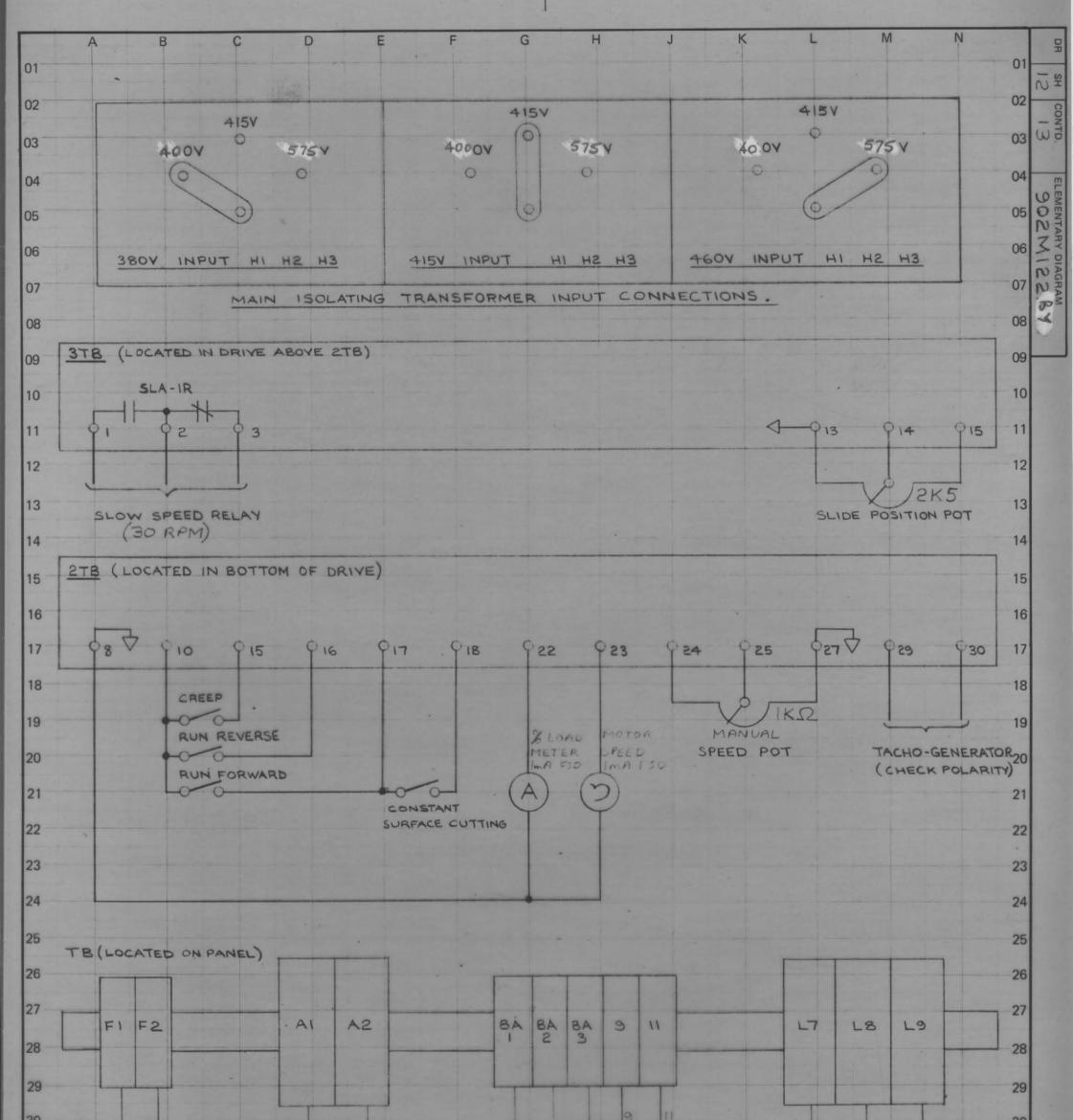
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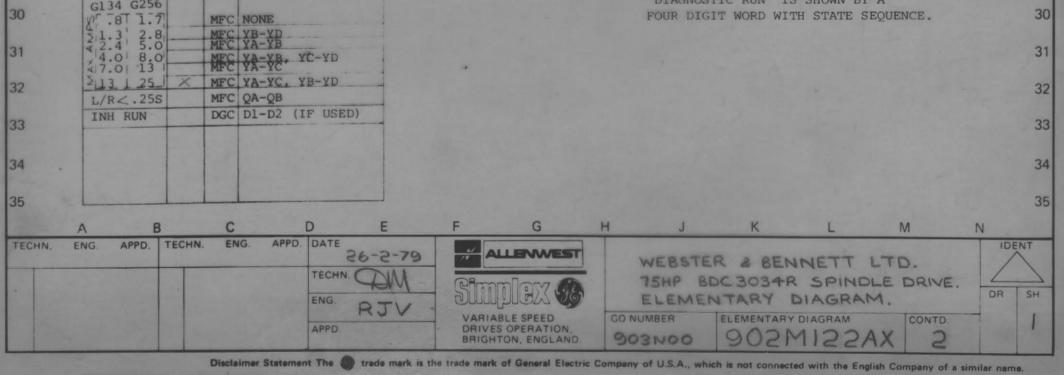


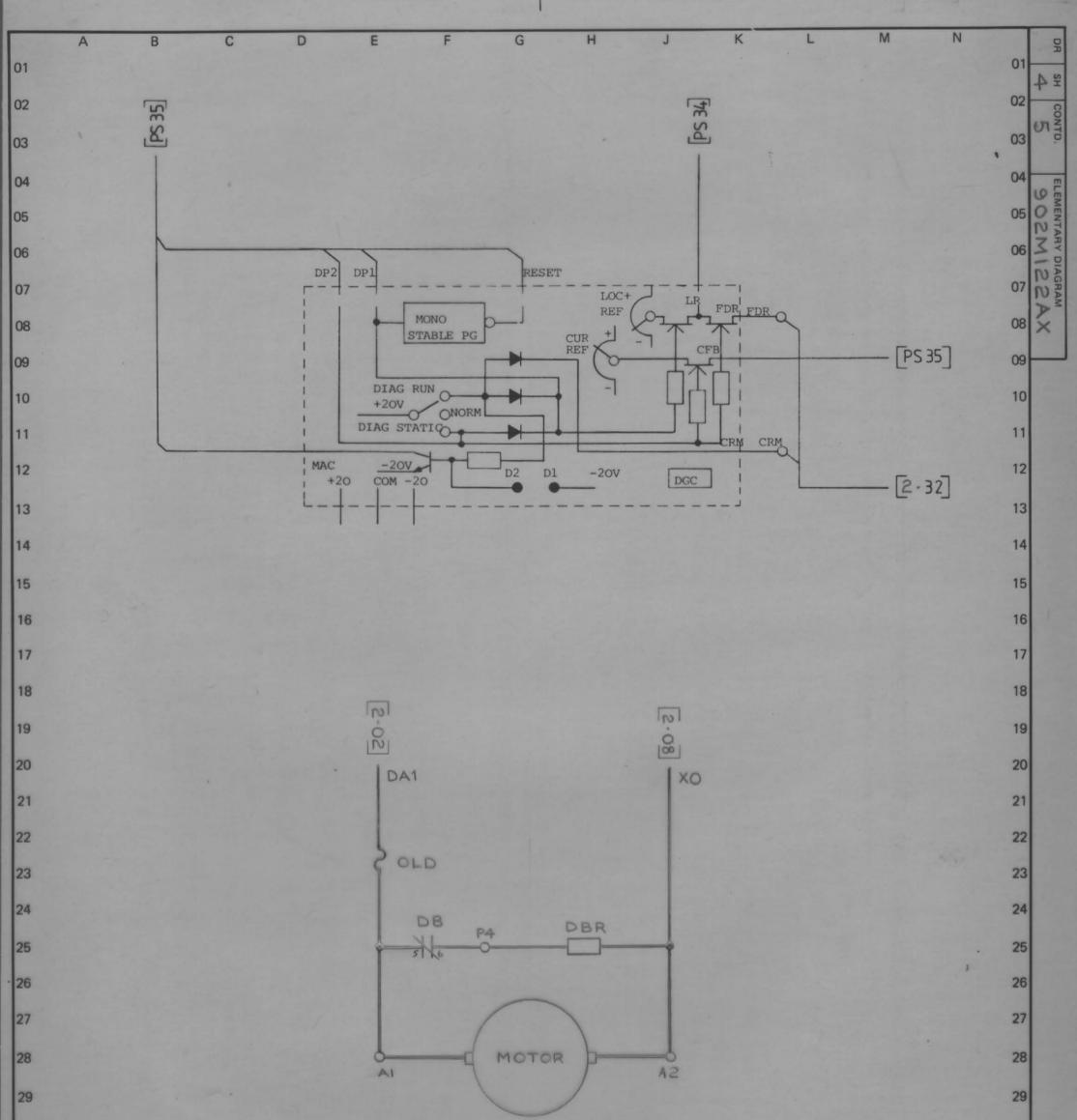


30				-30
31	DRIVE MOTOR	DRIVE MOTOR	DRIVE BLOWER THERMOSTAT AUXILIARY SUPPLY	-31
32	FIELD	ARMATURE	(CHECK FOR E. STOP (18 KVA MAX)	32
3			CORRECT ROTATION) (DYNAMIC BRAKE ONLY,	-33
34			NEEDS TO BE RESET AT DRIVE)	34
5				-35
	A B C	DE	F G H J K L M N	00
ECHN.	ENG. APPD. TECHN. ENG	APPD. DATE 3779	ALLENWEST WEBSTER & BENNETT LTD.	
		TECHN	SIMPLEY CALL TOMERS CONNECTIONS	БН
		ENG. AP.	VARIABLE SPEED GO NUMBER ELEMENTARY DIAGRAM CONTD.	
		APPD.	DRIVES OPERATION, BRIGHTON, ENGLAND. 921NO7 902M122BY 13	15

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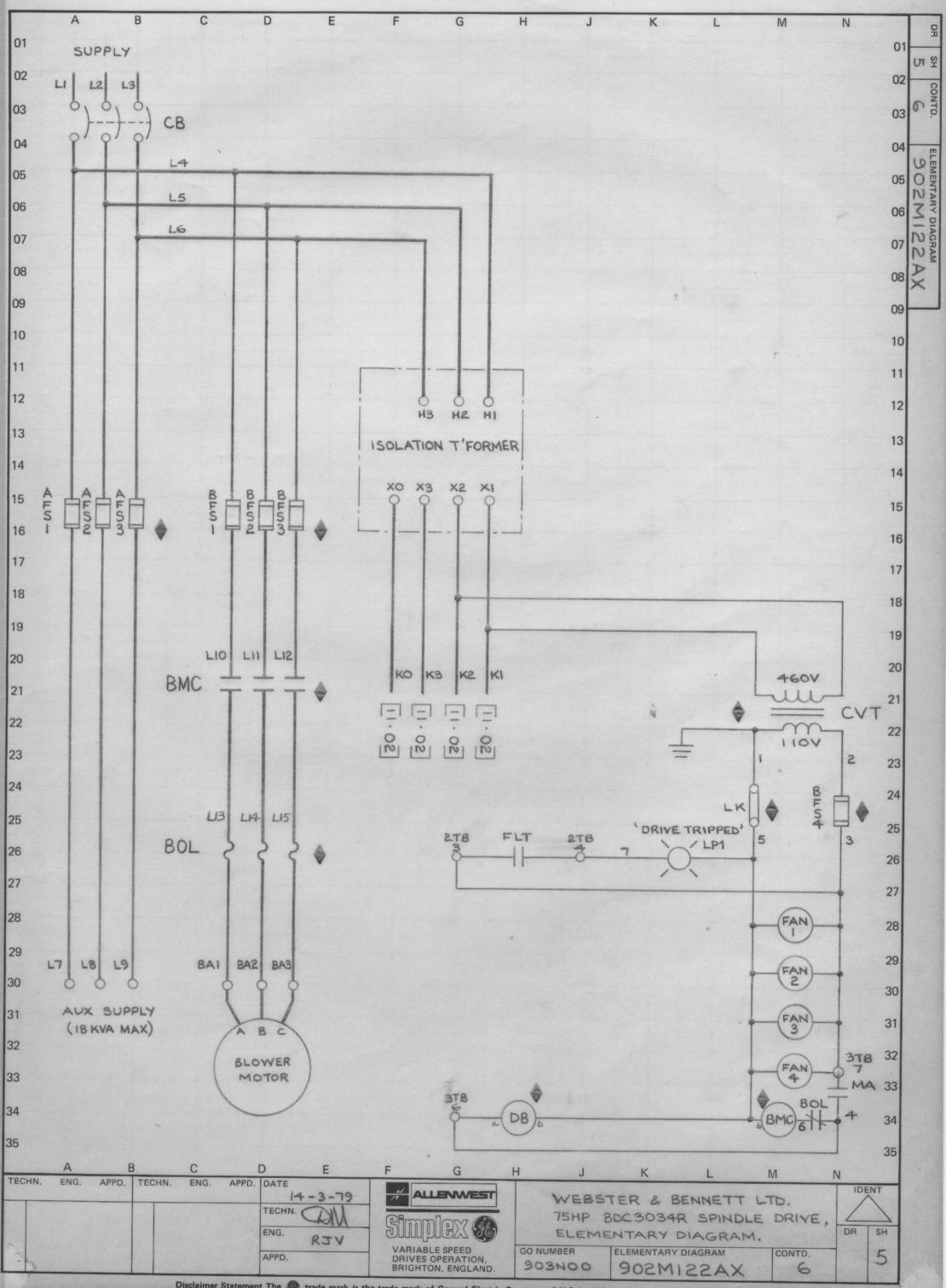
	A B	С	D	E F	G		Н	J	К	L	M	N		DR
01													01	HS
02	VOLTAGE POLA	ARIES SHO	WN ARE FOR MOTOR	RING DAL (+)		SIG	NAL DEFIN	NITIONS AND	LOCATION	IS			02	CO
03	HARDWARE ABE	BREVIATIO	MS_										03	NTO
		AIN CONTR					CEMF		EMF (3-16				~	
04	PSC PC	NTERFACE					CFB CMFA		FEEDBACK)		04	OF
05		IYRISTOR	ASSEMBLY CARD				CRM		FIRING PO		5)		05	ON
06	MFC MC	DTOR FIEL	D CONTROL				DR EAO	DRIVER H	REFERENCE IP OUTPUT	(3-33)			06	MARY
07	MDR MC	DIFICATI	ON RACK				EST FALT		FLT STOP		3+14)		07	12 NAGR
	SYMBOLS	AMPL	IFIERS,			*	FC	FIELD CU	JRRENT (NS		E (4.09)		07	NA
08	R2	27	VI				FDR FEA	FIELD EC	AGNOSTIC	UST (3.2			80	×
09	VIRIO	> vo {	T Cont				FF IABS	MOTOR CU	AULT (2.28 JRRENT ABS	SOLUTE (3			09	
10	$VO = \frac{-R2}{R1}$ VI	v	$VO = (1 + \frac{R^2}{RI}) VI$				ILA IMET		LIMIT AD				10	
11							IPU LR		PULSE (3 EF. FROM I)		11	1
11	VILIVO	SE GROUNE				*	JOG JOGR	JOG SWIT	CH INPUT	(3.23)				
12	MOS	= SIGN (AB ON TEF) X ABSOLUTE VAL	JE OF VI			MAC MSW	MAX/MA (CONTROL SI	GNAL (3-			12	
13	-						OSC	OSCILLA	TOR (3-17)				13	
14			2TB, 3TB, 4TB, 1 2TB9; X2 R - RT			*	PCR PRE	DRIVE PI	NTROL REI	ON (3.21)			14	
	O TEF	RMINAL AT	T.B.'s				ØSEQ RERR	REGULATO	DR ERROR	(3-27)				
15			TER ARROWS ON THE				RIJ RJ		OR SUMMIN				15	
16	WII	PER DIREC	DIAGRAMS INDICAT	NTIOMETER			RRA RSET	REGULATO RESET (OR RESPONS	SE ADJUST	(3.30)		16	in
17		AFT IS RONCTION.	TATED CLOCKWISE '	TO INCREASE		*	RTR	READY TO	C RUN (3.)				17	
18	A THE	ESE RESIS	TORS ARE CRIMPED	IN WIRE		*	SA-C SFB	PHASE ST	IN OUTPUT	(3.16)			18	1
10		RNESS.	PANEL				SMET	SPEED ST	IGNAL FOR	METER (3			10	-
19		USE LOC	JUMPERS			*	SR SYS	SYSTEM I	REFERENCE	(3-13)			19	
20	60HZ		AA-AS, BA-BS, CA-C ZA-ZB (IF USED)	s		*	TA TF		FOR TACHO		UST (3·20)		20	12
21	50HZ	× MCC	AA-AF, BA-BF, CA-C	F			TFB TFR		TER FEEDB				21	
	IOC-400% -500% -300%	IFC	I-IHI I-ILO				TR		EFERENCE FEEDBACK					
22	SR5 - 9v 9 - 20v		(NONE) SRH-COM				WFR		ELD REFER		0)		22	
23	JOGR 10V	× MCC	(NONE)			(* - TEST	POINT ON I	DOOR FROM	r)			23	
24	20V LT. 3-7sec.		JH - COM (NONE)										24	
25	2 - 60sec VREG	MCC	3320FROM LTITOCO NT-CEMF, CC-COM	M			MAPPING	SYSTEM					25	
	DC TACHO	X	(NONE) AT1-AT2				(NS/PS/		- PAST S					100
26	TACHO FILT		TC-TC						- THIS S				26	
27	TACHO V. 24-64vdc 27-71vac		NT-NTL, PT-PTL NT-NTL, PT-PTL										27	
28	60-160vdc 66-177vac	IFC	NT-NT2, PT-PT2 NT-NT2, PT-PT2					T FIELD					28	
29	110-300vdq	XIFC	NT-NT3, PT-PT3				S	LOSED/OPEN WITCHED FO	R "PRECON	DITION" -	"RUN"		29	
	120-300vac G134 G256	IFC	NT-NT3, PT-PT3					DR JOG" - " DIAGNOSTIC	RUN" IS	SHOWN BY	A			In
30	1.3' 2.8		NONE YB-YD				F	OUR DIGIT	WORD WITH	STATE SE	QUENCE.		30	

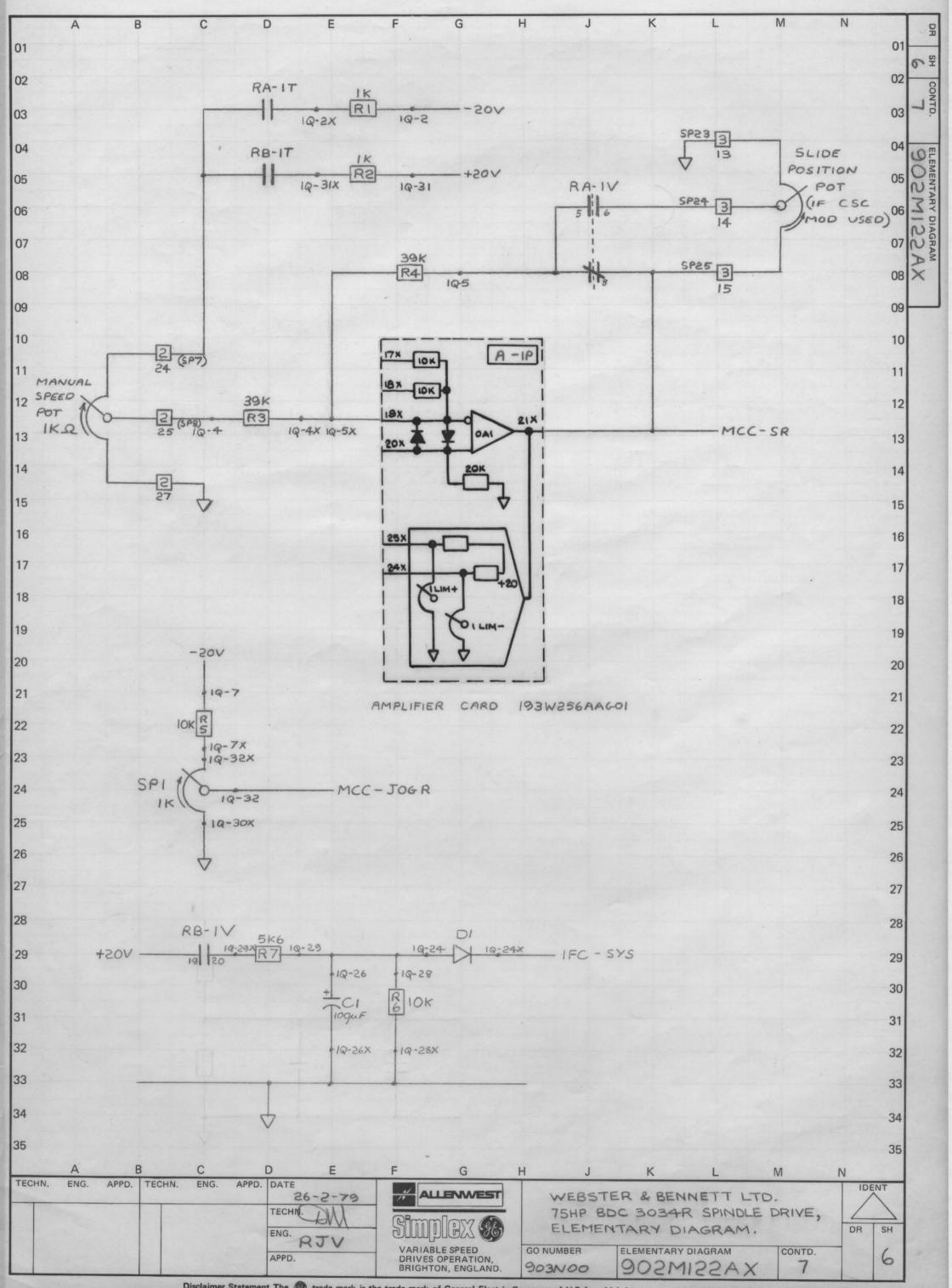


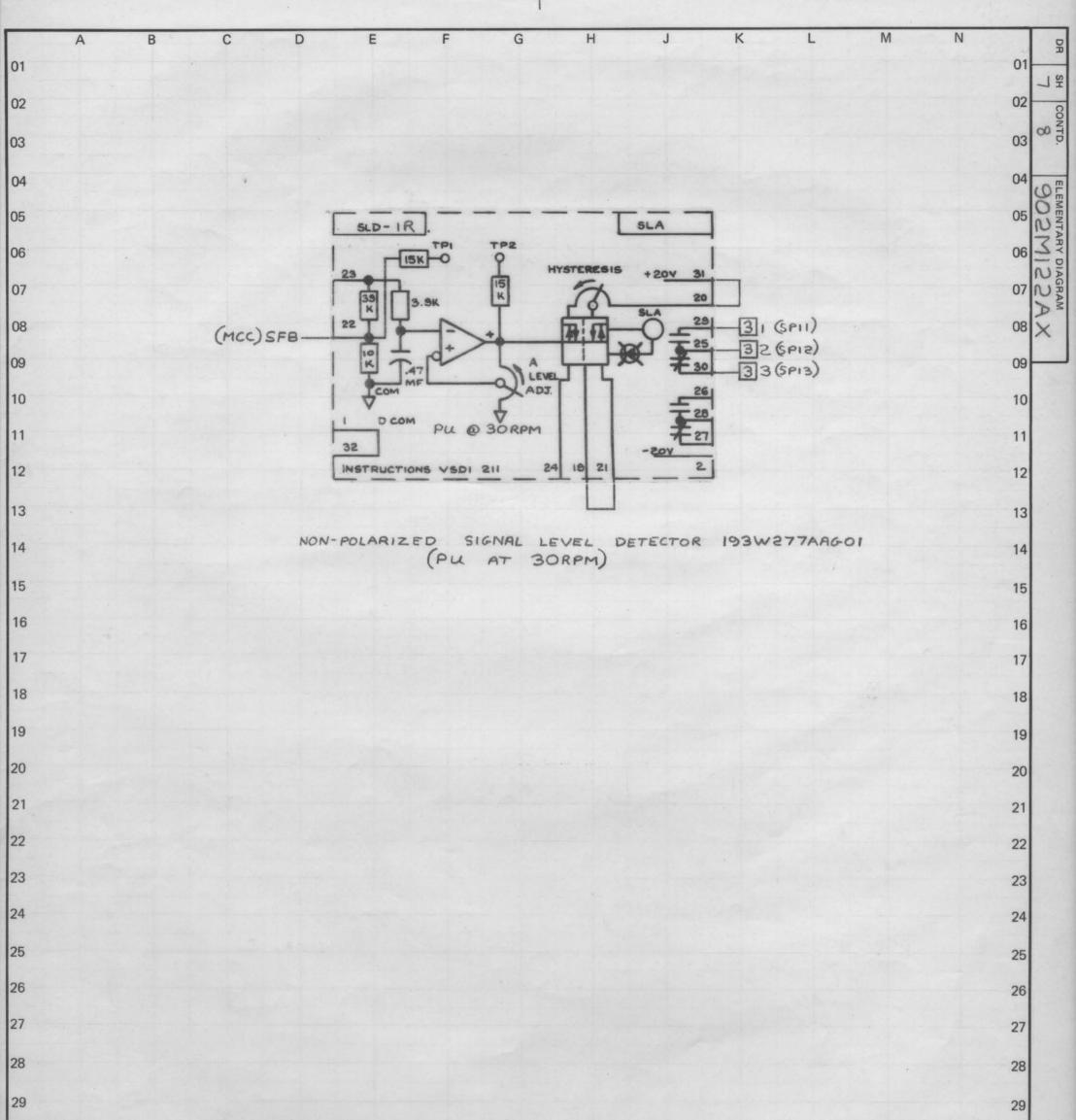


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				APPD.	RJV	DR	RIABLE SP	RATION,		NUMBER		MI22	AX 5		4

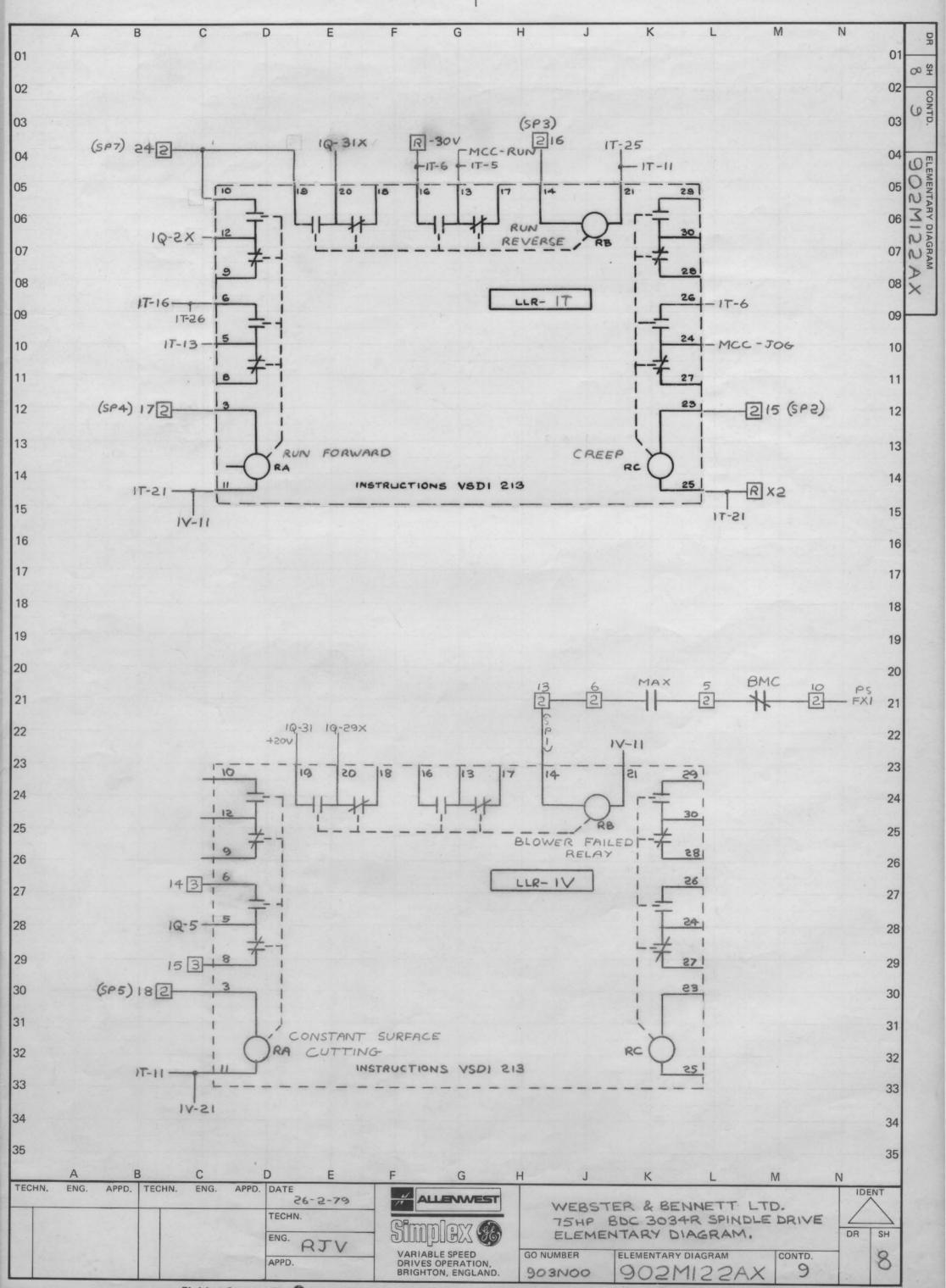
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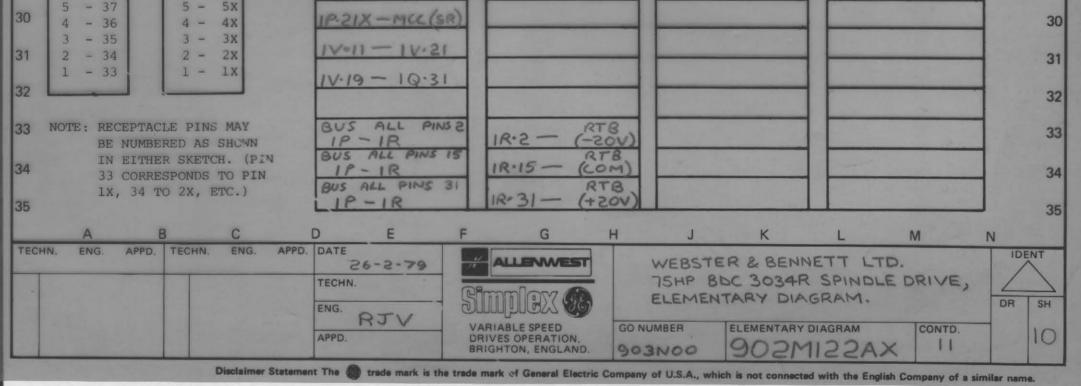


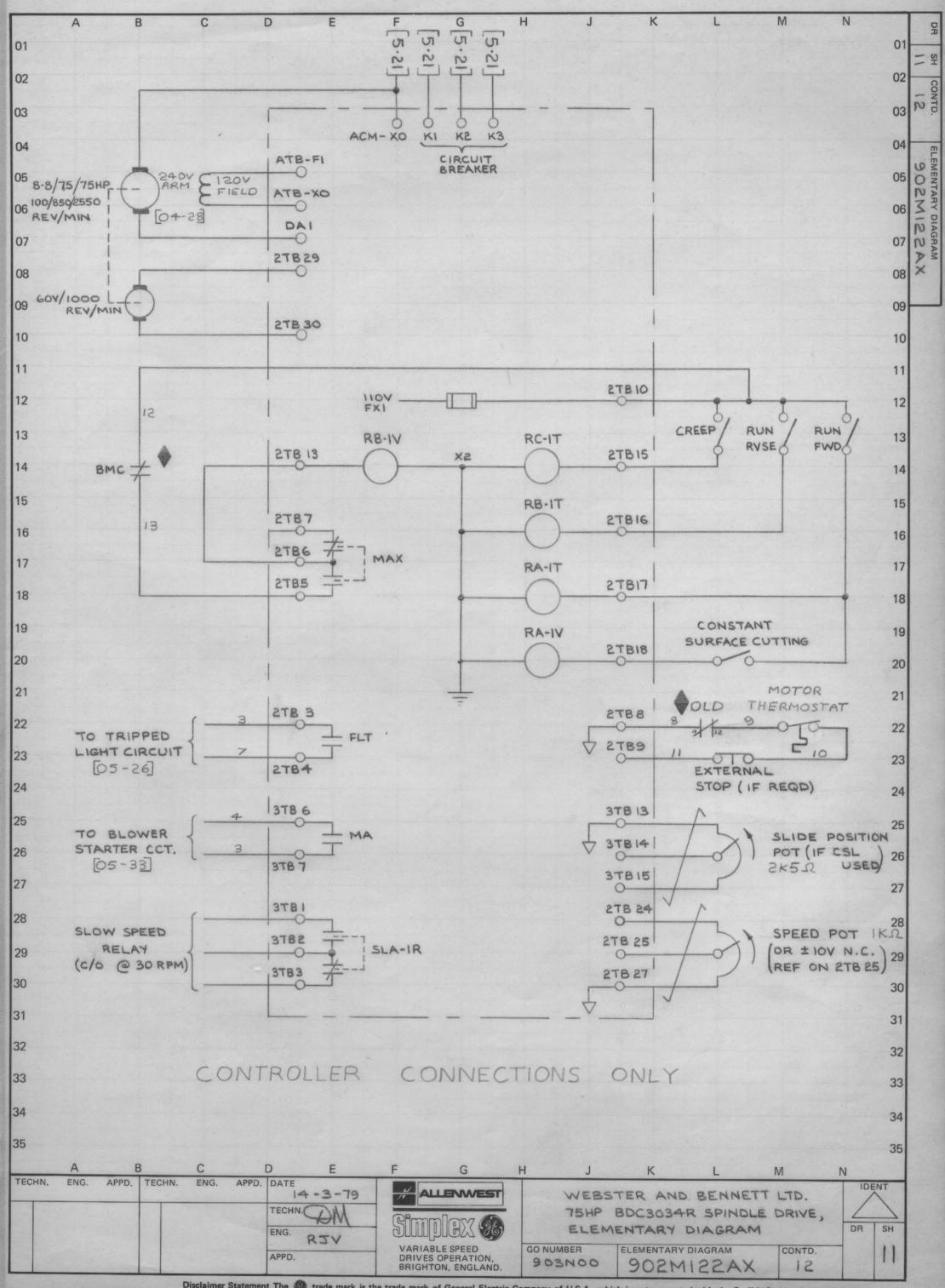
30 30 31 31 32 32 33 33 34 34 35 35 A В С D F G E Н К J M N L TECHN. ENG. ENG. APPD. TECHN. APPD. DATE IDENT 26-2-79 ALLENWEST WEBSTER & BENNETT LTD. 75HP BDC 3034R SPINDLE DRIVE TECHN. 2 ELEMENTARY DIAGRAM. 0 DR SH ENG. 0 RJV VARIABLE SPEED GO NUMBER ELEMENTARY DIAGRAM CONTD. 7 APPD. DRIVES OPERATION, BRIGHTON, ENGLAND. 221M206 8 903N00 AX Disclaimer Staten nt The

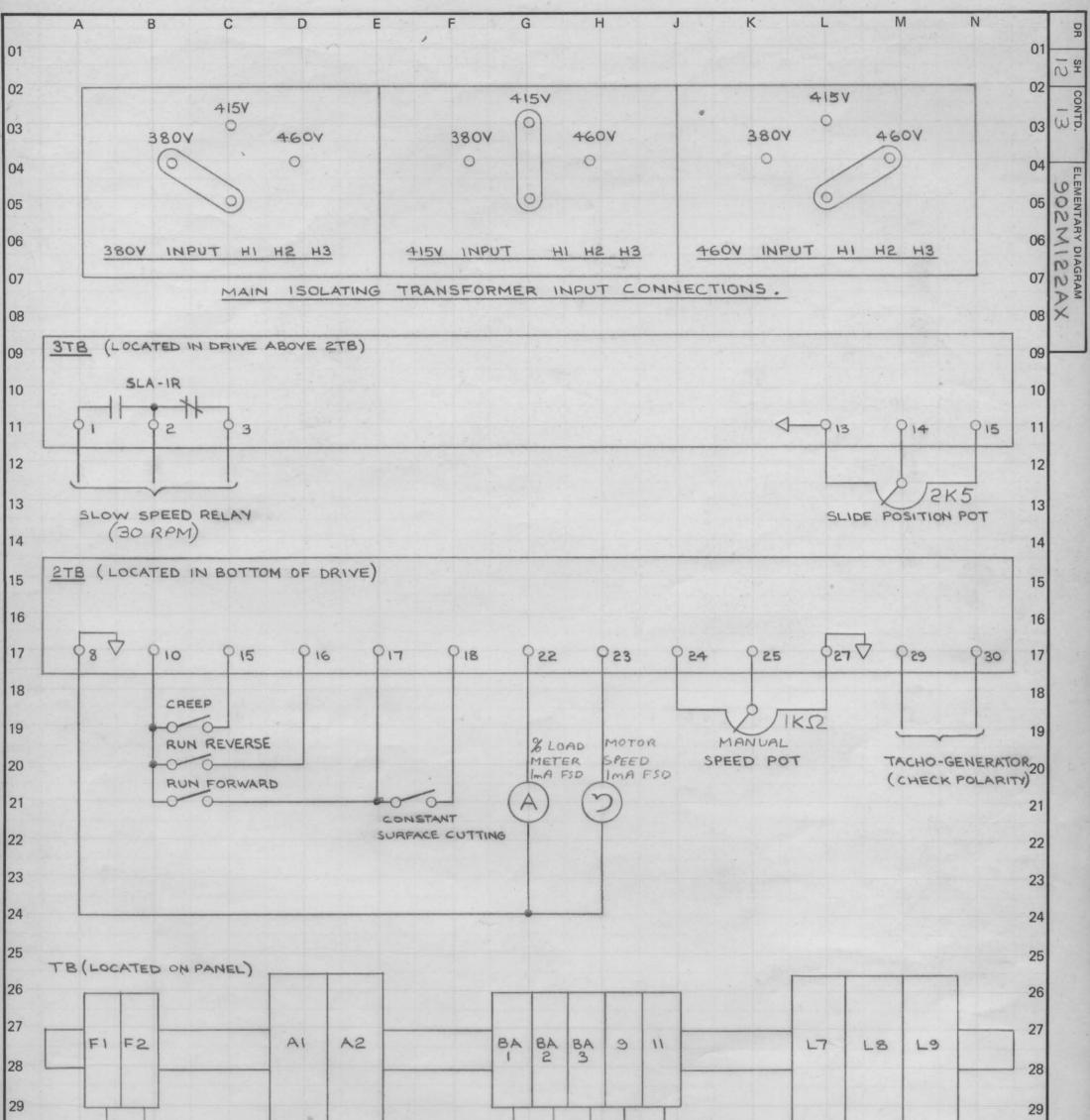


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									SELECT	LEV	LOW LE	AT AT	LOW LEVE	EL
~	ON PRINTED CIF	CUIT CARDS	USED IN 7	THIS RACK TH	E LETTERS		TER BASIC CA	TOLOGUE	NUMBER		ATTES OF	TGTNA	L DESTON	
	SUBSEQUENT DES	SIGNS WITH	THE SAME E	BASIC NUMBER	S AND GRO	OUP NUMBER	R WITH THE S	ECOND LE	TTER O					
	ETC., ARE DIRE													
-	THE PRINTED CI SOME CARDS CON	TAIN PARTS	WHICH WII	LL BE THERMA	LLY HOT A	AFTER BEI	NG IN OPERAT	ION. CAF	RE SHOU	JLD BE	EXERCIS	ED IN		
1	ALL CARDS AFTE	ER REMOVAL	UNTIL THES	SE PARTS HAV	E COOLED.	DO NOT I	REMOVE OR IN	SERT CAP	RDS WIT	TH POWE	ER APPLI	ED.		
	FRONT VIEW OF RECEPTACLE AS			SY	MBOLS :		0							
	IN RACK CLOSED POSITION.)		•	TEST P	OCT								
						0.51	0	POT ADJU	JSTMENT		X IN	DICAT	ING LIGHT	5
	32 - 64					-051	0	POT ADJU	JSTMENT	r	X IN	DICAT	'ING LIGHT	
	31 - 63'	32 - 32X 31 - 31X	0.000				RACK WIRE JU				X IN	DICAT	ING LIGHT	
1	and the second	and the second s	02.0	1Q-2X -	T-12	CARD		MPER TAE					ING LIGHT	-
	31 - 63' 30 - 62 29 - 61 28 - 60	31 - 31x 30 - 30x 29 - 29x 28 - 28x 28 - 28x 31 - 31x 30 - 30x 29 - 30x 30 - 30x		1Q-2X -		CARD I	RACK WIRE JU	MPER TAP	BLE	27613	se Se	1 -	1	-
	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	31 - 31x 30 - 30x 29 - 29x 28 - 28x 27 - 27x 26 - 26x			Q·SX	CARD 1	RACK WIRE JU	MPER TAP	31E 36 - 3	27813 Q·26	sp SP	1	- 1114-	-
	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	31 - 31x $30 - 30x$ $29 - 29x$ $28 - 28x$ $27 - 27x$ $26 - 26x$ $25 - 25x$ $24 - 24x$		194x - 1	Q-5X	CARD 1	RACK WIRE JU - 17-19 - 17-21	MPER TAR	3LE 36-3	27813 Q·26	SP SP SP	1	- 17.53	-
	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	31 - 31x $30 - 30x$ $29 - 29x$ $28 - 28x$ $27 - 27x$ $26 - 26x$ $25 - 25x$ $24 - 24x$ $23 - 23x$ $22 - 22x$		10.4x - 1 10.5x - 1	Q-5X P-19X V-5	CARD 1 1T-10 1T-11 1T-21 1T-25	RACK WIRE JU - 1T-19 - 1T-21 - 1T-25	MPER TAE 2.T.E 1Q.2 1Q.3	3LE 36 - 3 4 - 1 26 -	27813 Q.26 IQ.28 IQ.29	SP SP SP SP	1 3 -	- 1V.14- - 1T.23 - 1T.14	-
	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	31 - 31x $30 - 30x$ $29 - 29x$ $28 - 28x$ $27 - 27x$ $26 - 26x$ $25 - 25x$ $24 - 24x$ $23 - 23x$		$\frac{10.4x - 1}{10.5x - 1}$ $10.5x - 1$ $10.5 - 1$	Q.5X P. 19X V.5 Q.2	CARD 1 IT-10 IT-11 IT-21 IT-25 IT-11	RACK WIRE JU - 17-19 - 17-21 - 17-25 - 17-25	MPER TAE 2.TE 1Q.2 1Q.2 1Q.3	3LE 36 - 3 4 - 1 26	27813 Q·26 IQ·28 IQ·29 IQ·26	SP SP SP X SP	1 3 -	- IV.14- - IT.23 - IT.14 - IT.3	-
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	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	31 - 31x $30 - 30x$ $29 - 29x$ $28 - 28x$ $27 - 27x$ $26 - 26x$ $25 - 25x$ $24 - 24x$ $23 - 23x$ $22 - 22x$ $21 - 21x$ $20 - 20x$ $19 - 19x$ $18 - 18x$ $17 - 17x$		1Q.4x - 1 1Q.5x - 1 1Q.5x - 1 1Q.7 - 1 1Q.7x - 1	Q.5X P.19X V.5 Q.2 Q.32X	CARD 1 IT-10 IT-10 IT-11 IT-21 IT-25 IT-11 IT-5 IT-13	RACK WIRE JU - IT-19 - IT-21 - IT-25 - IT-25 - RT8(x2) - IV-11 - IT-13	MPER TAE 2.TE 1Q.2 1Q.3 1Q.3 1Q.3 1Q.3 1Q.3	BLE 36 - 3 26 - 1 26 - 1 28 - 1 2	27813 Q·26 1Q·28 1Q·28 1Q·26 1Q·26 1Q·15	SP SP SP SP SP SP SP SP SP SP SP SP SP S	1-2-3	- IV.14 - IT.23 - IT.14 - IT.3 - IV.3	
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	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	31 - 31x $30 - 30x$ $29 - 29x$ $28 - 28x$ $27 - 27x$ $26 - 26x$ $25 - 25x$ $24 - 24x$ $23 - 23x$ $22 - 22x$ $21 - 21x$ $20 - 20x$ $19 - 19x$ $18 - 18x$ $17 - 17x$ $16 - 16x$ $15 - 15x$ $14 - 14x$ $13 - 13x$		$\frac{10.4x - 1}{10.5x - 1}$ $\frac{10.5x - 1}{10.7x - 1}$ $\frac{10.7x - 1}{10.30x - 1}$ $\frac{10.30x - 1}{10.30x - 1}$	Q.5X P.19X V.5 Q.2 Q.32X IQ.15 TOGR	CARD 1 IT-10 IT-10 IT-11 IT-21 IT-25 IT-11 IT-25 IT-13 IT-26 IT-6	RACK WIRE JU - IT-19 - IT-21 - IT-25 - RTB(X2) - IV-11 - IT-13 - MCC(RUN) - IT-6	MPER TAE 2.TE 1Q.2 1Q.2 1Q.3 1Q.3 1Q.3 1Q.3	BLE 36 - 3 26 - 1 26 - 1 28 - 1 2	27813 Q·26 1Q·28 1Q·28 1Q·26 1Q·26 1Q·15	SP SP SP SP SP SP SP SP SP SP SP SP SP S		- 1V.14 - 1T.23 - 1T.14 - 1T.3 - 1V.3 - 1V.3 - 1T.10 - 1Q.4	
	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	31 - 31x $30 - 30x$ $29 - 29x$ $28 - 28x$ $27 - 27x$ $26 - 26x$ $25 - 25x$ $24 - 24x$ $23 - 23x$ $22 - 22x$ $21 - 21x$ $20 - 20x$ $19 - 19x$ $18 - 18x$ $17 - 17x$ $16 - 16x$ $15 - 15x$ $14 - 14x$		$\frac{10.4x - 1}{10.5x - 1}$ $\frac{10.5x - 1}{10.7x - 1}$ $\frac{10.7x - 1}{10.30x - 1}$ $\frac{10.30x - 1}{10.30x - 1}$	Q.5X P.19X V.5 Q.2 Q.32X IQ.15 TOG R IT-20	CARD 1 IT-10 IT-10 IT-11 IT-21 IT-25 IT-11 IT-25 IT-11 IT-5 IT-13 IT-26 IT-6 IT-16	RACK WIRE JU - IT-19 - IT-21 - IT-25 - RTB(X2) - IV-11 - IT-13 - MCC(RUN) - IT-6 - IT-16	MPER TAE 2.TE 1Q.2 1Q.2 1Q.3 1Q.3 1Q.3 1Q.3	BLE 36 - 3 26 - 1 26 - 1 28 - 1 2	27813 Q·26 1Q·28 1Q·28 1Q·26 1Q·26 1Q·15	SP SP SP SP SP SP SP SP SP SP SP SP SP S		- 17.23 - 17.14 - 17.3 - 17.3 - 17.3 - 17.3 - 17.3 - 17.3 - 17.10 - 17.10 - 17.10	95
	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$\frac{10.4x - 1}{10.5x - 1}$ $\frac{10.5x - 1}{10.5x - 1}$ $\frac{10.7x - 1}{10.30x - 1}$ $\frac{10.30x - 1}{10.30x - 1}$	Q.5X P.19X V.5 Q.2 Q.2 Q.32X 1Q.15 TOG R) IT-20 C (SFB)	CARD 1 IT-10 IT-10 IT-11 IT-21 IT-25 IT-11 IT-25 IT-11 IT-5 IT-13 IT-26 IT-6 IT-16	RACK WIRE JU - IT-19 - IT-21 - IT-25 - RTB(X2) - IV-11 - IT-13 - MCC(RUN) - IT-6 - IT-16 - RTB(-30)	MPER TAE 2.TE 1Q.2 1Q.2 1Q.3 1Q.3 1Q.3 1Q.3	BLE 36 - 3 26 - 1 26 - 1 28 - 1 2	27813 Q·26 1Q·28 1Q·28 1Q·26 1Q·26 1Q·15	SP SP SP SP SP SP SP SP SP SP SP SP SP S		- IV.14 - IT.23 - IT.14 - IT.3 - IV.3 - IV.3 - IV.3 - IR.26 - IR.26	S 50 0
	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	31 - 31x $30 - 30x$ $29 - 29x$ $28 - 28x$ $27 - 27x$ $26 - 26x$ $25 - 25x$ $24 - 24x$ $23 - 23x$ $22 - 22x$ $21 - 21x$ $20 - 20x$ $19 - 19x$ $18 - 18x$ $17 - 17x$ $16 - 16x$ $15 - 15x$ $14 - 14x$ $13 - 13x$ $12 - 12x$ $11 - 11x$ $10 - 10x$		$\frac{10.4x - 1}{10.5x - 1}$ $\frac{10.5x - 1}{10.5x - 1}$ $\frac{10.7x - 1}{10.7x - 1}$ $\frac{10.7x - 1}{10.30x - 1}$ $\frac{10.30x - 1}{10.30x - 1}$ $\frac{10.30x - 1}{10.30x - 1}$ $\frac{10.30x - 1}{10.30x - 1}$	Q.5X P.19X V.5 Q.2 Q.2 Q.32X IQ.15 TOGR TOGR IT.20 C(SFB) R.21	CARD 1 IT-10 IT-10 IT-11 IT-21 IT-25 IT-11 IT-25 IT-11 IT-5 IT-13 IT-26 IT-6 IT-16	RACK WIRE JU - IT-19 - IT-21 - IT-25 - RTB(X2) - IV-11 - IT-13 - MCC(RUN) - IT-6 - IT-16 - RTB(-30)	MPER TAE 2.TE 1Q.2 1Q.2 1Q.3 1Q.3 1Q.3 1Q.3	BLE 36 - 3 26 - 1 26 - 1 28 - 1 2	27813 Q·26 1Q·28 1Q·28 1Q·26 1Q·26 1Q·15	SP SP SP SP SP SP SP SP SP SP SP SP	1	- IT.14 - IT.23 - IT.14 - IT.3 - IV.3 - IV.3 - IV.3 - IR.20 - IR.20 - IR.20 - IR.20	S 50 0







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30							9 11				
31	DRIVE MO	TOR	DR	AVE MOTOR	DR	IVE BLOWER	MOTOR	TAT	AUXILIA	RY SUPPL	.4
2	FIELD			ARMATURE	MC	HECK FOR	4100	- STOP	(18 KVA		
3					COP	RECT ROTATI	1	YNAMIC BRA			
4								T DRIVE)	- Prindle I		
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