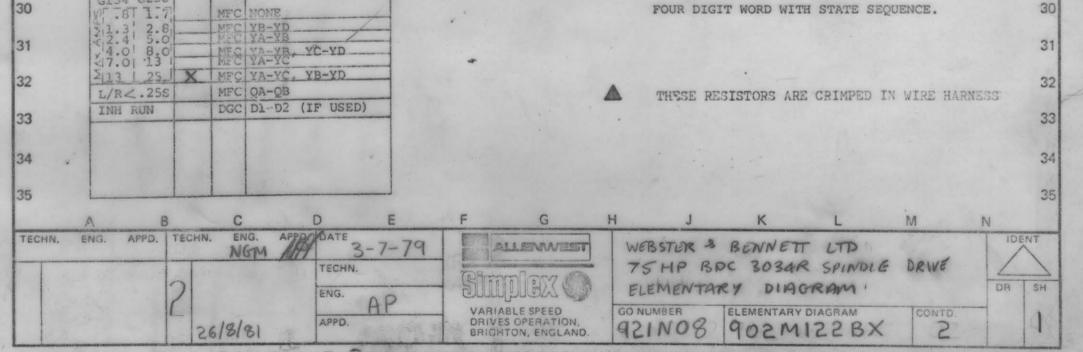
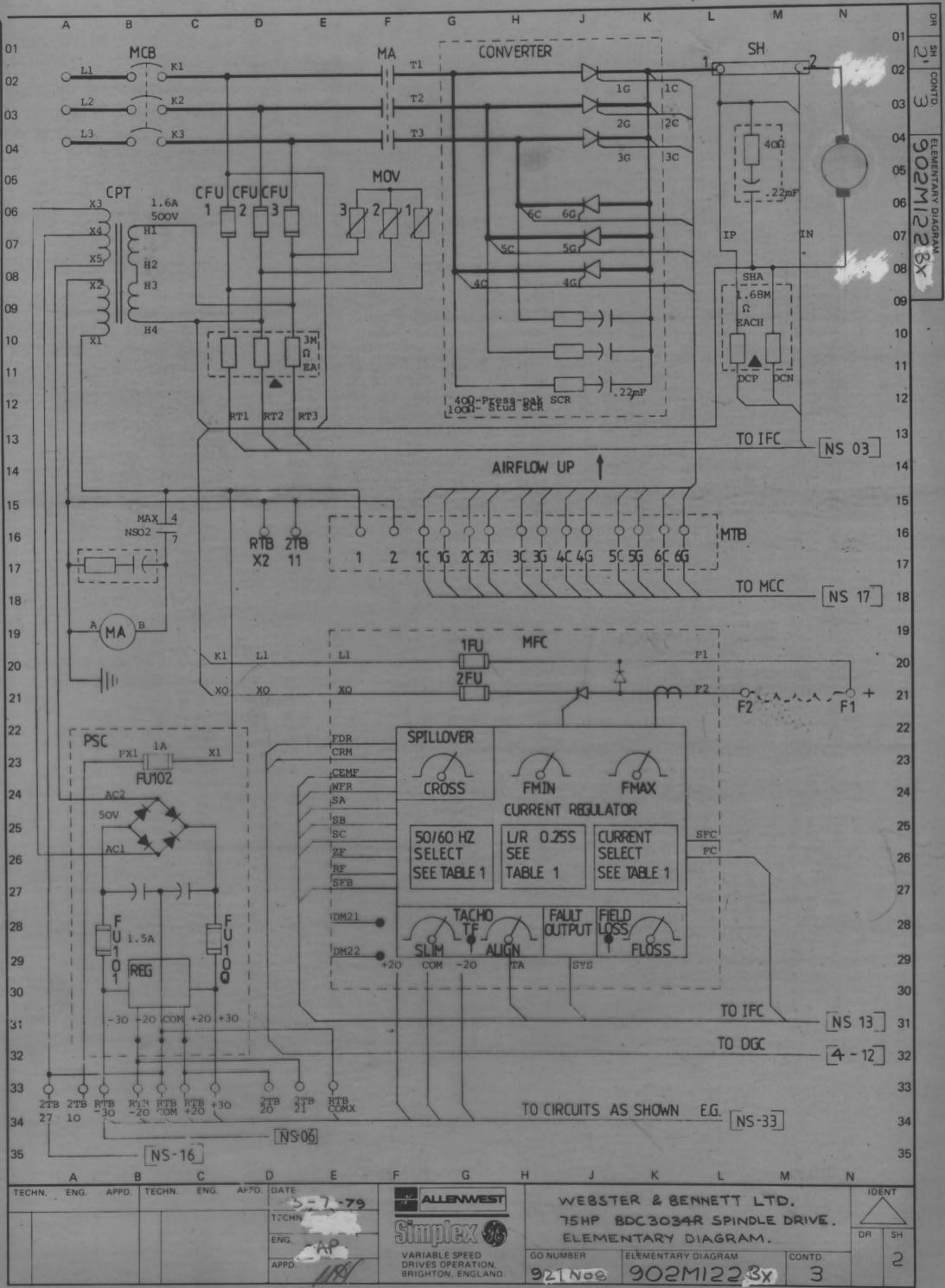
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				CARD	•	DFP	DELAYED FIRING POWER ( 25)	05
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1	LE .	22		- T >vo	· · · · · · · · · · · · · · · · · · ·	FEA	FIELD ECONOMY ADJUST ( 25)	08
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		SE GI	ROUND			JOG	JOG SWITCH INPUT ( 23)	
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		TAB O	N TER	MINAL		MSW OSC	MODE SWITCH ( 30) * OSCILLATOR ( 17)	
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				2TB9; X2 [R] - RTBX		PRE	DRIVE PRECONDITION ( 21)	
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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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	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
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	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
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	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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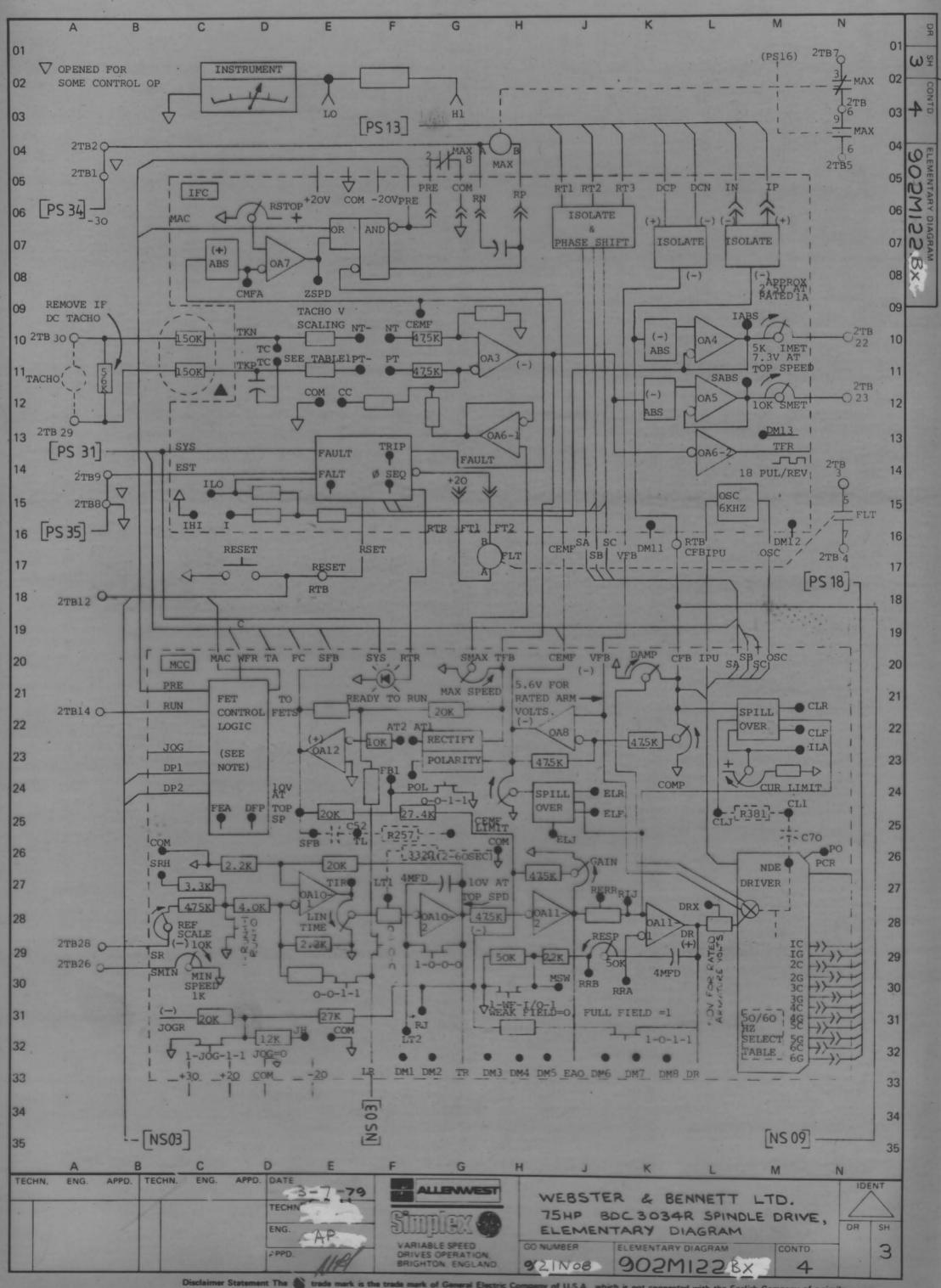


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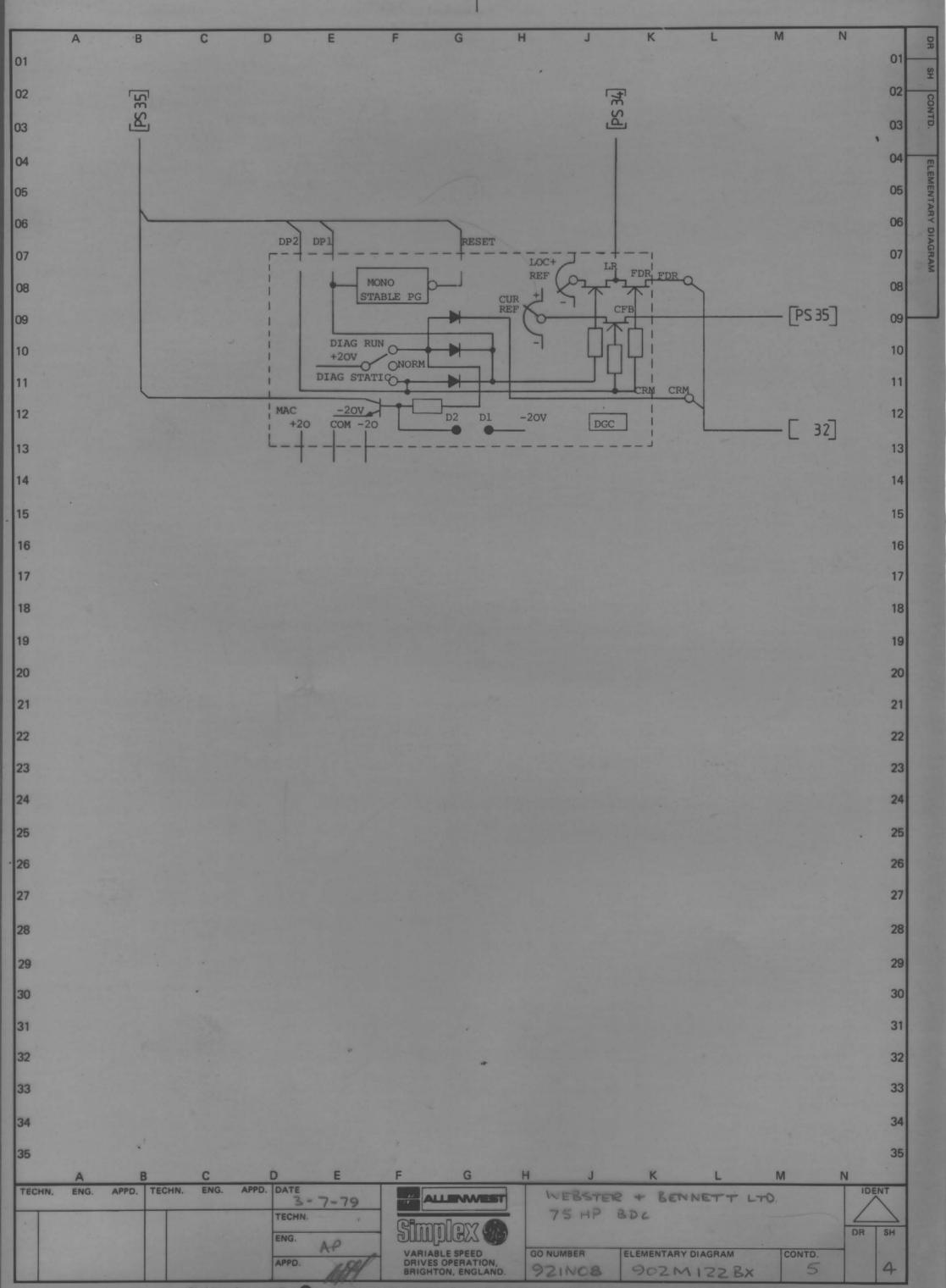


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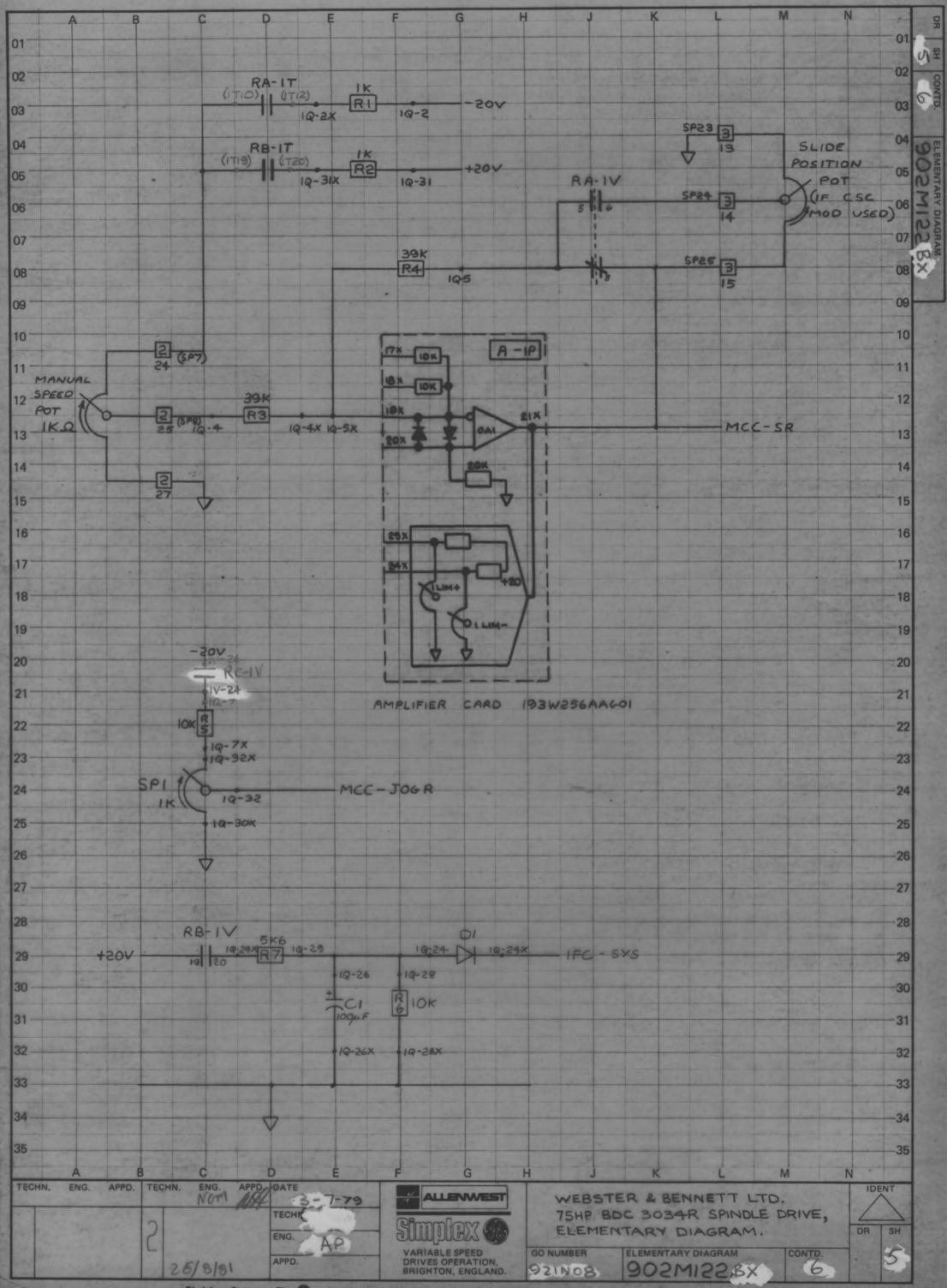
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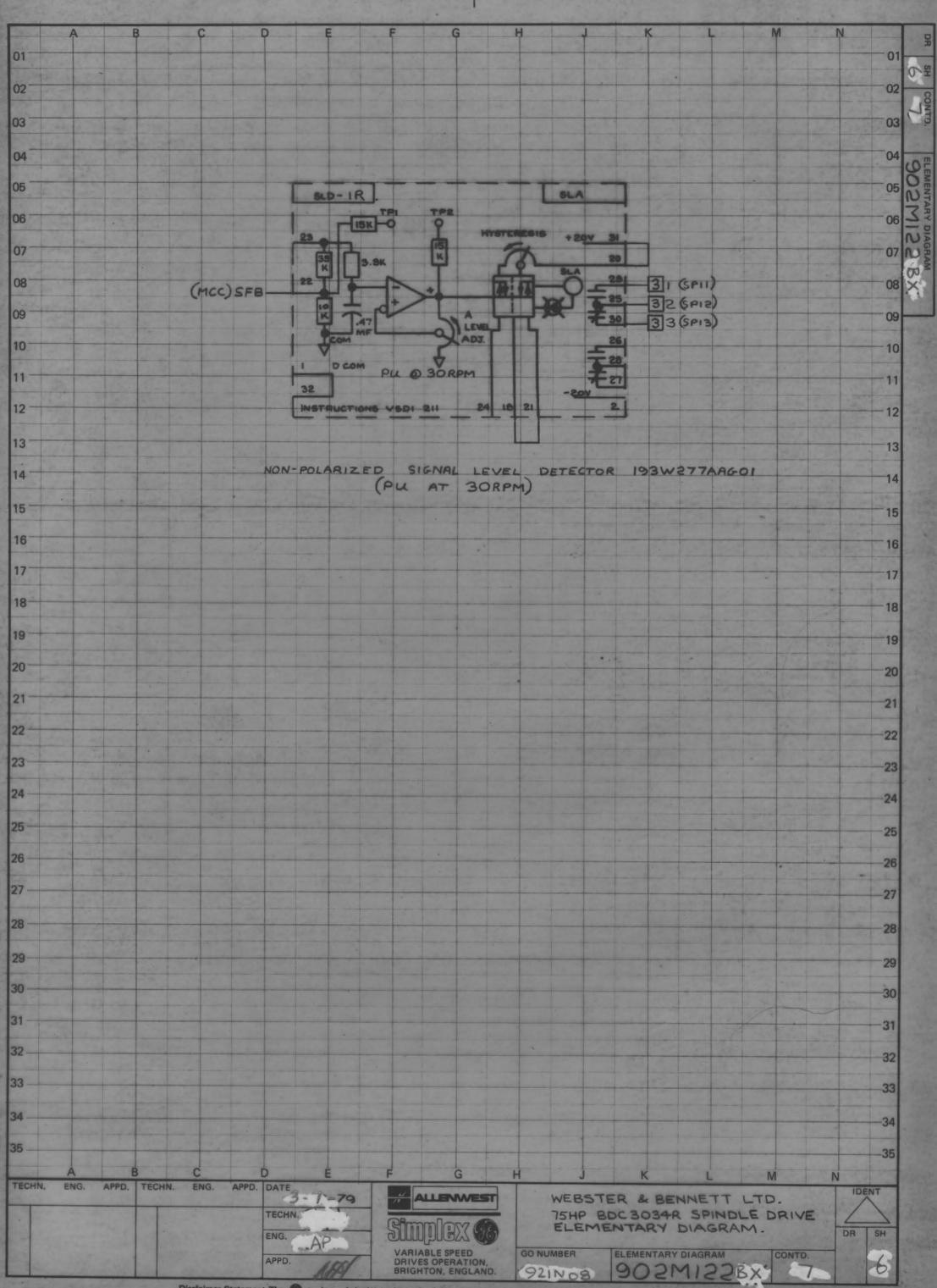
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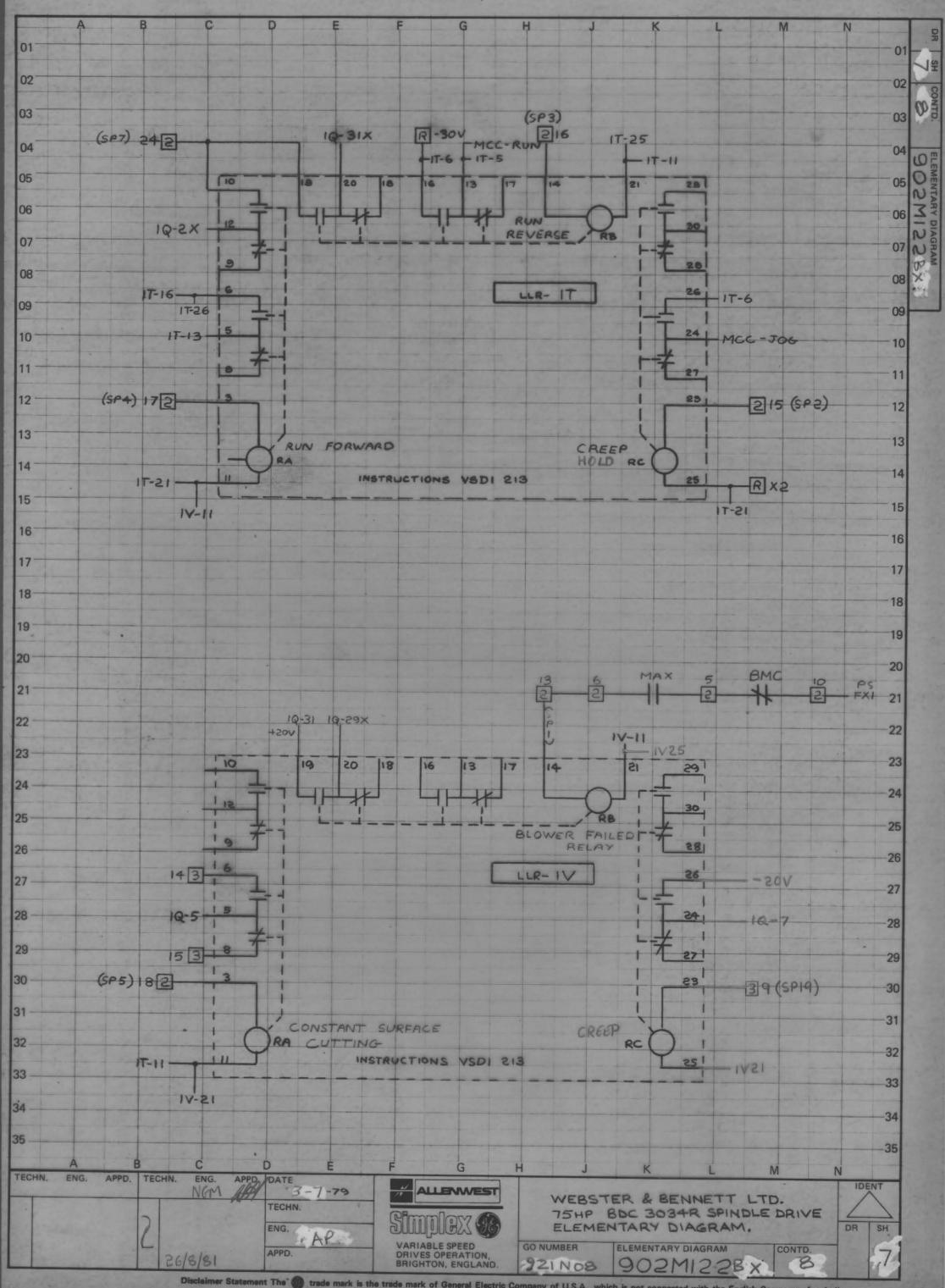
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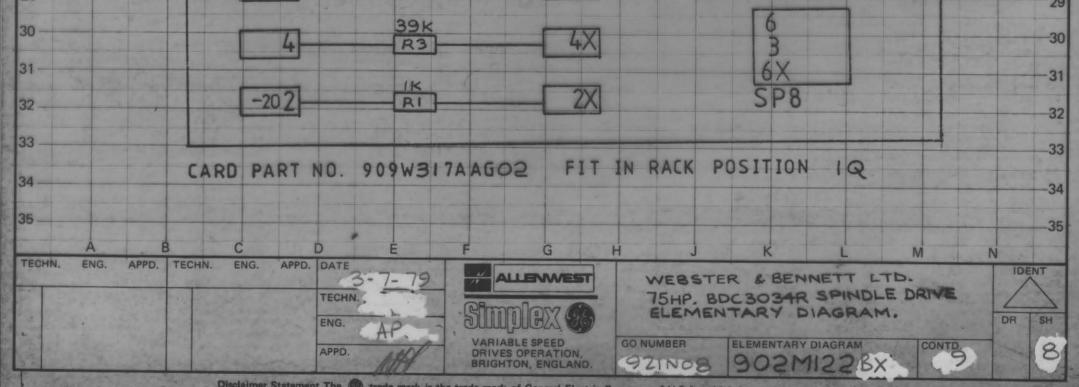


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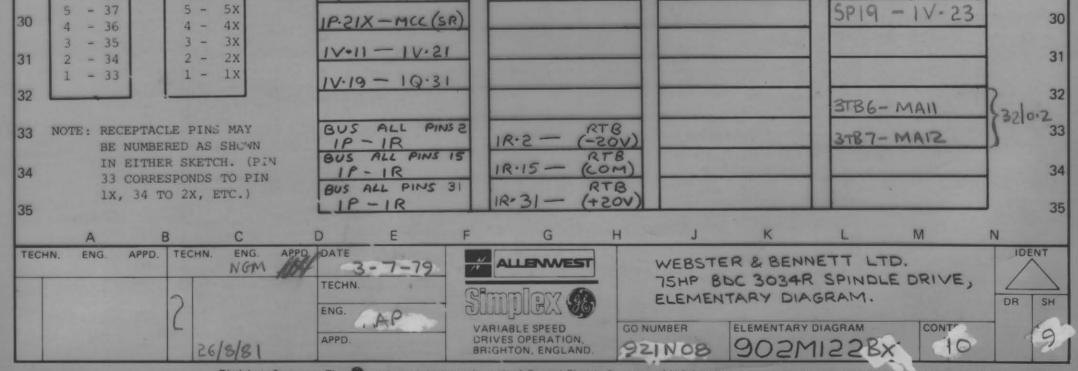
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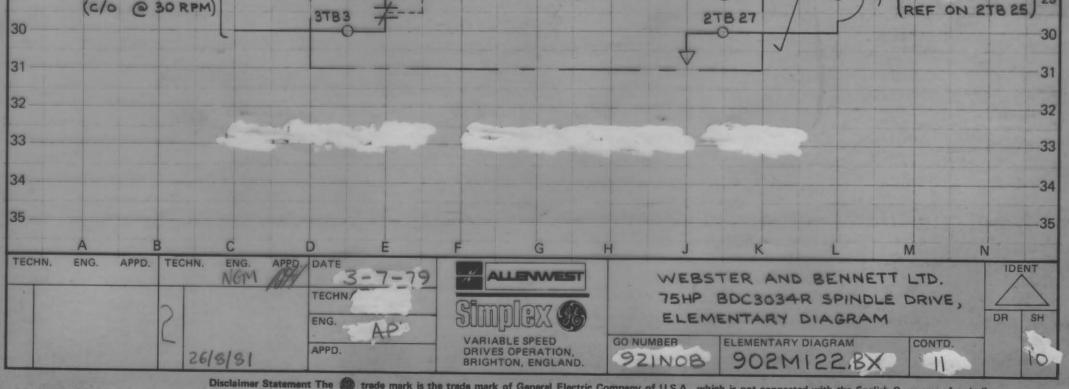
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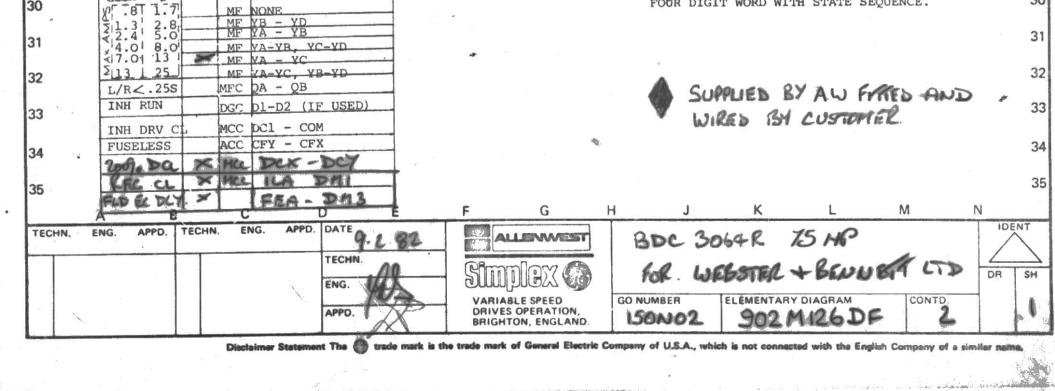


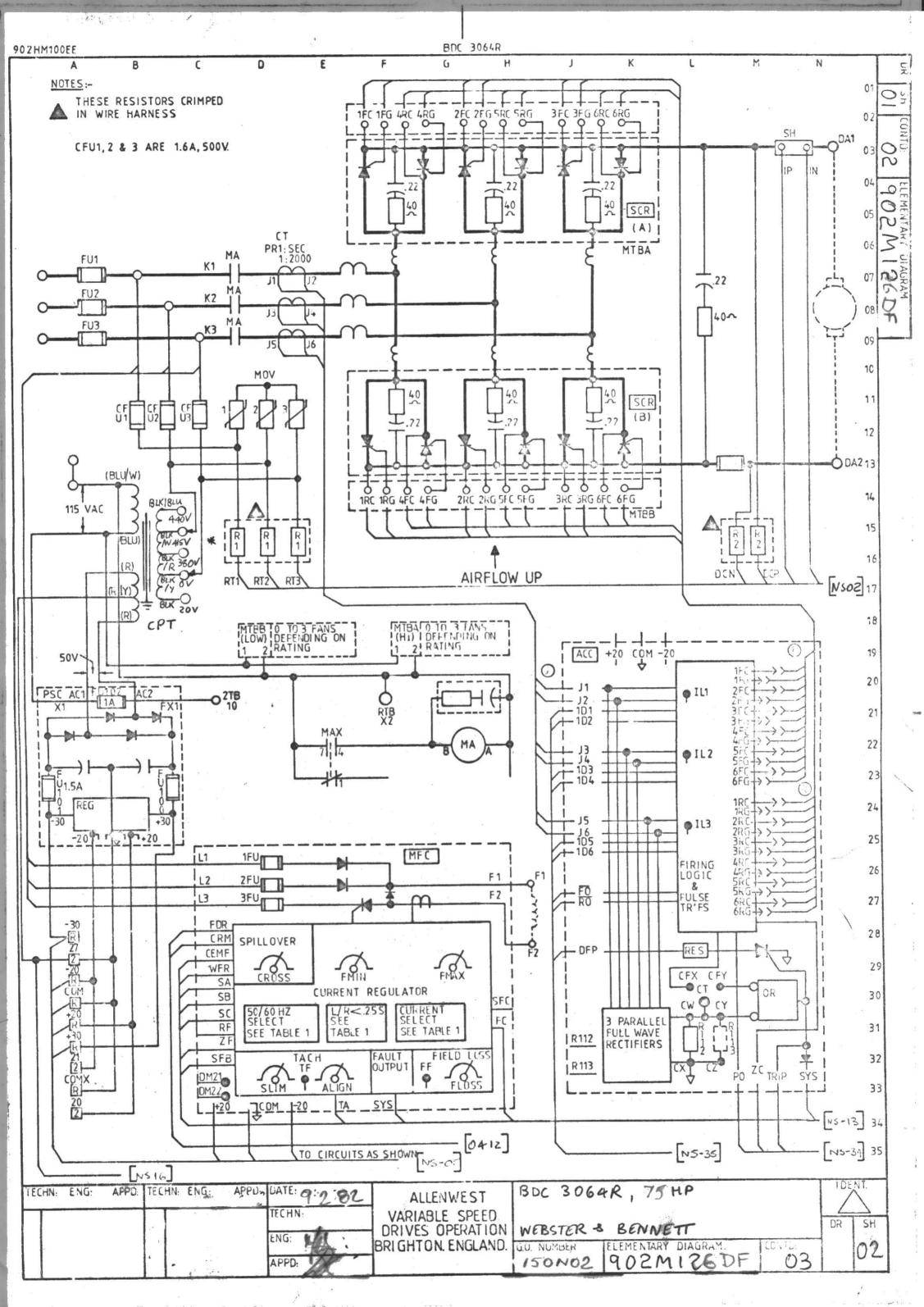
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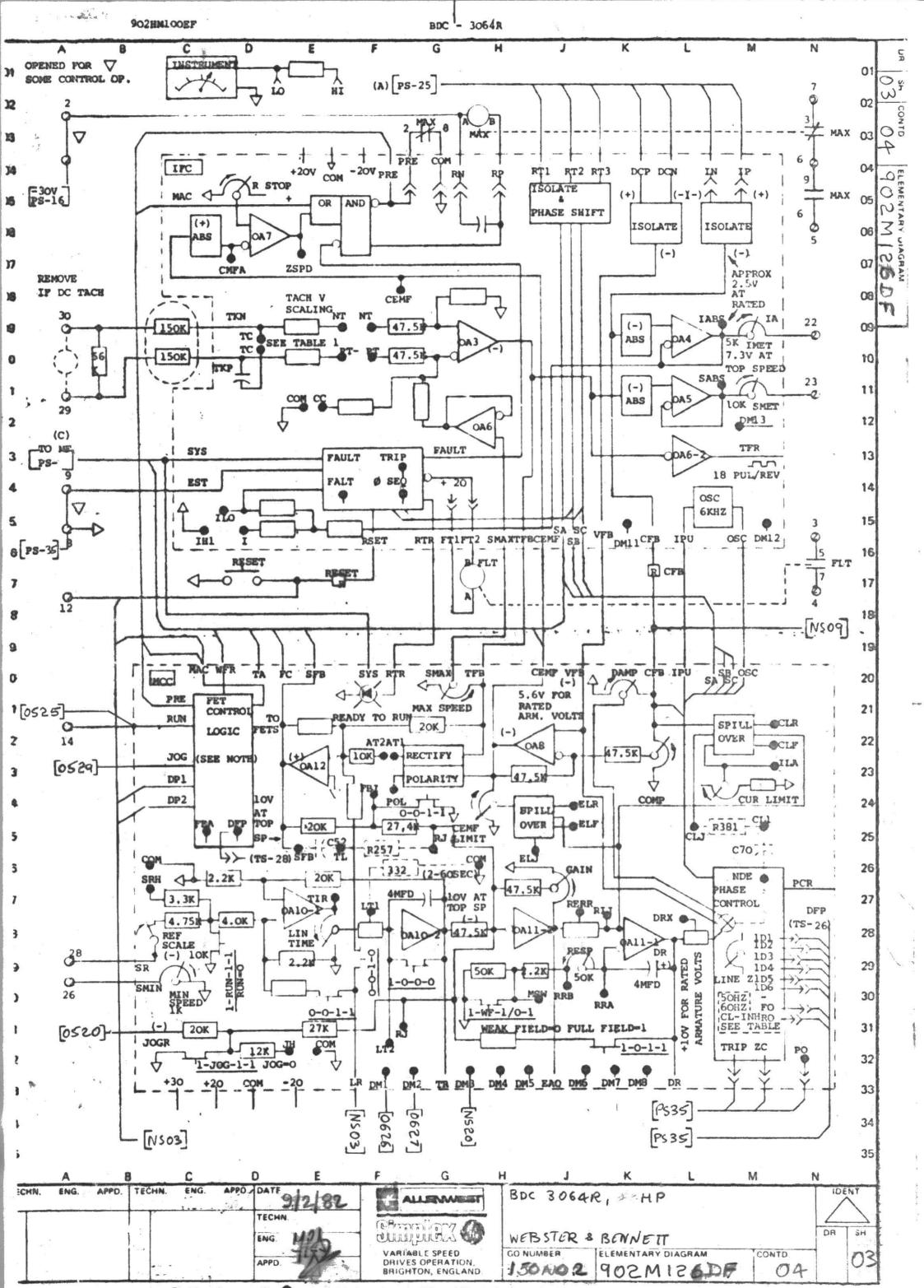
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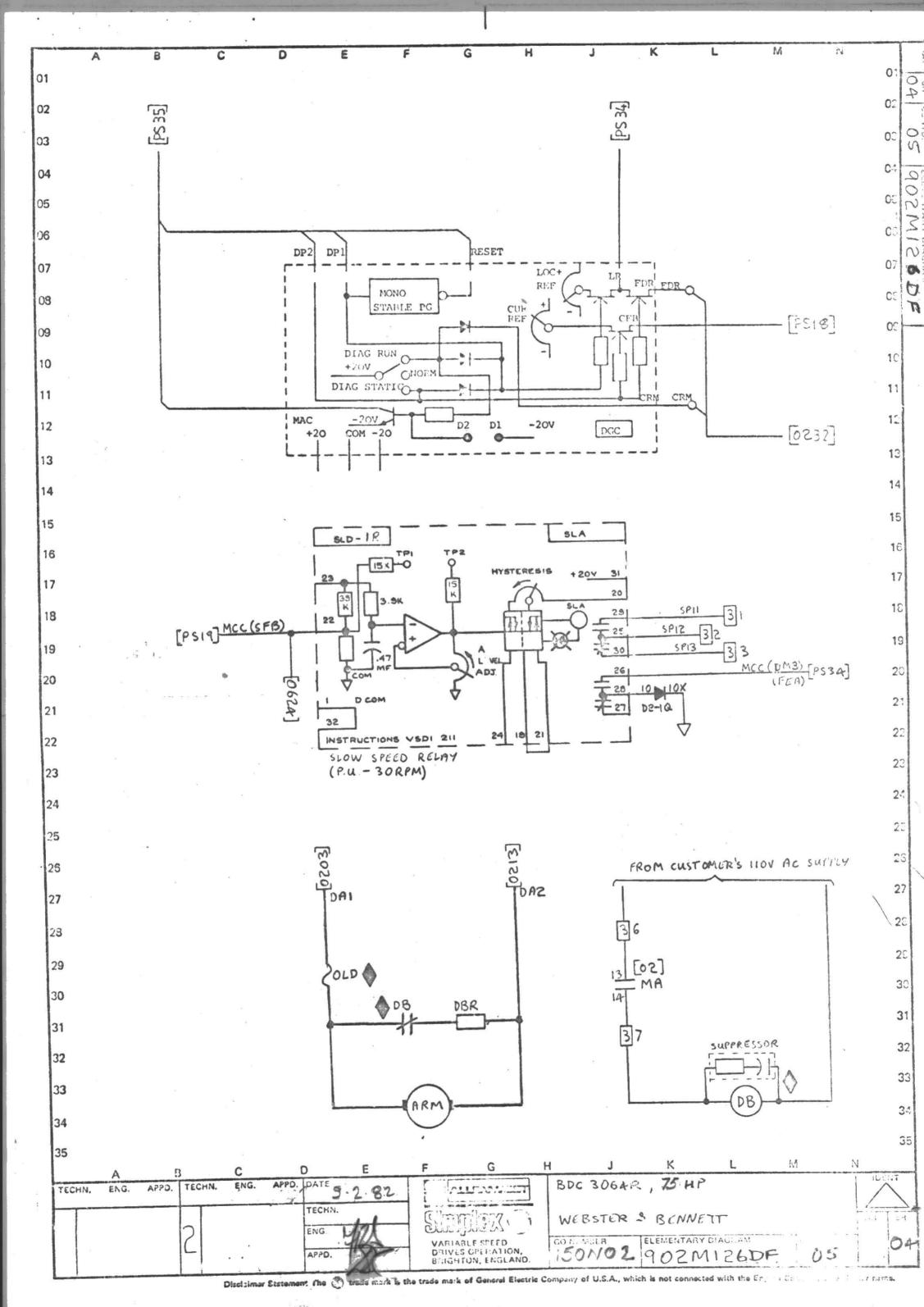
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IPU       INTIAL PULSE ( 20)         IPU       INTIAL PULSE ( 20)         IPU       IDCAL REF. FROM DOC ( 33)         JOG       JOG BEFRENCE INPUT ( 21)         IPU       JOG R JOG SHITCH INPUT ( 23)         JOG       STAB ON TERMINAL         IPU       TERMINAL AT 27B, 3TB, 4TB, RTB.         IPU       FERMINAL AT 7.B.'S         IPU       TERMINAL AT 7.B.'S	vi	$= \frac{-R2}{-R2}$	-R2	VI	VC	0 = (1 +	R2 ) VI					manner IF					
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JOC SETTING 100 VO = SIGN (1) X ABSOLUTE VALUE OF VI       5000 SETTING 100 FERDENCE INPUT (31)         MAC       MAC MAX/MA CONTROL SIGNAL (20)         STAB ON TERMINAL       MAC         TERMINAL AT 27B, 37B, 47B, 87B.       PC         PC       PHASE CONTROL FER, (26)         CONTENTIONETER ARROWS ON THE CARD       PORE PROVIDE SEQUENCE (14)         FORTENTIONETER ARROWS ON THE CARD       RIJ         FUNCTION.       FORTENTIONETER ARROWS ON THE CARD         FUNCTION.       FORTENTIONETER ARROWS ON THE CARD         FUNCTION.       FILE MENTARY DIAGRAMS INDICATE THE         FUNCTION.       FILE REPORTANCE CLOCKNISE TO INCREASE         FUNCTION.       FILE REPORTS         FUNCTION.       FILE REPORTS         FUNCTION.       FILE REPORTS         FUNCTION.       FILE REPORTS         FUNCTION.       STAB ON TERCHINE TO INCREASE         FUNCTION.       FILE REPORTS         FUNCTION.       STAB ON THE CARD         FUNCTION.       STAB ON THE CARD         STAB ON TERCTION AS THE POTENTIONETER       FILE REPORTS         STAB ON TERCTION AS THE POTENTIONETER       REST         FUNCTION.       STAB ON TERCTION AS THE POTENTIONETER         STAB ON TERCTION AS THE POTENTIONETER       STAB ON TERCTION AS THE POTENTIONETER	CASE GRO	1	- (	CASE G	ROUND											33)	
And       Work       STAB ON TERMINAL       PAC       MAX/MA CONTROL SIGNL (20)         STAB ON TERMINAL       STAB ON TERMINAL       OSC       OSCILLATOR (130)         Image: Stab on TERMINAL       STAB ON TERMINAL       OSC       OSCILLATOR (17)         Image: Stab on TERMINAL AT 27B, 37B, 47B, RTB.       PCR       PHAC MERSCONTROL REF. (26)         Image: Stab on TERMINAL AT 27B, 37B, 47B, RTB.       PCR       PHAC MERSCONTROL REF. (26)         Image: Stab on TERMINAL AT 7.B.'S       PRE       DRIVER DRIVE PRECONTROL REF. (21)         Image: Stab on TERMINAL AT 7.B.'S       PRE       PRIVER DRIVE PRECONTROL (21)         Image: Stab on TERMINAL AT 7.B.'S       PRE       PRIVER DRIVE PRECONTROL (21)         Image: Stab on TERMINAL AT 7.B.'S       PRE       PRIVER ONLIATOR ERROR (27)         Image: Stab on TERMINAL AT 7.B.'S       PRE       PRIVER ONLIATOR ERROR (27)         Image: Stab on TERMINAL AT 7.B.'S       PRE       PRIVE PRECONTROL REF. (20)         Image: Stab on TERMINAL AT 7.B.'S       PRE       PRIVE PRECONTROL REF. (20)         Image: Stab on TERMINAL AT 7.B.'S       PRE       PRIVE PRECONTROL REF. (20)         Image: Stab on TERMINAL AT 7.B.'S       PRIVE INTROPORTION (31)       PRIVE INTROPORTION (31)         Image: Stab on TERMINAL AT 7.B.'S       PRE       PRIVE TERMINAL AT 7.B.'S'S	0	(J)vo	J.						8							31)	
<ul> <li>JERMINAL AT 2TB, 3TB, 4TB, MTB. EX: 9[2] - 2TB9; X2 E] - RTBX2</li> <li>JCC JTERMINAL AT T.B.'S</li> <li>JCC PHASE CONTROL FREE, (26)</li> <li>PRE DRIVE PRECONDITION (21)</li> <li>MORE DRIVE PRECONDITION (22)</li> <li>MORE DRIVE PRECONDRIVE PRECONT</li></ul>	VO = SI(	ABS	S I	VO = S	IGN ()	) X ABS	OLUTE VALU	E OF V	I								
<ul> <li>TERNINAL AT 2TB, 3TB, 4TB, FTB. EX: 9 (2) - 2TB9; X2 (2) - RTBX2</li> <li>TERNINAL AT 2TB, 3TB, 4TB, FTB. EX: 9 (2) - 2TB9; X2 (2) - RTBX2</li> <li>TERNINAL AT 2.B, 'S</li> <li>TERNINAL AT T.B. 'S</li> <li>TERNINAL AT T.B. 'S</li> <li>POTENTIONETER ARRONS ON THE CARD</li> <li>POTENTIONETER ARRONS ON THE CARD</li> <li>POTENTIONETER ARRONS INDICATE THE RIPE RECULATOR ENSON (21)</li> <li>THESE RESISTORS ARE CRIMPED IN WIRE</li> <li>SHAFT IS ROTATED CLOCKWISE TO INCREASE</li> <li>FUNCTION.</li> <li>THESE RESISTORS ARE CRIMPED IN WIRE</li> <li>SARAT IS ROTATED CLOCKWISE TO INCREASE</li> <li>FUNCTION</li> <li>THESE RESISTORS ARE CRIMPED IN WIRE</li> <li>SFB SPEED FEEDBACK (20)</li> <li>SHAFT IS REACTIONED CLOCKWISE TO INCREASE</li> <li>FUNCTION</li> <li>THESE RESISTORS ARE CRIMPED IN WIRE</li> <li>SFB SPEED FEEDBACK (20)</li> <li>SK SYSTE' PERFERICE INPUT (21)</li> <li>SK SYSTE' PERFERICE INPUT (22)</li> <li>SK SYSTE' PERFERICE (12)</li> <li>TTR ACADIO FREQUENCY OUTPUT (13)</li> <li>TTR ACADIO FREQUENCY OUTPUT (13)<!--</td--><td>STAB ON</td><td><b>(</b>)</td><td></td><td>STAB C</td><td>N TER</td><td>MINAL</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></li></ul>	STAB ON	<b>(</b> )		STAB C	N TER	MINAL											
<ul> <li>EX: 9[2] - 2TB9; X2 E] - RTBX2</li> <li>EX: 9[2] - 2TB9; X2 E] - RTBX2</li> <li>FILE STORE ARROWS ON THE CARD</li> <li>POTENTIOMETER ARROWS ON THE CARD</li> <li>POTENTIOMETERS</li> <li>POTENTIOMETERS</li> <li>POTENTIOMETER</li> <li>POTENTIOMETERS</li> <li>POTENTIOMETER</li> <li>POTENTIONETERS</li> <li>POTENTIONETER</li> <li>POTENTIONETER</li> <li>POTENTIONETER</li> <li>POTENTIONETER</li> <li>POT</li></ul>	Ś	<u> </u>	-				nordalit <b>a</b> badami narra	and A Lawle								× .	
O       TERMINAL AT T.B.'S       Ø EER       POTENTIOMETER ARROWS ON THE CARD         O       TERMINAL AT T.B.'S       POTENTIOMETER ARROWS ON THE CARD       POTENTIOMETER ARROWS ON THE CARD         FIJ       INTEGRATOR SUMMING JUNCTION (27)       POTENTIOMETER ARROWS ON THE CARD       POTENTIOMETER ARROWS ON THE CARD         SHAFT IS ROTATED CLOCKWISE TO INCREASE       FIL       PRA       PEGULATOR SUMMING JUNCTION (27)         SHAFT IS ROTATED CLOCKWISE TO INCREASE       FITR       READY TO ON (16)       POTENTIOMETER ARROWS ON THE CARD         SHAFT IS ROTATED CLOCKWISE TO INCREASE       FITR       READY TO ON (16)       POTENTIOMETER ARROWS ON OTHER (12)         SHAFT IS ROTATED CLOCKWISE TO INCREASE       FITR       READY TO ON (16)       POTENTIOMETER ARROWS ON OTHER (12)         SHAFT IS ROTATED CLOCKWISE TO INCREASE       FITR       READY TO ON (16)       POTENTIOMETER ARROWS ON OTHER (12)         SHAFT IS ROTATED CLOCKWISE TO INCREASE       FITR       READY TO ON (16)       POTENTIOMETER ARROWS ON OTHER (12)         SHAFT IS RESISTORS ARE CRIMPED IN WIRE       SFB       SPEED FEEDES SIGNAL FOR MUTTER (12)       POTENTIOMETER ARROWS SON OTHER (12)         SOLO       INC. FILL       INC. FILL       SFF       SYSTE'S REPERENCE INPUT (22)       POTENT TO THE ADULT TO (16)         SOLO       IFC. I - THI       IFC. I - THI       IFC. I - THI       IFC																	
O       TERMINAL AT T.S.'S         FUNCTION       FERR PECULATOR ENROR (27)         RIJ       INTECRATOR SUMMING JUNCTION (21)         RIJ       INTECRATOR SUMMING JUNCTION (31)         RIJ       RA         PECULATOR SUMMING JUNCTION (31)         RIAT       IS RECTION AS THE POTENTIOMETER         RIAT       RISE         PUNCTION       RIK         RISE       RESET         RIME       RISE         PUNCTION       RIK         RISE       RIK         RISE       RIK         RIK       READY TO RUN (16)         RIK       SA         RIK       SA         RIK       READY TO RUN (16)         RIK       RIK         RIK       READY TO RUN (16)         RIK       REPEDERCE (16)         RIK       REPEDERCE (16)         RIK       RECONTACONTACTOR REPEDENCE <td></td> <td></td> <td></td> <td></td> <td>1999 A.M.</td> <td></td> <td></td> <td>A2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>- /</td> <td></td>					1999 A.M.			A2								- /	
FUNCTIONETER ARROWS ON THE CADD       FJ         PROTENTIONETER ARROWS INDICATE THE       FJ         WHPER DIRECTION AS THE POTENTIOMETER       FRA         PEGULATOR RESPONSE ADJUST (30)         SHAFT IS ROTATED CLOCKWISE TO INCREASE       FT         FUNCTION.       FT         THESE RESISTORS ARE CRIMPED IN WIRE       FT         APPNESS.       SFB         FUNCTION       SEE         FUNCTION       USE         IDC-400%       IDC         GOHZ       MCC HZA - PHA         TCC-400%       ICC ILD         SR5       SFB         SR5       SFE SPEED SIGNAL FOR METER (12)         SR5       SFB         SOMET       SPEED SIGNAL FOR METER (12)         SR       SYS         SYS       SYSTEM FAULT FOR (13)         TCC-400%       ICC ILD         SR5       SFI         SR5       SFI         SR5       SFI         SR5       SFI         SR5       SYS         SR6       SFE         SR6       SFE         SR5       SFE         SR5       SFE         SR5       SFE         SR5 <t< td=""><td>TERMINA</td><td>0</td><td></td><td>TERMIN</td><td>AL AT</td><td>T.B.'s</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	TERMINA	0		TERMIN	AL AT	T.B.'s											
Model       Rescaled and the subset of subset	POTENTI	F	~	POTENT	IOMET	ER ARRO	WS ON THE	CARD									
WIPER DIRECTION AS THE POTENTIOMETER SHAFT IS ROTATED CLOCKWISE TO INCREASE FUNCTION. THESE RESISTORS ARE CRIMPED IN WIRE HARNESS. THESE RESISTORS ARE CRIMPED IN WIRE HARNESS. FUNCTION MC 24-2B (IF USED) $\overline{50RZ}$ MC 2A-2B (IF USED) $\overline$		1 S L	~													NOTES AN ANT ANT	
FUNCTION. FUNCTION. THESE RESISTORS ARE CRIMPED IN WIRE HARNESS. THESE RESISTORS ARE CRIMPED IN WIRE SA-C PHASE SYN OUTPUT (16) SMET SPEED SIGNL FOR METER (12) SMET SPEED SIGNL FOR METER (12) THE TACHOFAULT RIP(1) (13) TA OUTPUT FOR TACHO TRIP ADJUST (20) TF TACHOFAULT RIP(1) (13) TACHOFIC I - THI JOC-4000 VIEG NOTE: THE TACHOFTRE FEEDBACK (20) TF TACHOFTRE FEEDBACK (20) TF TACHOFTRE FEEDBACK (20) TF TACHOFTRE FEEDBACK (20) TF TACHOFTRE FEEDBACK (19) WIR WEAK FIELD REFERENCE (33) TACHOFT WORE AC TACHO VERG NOTE: THE ST POINT ON DOOP FRONT) WARPING SYSTEM (NS/PS/TS) PS - PAST SHEET NS - NEXT SHEET TACHOFTLI IFC NC - TC TACHO K. COMMINES 27-71404C - IFC NT-NTL PT - PT1 27-71404C - IFC NT-NTL PT - PT2 CLOSED/OPEN (1/O) STATE OF THESE NOTE: THE FILD EFFECT TRANSISTOR: THE " CLOSED/OPEN (1/O) STATE OF THESE																	
THESE RESISTORS ARE CRIMPED IN WIRE HARNESS. THESE RESISTORS ARE CRIMPED IN WIRE SA-C PHASE SYN OUTPUT (16) SRET SPEED SIGNAL FOR METER (12) SRET SPEED STEP REPERSIVE INPUT (13) TA OUTPUT FOR TACHO FRUIT (13) TACHOFILI IFC I-ILID SR5 - 9Y MCC HI- COM ITT, 3-73ec (NONE) 2 - 60-9ec 32.2 FROM LTI TO COM VREG NT-CEMF CC-COM (NONE) 2 - 60-9ec 12.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.						TATED C	LOCKWISE T	O INCR	EASE								
<ul> <li>THESE RESISTORS ARE CRIMPED IN WIRE</li> <li>THESE RESISTORS ARE CRIMPED IN WIRE</li> <li>SFB SPEED FEEDBACK ( 20)</li> <li>SMET SPEED SIGNAL FOR METER ( 12)</li> <li>SR SYSTEP REFERENCE INPUT ( 29)</li> <li>SR SYSTEP REPORTED IN UT ( 13)</li> <li>TA OUTPUT FOR TACHO TRIP ADJUST ( 20)</li> <li>TF TACHO FAULT ( 100NE)</li> <li>TR ACTACHO FREQUENCY OUTPUT ( 13)</li> <li>TR TIMED REFERENCE ( 100 - 13)</li> <li>SR5 - 9Y</li> <li>NONE)</li> <li>9 - 20V</li> <li>NCC SRI - COM</li> <li>JOGR 10V</li> <li>(NONE)</li> <li>20V</li> <li>NCC JH - COM</li> <li>(NONE)</li> <li>20V</li> <li>NCC MI - COM</li> <li>(NONE)</li> <li>20V</li> <li>NCC TACHO</li> <li>NCC ATI - AT2</li> <li>TACHO V.</li> <li>24-64vdc</li> <li>IFC NT-NT1 PT - PT1</li> <li>27-71vac</li> <li>IFC NT-NT2 PT - PT2</li> <li>G6-177vac</li> <li>IFC NT-NT2 PT - PT2</li> <li>CLOSED/OPEN (1/0) STATE OF THESE</li> </ul>	FUNCTIO			FUNCT	ON.												
HARNESS.SMETSPEED SIGNAL FOR METER (12)SNETSPEED SIGNAL FOR METER (12)FUNCTION USELOCJUMPERSGOHZMEC ZA-ZB (IF USED)3GRZMEC ZA-ZB (IF USED)SOMSTES SYSTE! REPERENCE INPUT (29)TACHO FALLT (NS28)TACHO FALLT (NS28)TE TACHO FREQUENCY OUTPUT (13)TRA CACHO FREQUENCY OUTPUT (13)TRA CACHO FREQUENCY OUTPUT (13)TRTACHO FREQUENCY OUTPUT (13)TRA CACHO FREQUENCY OUTPUT (13)SAS SYSTEMOUT (NONE)QMCC JAC COMVEEGMACC ATT - COMITT ACHO FILZMCC MONE)A CACHO COMMAPPING SYSTEMCOMMAPPING SYSTEMTACHO FILZIFC NT-NT1 PT - PT124-6	THESE R		A .	THESE	RESIS	TORS AR	E CRIMPED	IN WIR	E								
FUNCTION       USE       LOC       JUMPERS         60HZ       MFC       ZA-ZB (IF USED)         56HZ       MCC       HZA-ZB (IF USED)         56HZ       MCC       HZA-PHA         10C-400%       IFC I - IHI         -500%       IFC I - IHI         -500%       IFC I - IHI         -300%       IFC I - IHI         9 - 200'       MCC SRH - COM         JOGR IOW       (NONE)         2 - 60sec       3320 FROM LTI TO COM         VEEG       MT - CEMF CC-COM         VEEG       MT - CEMF CC COM         VEEG       MT - CEMF CC COM         ACTACHO       MCC ATI - AT2         TACHO       MCC ATI - AT2         TACHO       IFC NT-NT1 PT - PT1         24-64vdc       IFC NT-NT1 PT - PT1         27-71vac       IFC	HARNESS			HARNES	ss.											( 12)	
GOHZMFCZA-ZB (IF USED)TAOUTPUT FOR TACHO TRIP ADJUST (20) $GOHZ$ MFCZA-ZB (IF USED)TFTAOUTPUT FOR TACHO TRIP ADJUST (20) $SOHZ$ MCCHEFRATACHOFER FEEDBACK (20) $IOC-400%$ (NONE)TFAC TACHO FREUENCY OUTPUT (13) $-500%$ IFCI-IHI $-500%$ IFCI-ILD $-500%$ IFCI-ILD $-500%$ IFCI-ILD $300%$ IFCIFC $-100%$ MONE)* $9 - 20v$ MCCSRH - COMJOGR IOW(NONE) $20v$ MCC JH - COMLT. 3-7bec(NONE) $20v$ MCC HI - COMLT. 3-7bec(NONE) $2v$ MCC ATI - AT2TACHO FILTIFC NT-NT1 PT - PT1 $2r-71yac$ IFC NT-NT1 PT - PT1 $2r-71yac$ IFC NT-NT1 PT - PT2 $6o-160vdc$ IFC NT-NT2 PT - PT2 $6o-160vdc$ IFC NT-NT2 PT - PT2 $6o-177yac$ IFC NT-NT2 PT - PT2 $closeD/OPEN (I/O) STATE OF THESEradiaNOTE: T FIELD EFFECT TRANSISTOR: THEcloseD/OPEN (I/O) $					1			-									
GHZMCC $ZA-ZB$ (IF USED)TFTACHO FAULT (NS28) $5GHZ$ MCC $EZA - PHA$ TFTACHOMETER FEEDBACK (20) $10C-400N$ (NONE)TFRAC TACHO FREQUENCY OUTPUT (13) $-500N$ IFC I - IHITRTIMED REFERENCE (33) $-500N$ IFC I - IHIYFBVOLTAGE FEEDBACK (19) $-500N$ MCC SRH - COM* VFBVOLTAGE FEEDBACK (20) $9 - 20v$ MCC SRH - COM* VFBVOLTAGE FEEDBACK (20) $9 - 20v$ MCC SRH - COM* VFBVOLTAGE FEEDBACK (20) $2 - 60sec$ $322A$ FROM LTI TO COM(* - TEST POINT ON DOOR FRONT) $20v$ MCC ATI - AT2MCC ATI - AT2 $2 - 60sec$ $322A$ FROM LTI TO COM(NS/PS/TS) PS - PAST SHEET $VREG$ NT-CEMF CC-COM(NS/PS/TS) PS - PAST SHEET $VREG$ NT-CEMF CC-COM(NS/PS/TS) PS - PAST SHEETTACHO FILTIFC NT-NT1 PT - PT1NS - NEXT SHEET $27-71vac$ IFC NT-NT1 PT - PT1 $27-71vac$ IFC NT-NT2 PT - PT2 $60-160vdc$ IFC NT-NT2 PT - PT2 $66-177vac$ IFC NT-NT2 PT - PT2 $1FC$ IFC NT-NT2 PT - PT2	TION USE	FUNCTIO	NCTION	N USE	LOC	JUMP	ERS	-									
SORZMCC HZA - PHAIOC-400%(NONE)-500%IFC I - IHI-500%IFC I - COM9 - 20%NONE)9 - 20%MCC SRH - COMJOGR IOW(NONE)20%MCC IH - COM11.7.3 - 7s-cc(NONE)20%MCC IH - COMLT. 3 - 7s-cc(NONE)2 - 60sec332.0 FROM LTI TO COMVREGNT-CEMF CC-COMDC TACHO(NONE)AC TACHOMC ATI - AT2TACHO FILTIFC NT-NT1 PT - PT127-71 vacIFC NT-NT1 PT - PT127-71 vacIFC NT-NT2 PT - PT266-1677 vacIFC NT-NT2 PT - PT266-177 vacIFC NT-NT2 PT - PT266	1	60HZ	IZ		MFC	ZA-ZB (	IF USED)									DJUST ( 20)	
IOC-400% -500%IFC I - IHITFRAC TACHO FREQUENCY OUTPUT (13) $-300\%$ IFC I - IHI*TRTIMED REFERENCE (33) $-300\%$ IFC I - ILO**TRTIMED REFERENCE (33) $SR5 - 9y$ NONE)**WFRWEAK FIELD REFERENCE (20) $9 - 20v$ MCC SRH - COM***WFRWEAK FIELD REFERENCE (20) $300\%$ IFC IH - COM****WFRWEAK FIELD REFERENCE (20) $20v$ MCC JH - COM*****WFRWEAK FIELD REFERENCE (20) $20v$ MCC JH - COM****WFRWEAK FIELD REFERENCE (20) $20v$ MCC JH - COM******* $20v$ MCC JH - COM********** $20v$ MCC JH - COM** <td></td> <td>BOHZ -</td> <td>12</td> <td>-+3</td> <td>IMCC</td> <td>HZA - P</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>20)</td> <td></td>		BOHZ -	12	-+3	IMCC	HZA - P		-								20)	
1FC I - IHI       * TR       TIMED REFERENCE (33)         -300%       IFC I-ILO       * VFB       VOLTAGE FEEDBACK (19)         SR5 - 9y       NONE)       * WFR       WEAK FIELD REFERENCE (20)         9 - 200%       MCC SRH - COM       (NONE)       * WFR       WEAK FIELD REFERENCE (20)         30GR 10%       (NONE)       (NONE)       * WFR       WEAK FIELD REFERENCE (20)         20%       MCC JH - COM       (NONE)       (* - TEST POINT ON DOOR FRONT)         2 - 60sec       332.0 FROM LTI TO COM       (MAPPING SYSTEM         VEEG       NT-CEMF CC-COM       (NS/PS/TS) PS - PAST SHEET         AC TACHO       MCC ATI - AT2       NS - NEXT SHEET         TACHO FILT       IFC NT-NT1 PT - PT1       S - NEXT SHEET         27-71vac       IFC NT-NT1 PT - FT1 - 60-160vdc       IFC NT-NT2 PT - PT2         60-160vdc       IFC NT-NT2 PT - PT2       DENOTED BY SHEET NUMBER AND LINE? E.G. (1A16) SIGNIFIES LOCATION ON SET         1A, LINE 16 ETC.       NOTE: T FIELD EFFECT TRANSISTOR: THE '         CLOSED/OPEN (1/0) STATE OF THESE       UPUN						And in the local division of the local division of the										UT ( 13)	¥.
SR5 - 9y       NONE)         9 - 20v       MCC         JOGR 10v       (NONE)         20V       MCC         JOGR 10v       (NONE)         20V       MCC         JUT. 3-7sec       (NONE)         2 - 60sec       3320.FROM LTI TO COM         VREG       NT-CEMF CC-COM         DC TACHO       (NONE)         AC TACHO       (NONE)         AC TACHO       (NONE)         Z4-64vdc       IFC NT-NT1 PT - PT1         Z4-64vdc       IFC NT-NT1 PT - PT1         Z4-64vdc       IFC NT-NT1 PT - PT2         60-160vdc       IFC NT-NT2 PT - PT2         66-177vac       IFC NT-NT2 PT - PT2         66-177vac       IFC NT-NT2 PT - PT2         66-177vac       IFC NT-NT2 PT - PT2	500%	-500	-500%	8	IFC	I - IHI					1	2000 C					
SRS - 59       MCC SRH - COM         JOGR 10V       (NONE)         JOGR 10V       (NONE)         20V       MCC JH - COM         LT.3-75ec       (NONE)         2 - 60sec       3320 FROM LTI TO COM         VREG       NT-CEMF CC-COM         DC TACHO       (NONE)         AC TACHO       MCC AT1 - AT2         TACHO FILT       IFC TC - TC         TACHO V.       IFC NT-NT1 PT - PT1         27-71vac       IFC NT-NT1 PT - PT1         27-71vac       IFC NT-NT2 PT - PT2         60-160vdc       IFC NT-NT2 PT - PT2         66-177vac       IFC NT-NT2 PT - PT2         66-177vac       IFC NT-NT2 PT - PT2    (* - TEST POINT ON DOOR FRONT)    (* - TEST POINT ON DOOR FRONT)    (NS/PS/TS) PS - PAST SHEET NS - NEXT SHEET NS - NEXT SHEET NS - THIS SHEET HENCE (PS - 12) DENOTES LOCATION ON PAST SHEET LINE 12. OTHER LOCATION DENOTED BY SHEET NUMBER AND LINE? E.G. (1A16) SIGNIFIES LOCATION ON SHEET IA, LINE 16 ETC. NOTE: T FIELD EFFECT TRANSISTOR: THE ' CLOSED/OPEN (1/0) STATE OF THESE DUM		and the statement of the	and the statement of th					-								20)	
JOGR LOV       (NONE)         20V       MCC JH - COM         LT.3-75ec       (NONE)         2 - 60sec       3320 FROM LTI TO COM         VREG       NT-CEMF CC-COM         DC TACHO       (NONE)         AC TACHO       (NONE)         AC TACHO       (NONE)         AC TACHO       (NONE)         AC TACHO       MCC AT1 - AT2         TACHO FILT       IFC NT-NT1 PT - PT1         Z4-64vdc       IFC NT-NT1 PT - FT1         27-71vac       IFC NT-NT1 PT - FT1         60-160vdc       IFC NT-NT2 PT - PT2         66-177vac       IFC NT-NT2 PT - PT2					-	the second s	COM							ě			
20V       MCC       JH - COM         LT. 3-75 ec       (NONE)         2 - 60sec       B320 FROM LTI TO COM         VREG       NT-CEMF CC-COM         DC TACHO       (NONE)         AC TACHO       (NONE)         AC TACHO       MCC ATI - AT2         TACHO FILI       IFC TC - TC         TACHO V.       IFC NT-NT1 PT - PT1         24-64vdc       IFC NT-NT1 PT - FT1         60-160vdc       IFC NT-NT2 PT - FT1         60-160vdc       IFC NT-NT2 PT - PT2         66-177vac       IFC NT-NT2 PT - PT2         66-177vac       IFC NT-NT2 PT - PT2         66-177vac       IFC NT-NT2 PT - PT2		and the second se	manufacture design		+						( *	- TE	ST POINT	ON DOOR FRO	NT)		
LT. 3-75°C       (NONE)         2 - 60sec       3320 FROM LTI TO COM         VREG       NT-CEMF CC-COM         DC TACHO       NT-CEMF CC-COM         AC TACHO       (NONE)         AC TACHO       MCC AT1 - AT2         TACHO FILT       IFC TC - TC         TACHO V.       IFC NT-NT1 PT - PT1         24-64vdc       IFC NT-NT1 PT - PT1         60-160vdc       IFC NT-NT1 PT - FT1         60-160vdc       IFC NT-NT2 PT - PT2         66-177vac       IFC NT-NT2 PT - PT2         CLOSED/OPEN (I/O) STATE OF THESE	20V 🔀	20	201	v		- 10.0	M										
2 - 60sec       3320 FROM LTI TO COM       MAPPING SYSTEM         VREG       NT-CEMF CC-COM       (NS/PS/TS)       PS - PAST SHEET         DC TACHO       MCC AT1 - AT2       NS - NEXT SHEET         TACHO FILT       IFC TC - TC       TS - THIS SHEET         TACHO V.       IFC NT-NT1 PT - PT1       DENOTED BY SHEET NUMBER AND LINE? E.G. (1A16) SIGNIFIES LOCATION ON SHEET LINE 12. OTHER LOCATION         27-71vac       IFC NT-NT2 PT - PT2       DENOTED BY SHEET NUMBER AND LINE? E.G. (1A16) SIGNIFIES LOCATION ON SHEET         66-177vac       IFC NT-NT2 PT - PT2       NOTE: IFC TRANSISTOR: THE '         CLOSED/OPEN (1/O) STATE OF THESE       "DENUM"	starty on a neurostation in the local division of the party of the par	and an and the second sec	THE REPORT OF LAND AND ADDRESS OF LAND ADDRESS	and the local division of the local division		(NONE)		_			2		10 01100	CN .		0.40	
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24-64vdc       IFC NT-NT1 PT - PT1         27-71vac       IFC NT-NT1 PT - FT1         60-160vdc       IFC NT-NT2 PT - PT2         66-177vac       IFC NT-NT2 PT - PT2         66-177vac       IFC NT-NT2 PT - PT2         Closed/OPEN (I/O) STATE OF THESE		Sand and a subscription of the subscription of	and the second second second second		IFC	TC - TC		-								and the second	
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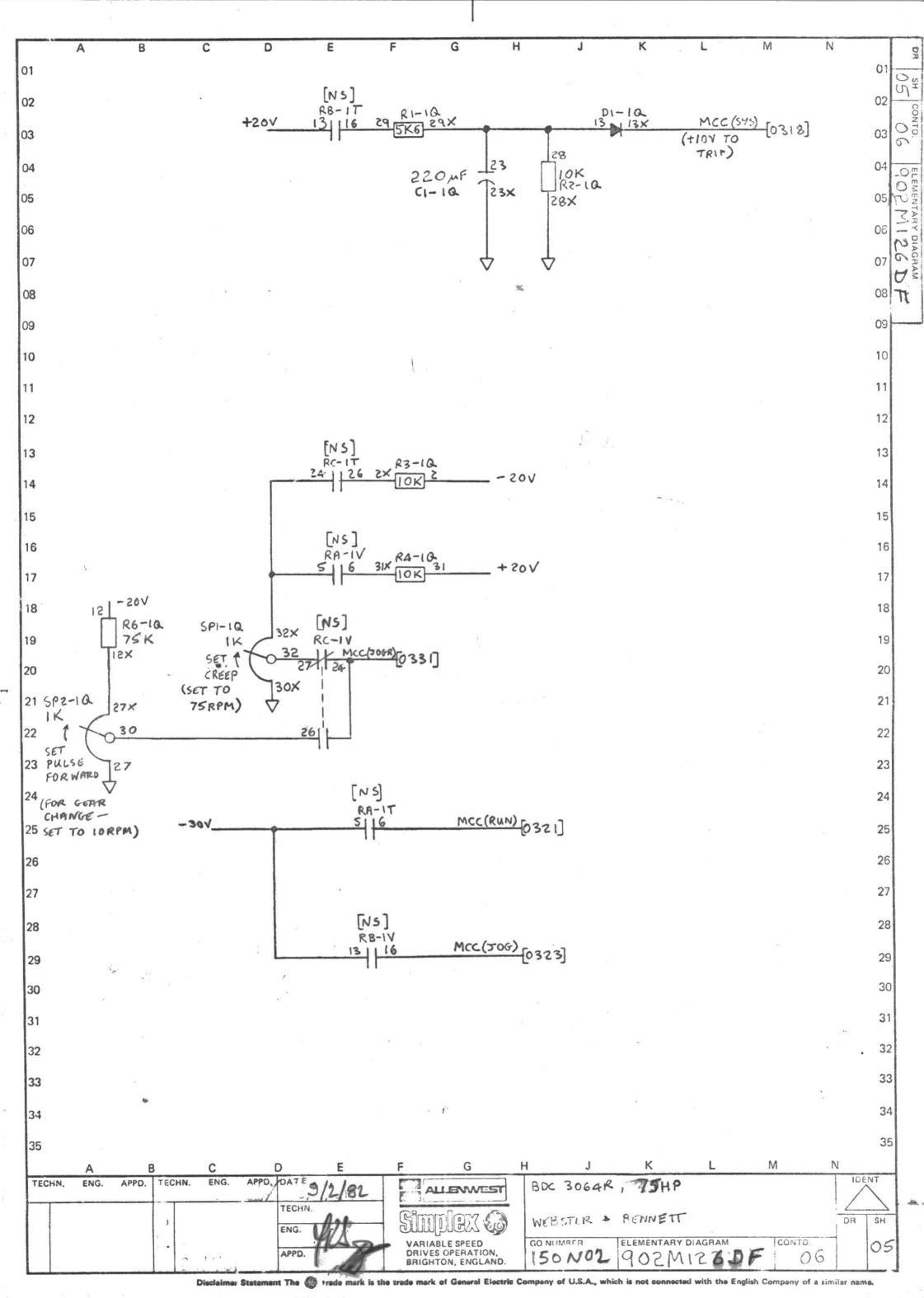




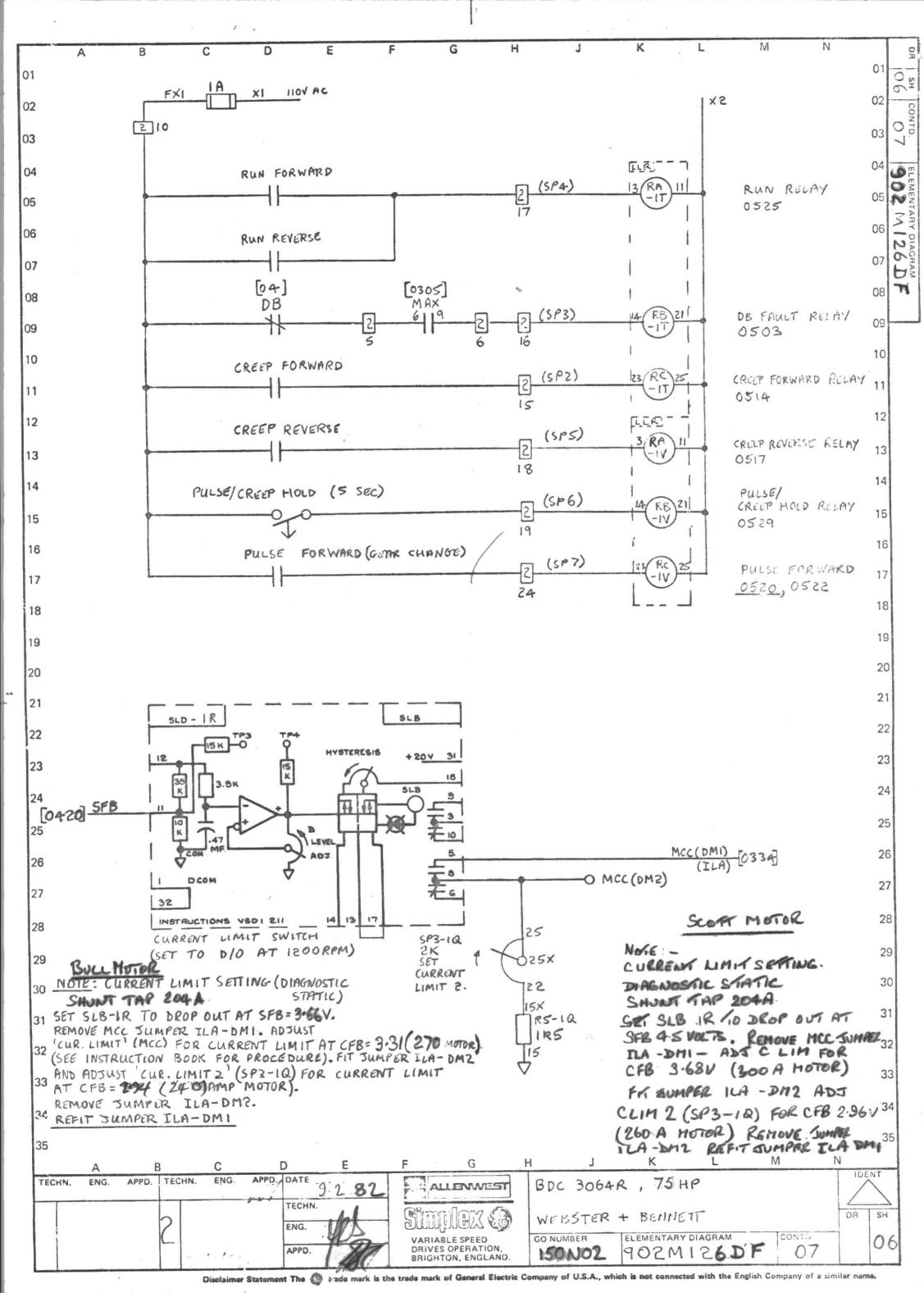


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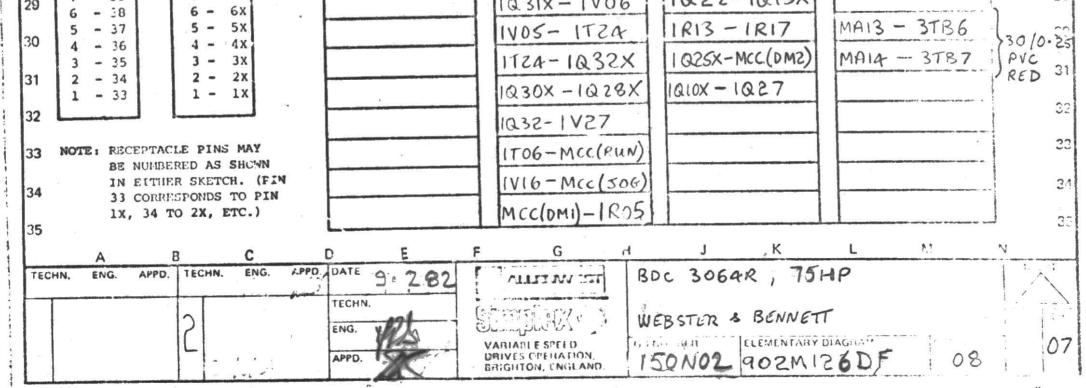


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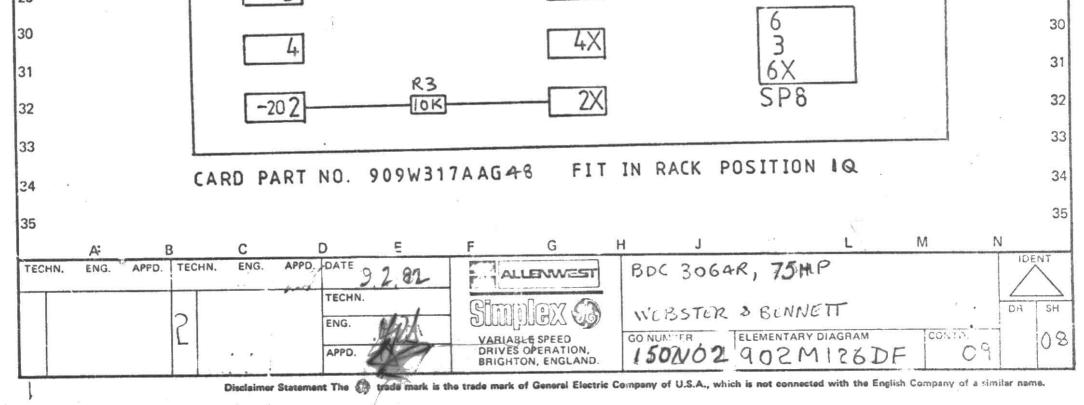


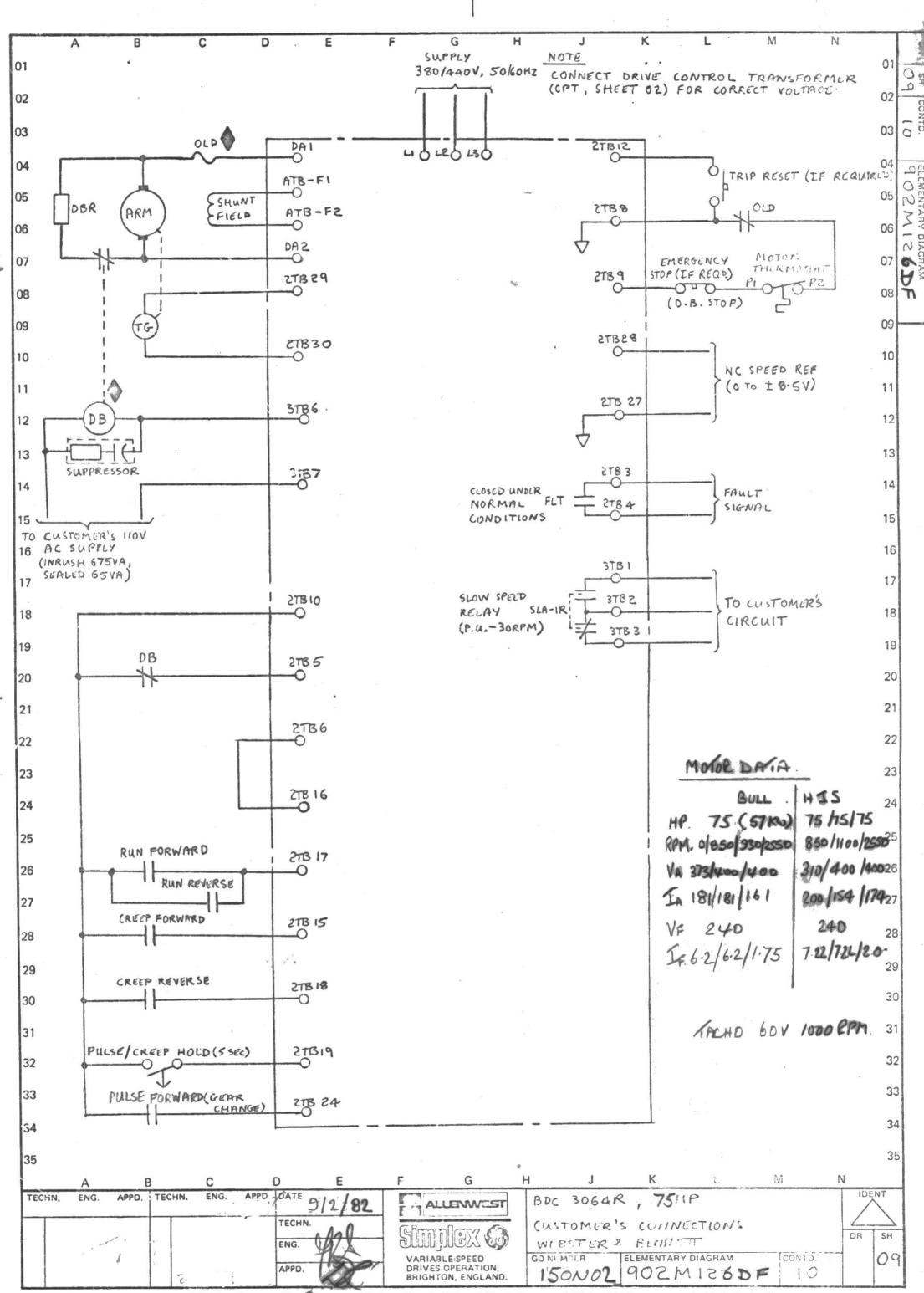
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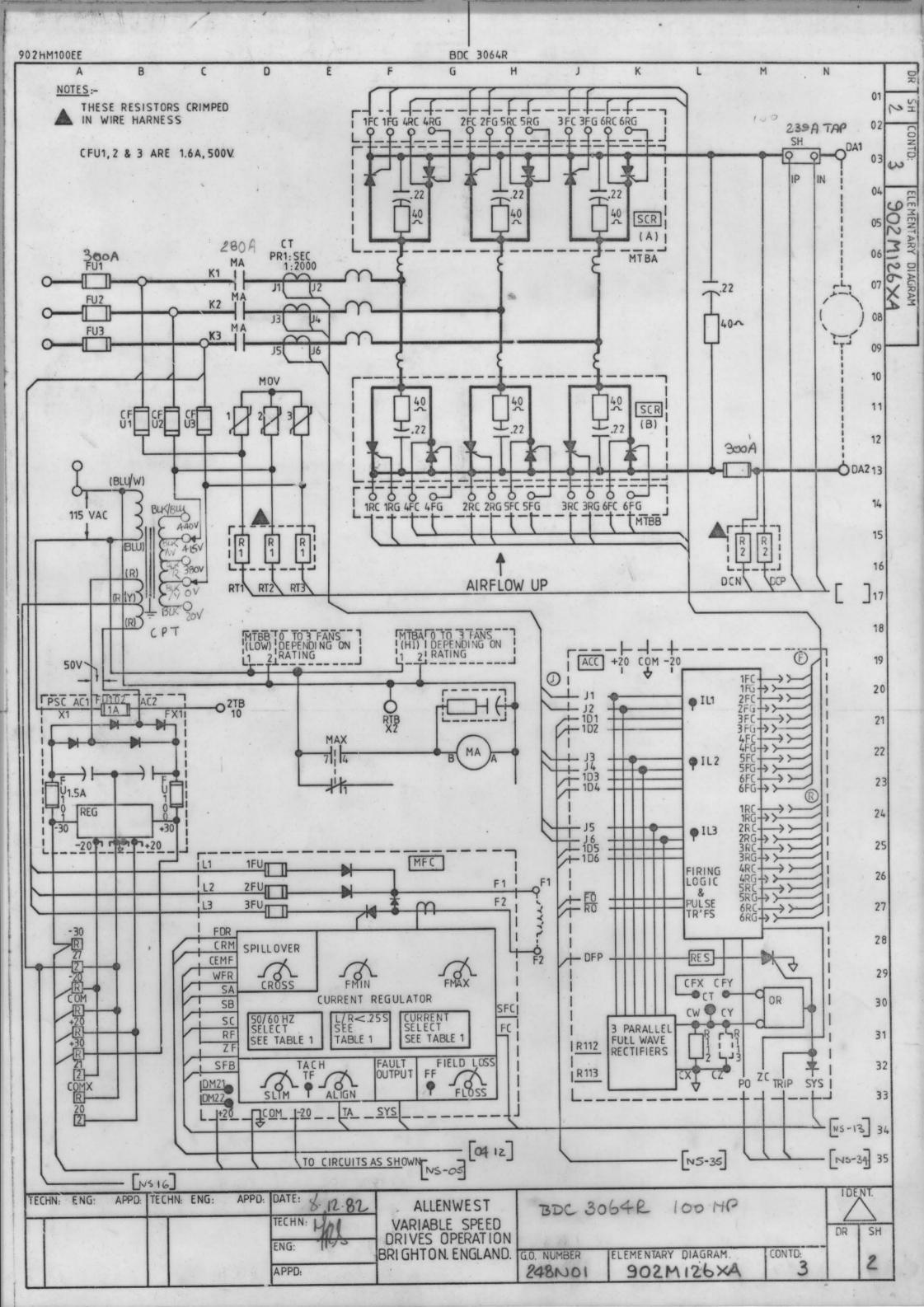


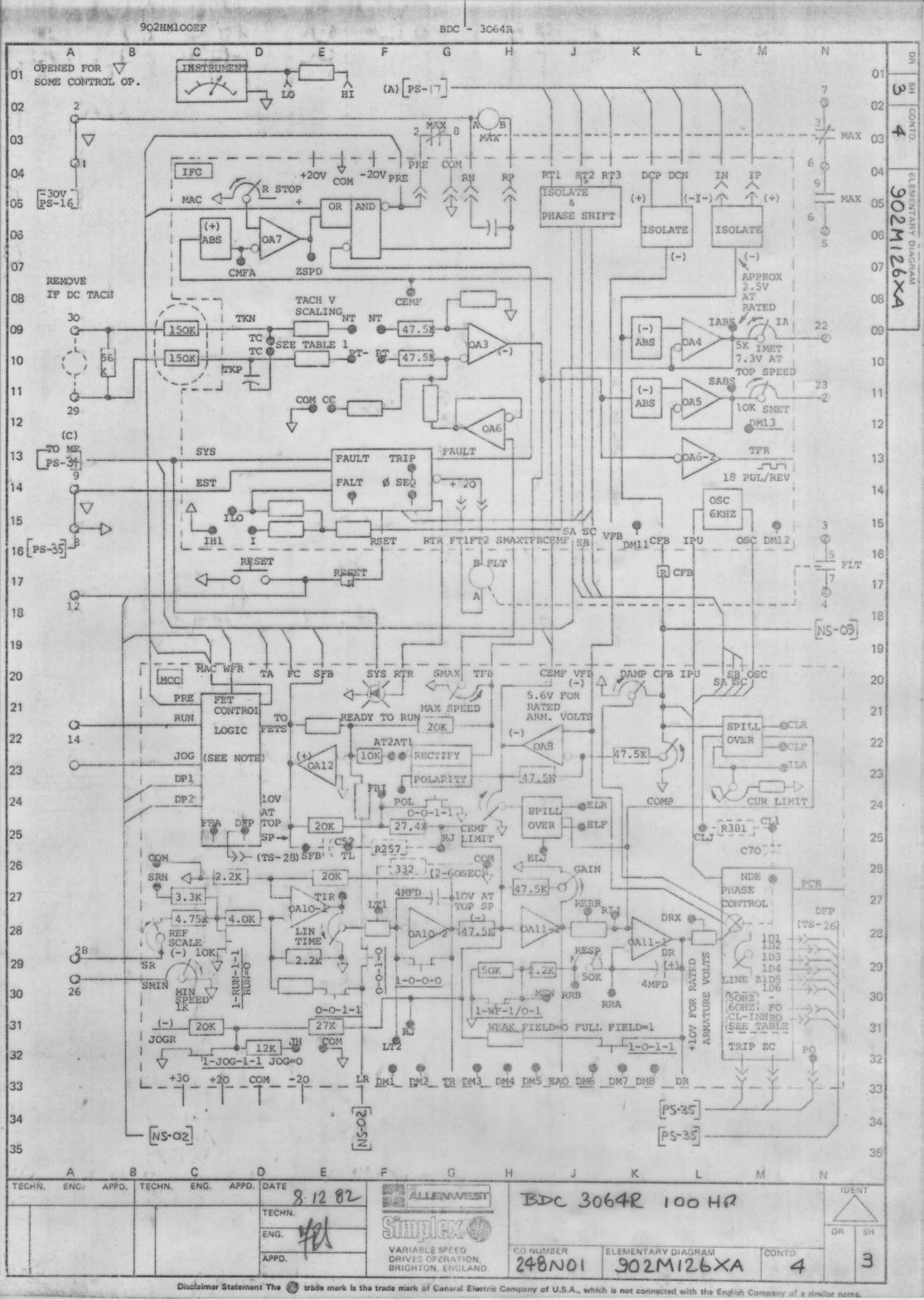


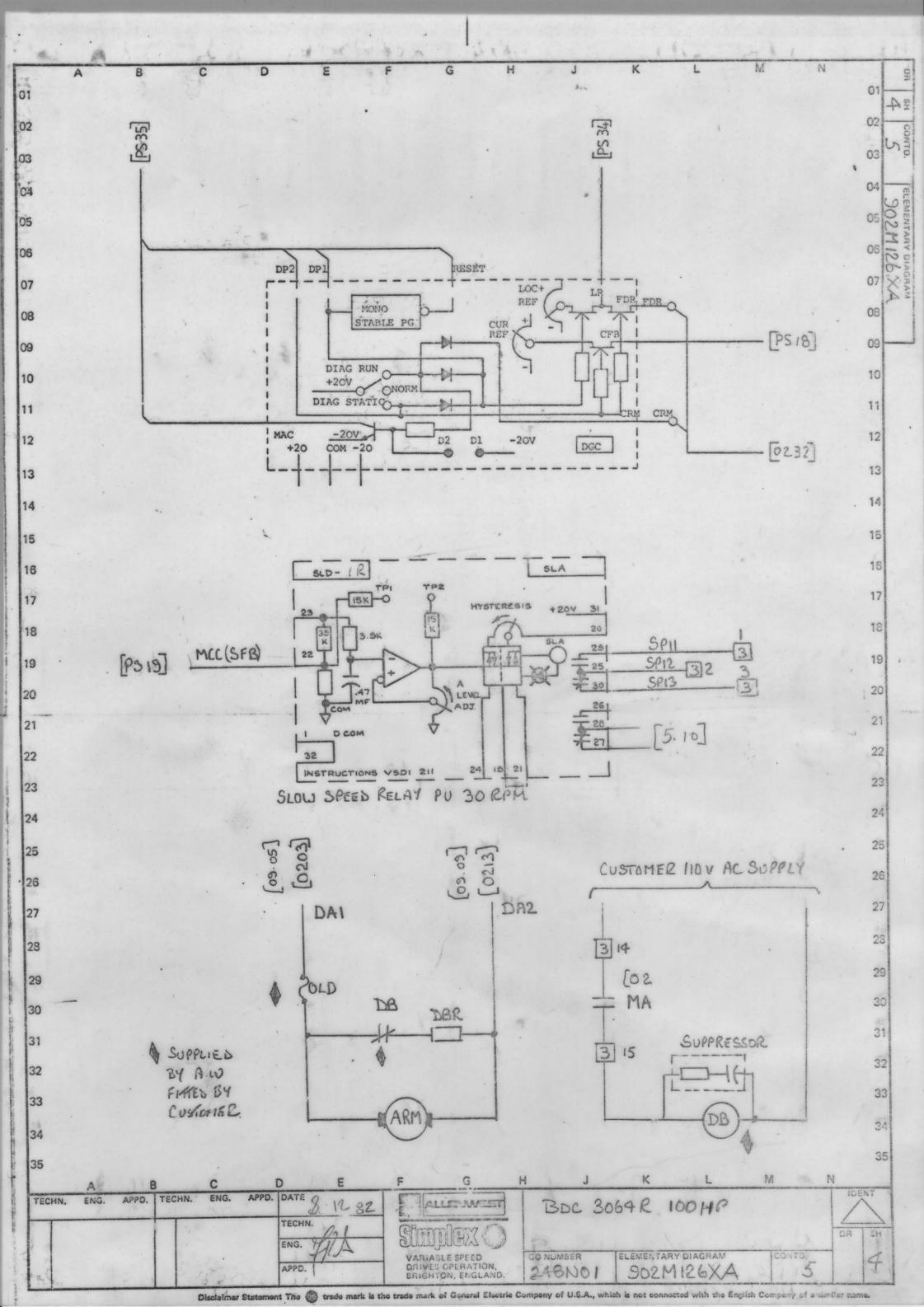
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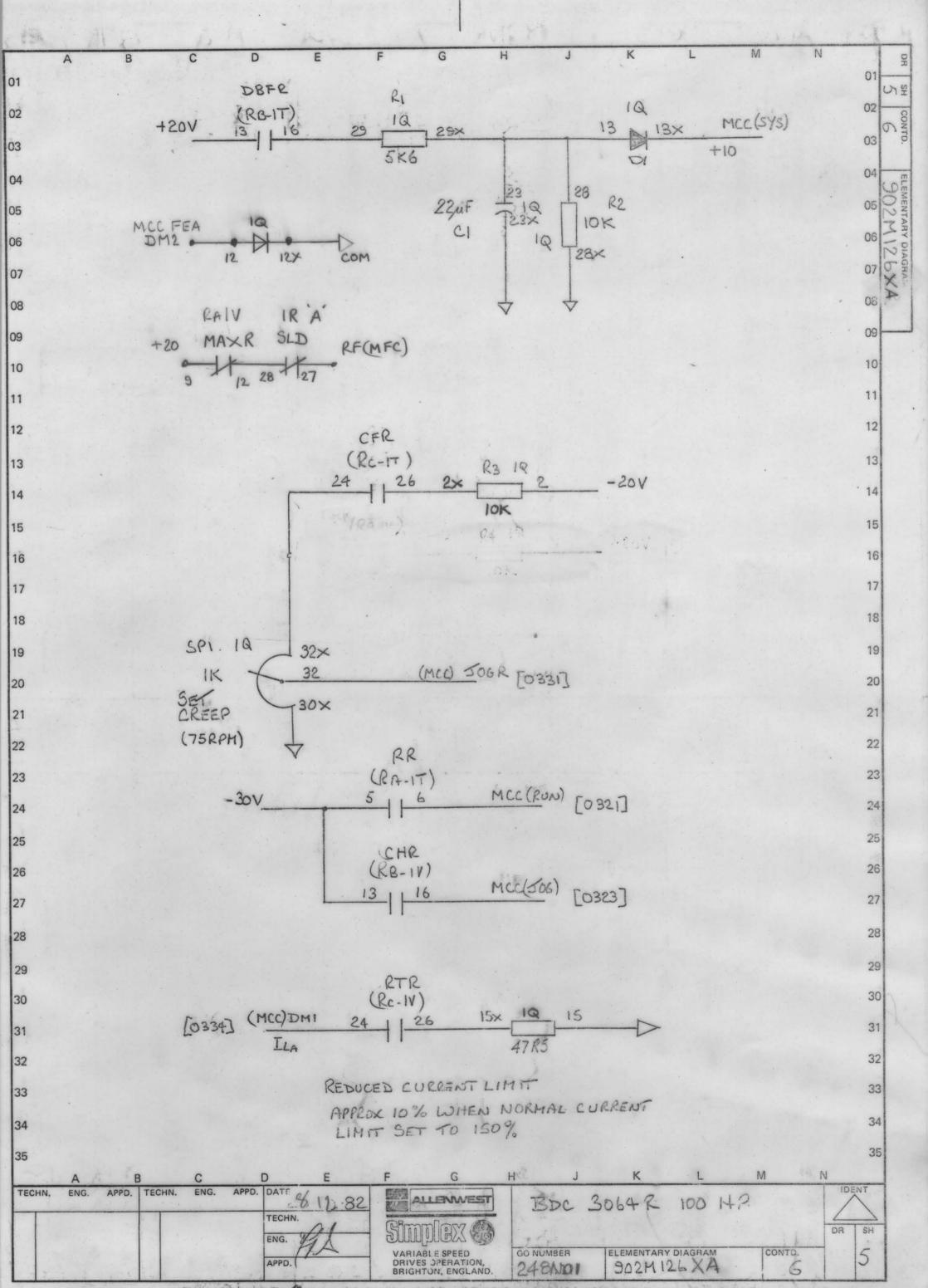
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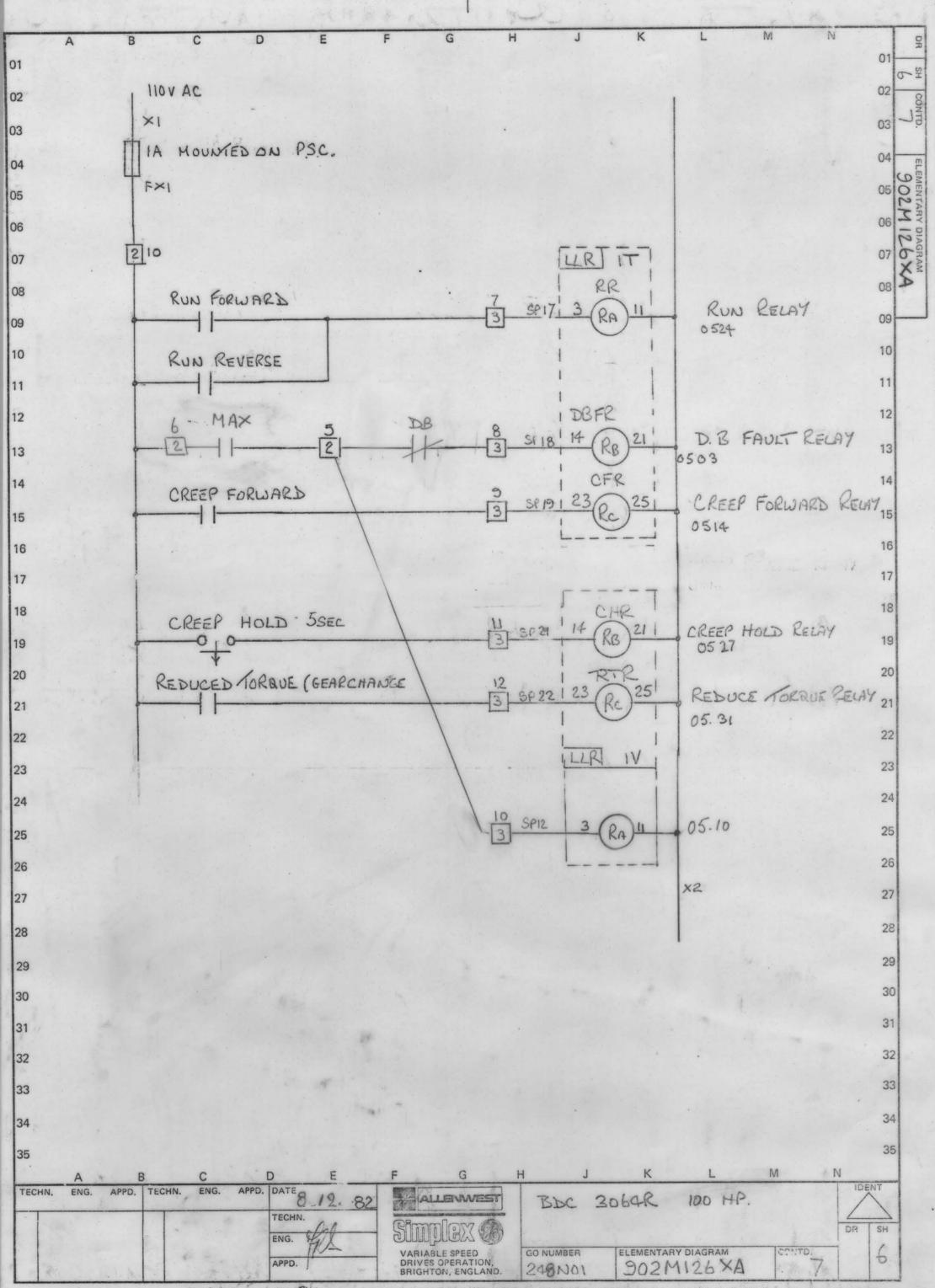






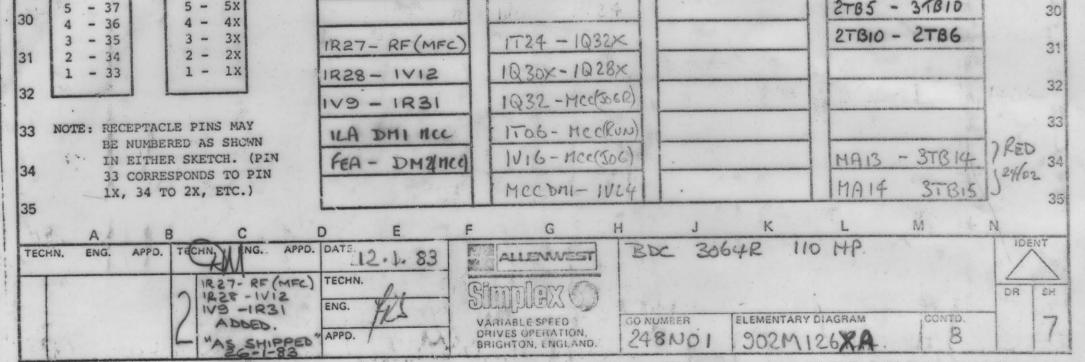


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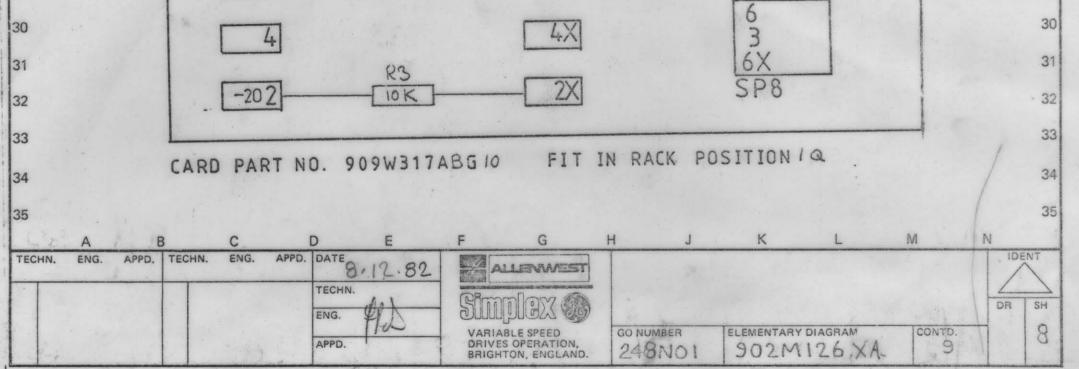
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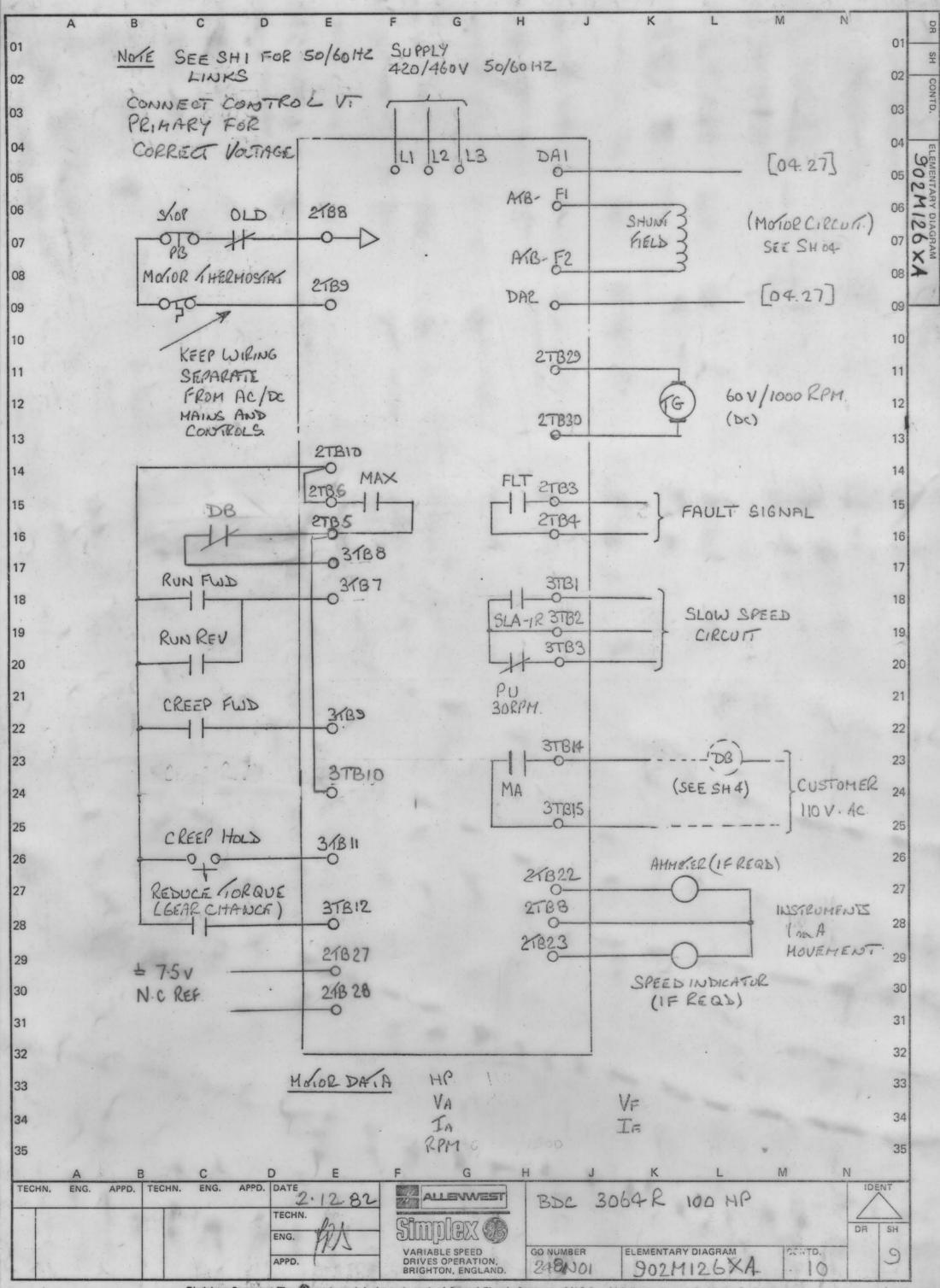


Discisimer Statement The of trade mark is the trade mark of General Electric Company of U.S.A., which is not connected with the English Company of a similar name.

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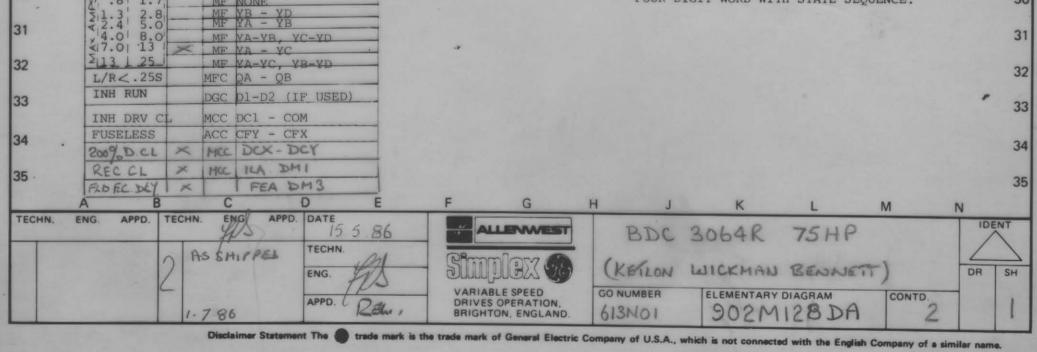


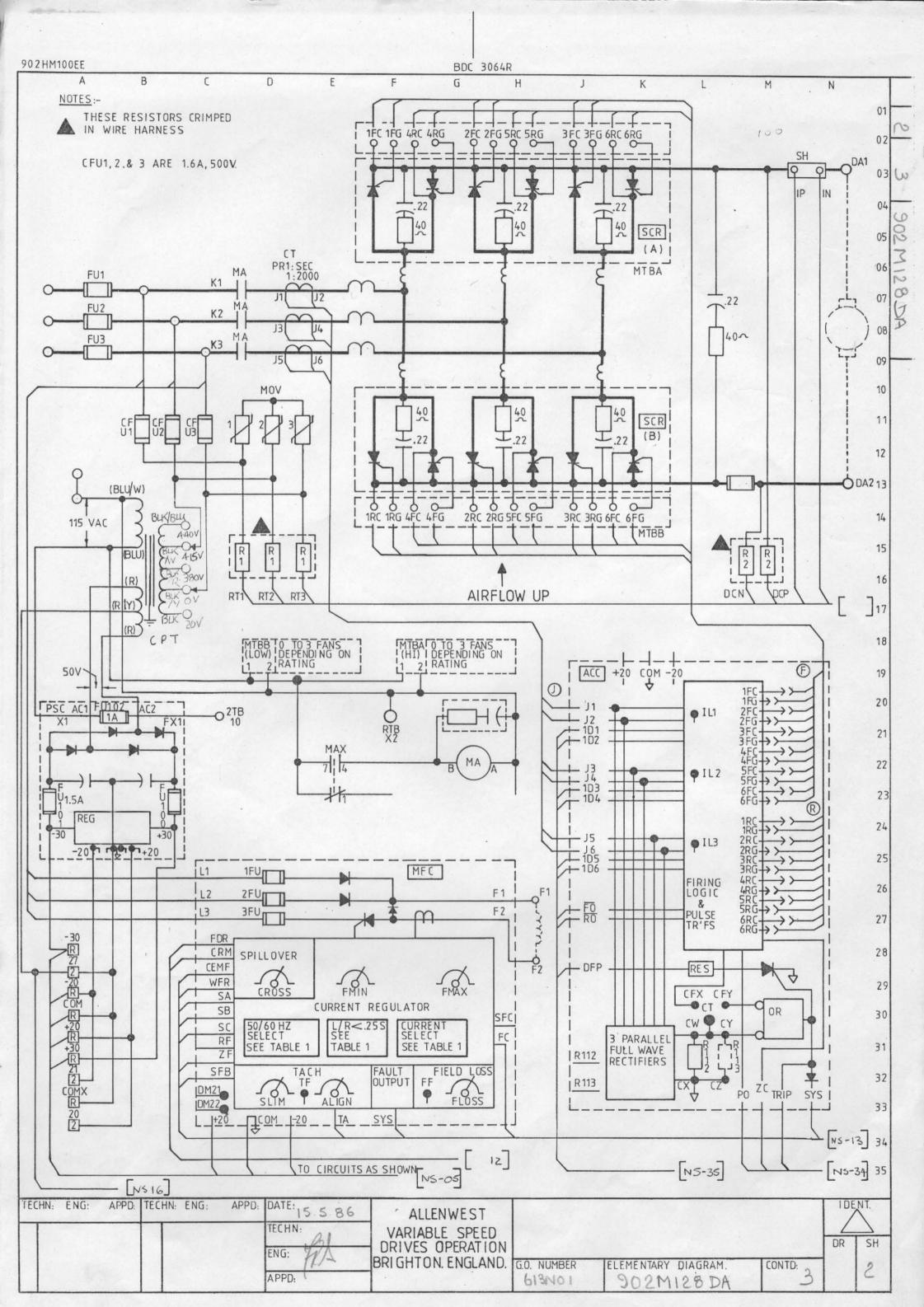
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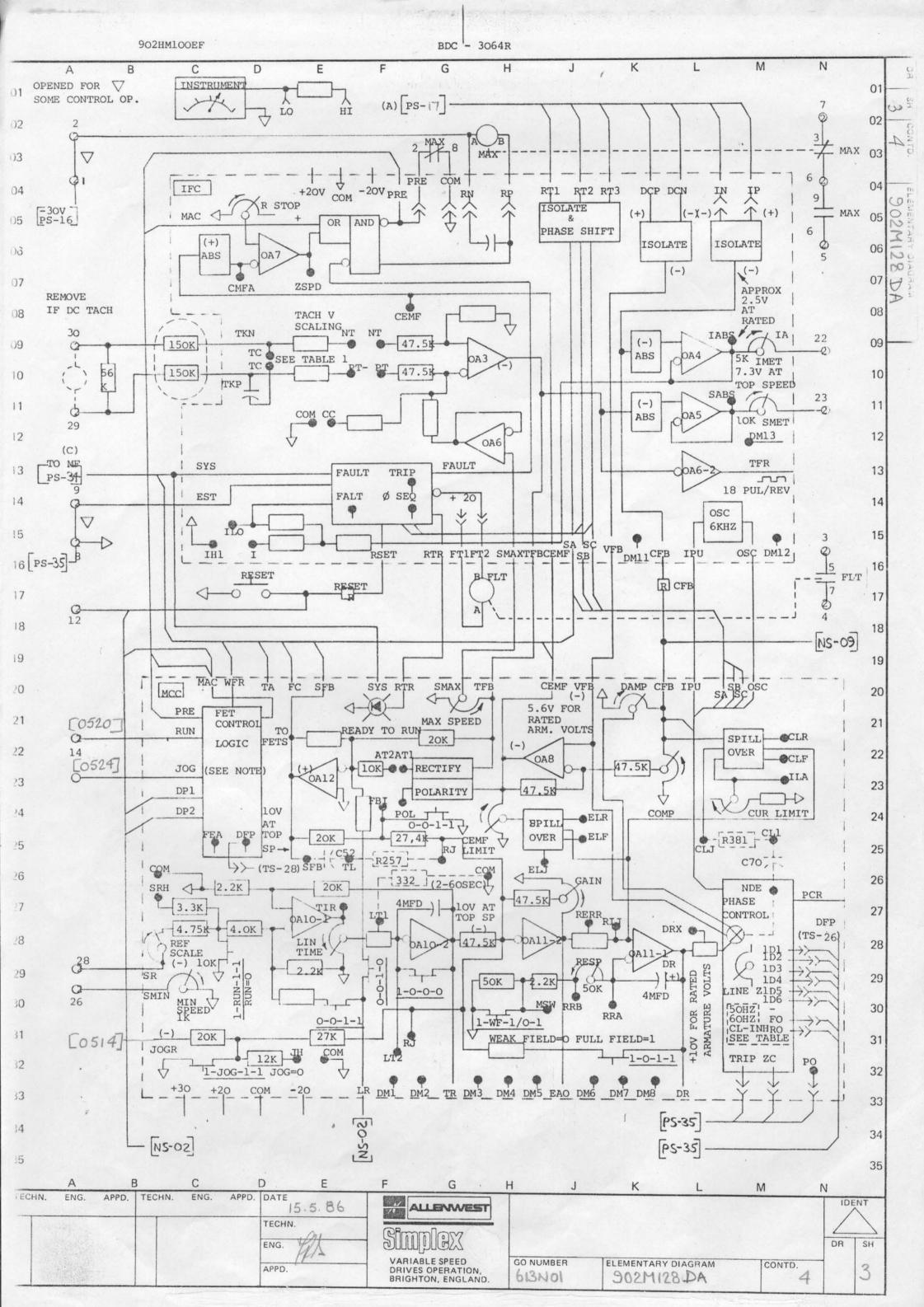
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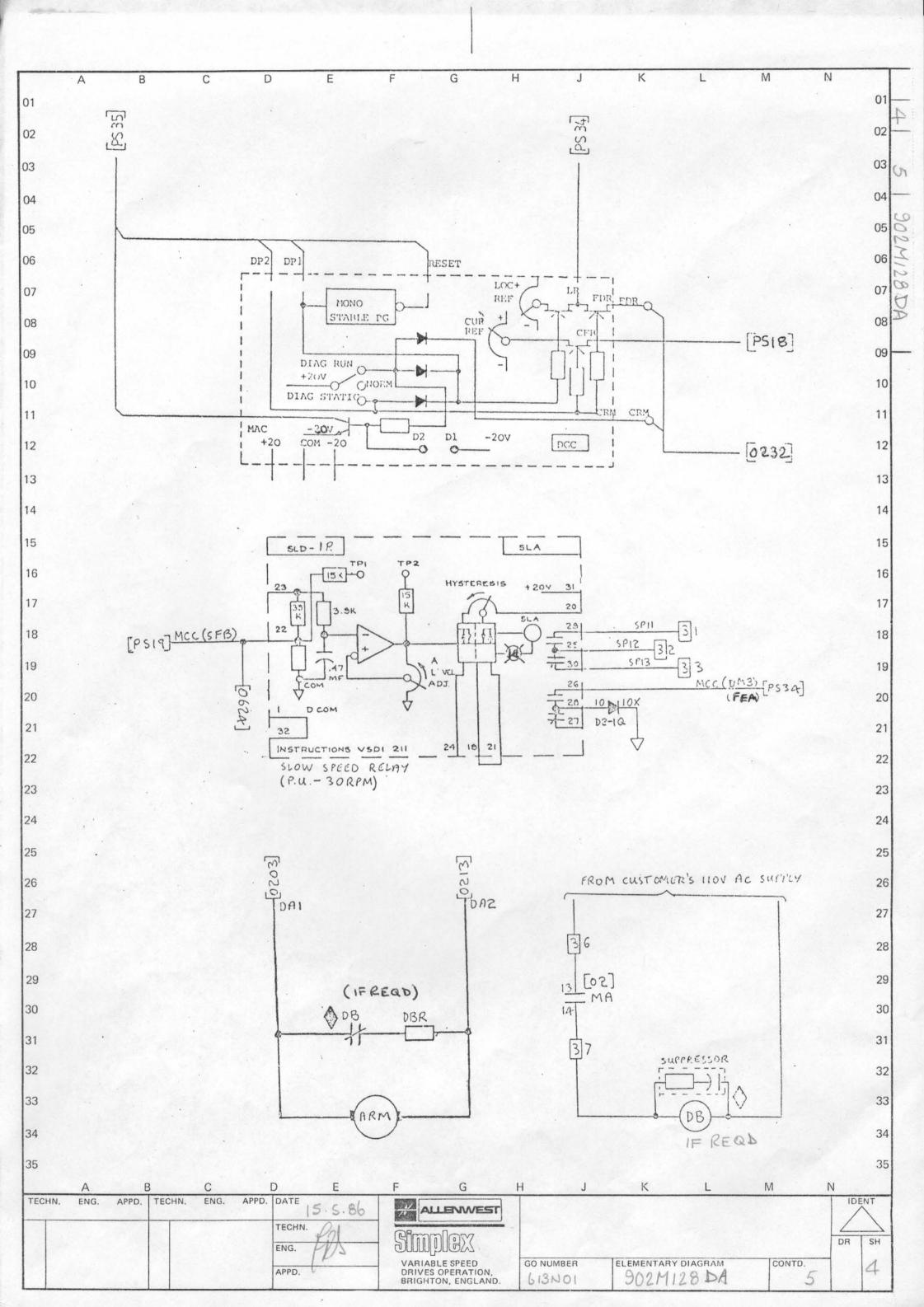
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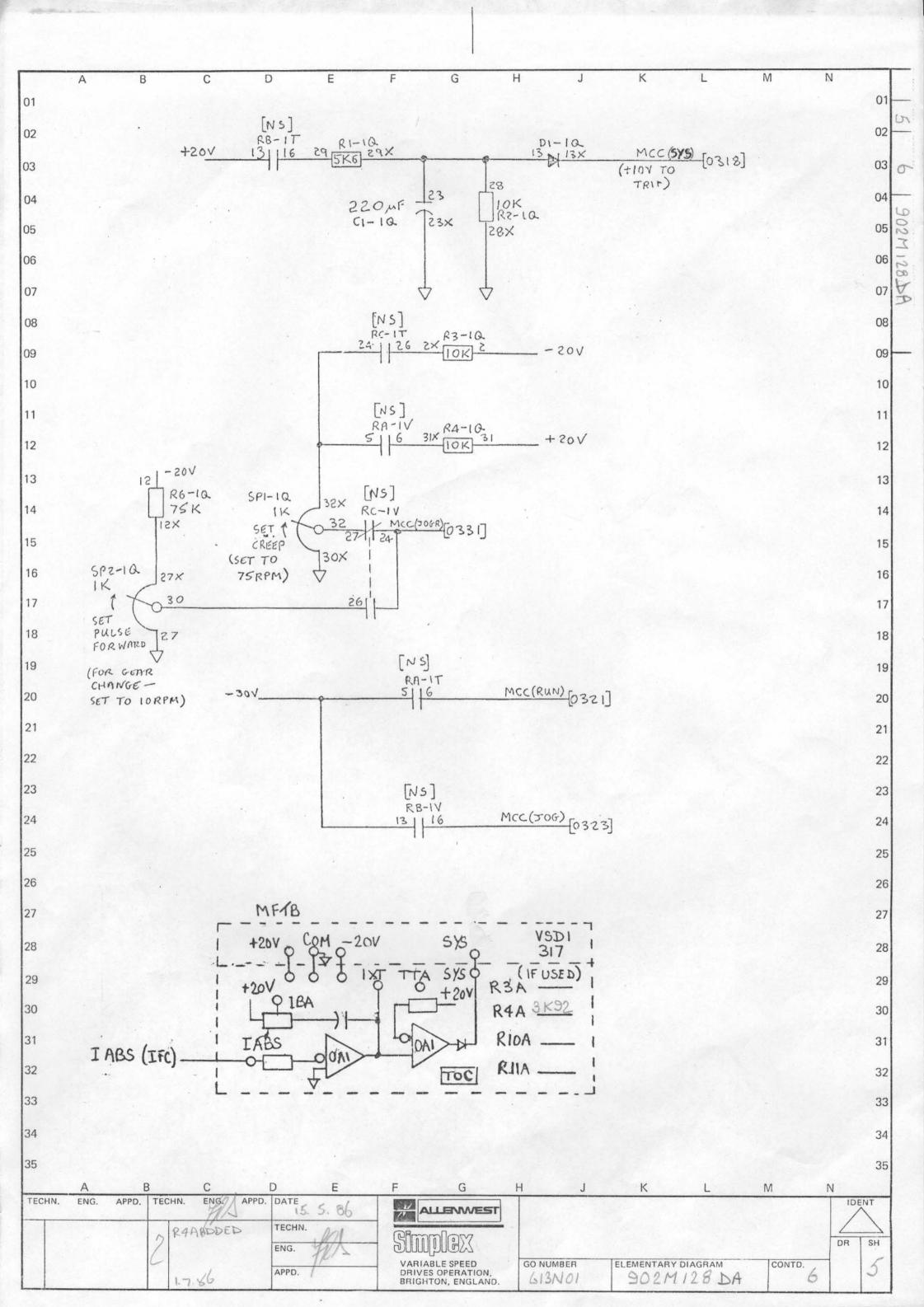
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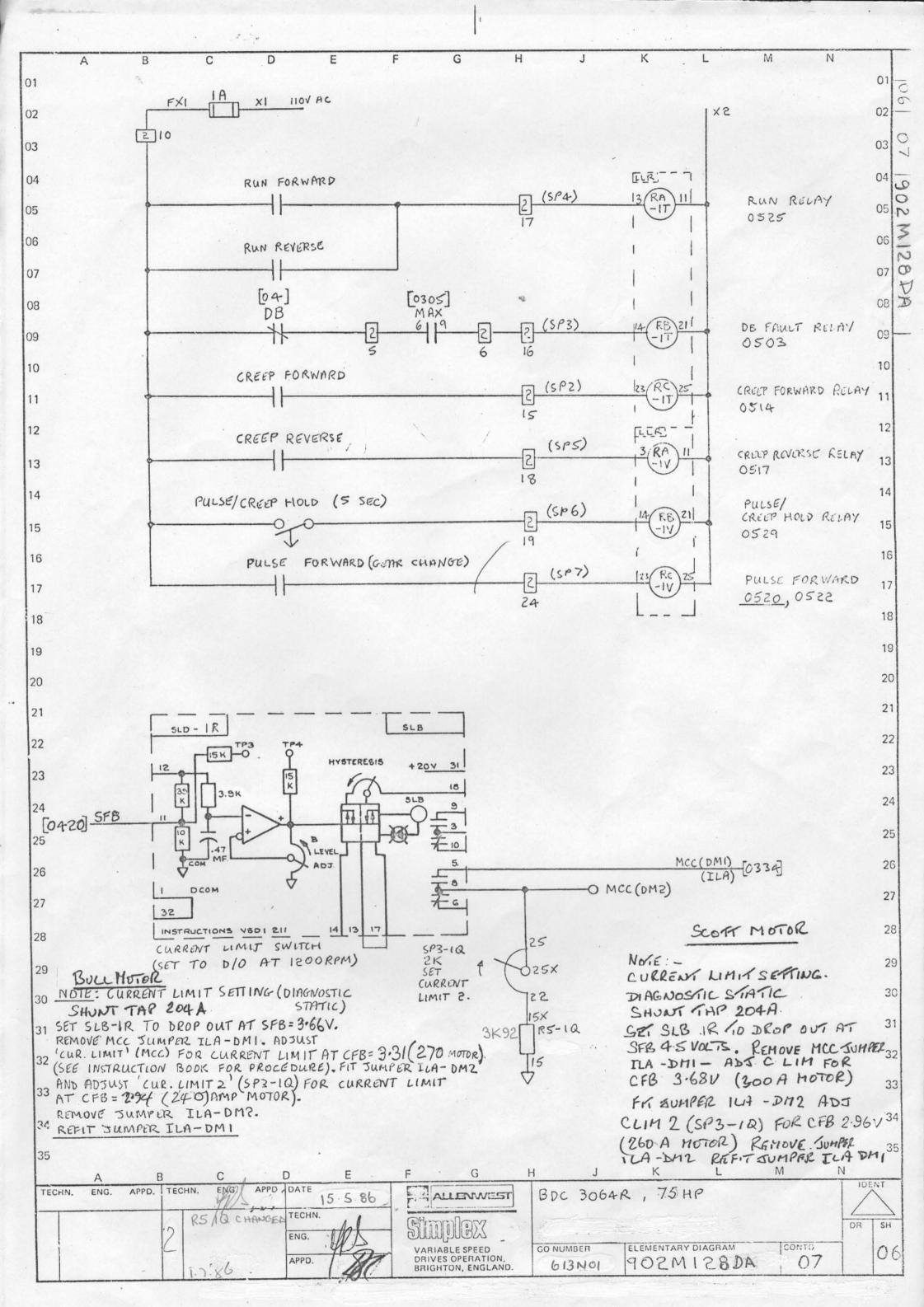




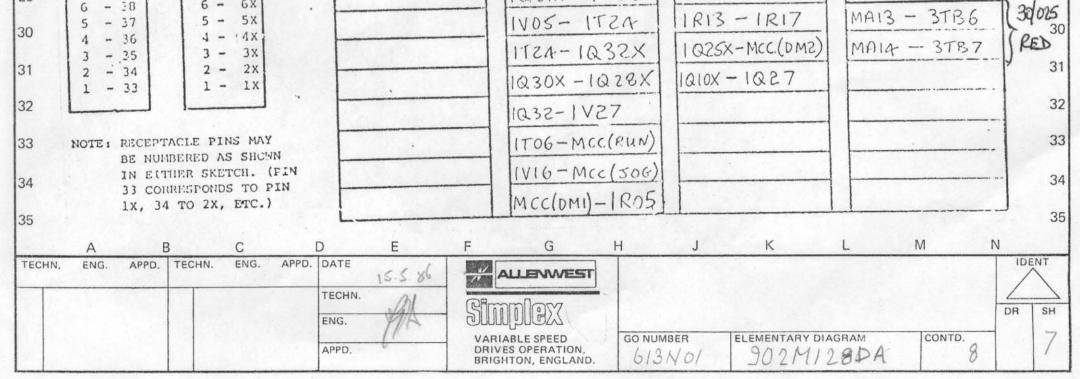




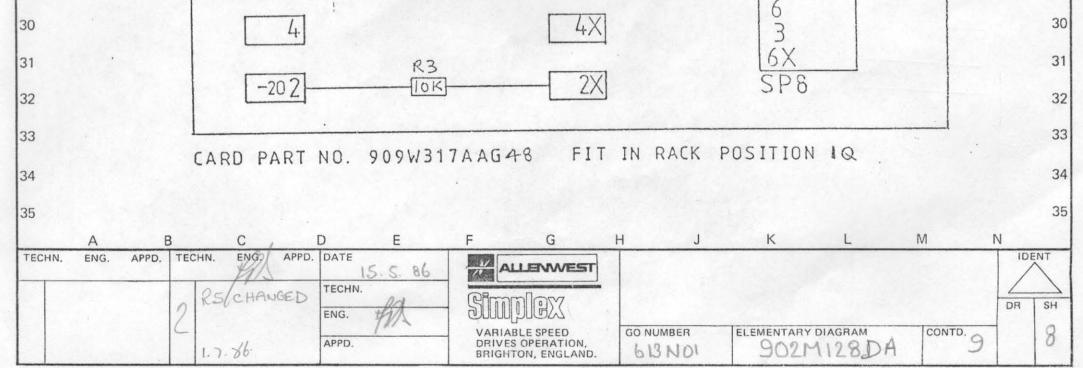


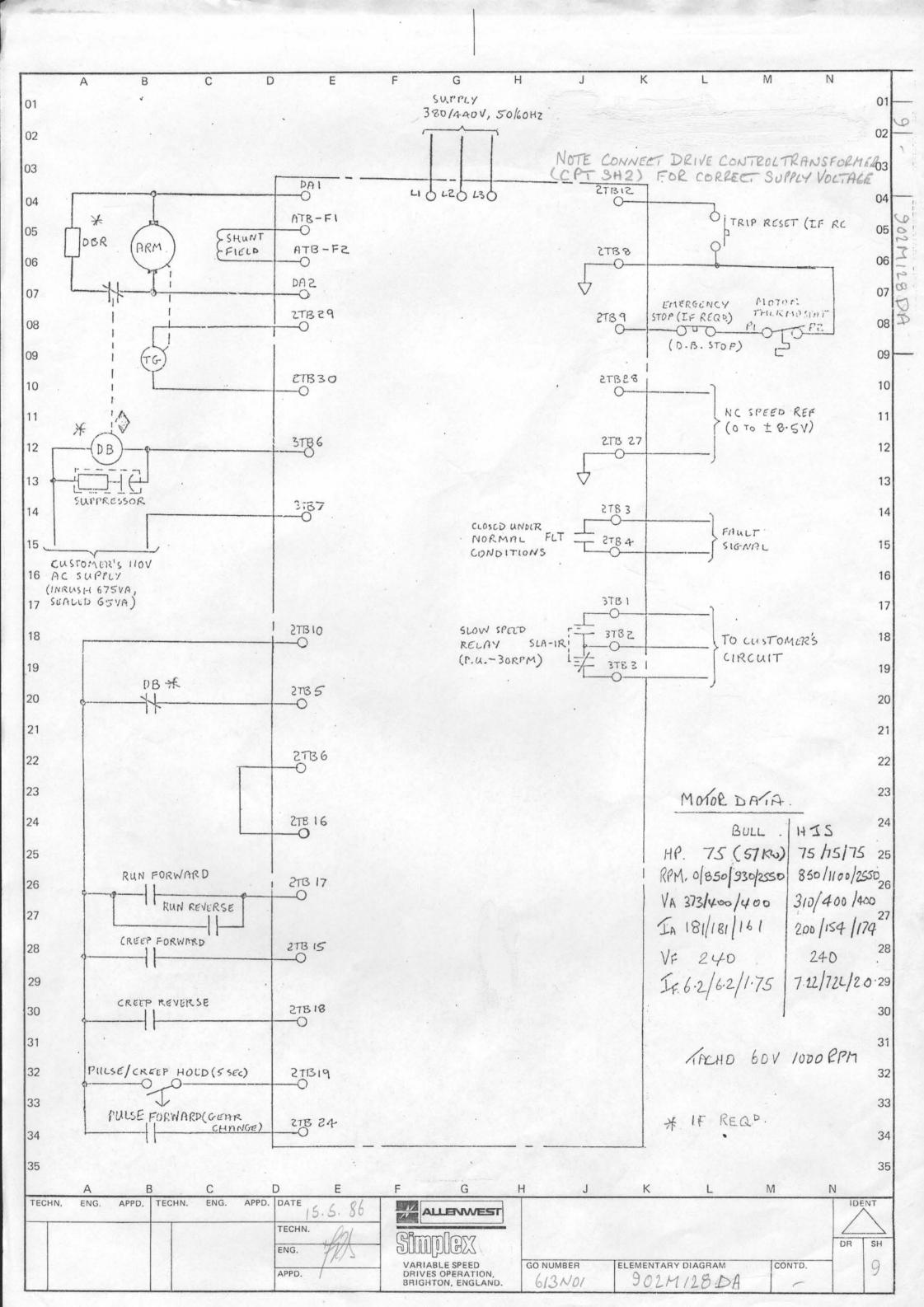


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ALL CA FRONT RECEPTI IN RAC POSITI 30 - 29 - 28 - 27 - 26 -	VIEW OF VIEW OF VIEW OF VACLE AS CK CLOSE CON. - 64 - 63 - 62 - 61 - 60 - 59 - 58	F 64 I S SEEN ED 33 34 22 2 2 2 2 2	2 - 32 1 - 31 0 - 30 9 - 29 8 - 28 7 - 27 6 - 26	UNTIL X X X X X X X X X X X X X	THESI	RTB(	<u>SYN</u> <u>SYN</u> <u>SYN</u> <u>SYN</u> <u>SYN</u> <u>SYN</u> <u>SYN</u> <u>SYN</u> <u>SYN</u> <u>SYN</u> <u>SYN</u> <u>SYN</u>	BOLS : TEST	POST	CARD R	IN OF MOVE C C MCK WIN 3) - IR IR2	PERATI DR INS	ON. C. ERT C	JUSTHER	IRII V21	EXEF ER AI	INDIC	ATING	LICUT 23	
ALL CA           FRONT           RECEPT           IN RAC           POSITI           32           31           30           29           28           27           26           25	VIEW OF ACLE AS CK CLOSI CON. - 64 - 63 - 62 - 61 - 60 - 59 - 58 - 57	F 64 I S SEEN ED 33 34 22 2 2 2 2 2 2 2 2	2 - 32 1 - 31 0 - 30 9 - 29 8 - 28 7 - 27 6 - 26 5 - 25	UNTIL X X X X X X X X X X X X X	THESI	RTB( RTB(	<u>SYN</u> <u>SYN</u> <u>SYN</u> <u>SYN</u> <u>SYN</u> <u>SYN</u> <u>SYN</u> <u>SYN</u> <u>SYN</u> <u>SYN</u> <u>SYN</u>	E COOLED (BOLS 1 TEST - 1Q 0 2 R02	POST	CAPD R CAPD R ACC (SFI R 19-	() MOVE C () () () () () () () () () ()	PRATI R INS	ON. C. ERT C.	JUSTHER	IRII V21	EXEF ER AI	INDIC	- 1T; - 1T;	LICUT 23 TL4	
ALL CA FRONT RECEPTI IN RAC POSITI 30 - 29 - 28 - 27 - 26 - 25 - 24 - 23 -	VIEW OF TACLE AS TACLE AS TACL	F 64 I 5 SEET ED 33 34 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 - 32 $1 - 31$ $2 - 30$ $9 - 29$ $8 - 28$ $7 - 27$ $6 - 26$ $5 - 25$ $4 - 24$ $3 - 23$	UNTIL 1 X X X X X X X X X X X X X	THESI	RTB( RTB( IQI	$\frac{SYN}{O}$	ECOOLED TEST - 1QOZ ROZ IQIS RIS	POST	CAPD R CAPD R NCC (SFI R 19- NCC (UI R 28-	() MOVE C () () () () () () () () () ()	PERATI DR INS	ON. C. ERT C.	JUSTHER 22 - 1 21 - 1	IRII V21 V11 T11	EXEF ER AI	INDIC	- IT; - [] - []	LICUT 23 TL4 T03	
ALL CA           FRONT           RECEPTI           IN RAC           POSITI           32           31           30           29           28           27           26           25           24           23           22	VIEW OF ACLE AS CK CLOSE CON. - 64 - 63 - 62 - 61 - 60 - 59 - 58 - 57 - 56	F 64 I 5 SEEN ED 33 34 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\frac{2}{2} - 32$ $\frac{2}{3} - 31$ $\frac{2}{3} - 29$ $\frac{3}{3} - 29$ $\frac{3}$	UNTIL 1 X X X X X X X X X X X X X	THESI	RTB( RTB( 101 RTB( 101 RTB(	$\frac{SYN}{O}$	E COOLED (BOLS 1 TEST -1Q02 R02 1Q15 R15 -1Q31	POST	CARD R CARD R NCC (SF1 R 19- NCC (UT R 28- R 31	() MOVE C MOVE C () () () () () () () () () ()	PERATI DR INS D F PE JIT 22 1 R26 10 13	ON. C. ERT C.	JUSTHER 22 - 1 21 - 1	IRII V21 V21 V11 T11 T21	EXEF ER AI	INDIC	- IT; - (1 - (1 - (1	23 T14 T03 V03	
ALL CA	VIEW OF ACLE AS CK CLOSE CON. - 64 - 63 - 62 - 61 - 60 - 59 - 58 - 57 - 56 - 55 - 54 - 53 - 52	F 64 I S SEEN ED 3: 3: 3: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2:	$\frac{2}{2} - 32$ $\frac{2}{1} - 31$ $\frac{2}{2} - 30$ $\frac{2}{9} - 29$ $\frac{3}{7} - 27$ $\frac{2}{6} - 26$ $\frac{5}{5} - 25$ $\frac{4}{3} - 23$ $\frac{2}{2} - 22$ $\frac{1}{2} - 21$ $\frac{2}{2} - 20$	UNTIL X X X X X X X X X X X X X	THESI	RTB( 100 RTB( 101 RTB( 103	$\frac{SYN}{O}$ $\frac{SYN}{O}$ $\frac{SYN}{O}$ $\frac{SYN}{O}$ $\frac{SYN}{O}$ $\frac{SYN}{O}$	E COOLEE (BOLS 1 TEST -1Q02 R02 1Q15 R15 -1Q31 231	POST	CARD R CARD R NCC (SFT R 19- NCC (UT R 28- R 31 T 16	IN OF MOVE C MOVE C () () () () () () () () () () () () ()	PERATI DR INS PE JIT 22 1 R26 10 13 29	ON. C. ERT C	ARE SUC ARDS WI JUSTHER 22 - 1 22 - 1 22 - 1 21 - 1 11 - 1 21 - 1	IRII V21 V21 V11 T11 T25		INDICA SP2- SP3 SP4 SP5 SP6	- IT ; - IT ; - [7 - [7 - ]	23 <u> <u> </u> </u>	
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	
ALL CA	VIEW OF VIEW OF VIEW OF CACLE AS CACLOSE CON. - 64 - 63 - 62 - 61 - 60 - 59 - 58 - 57 - 56 - 55 - 54 - 53 - 52 - 51 - 50 - 49 - 48 - 47	TER         RE           5         5           5         5           64         1           5         5           5         5           60         3           30         3           31         3           32         2           3         3           3         3           3         3	2 - 32 $2 - 32$ $1 - 31$ $0 - 30$ $9 - 29$ $8 - 28$ $7 - 27$ $6 - 26$ $5 - 25$ $4 - 24$ $3 - 23$ $2 - 22$ $1 - 21$ $20 - 20$ $9 - 19$ $16 - 10$ $15 - 19$	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	POST	NOT RI CARD R NCC (SFT R19- NCC (UT R28- NCC	$\frac{1100}{1000} = 10000000000000000000000000000000$	PERATI DR INS PE JIT 22 1 R26 1 R26 1 R26 1 R26 1 2 7 7 7 7 7 7 7 7 7 7 7 7 7		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 -	NT IRII V21 V21 V21 V21 V21 V21 IV11 T11 T25 IQ12 IQ12 IQ27 IV2		INDIC SP2- SP3 SP4 SP5 SP6 SP7 2TE ( SP11-	$- 1T_{2}$	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         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

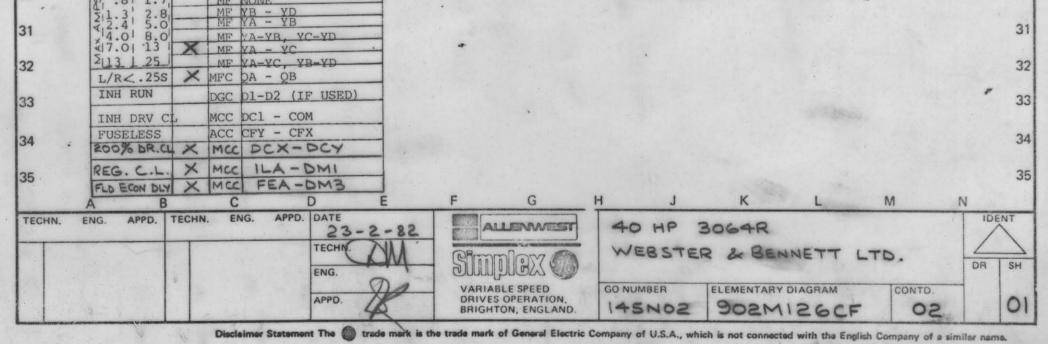


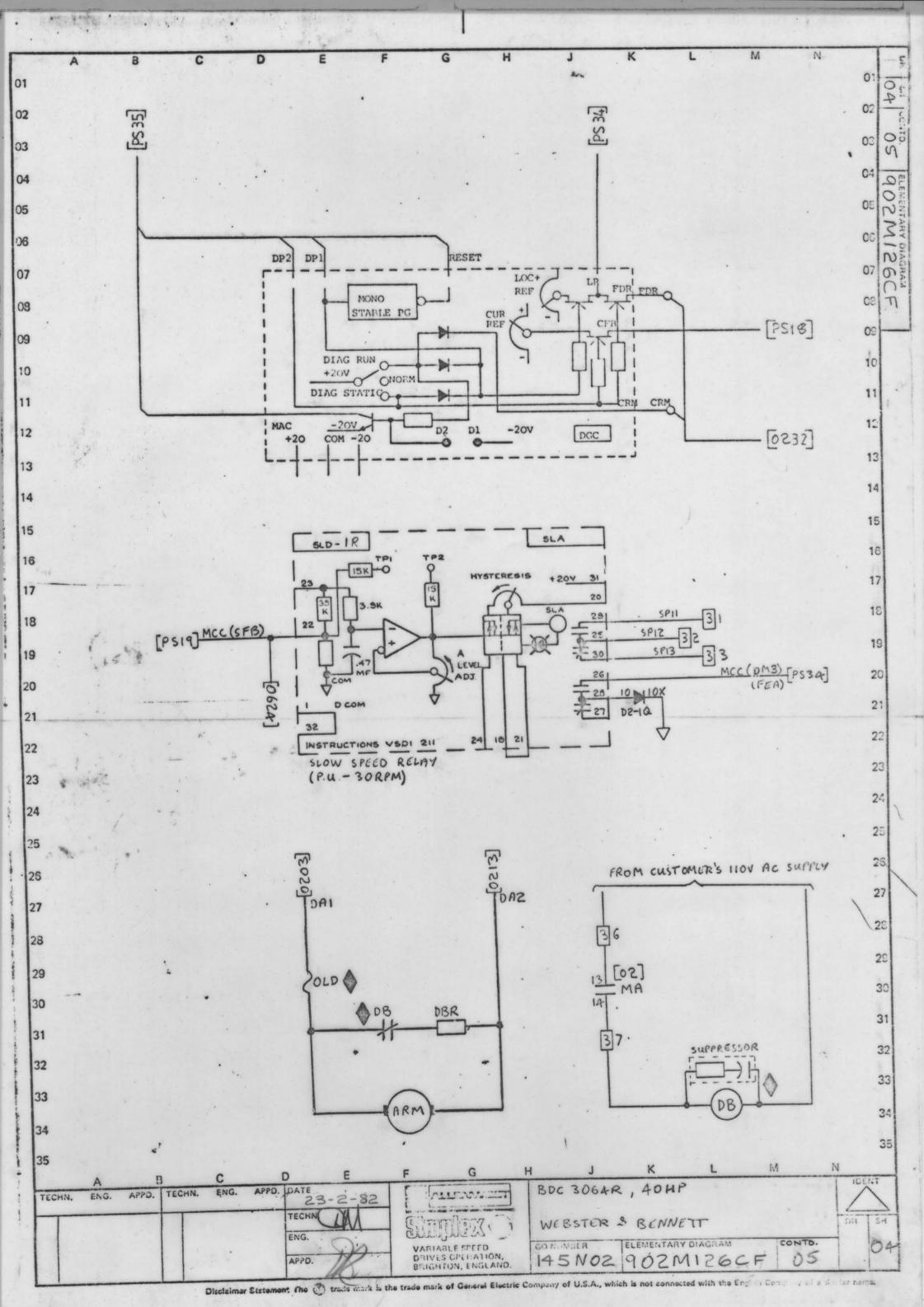


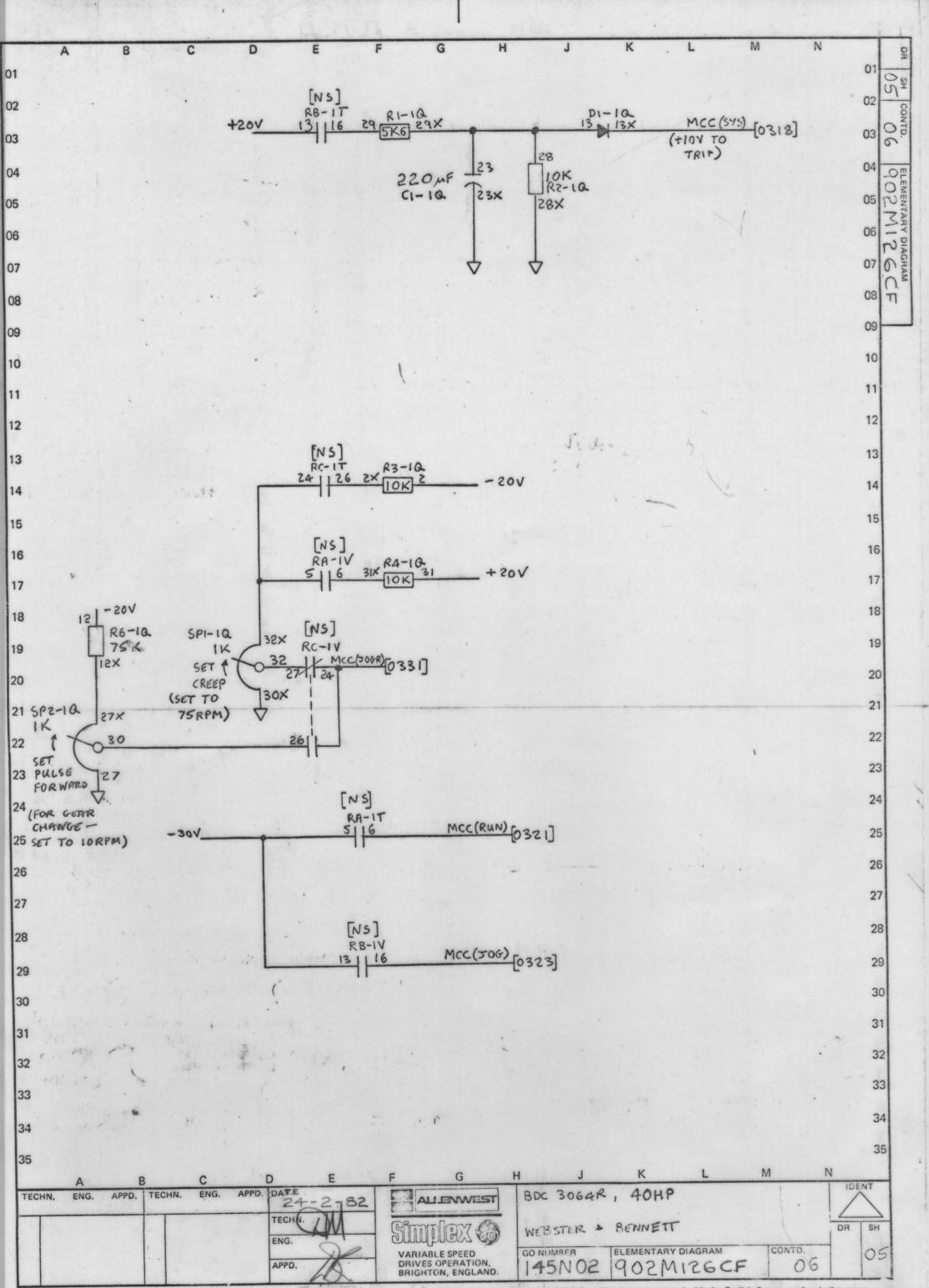
1. 1.			- 1.5%			4	DC -	3064R			
	A	В	C	D	E	F	G	н	1	J K L M N	-
1											01
	VOLUME						19.00				
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3	HARDWARE	ABBREV	IATIC	NS							03
,	MCC	MATN	CONTR	OL CARD					-		03
1	IFC	INTER		the state of the s		1. 1. 2. 1		* CEN * CFE		COUNTER EMF ( 16) CURRENT FEEDBACK ( 16)	04
	PSC	POWER	SUPP	LY CARD	7			CMF		ABSOLUTE VALUE CEMF ( 08)	
	SCR	THYRI	STOR	ASSEMBLY			4. in 2	CRM	1	CROSSOVER MODIFY ( 11)	.05
	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 *	
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	G134 G2		-	NT-NT3 PT - P' MFC OR MFE	12					IAGNOSTIC RUN" IS SHOWN BY A	
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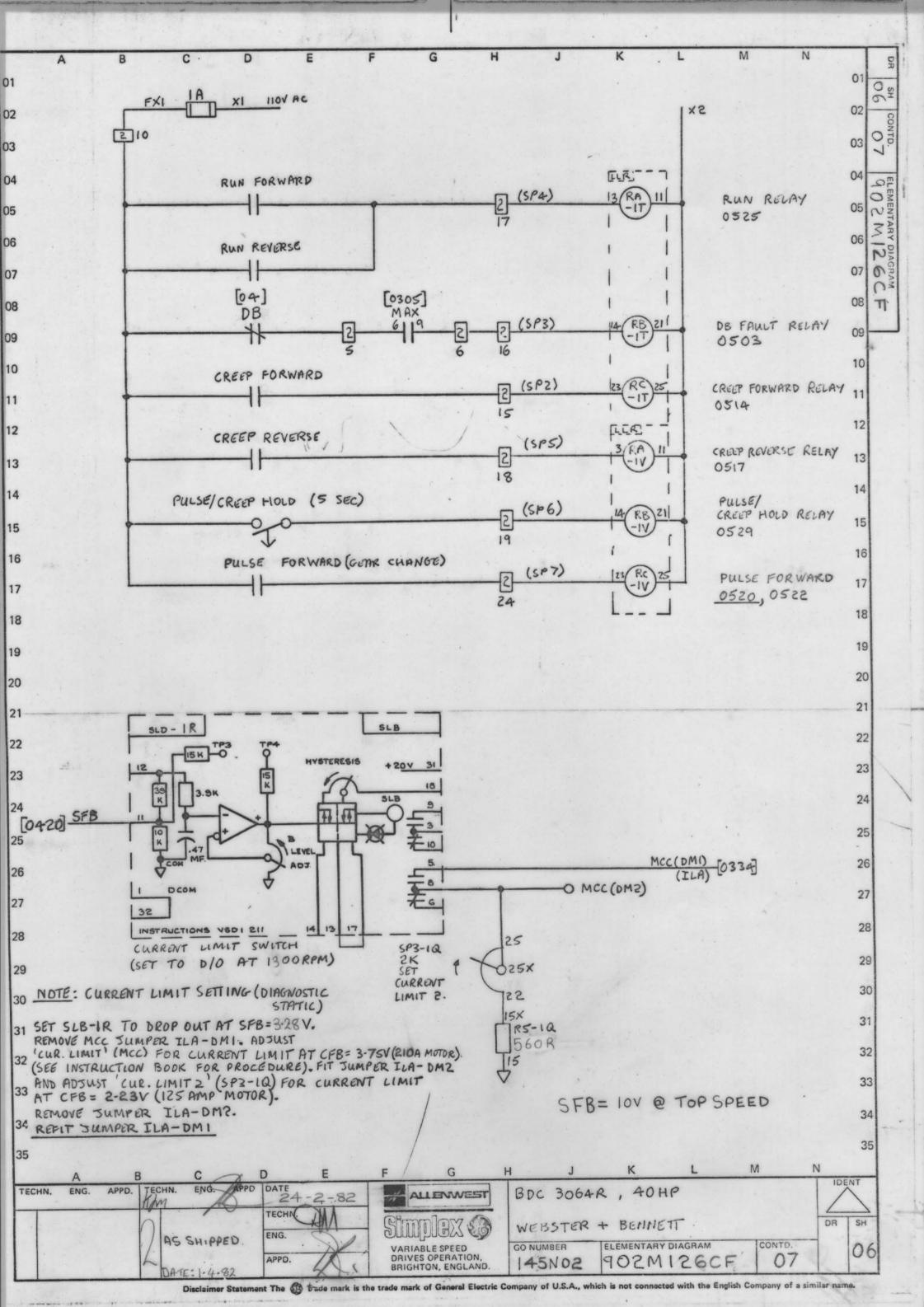
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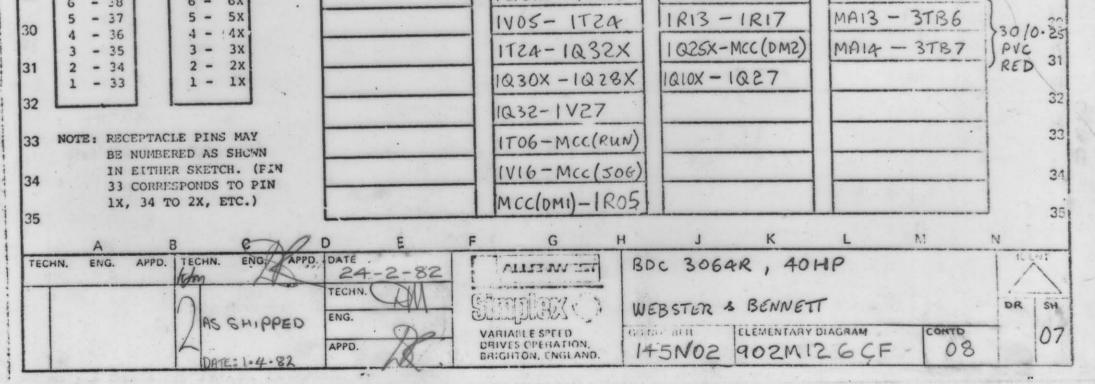


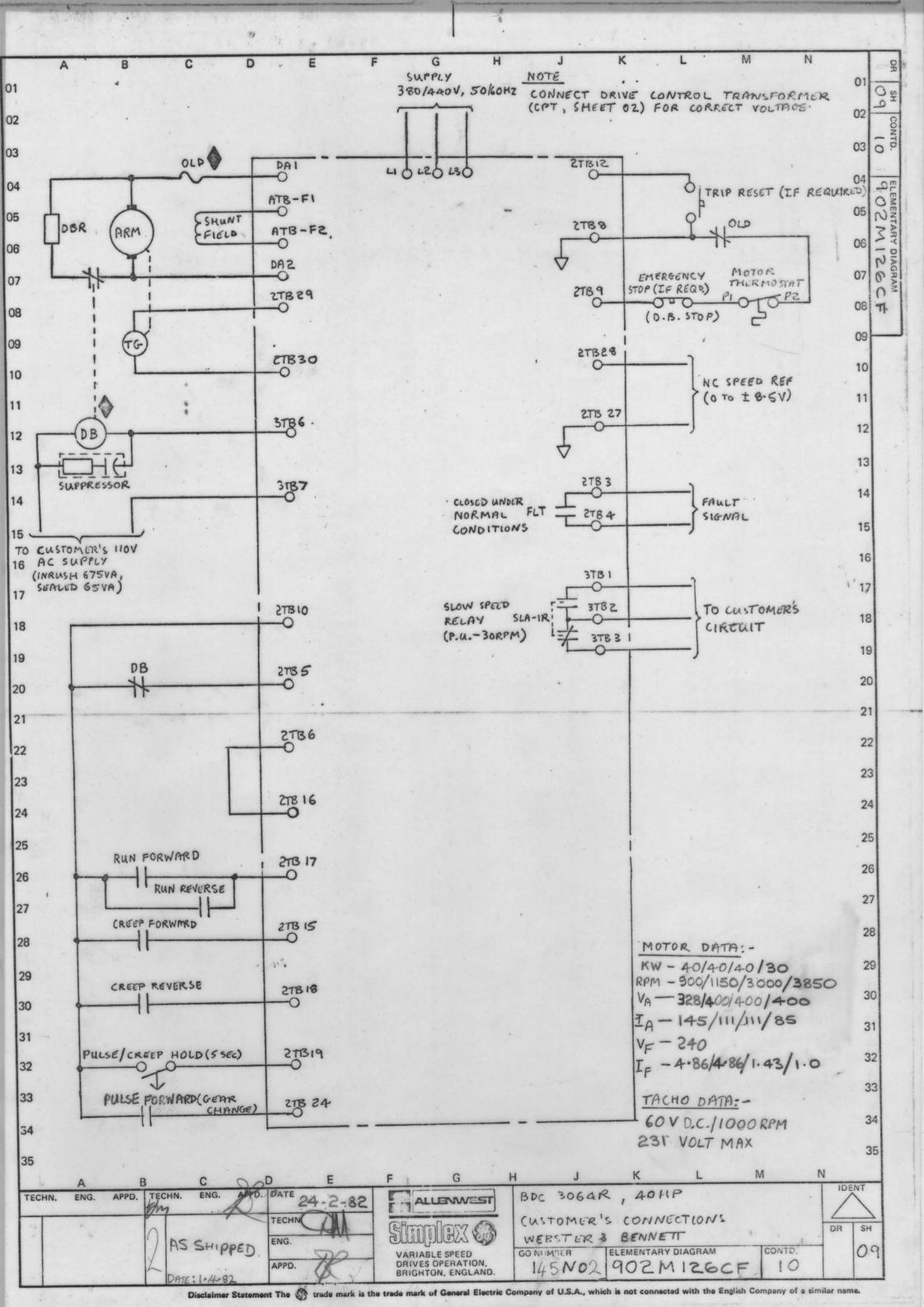


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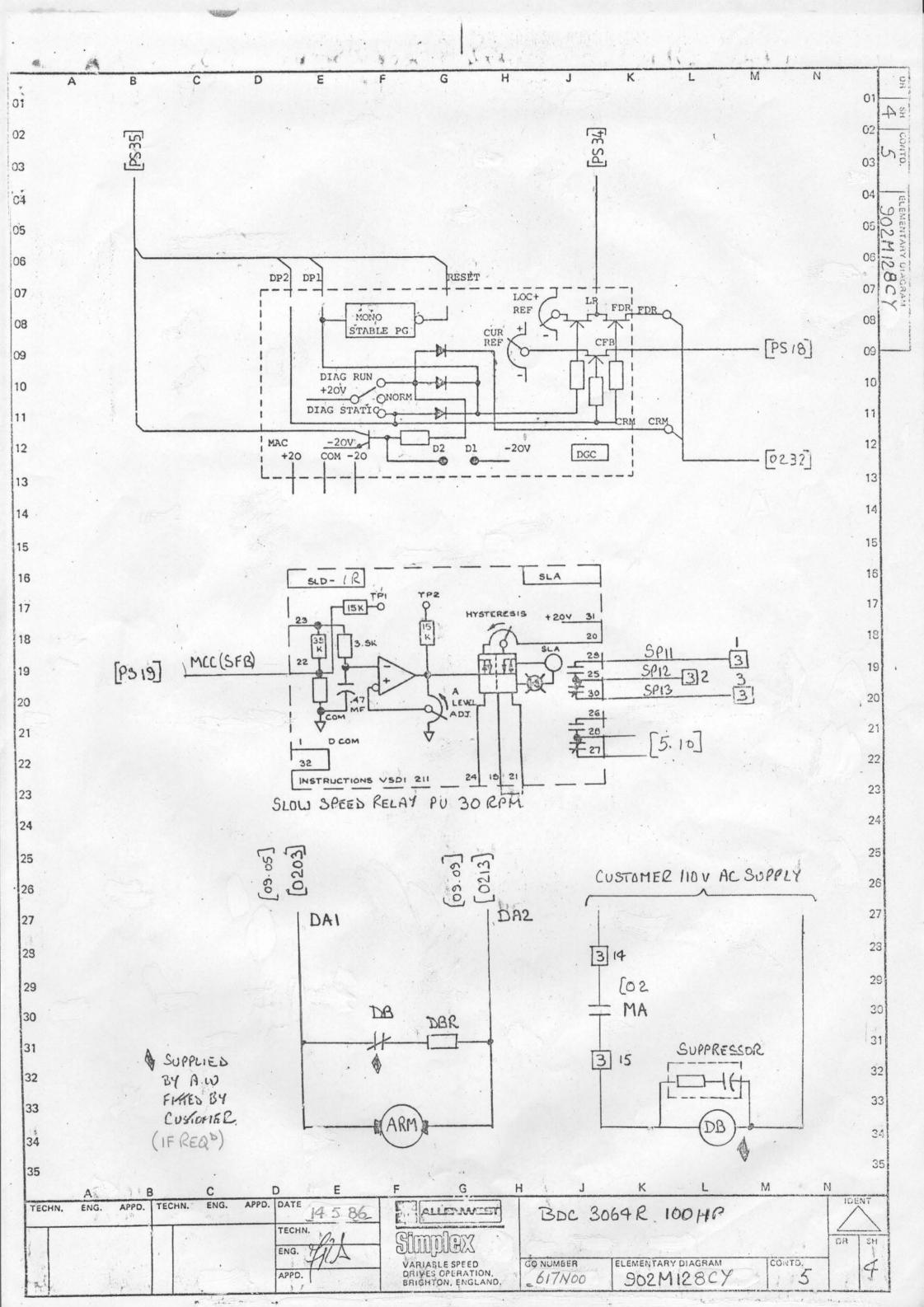


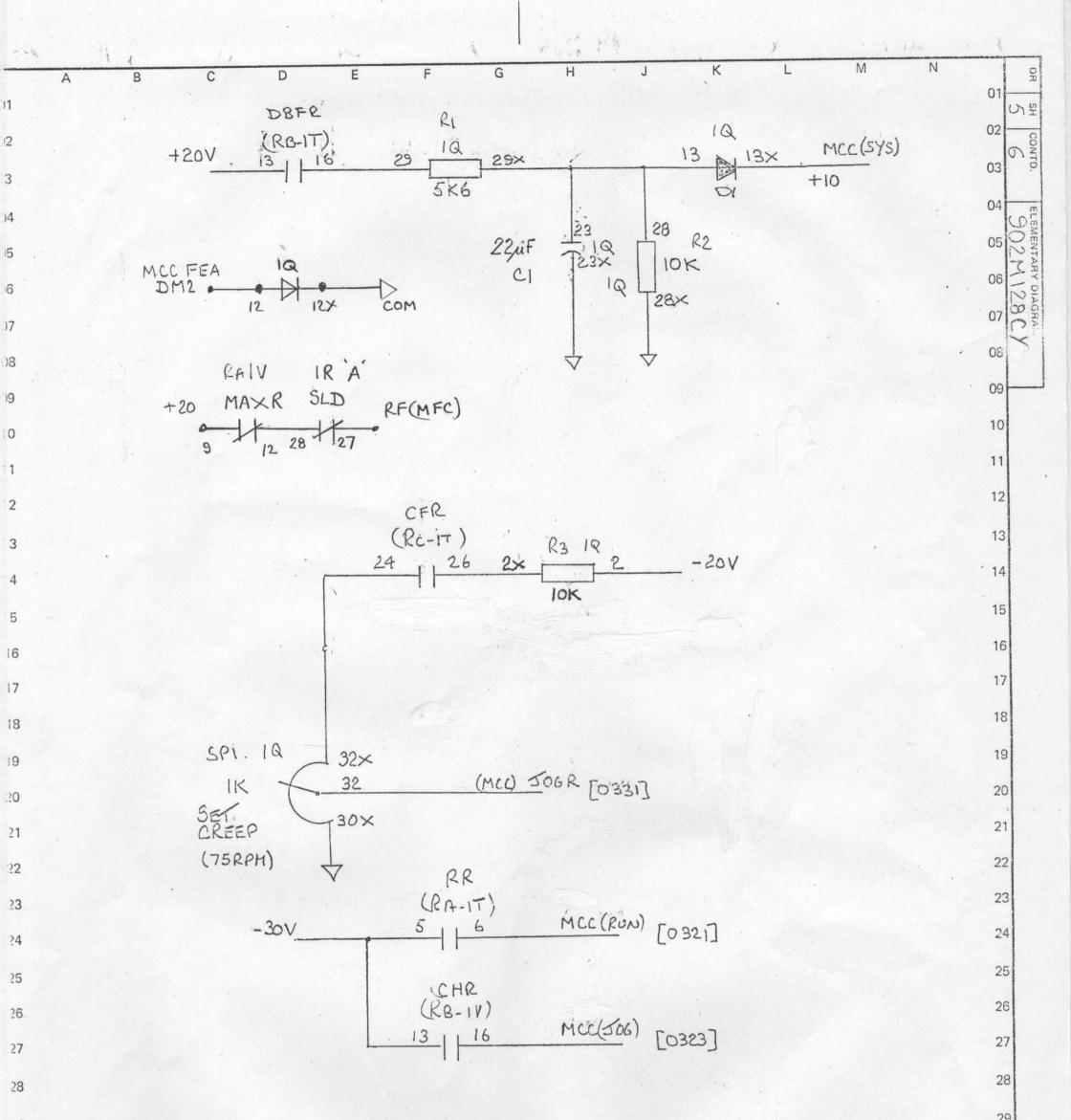
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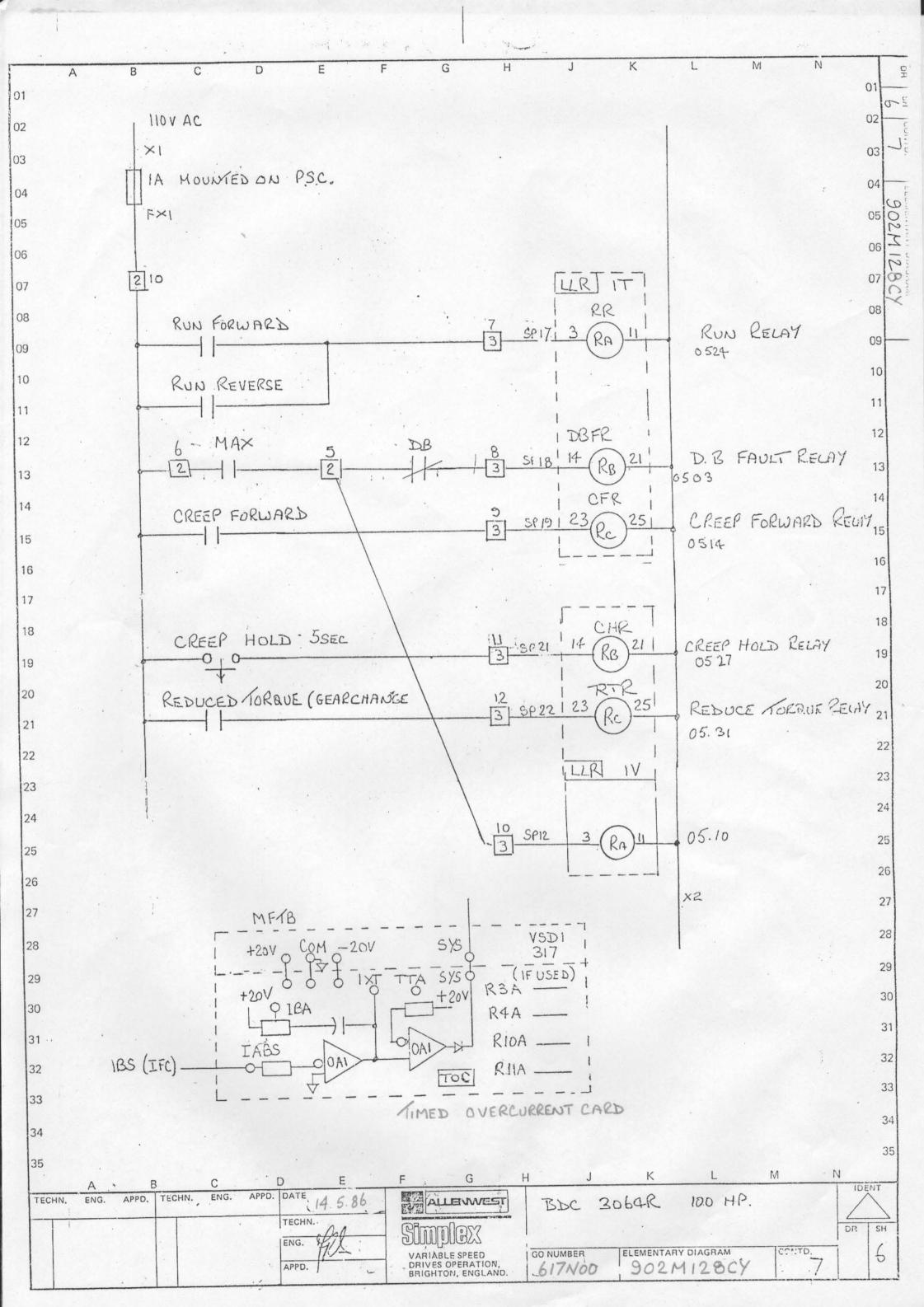
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10	$VO = \frac{-R_2}{R_1}$	vi vi		$VO = \left(1 + \frac{R2}{RI}\right)$	VT			ILA IME		CURRENT LI CURRENT SI					10 -
10	R			RI /				* IPU		INITIAL PU					
11	1	CASE	GROUNI	0				* LR		LOCAL REF.					11
	VICIV							* JOG		JOG SWITCH JOG REFERE					
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		
21	IOC-4	008	X	(NONE) I - IHI				TFR * TR		AC TACHO F TIMED REFE			(- 13)		21
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 

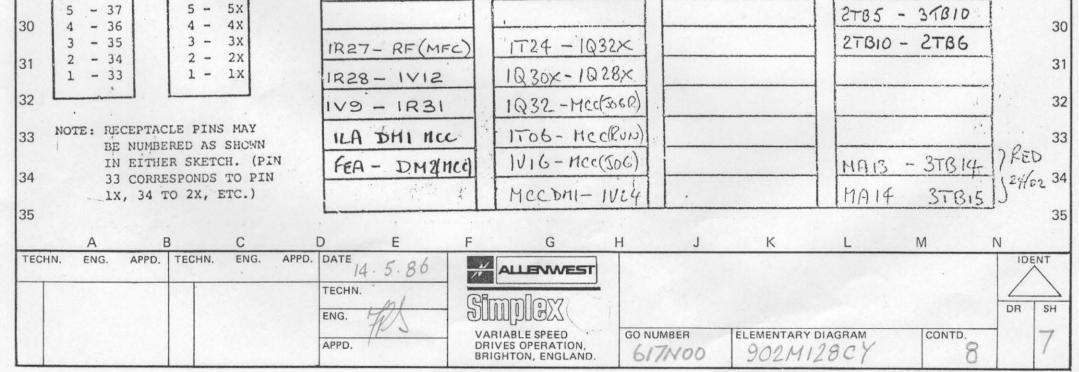


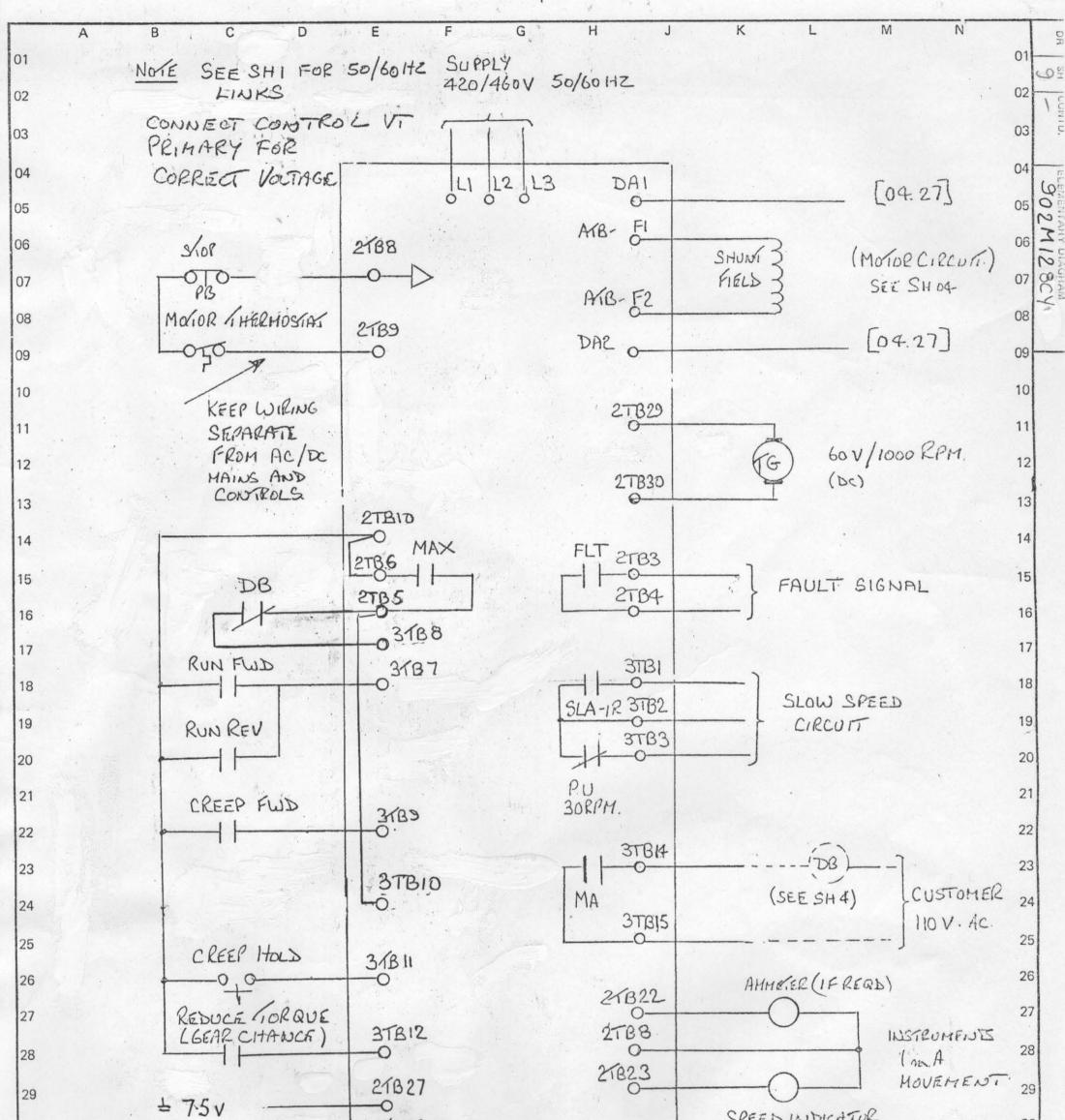


29	RTR	29
30	(Rc-IV)	30
31	[0334] (MCC)DM1 24 26 15x 19 15	31
32	ILA 47R5	32
33	REDUCED CURRENT LIMIT	33
34	APPEDX 10% WHEN NORMAL CURRENT LIMIT SET TO 150%	34
35		35
1.1.1.1	A B C D E F G H J K L M N	
TECHN.	ENG. APPD. TECHN. ENG. APPD. DATE 14.5.86_ BLENWEST BDC 3064 R 100 14?	DENT
	TECHN. ENG. APPD. AP	ян 5



Business of the second se	D E F	G H		K L	M N	
A B C D E F	G H J	K L M N			U V V	
			1 CC S	LD ILLR	- LUR	
						_
		£ <sup>4</sup>				361
				•		AG
						21
			8611	A601	3603	M60
				ATT2	CI	90
			MEC		36	SCK
<u> </u>		1 1 1	5	51 . 61	1 2]	04
ON PRINTED CIRCUIT CARDS USED IN SUBSEQUENT DESIGNS WITH THE SAME	THIS RACK THE LETTERS BASIC NUMBERS AND GRO	AA' AFTER BASIC CAT	COLOGUE NUMBER I	NDICATES ORIGINA	AL DESIGN. AB, AC. AD.	
ETC., ARE DIRECTLY INTERCHANGEABLI	E AND MAY BE SUPPLIED	IN PLACE OF THE 'AA'	CARDS.			
SOME CARDS CONTAIN PARTS, WHICH WIL	LL BE THERMALLY HOT A	AFTER BEING IN OPERATI	ON. CARE SHOULD	BE EXERCISED IN	CARD RACK. A HANDLING	
RECEPTACLE AS SEEN		0		•		
IN RACK CLOSED POSITION.	C TEST P	POST V P	OT ADJUSTMENT	C INDICA	TING LIGHT	•
32 - 64 32 - 32x	L	CAUD DACK MIDE TUN				
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	
27 - 59 27 - 27x		1213 - 1221 HCC (DH2)-1212 1212X-1223X	125 - 10	21 SP 11 11 SP 12		
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	•
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	R/B Con - 10,15	HCC (DH2)-1Q12 1Q12X-1Q23X 1R31 - 1713	$\frac{1V2S - 1V}{1V21 - 1V}$ $\frac{1V11 - 1T}{1T11 - 1T}$	21 SP 11 11 SP 12 11 SP 13 21 SP 14	- 1R25	• ••••
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	RABCOM - 1Q15 1Q15 - 1R15	HCC (DH2)-1212 1.212X-1223X 1.212X-1223X 1.212X-1223X 1.212X-1223 1.212X-1223 1.212X-1223	$\frac{1V2S - 1V}{1V21 - 1V}$ $\frac{1V11 - 1T}{1T11 - 1T}$	21 SP 11 11 SP 12 11 SP 13 21 SP 14 5P 14 5P 14 5P 14 5P 15 SP 15 SP 15	- 1R25	• •••••
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	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	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	RABCOM - 1Q15 1Q15 - 1Q15 RAB+20 - 1Q31 1Q31 - 1Q31	$\frac{Hcc (DH2) - 1Q12}{1Q12X - 1Q23X}$ $\frac{1Q12X - 1Q23X}{1R31 - 1713}$ $\frac{1716 - 1Q29}{1Q29X - 1Q28}$ $\frac{1Q29X - 1Q28}{1Q28 - 1Q23}$ $\frac{1Q23 - 1Q13}{1Q23 - 1Q13}$	$\frac{1V2S - 1V}{1V21 - 1V}$ $\frac{1V11 - 1T}{1T11 - 1T}$ $\frac{1T11 - 1T}{1T21 - 1T}$	21 SP 11 11 SP 12 11 SP 12 11 SP 13 21 SP 14 125 SP 14 125 SP 15 SP 15 SP 15 SP 15 SP 15 SP 17 SP 19	- 1R25 1R30 - IT 3 - IT 14	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	RABCOM - 1Q15 1Q15 - 1Q15 RAB+20 - 1Q31 1Q31 - 1Q31 RAB-30 - 1T05	$\frac{Hcc (DH2) - 1Q12}{1Q12X - 1Q23X}$ $\frac{1Q12X - 1Q23X}{1R31 - 1T13}$ $\frac{1T16 - 1Q29}{1Q29X - 1Q28}$ $\frac{1Q28 - 1Q23}{1Q23 - 1Q13}$ $\frac{1Q28 - 1Q23X}{1Q28 - 1Q23X}$	$\frac{1V2S - 1V}{1V21 - 1V}$ $\frac{1V11 - 1T}{1T11 - 1T}$ $\frac{1T11 - 1T}{1T21 - 1T}$	21 SP 11 SP 12 SP 12 SP 12 SP 12 SP 13 SP 14 SP 12 SP 14 SP 12 SP 14 SP 15 SP 14 SP 15 SP 15 SP 16 SP 16 SP 17 SP 16 SP 17 SP 16 SP 17 SP 17 SP 16 SP 17 SP 16 SP 17 SP 16 SP 17 SP 16 SP 16 SP 16 SP 16 SP 16 SP 16 SP 17 SP 16 SP 20 SP 20	- 1R25 1R30 - IT 3 - IT 14 - IT 23	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	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	
S F J S J	DN PRINTED CIRCUIT CARDS USED IN SUBSEQUENT DESIGNS WITH THE SAME ETC., ARE DIRECTLY INTERCHANGEABL THE PRINTED CIRCUIT CARD SHOULD A SOME CARDS CONTAIN PARTS, WHICH WI ALL CARDS AFTER REMOVAL UNTIL THE FRONT VIEW OF 64 PIN RECEPTACLE AS SEEN IN RACK CLOSED POSITION.	DN PRINTED CIRCUIT CARDS USED IN THIS RACK THE LETTERS SUBSEQUENT DESIGNS WITH THE SAME BASIC NUMBERS AND GRO ETC., ARE DIRECTLY INTERCHANGEABLE AND MAY BE SUPPLIEN THE PRINTED CIRCUIT CARD SHOULD ALWAYS BE REMOVED WITH SOME CARDS CONTAIN PARTS WHICH WILL BE THERMALLY HOT A ALL CARDS AFTER REMOVAL UNTIL THESE PARTS HAVE COOLED. 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



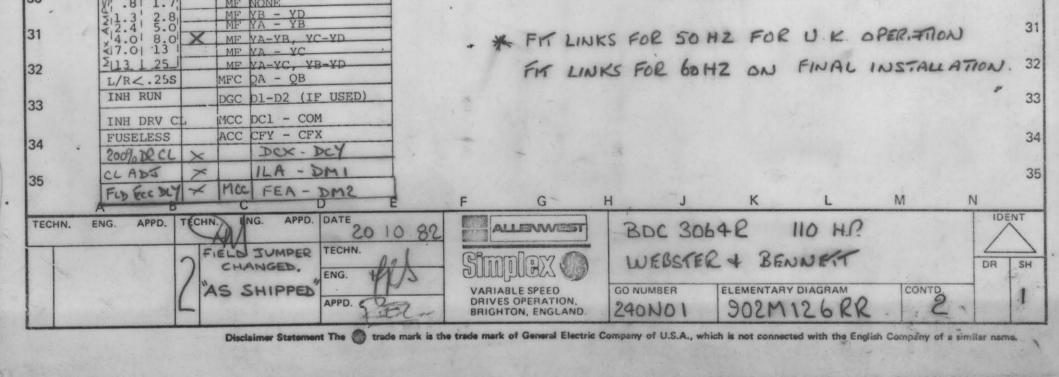


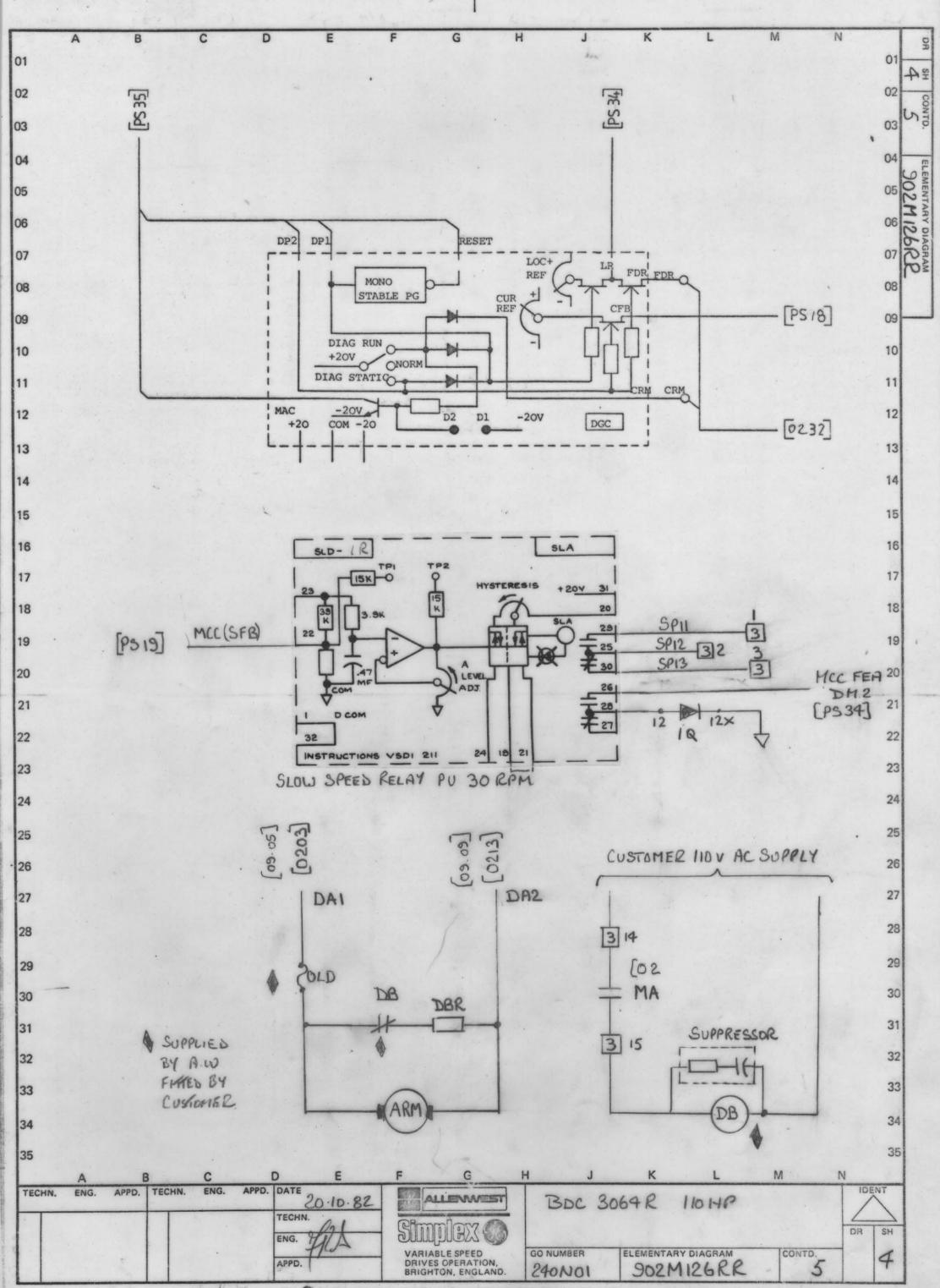
SPEED IN DICATOR 24B 28 30 N.C REF. 30 (IF REQL) -0 31 31 32 32 HOIOR DAIA HP. 33 33 VA VF IA. RPM 34 34 I. 35 35 M G К L N D E F H С В A IDENT ENG. APPD. DATE TECHN. TECHN. ENG. APPD. ALLEWEST 3064 R 100 NP 5.86 BDC 4 TECHN. S DR SH ENG. ELEMENTARY DIAGRAM GO NUMBER CONTD. 9 VARIABLE SPEED APPD. DRIVES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

4.10

 A	B	0	D	F		F G	c - 306	H	J	К	L	M	N	
^														01
													-	
VOLTAGE 1	POLAR	LES SHO	OWN ARE FOR	MOTORING	G DA1(+)		SI	GNAL DEFI	NITIONS A	ND LOCAT	IONS		1	02
HARDWARE	ABBRI	EVIATIO	ONS							,	e			
														03
MCC			ROL CARD				*	CEMF		R EMF ( ]				~
IFC PSC		ERFACE	CARD PLY CARD		5		*	CFB CMFA			CK (316) CEMF (30	181		04
SCR			ASSEMBLY		)			CRM			FY (3 11)	101		0
DGC		GNOSTIC	and the second se					DFP	DELAYE	D FIRING	POWER (3	25)		0.
MFC MFE	MOTOM	DR FIEL	D EXCITER				*	DR			CE (3 33)			0
MDR			ION RACK	1				EAO EST			UT (333) TOP INPUT	(3 14)		
ACC	AUX	ILIARY	CONTROL CARD	)				FALT		(314)				0
SYMBOLS		AMPI	LIFIERS				*	FC		CURRENT	a recommendation and	.2		
	-R2	L	VI	VO				FEA			ADJUST			08
¥7	N		RIDO	>				FF		FAULT (]		237		
RI	0	> vo		ป				IABS			ABSOLUTE (			0
-R2	1		R2					ILA			ADJUST (3			
$VO = \frac{RL}{RL}$	VI		$VO = (1 + \frac{R2}{RI})$	) VI				IMET IPU		T SIGNAL	FOR METER (3 20)	( ( 510)		10
							*	LR			M DGC (3 3	33)		1
Ŧ	CASE	GROUNI	D	6			*	JOG			UT (323)			
OV ( ) IV	vo =	SIGN	() X ABSOLUT	E VALUE	OF VI		*	JOGR			INPUT (33 SIGNAL (			1
 MOS			RMINAL					MAC MSW	and the second se	WITCH B		201		
Ť	SIAD	ON IL.	MIINNI				*	OSC		ATOR (3				1
			т 2тв, 3тв,				*	PCR			REF. (326			
	EX:	92 -	2TB9; X2	- RTBX2	2		*	PRE		PRECONDI	TION (3 21	L)		1
0	TERM	INAL A	T T.B.'s					ØSEQ		TOR ERRO				
								RIJ			· · · · · · · · · · · · · · · · · · ·	FION \$ 27)		1
J.			TER ARROWS C DIAGRAMS IN					RJ			ING JUNCTI			
			CTION AS THE					RRA		() 16)	ONS'E ADJUS	ST (330)		1
	SHAF	T IS R	OTATED CLOCK	WISE TO	INCREASE	Е	*	RTR	READY	TO RUN (	3 16)			
	FUNC	TION.					*	RUN			UT (3 21)			1
A	THES	E RESI	STORS ARE CI	RIMPED IN	WIRE		*	SA-C SFB		SYN OUTF	UT (316)			1
	HARN		1					SMET			OR METER	(3 12)		
		1.1					*	SR	SYSTEM	M REFEREN	CE INPUT	(3 29)		1
FUNCTIO	N US	E LOC	JUMPERS				*	SYS			RIP (3 13)			
60HZ		MFC	ZA-ZB (IF 1	USED)	SEENO	TE		TA TF		FAULT (N		DJUST (3 20)	)	2
50HZ -	-+-	- +	HZA - PHA		×		*	TFB			DBACK (	20)		
IOC-400	28 -	× MCC	(NONE)					TFR			IENCY OUTPU	UT (313)		2
-500	1 80	IFC	I - IHI				*	TR			ск (733) Ск (319)			
-300		× IFC	NONE)				*	WFR			ERENCE (3	20)		2
SR5 - 9			SRH - COM									1.1.1.1.1		
JOGR 10		ince	(NONE)				(	* - TES	T POINT O	N DOOR FI	RONT)			2
	-	× MCC	JH - COM											2
LT. 3-7		-	(NONE)						a avann					4
2 - 60	sec	~	3320 FROM	and a second	OM			MAPPIN	G SYSTEM	1 1				2
VREG		X	NT-CEMF CC	-COM				(NS/PS	/TS) PS	- PAST	SHEET			2
DC TAC		MCC	(NONE) AT1 - AT2						NS	5 - NEXT	SHEET			2
TACHO I	CONTRACTOR DESCRIPTION		TC - TC							5 - THIS				
TACHO		TIM	NT-NT1 PT	- 071								2. OTHER L		
24-640			NT-NTI PT					JMBER AND	LINE? E.	.G. (1A16	) SIGNIFI	ES LOCATION	ON SHEE	2.1.
60-160		× IFC	NT-NT2 PT	- PT2	IA,	, LINE 16	EIC.				T TRANSIST			2
66-177	vac		NT-NT2 PT								STATE OF			
110-30			NT-NT3 PT								CONDITION" STIC STATI			2
120-30		the second day is not	NT-NT3 PT	and the second se	1.4 3.44						IS SHOWN E			
 G134 G			MFC OR MFE								ITH STATE			3
18 8T	1. 1	MP	NONE											

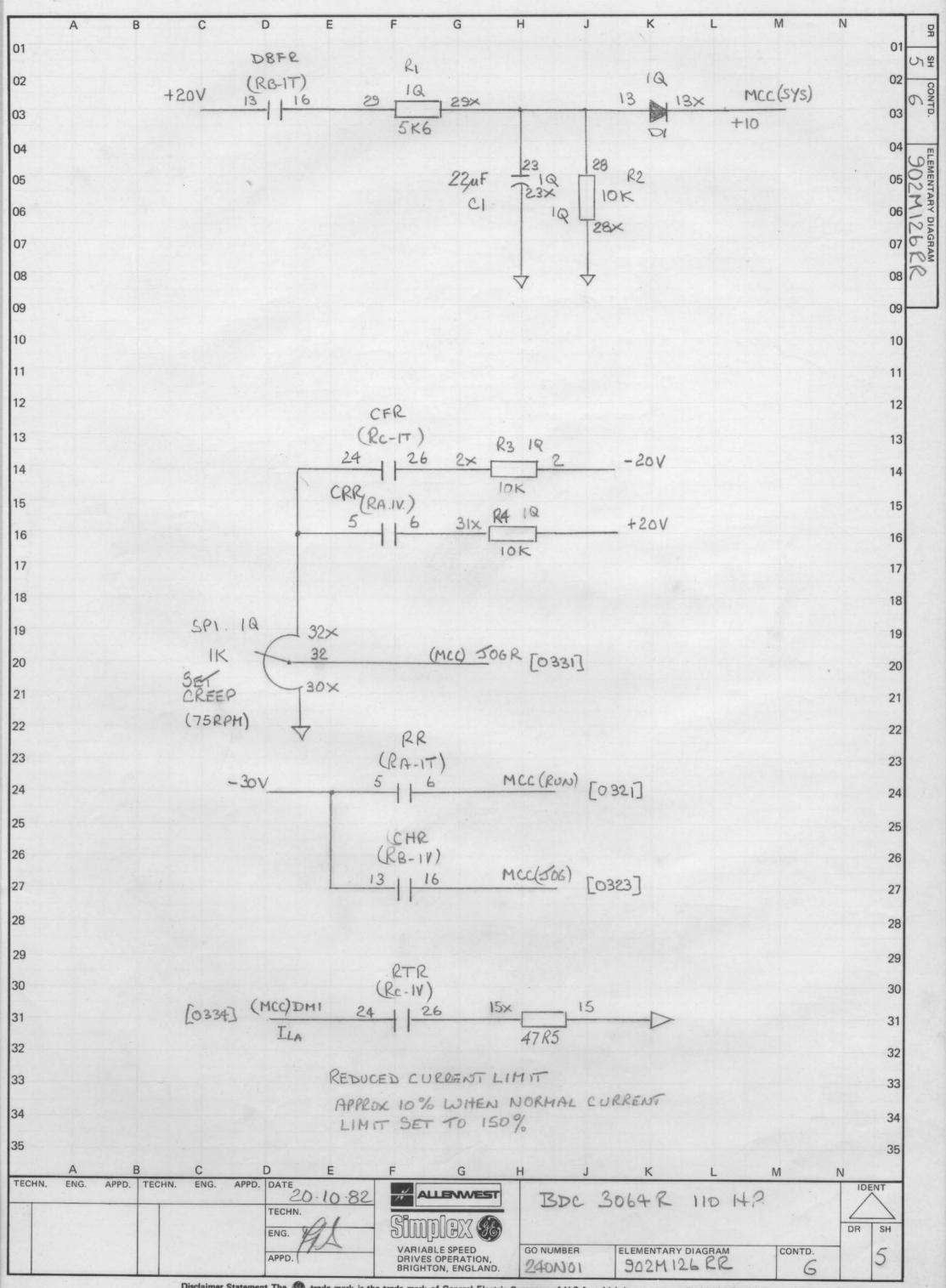
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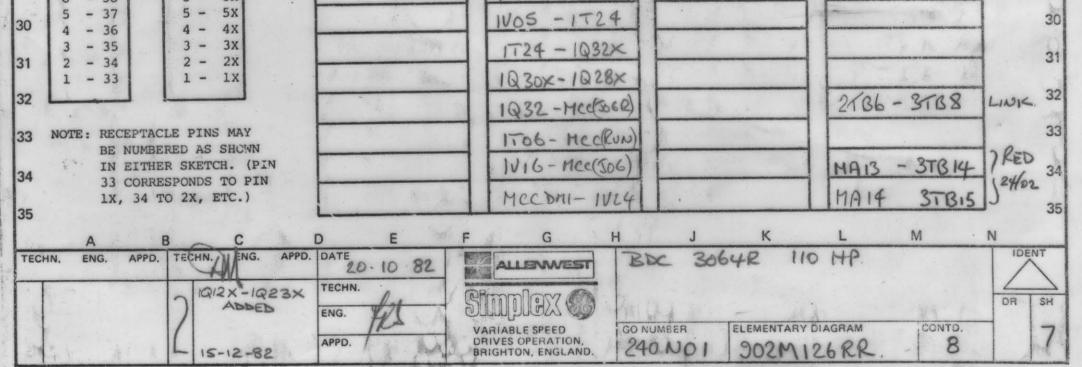


M N D G Н К L В С Ε F J A PR 01 01 HS O 110V AC 02 02 CONTD. XI 03 03 1A MOUNTED ON P.S.C. 04 04 ELEMENTARY DIAGRAM FXI 05 05 06 06 210 LLRTIT 07 07 RR 08 08 RUN FORWARD 7 RUN RELAY SP17 З RA 09 09 0 524 10 10 RUN REVERSE 11 11 DBFR 12 MAX 12 DB 6 5 200 D. B FAULT RELAY 14 SP18 21 6 19 2 RB 13 13 0503 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

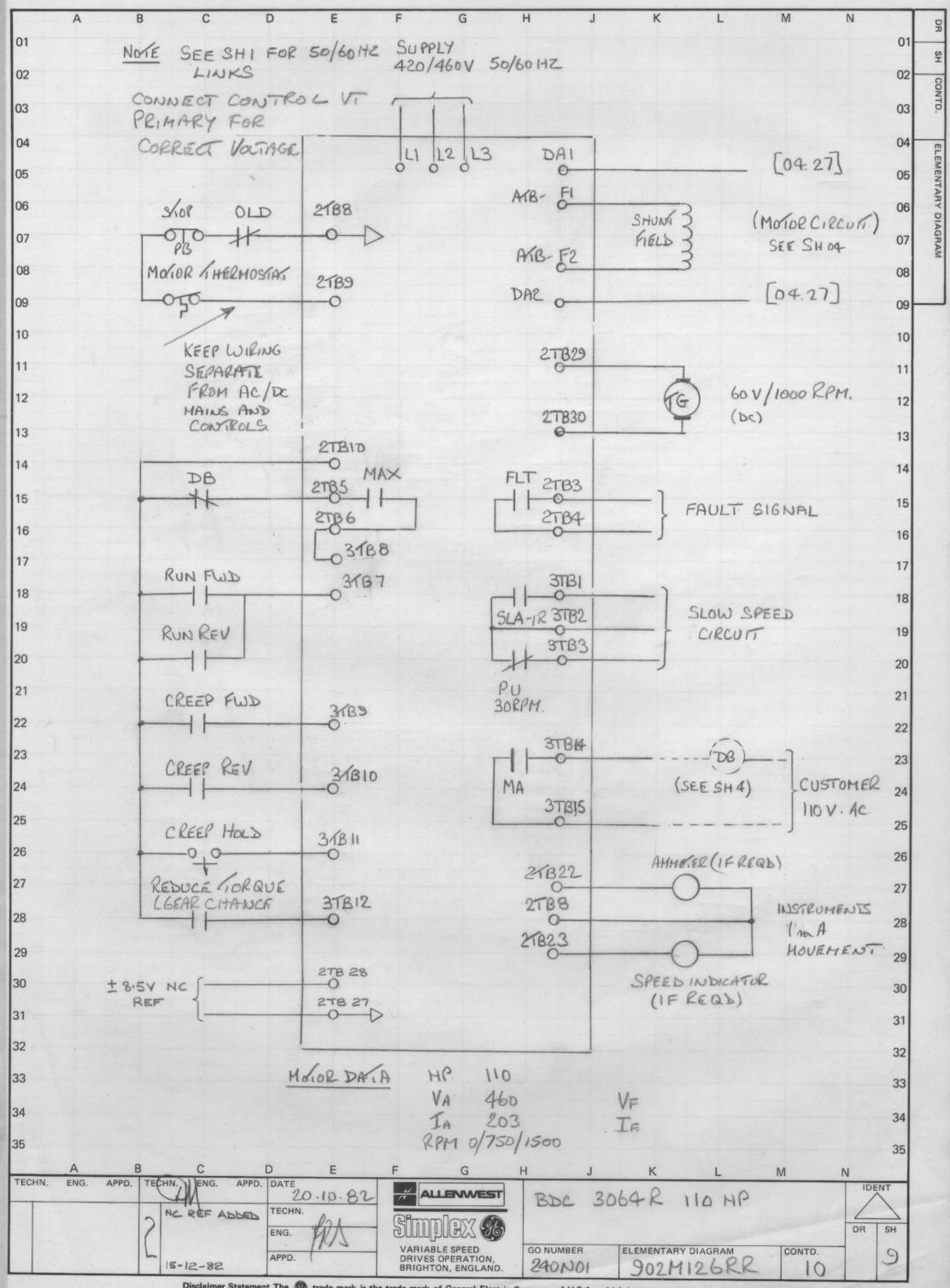
Disclaimer Statement The trade mark is the trade mark of Connel Electric Conners (110 to 111)

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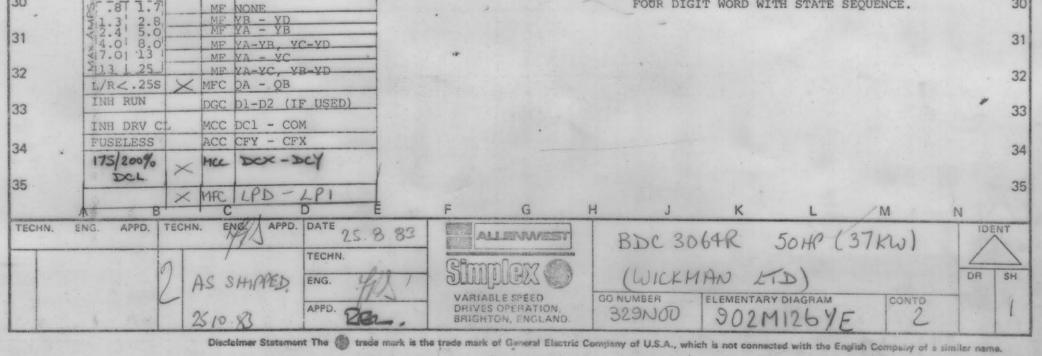


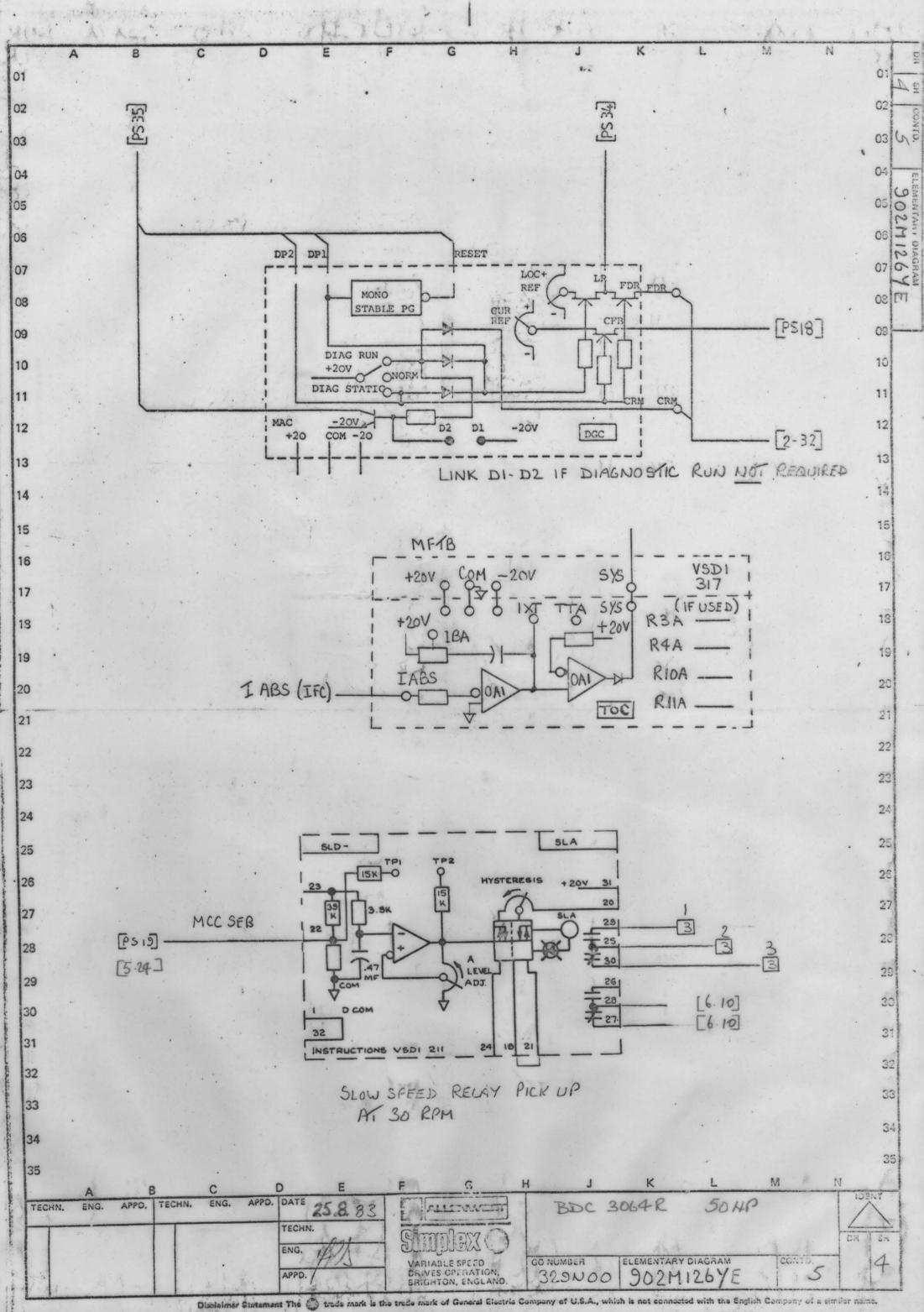
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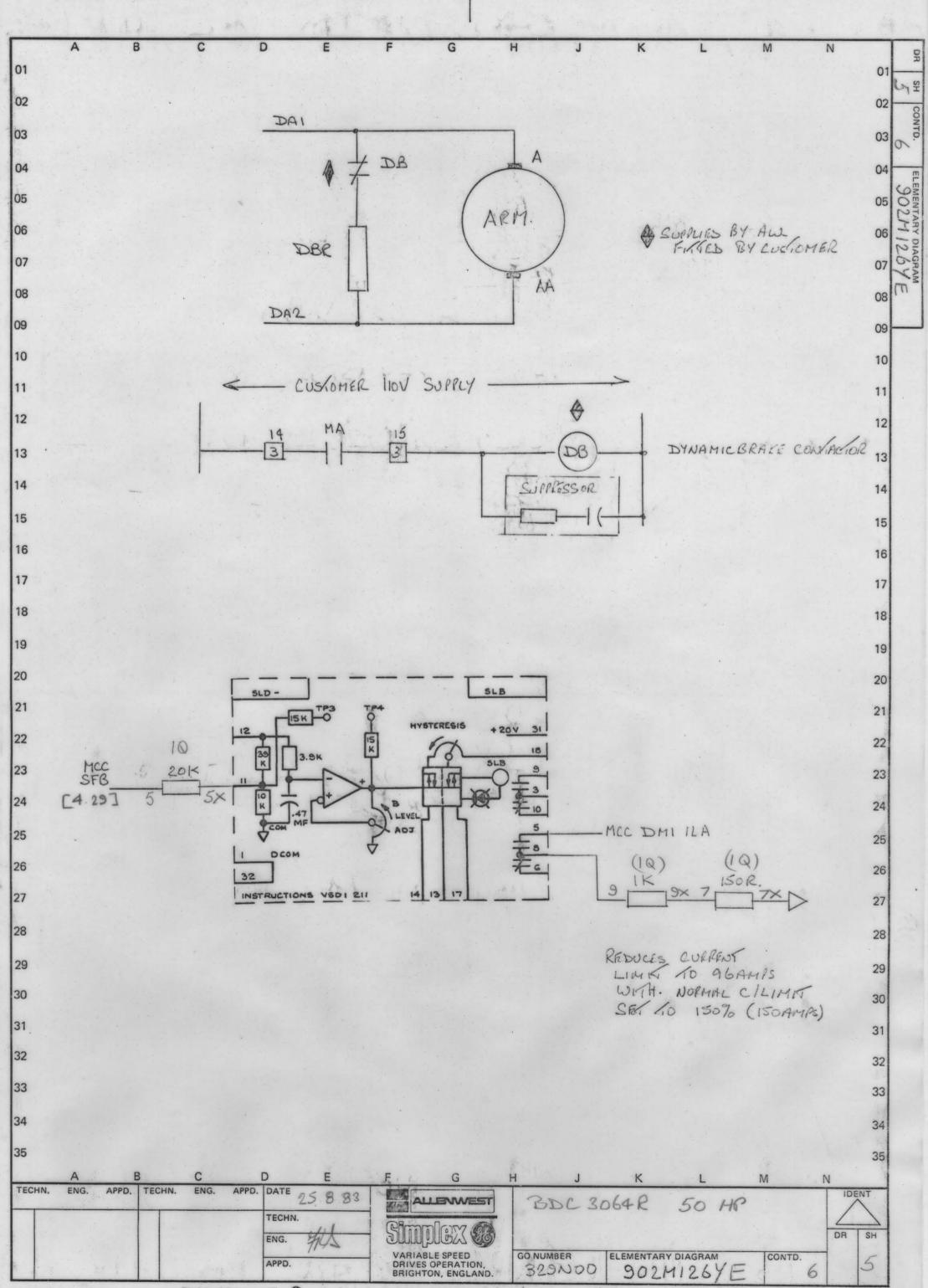
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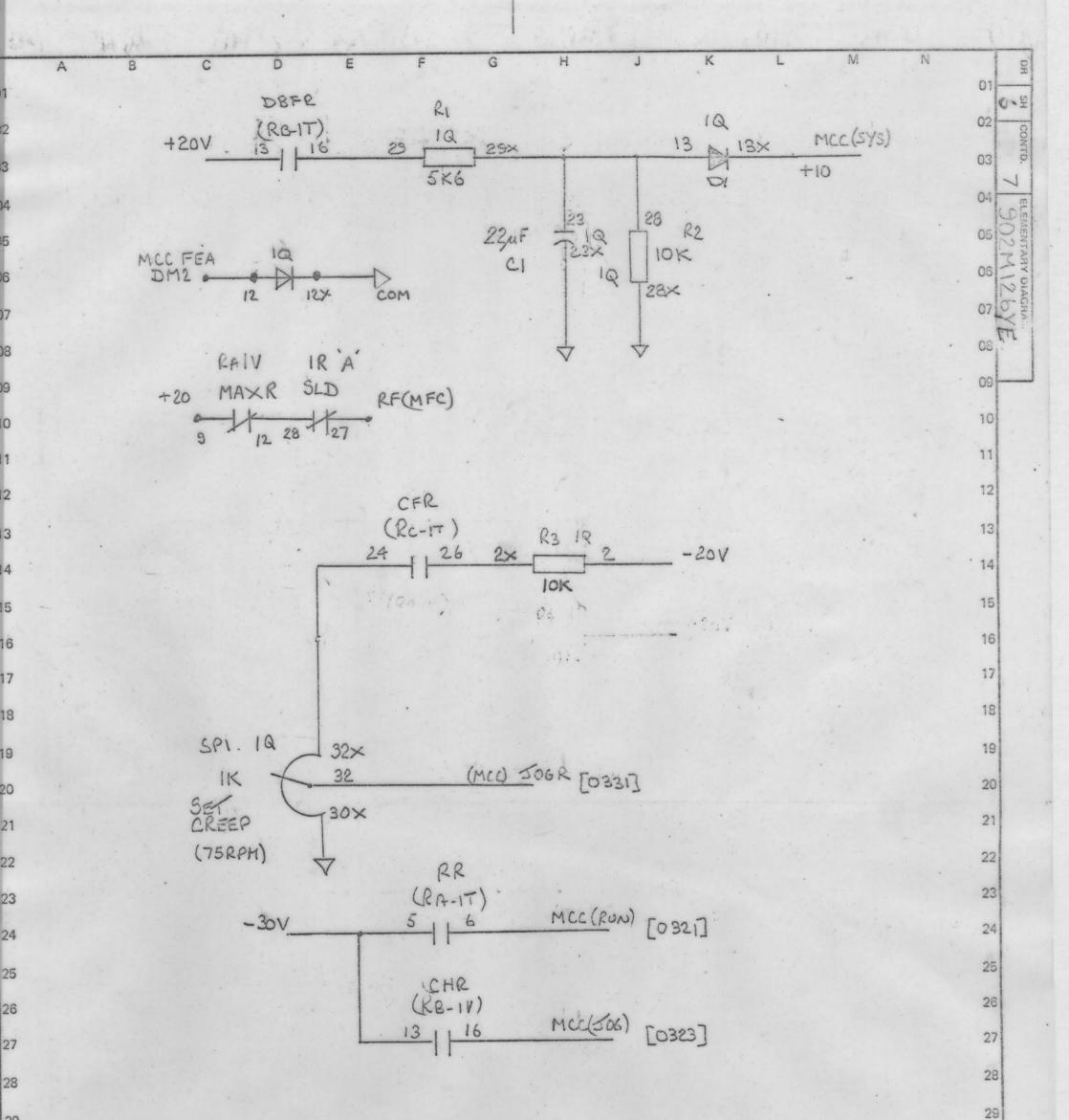
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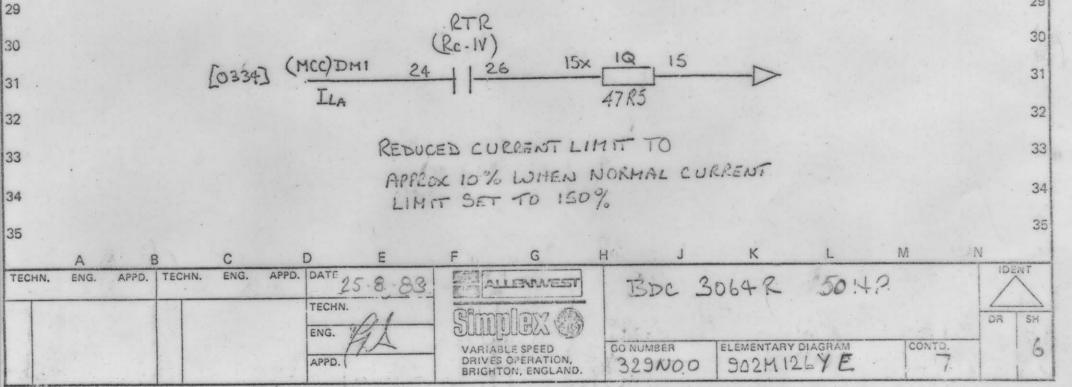


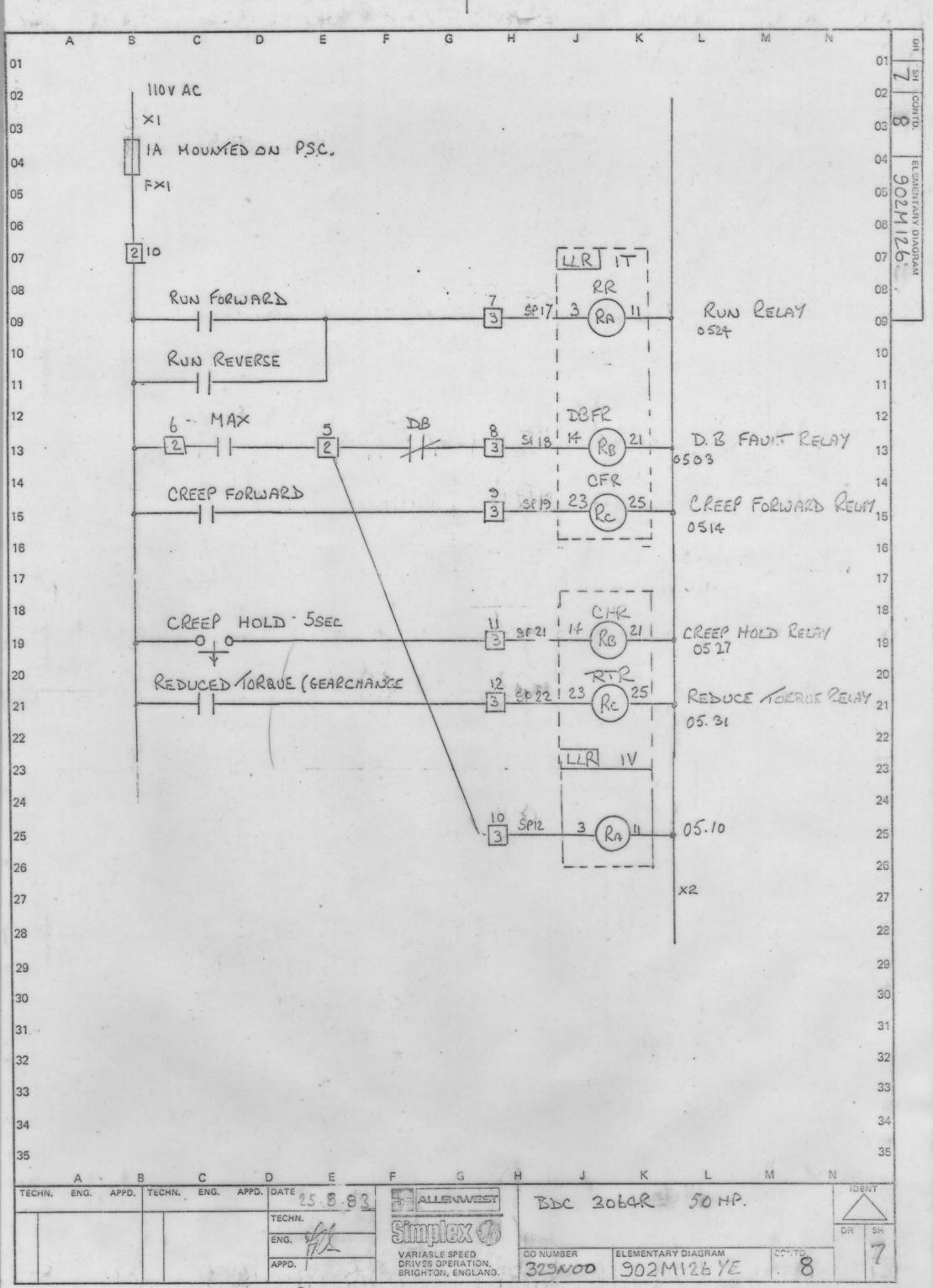




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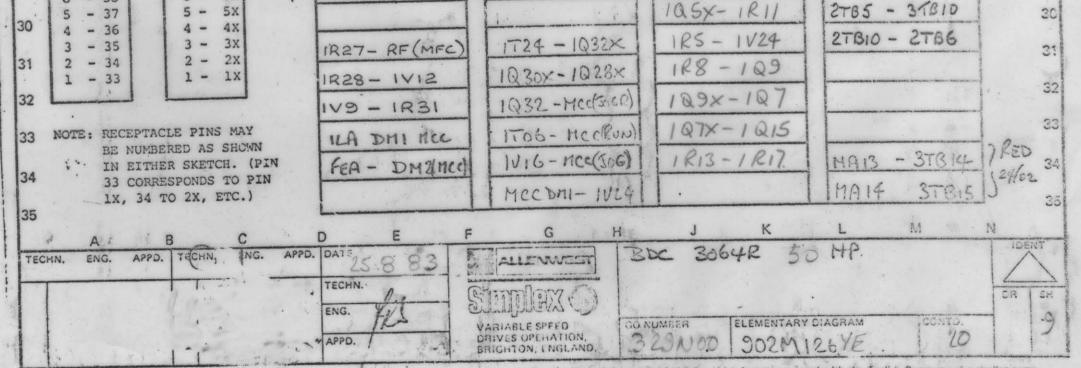




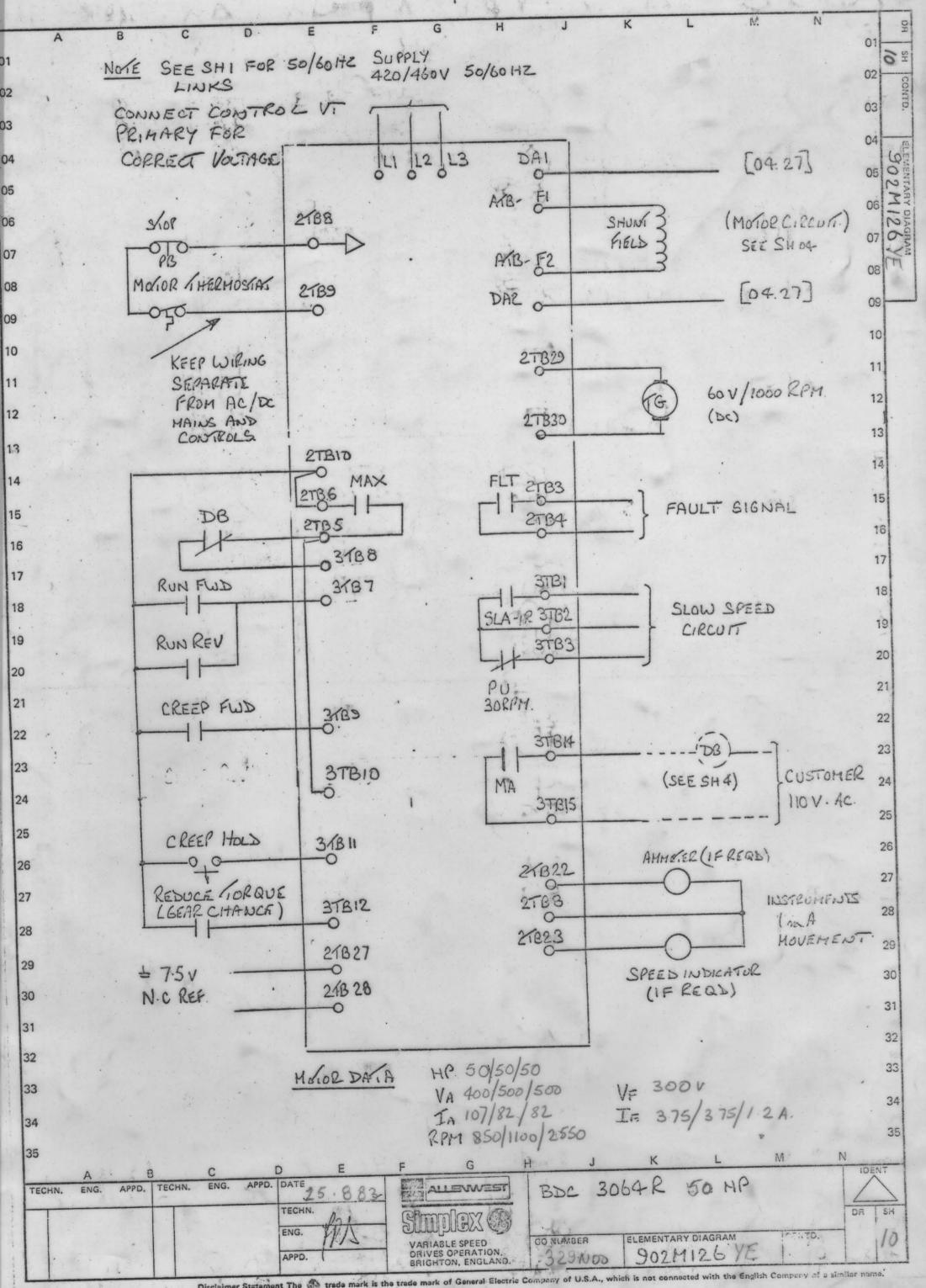


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ON PRINTED CIRC	UIT CARDS USED IN	THIS RACK THE LETTERS	'AA' AFTER BASIC CATO	LOGUE NUMBER INDICAT	ES ORIGINAL DESIGN.	
SUBSEQUENT DESIG	GNS WITH THE SAME TLY INTERCHANGEABL	BASIC NUMBERS AND GRO E AND MAY BE SUPPLIED	UP NUMBER WITH THE SEC IN PLACE OF THE 'AA'	CARDS.	SUCH AS: MS, AC, AD,	
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.	
SOME CARDS CONT.	WIN BAUTO MUTCH MT	LL BE THERMALLY HOT A	FTER BEING IN OPERATIO	N. CARE SHOULD BE EX	ERCISED IN HANDLING	
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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.	
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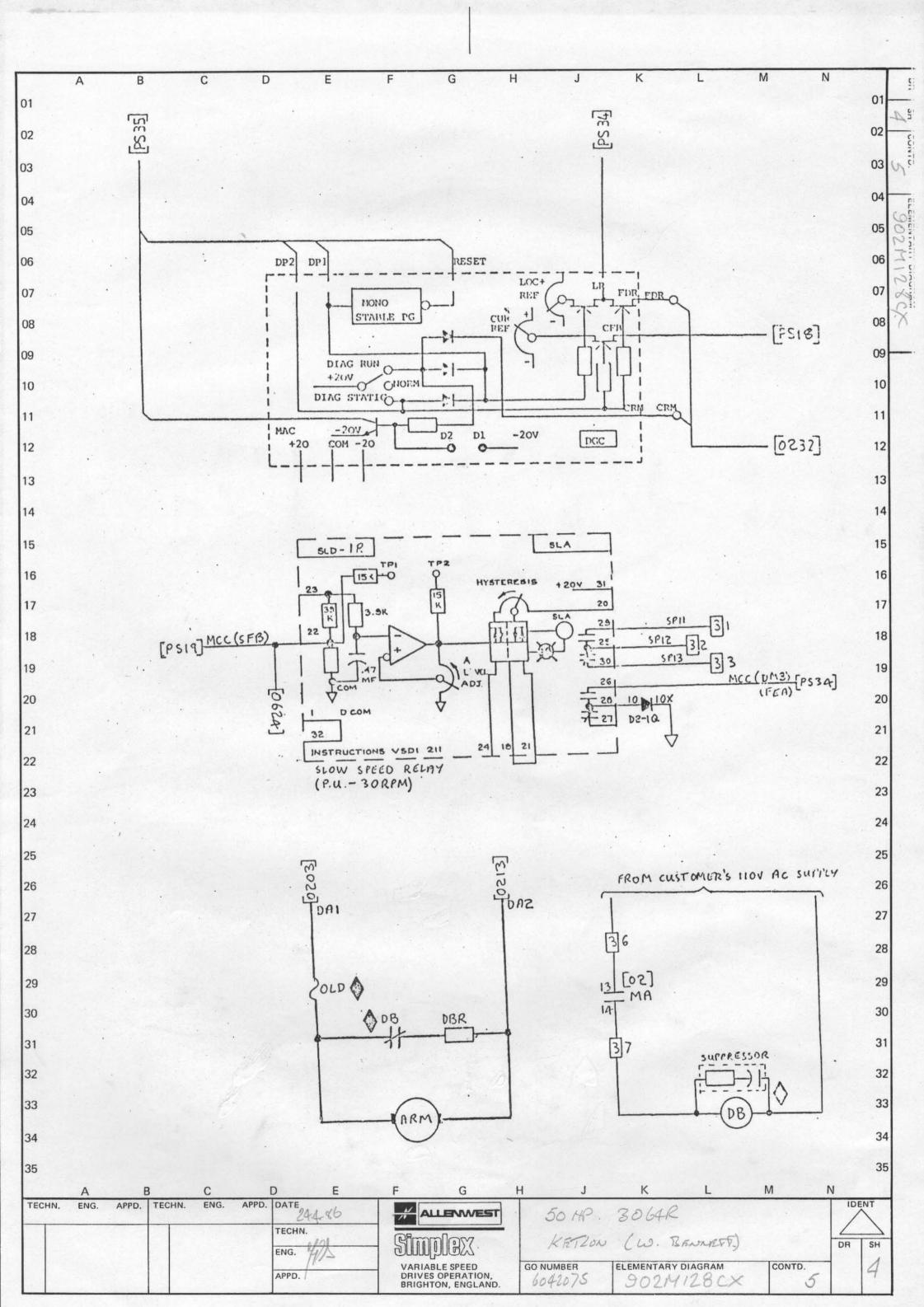


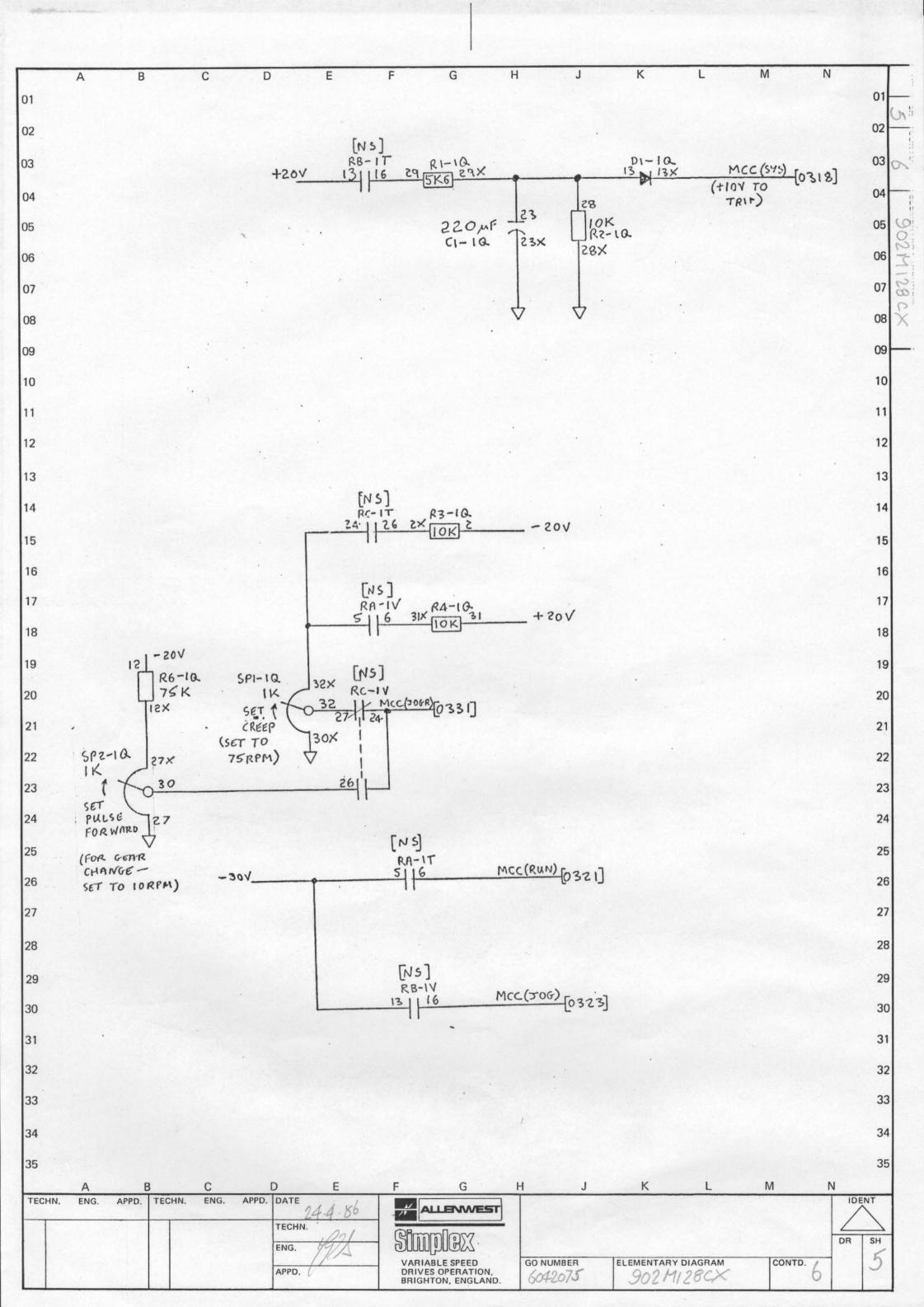
Discisimer Statement The Strade mark is the trade mark of General Electric Company of U.S.A., which is not connected with the English Company of a similar name.

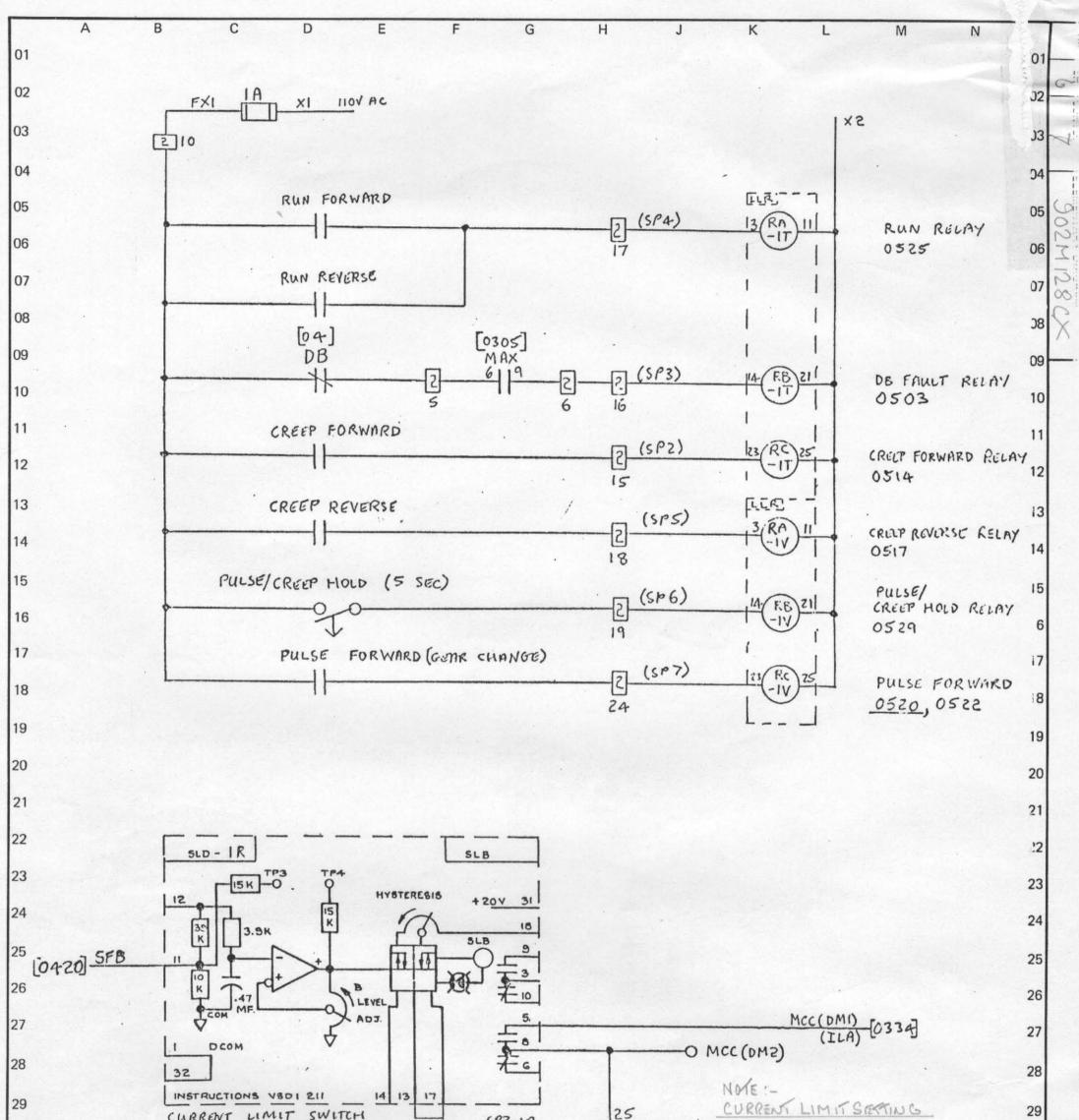


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1				TATED CLOCKWISE TO	O INCR	EASE		* RTF			DY TO RUN (	16)			100
17		FUNCTI	CON.					* RUN			SWITCH INPU				17
	A .	THEFT	PEST	STORS ARE CRIMPED	TN WTR	F		* SA-			SE SYN OUTPU				
18		HARNES						* SFE			ED FEEDBACK				18
								* SR	T		ED SIGNAL FO				
19	FUNCTION	USE	LOC	JUMPERS	7			* SYS			TEM FAULT TH				19
	60HZ		MEC	ZA-ZB (IF USED)	1			* TA			PUT FOR TACK			1	
20			PIEC	ZA-ZB (IF USED)				TF		TAC	HO FAULT (NS	528)			20
	50HZ	1 ×	MCC	HZA - PHA				* TFI			HOMETER FEEL				
21	IOC-400%			(NONE)			- second and	TFI * TR			TACHO FREQUI		JT ( 13)		21
	-500%			I - IHI I-ILO	-			* VFI			ED REFERENCI TAGE FEEDBAG				
22	SR5 - 9v		T	NONE)	1			* WFH			K FIELD REFI		20)		22
	9 - 20	· · · · · · · · · · · · · · · · · · ·	MCC	SRH - COM	]										
23	JOGR LOV			(NONE)				(*.	TEST	r point	ON DOOR FRO	ONT)			23
	200	X	MCC	JH - COM	]										
24	LT. 3-7se		Co contractor	(NONE)											24
	2 - 60se	c		3320 FROM LTI TO	COM			MA	PPINC	G SYST	EM				
25	VREG			NT-CEMF CC-COM	-			( NT	- /ne	/mcl	DC - DACO	CHEDO			25
	DC TACHO AC TACHO			(NONE) ATI - AT2	-			(14)	5/25/		PS - PAST NS - NEXT				
26	TACHO FI	and a second sec		TC - TC							TS - THIS				26
	TACHO V.				7	HENCE (P	S - 12) D	ENOTES	LOCA		ON PAST SHEE		2. OTHER L	CATTONS	ARE
27	24-64vdc	-		NT-NTL PT - PTI	-						E.G. (1A16)				
	27-71vac 60-160vd			NT-NT1_PT - PT1_	-		16 ETC.			1					
28	65-177va			NT-NT2 PT - PT2 NT-NT2 PT - PT2_	-			NO			IELD EFFECT				28
				NT-NT3 PT - PT3	1						OPEN (I/O) D FOR "PREC				
29	110-300v	- Browner -		NT-NT3 PT - PT3							- "DIAGNOS				29
	G134 G25	the second		MFC OR MFE	1						STIC RUN" I				
30	0134 G23		ALCON STATES	NONE							GIT WORD WI				30
1 *	1 2 2 2 2	0		VB - VD											

			APPD.	This	VARIA	BLE SPEED	GO NUMBER			Y DIAGRAM	CONTD.	-	1
ECHN.	ENG. APPD. TECH		TECHN.	23.4.86		MAX		KET		50 HP UK LTD		DR	SH
THE OWNER WHEN PERSON NAMED	A B	C N. ENG. APPD.	D	E	F	G	н	J	K	L	M	N	
5	REC CL × FLD FC.DY ×	MCC ILA-D FEA	DH3										35
	FUSELESS	ACC CFY - CF	64	-									34
	INH DRV CL	MCC DCI - CO	M										33
	L/R<.25S	MFC DA - QB	F USED	)			SEE ALSO	906F	211863	<u>D</u>			22
	S113 1 25 J	ME NA - YC	B-YD	_									32
	4.01 8.0 4.01 13	ME YA-YB, Y	C-YD	_									31
	31.3 2.8	MF NONE MF YB - YD MF YA - YB					100.	N DIGIT	HOILD HI	TH STATE SEQ	UDINCE .		30

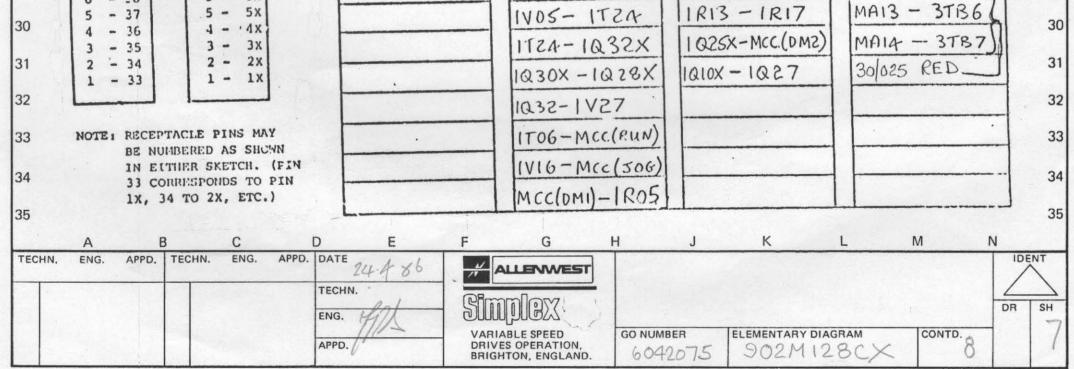


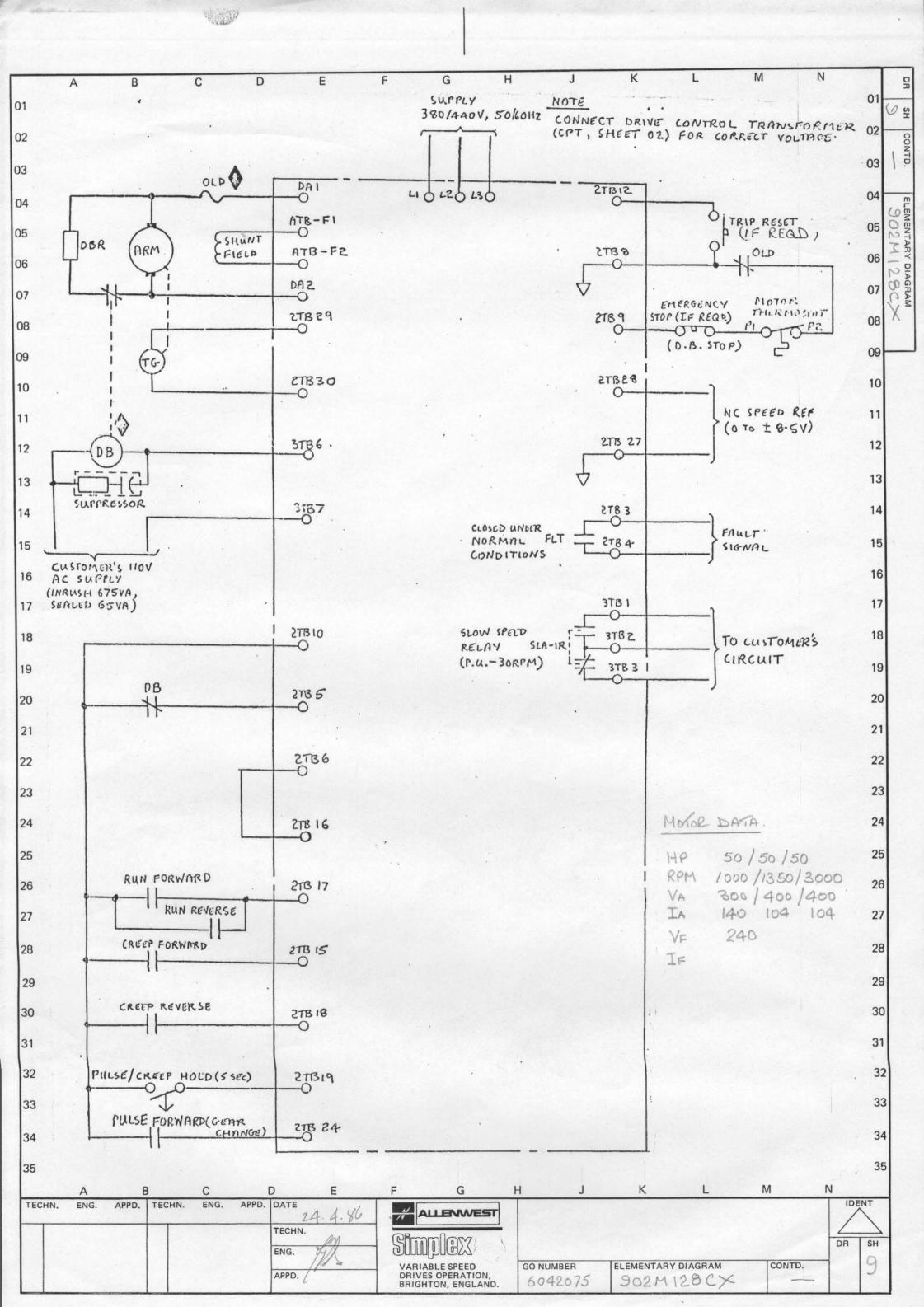




CURRENT LIMIT SWITCH 25 SP3-1Q SHUNT TAP 140 A. (SET TO DIO AT 1200 RPM) 2K 30 O25X 30 SET SLB IR TO DROP OUT AT SET CURRENT VOLTS. SFB 31 LIMIT 2. 122 REMOVE MCC JUMPER ILA - DMI 31 15× ADJ C. LIM FOR CFB V( A MOTOR) 32 1R5-1Q 32 FIT SUMPER ILA - DM2 IRS 33 ADJ. CLIM 2 (SP3-1Q) FOR CFB V.33 15 V ( A 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

-	A	В	С	D		E	F	G	Н	J		K	L		M		N	-
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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	<b>UUSTHE</b> N				VTING	LICHT	-1	
1	RECEPTACLE IN RACK CI POSITION.	AS SEE				<u>SYN</u>	BOLS 1	OST	-	POT AT	<b>UUSTHE</b> 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 <b>T</b>	¤		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		
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 21 - 53	AS SEE	$ \frac{32}{31} - \frac{32x}{31} - \frac{31x}{30} - \frac{30x}{29} - \frac{29x}{29x} - \frac{27x}{26} - \frac{26x}{25} - \frac{26x}{25} - \frac{25x}{25} - $		RTB IO RTB( IQ RTB	(-zov) (-zov) (00)- (00)-	1001.51 TEST P -1Q02 1R02 1Q15 R15 -1Q31	CAPD T MCC (SF IR 19- MCC (U IR 28 IR 31 IT 16	Ø ACK WIPE JI B)-IR22 IR21 M3)-IR26 -IQ10 -IQ10 -IT13 -IQ29		11- 11- 11- 11- 11- 11- 11- 11-	IRII V21 IV11 IT11 IT21 IT25	×	INDIC/ SP2- SP3 SP4- SP5 SP6	- 17 2 - 17 - 17 - 17 - 17 - 17	23 14 103 103 14		
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	$ \frac{32}{32} - 32x}{31 - 31x} \\ \frac{30}{30} - 30x}{29 - 29x} \\ \frac{29}{29} - 29x} \\ \frac{29}{20} - 28x} \\ \frac{27}{27} - 27x} \\ \frac{26}{25} - 25x} \\ \frac{24}{23} - 24x} \\ \frac{23}{22} - 22x} \\ \frac{21}{21} - 21x} \\ \frac{20}{20} - 20x} \\ \frac{19}{20} - 19x $		RTB IC RTB( IQ RTB IQ	(-20V) (-20V) (0M) - (15-1 (+20V) 31-14	1001.51 TEST P -1Q02 1R02 -1Q15 R15 -1Q31 231	CAPD T MCC (SF IR 19- MCC (U IR 28 IR 31 IT 16	Ø ACK WIPE JI B)-IR22 IR21 M3)-IR26 -IQ10 -IQ10 -IT13 -IQ29		11 - 1 11 - 1	IRII V21 IV11 IT11 IT21 IT25	×	INDIC/ SP2- SP3 SP4- SP5 SP6	- 17 2 - 17 - 17 - 17 - 17 - 17	23 14 103 103		
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 21 - 53 20 - 52 19 - 51 18 - 50	AS SEE	$ \frac{32}{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 - 18 $		RTB IG RTB( IQ RTB IQ RTB	(-20V) (07)- (0M)- (15-1 (+20V) 31-1K (-30V)	1001.51 TEST P -1Q02 1Q02 1Q15 R15 -1Q31 231 - 1T05	CAPD F MCC (SF IR 19- MCC (U IR 28 IR 31 IT 16 IQ 29	Ø ACK WIPE JI B)-IR22 IR21 M3)-IR26 - IQ10 - IT13 - IQ29 X- IQ29		11 - 1 11 - 1 12 - 2 12 - 2	IRII V21 IVII ITII IT25 IQ12	×	INDIC/ SP2- SP3 SP4 SP5 SP6 SP7	- 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17	23 14 103 103 14 14 123		
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 21 - 53 20 - 52 19 - 51 10 - 50 17 - 49	AS SEE	$ \frac{32}{31} - \frac{32x}{31} - \frac{31x}{30} - \frac{30x}{29} - \frac{29x}{29x} - \frac{29x}{29x} - \frac{29x}{27} - \frac{27x}{27} - \frac$		RTB IG RTB( IQ RTB IQ RTB	(-20V) (-20V) (0M) - (15-1 (+20V) 31-14	1001.51 TEST P -1Q02 1Q02 1Q15 R15 -1Q31 231 - 1T05	CAPD T MCC (SF IR 19- MCC (U IR 28 IR 31 IT 16 IQ 29 IQ 29	O ACK WIPE JI B)-IR22 IR21 M3)-IR26 -IQ10 -IQ10 -IQ10 -IQ29 X-IQ29 X-IQ29 X-IQ29	POT AI	$\frac{22}{25-1}$ $\frac{25-1}{21-1}$ $\frac{11-1}{121-1}$ $\frac{11-1}{21-2}$ $\frac{11-1}{21-2}$	IRII V21 IVII ITII IT25 IQ12 -1Q27	X	INDIC/ SP2- SP3 SP4- SP5 SP6 SP7 2TB (	- 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17	23 <u>714</u> <u>703</u> <u>703</u> <u>714</u> <u>7816</u>		
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 21 - 53 20 - 52 19 - 51 10 - 50 17 - 49 16 - 48	AS SEE	$ \frac{32}{32} - 32x \\ \frac{31}{31} - 31x \\ \frac{30}{30} - 30x \\ \frac{29}{29} - 29x \\ \frac{29}{29} - 29x \\ \frac{29}{21} - 27x \\ \frac{21}{23} - 23x \\ \frac{22}{23} - 23x \\ \frac{23}{22} - 22x \\ \frac{21}{21} - 21x \\ \frac{20}{21} - 21x \\ \frac{20}{19} - 19x \\ \frac{18}{17} - 17 \\ \frac{16}{16} - 16 $		RTB IC RTB( IQ RTB IQ RTB IQ	(-20V) (07)- (0M)- (15-1 (+20V) 31-1K (-30V) 05 - 1	1001.51 TEST P -1Q02 1R02 1Q15 R15 -1Q31 231 - 1T05 V13	CAPD T MCC (SF IR 19- MCC (U IR 28 IR 31 IT 16 IQ 29 IQ 29	O ACK WIPE JI B)-IR22 IR21 M3)-IR26 -IQ10 -IQ10 -IQ10 -IQ29 X-IQ29 X-IQ29 X-IQ29	POT AI	11 - 1 11 - 1 12 - 2 12 - 2	IRII V21 IVII ITII IT25 IQ12 -1Q27	X	INDIC/ SP2- SP3 SP4 SP5 SP6 SP7	- 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17	23 <u>714</u> <u>703</u> <u>703</u> <u>714</u> <u>7816</u>		
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 21 - 53 20 - 52 19 - 51 18 - 50 17 - 49 16 - 46 15 - 47	AS SEE	$ \frac{32}{32} - 32x}{31 - 31x} \\ 30 - 30x}{29 - 29x} \\ 20 - 20x}{20 - 20x} \\ 27 - 27x} \\ 26 - 26x} \\ 25 - 25x} \\ 24 - 24x} \\ 23 - 23x} \\ 22 - 22x} \\ 21 - 21x} \\ 20 - 20x} \\ 19 - 19x \\ 18 - 18x \\ 17 - 17 \\ 16 - 16 \\ 15 - 15 $		RTB IC RTB( IQ RTB IQ RTB IQ	(-20V) (07)- (0M)- (15-1 (+20V) 31-1K (-30V) 05 - 1	1001.51 TEST P -1Q02 1Q02 1Q15 R15 -1Q31 231 - 1T05	CAPD T MCC (SF IR 19- MCC (U IR 28 IR 31 IT 16 IR 29 IR 2			$\frac{22}{25 - 1}$ $\frac{25 - 1}{21 - 1}$ $\frac{11 - 1}{121 - 1}$ $\frac{11 - 1}{212x - 1}$ $\frac{212x - 1}{230 - 1}$	IRII V21 IVII ITII IT21 IT25 IQ12 - IQ27 - IV2	X X K	INDIC/ SP2- SP3 SP4- SP5 SP6 SP7 2TB ( SP11-	- 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17	23 TI4 TO3 V03 V14 V23 TB16 229		
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 21 - 53 20 - 52 19 - 51 10 - 50 17 - 49 16 - 46 15 - 47 14 - 40	AS SEE	$ \frac{32}{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}{18 - 18}{17 - 17}{16 - 16}{15 - 15}{14 - 14} $		RTB IC RTB( IQ RTB IQ RTB IQ	(-20V) (07)- (0M)- (15-1 (+20V) 31-1K (-30V) 05 - 1	1001.51 TEST P -1Q02 1R02 1Q15 R15 -1Q31 231 - 1T05 V13	CAPD T MCC (SF IR 19- MCC (U IR 28 IR 31 IT 16 IR 29 IR 2			$\frac{22}{25 - 1}$ $\frac{25 - 1}{21 - 1}$ $\frac{11 - 1}{121 - 1}$ $\frac{11 - 1}{212x - 1}$ $\frac{212x - 1}{212x - 1}$ $\frac{212x - 1}{212x - 1}$	IRII V21 IVII IVII IT21 IT25 IQ12 -1Q2 -1Q2 -1Q2	X 	INDIC/ SP2- SP3 SP4- SP5 SP6 SP5 SP6 SP7 2TB ( SP11- SP12	- 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17	23 14 103 14 103 14 123 1816 229 229 225		
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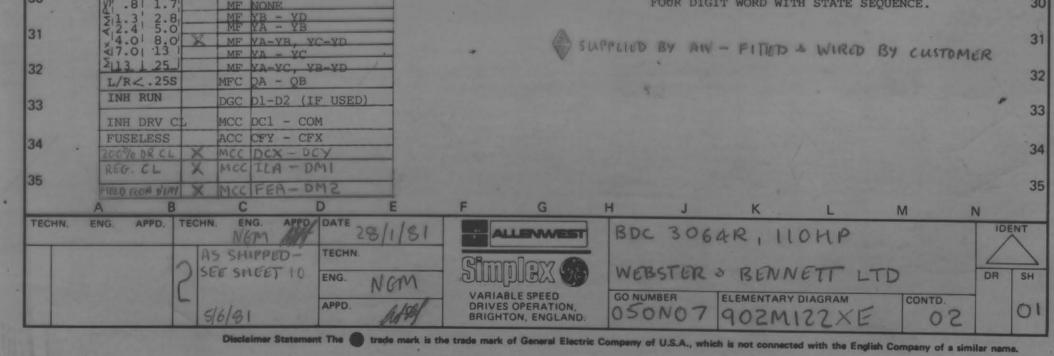
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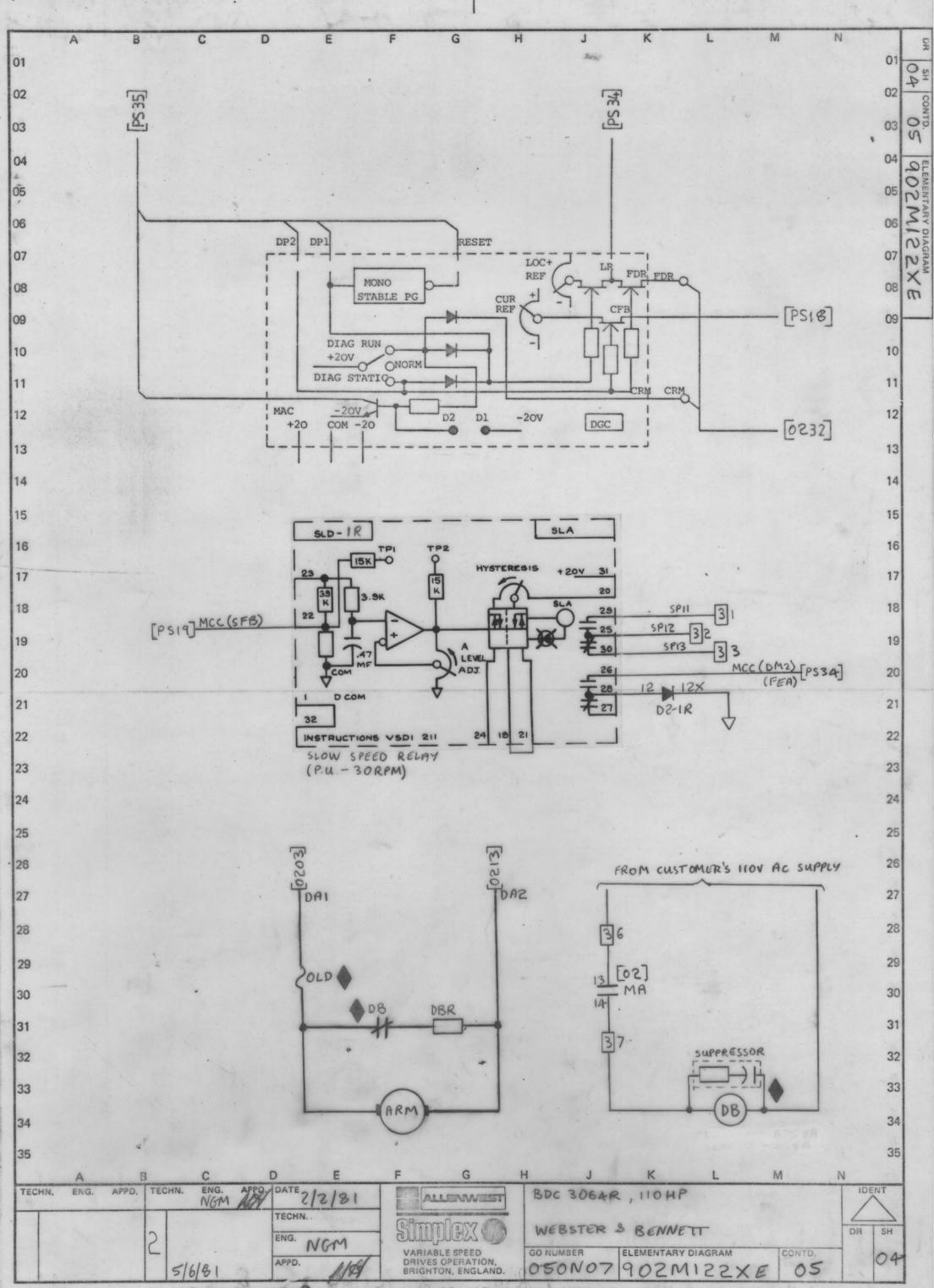
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10		$VO = \frac{-R2}{R1}$ VI		V	$TO = (1 + \frac{R2}{R1}) VI$			IMET	C	URRENT SIGNAL FO	R METER (	10)		10
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11		± 07	ASE G	ROUNE			*	LR	L	OCAL REF. FROM D	GC ( 33)			11
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1.6		103					*	MAC		AX/MA CONTROL SI		)		12
100		Y 51	CAB C	N TEF	RMINAL			MSW		ODE SWITCH ( 30	)			1 Carlos
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15		FX PC	TENT	IOMET	TER ARROWS ON THE CARD			RIJ		NTEGRATOR SUMMIN				15
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16		W	PER	DIREC	TION AS THE POTENTIOM	ETER		RRA		EGULATOR RESPONS	E ADJUST (	30)	1	16
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17		FU	INCTI	ON.			*	RUN		EADY TO RUN ( 1 UN SWITCH INPUT				17
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18		TH A	IESE	RESIS	STORS ARE CRIMPED IN W	IRE	*	SFB		PEED FEEDBACK (				10
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10			12.00		and the second		*	SR		YSTEM REFERENCE			1	
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20			Part 1	FIEC	CA-2B (IF USED)			TF		ACHO FAULT (NS28		- ( 20)	1	20
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00		9 - 20v		MCC	SRH - COM									
23		JOGR LOV	1	1	(NONE)		(	* - TES	ST POI	NT ON DOOR FRONT	)		7	23
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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
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00		AC TACHO	X	MCC	ATI - AT2			(ND) F	5/15/	NS - NEXT SH				1 1 2 1 1
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27		24-64vdc			NT-NTI PT - PTI	HENCE (PS - 12)	DEN	MPED IN	CATION	ON PAST SHEET	UINE 12.	OTHER LOCA	TIONS AR	7
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28		60-160vdc		IFC	NT-NT2 PT - PT2	1A, LINE 16 ETC	•	NOTE :	TH	FIELD EFFECT TR	ANSISTOR	THE *		0
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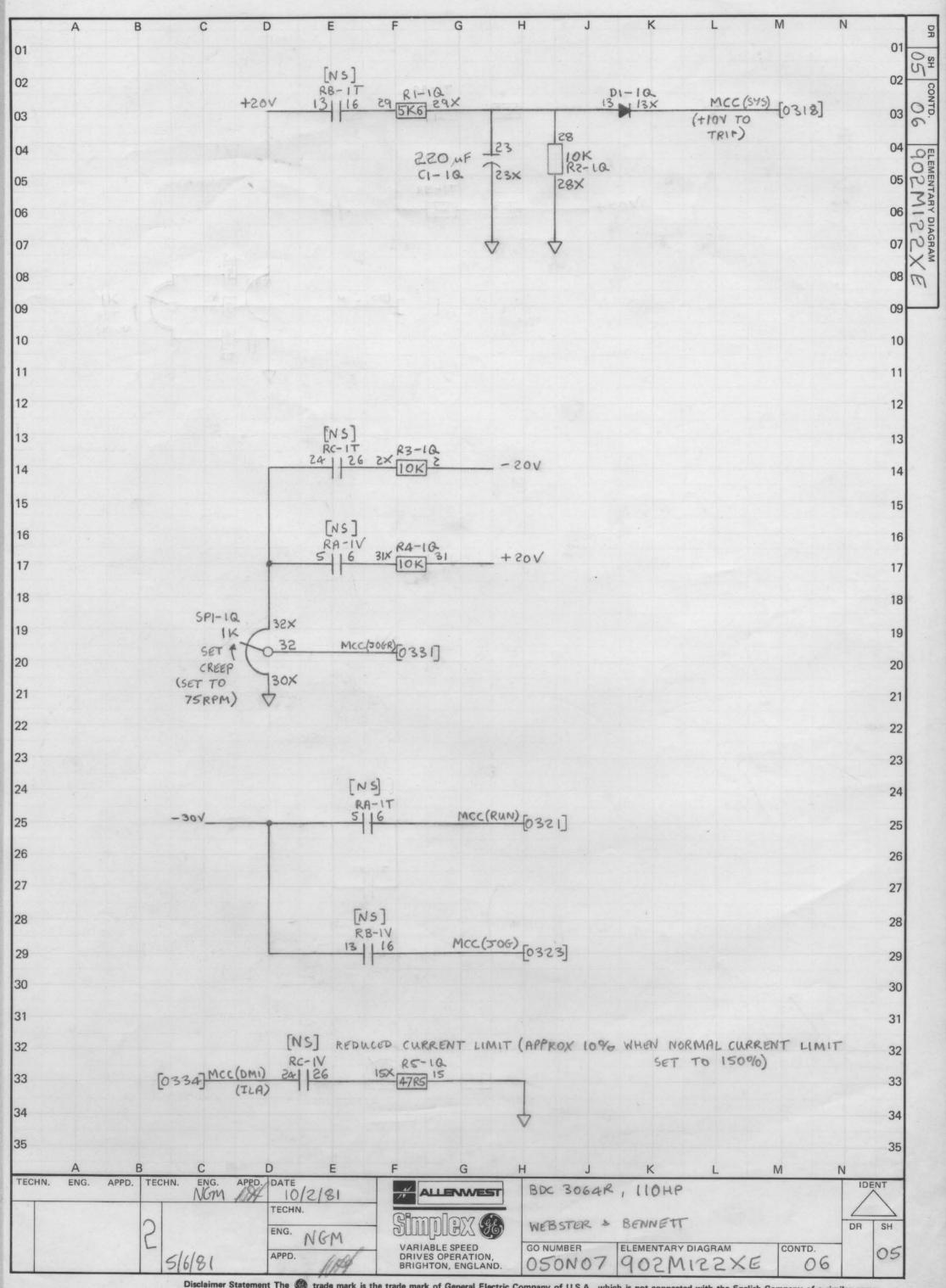
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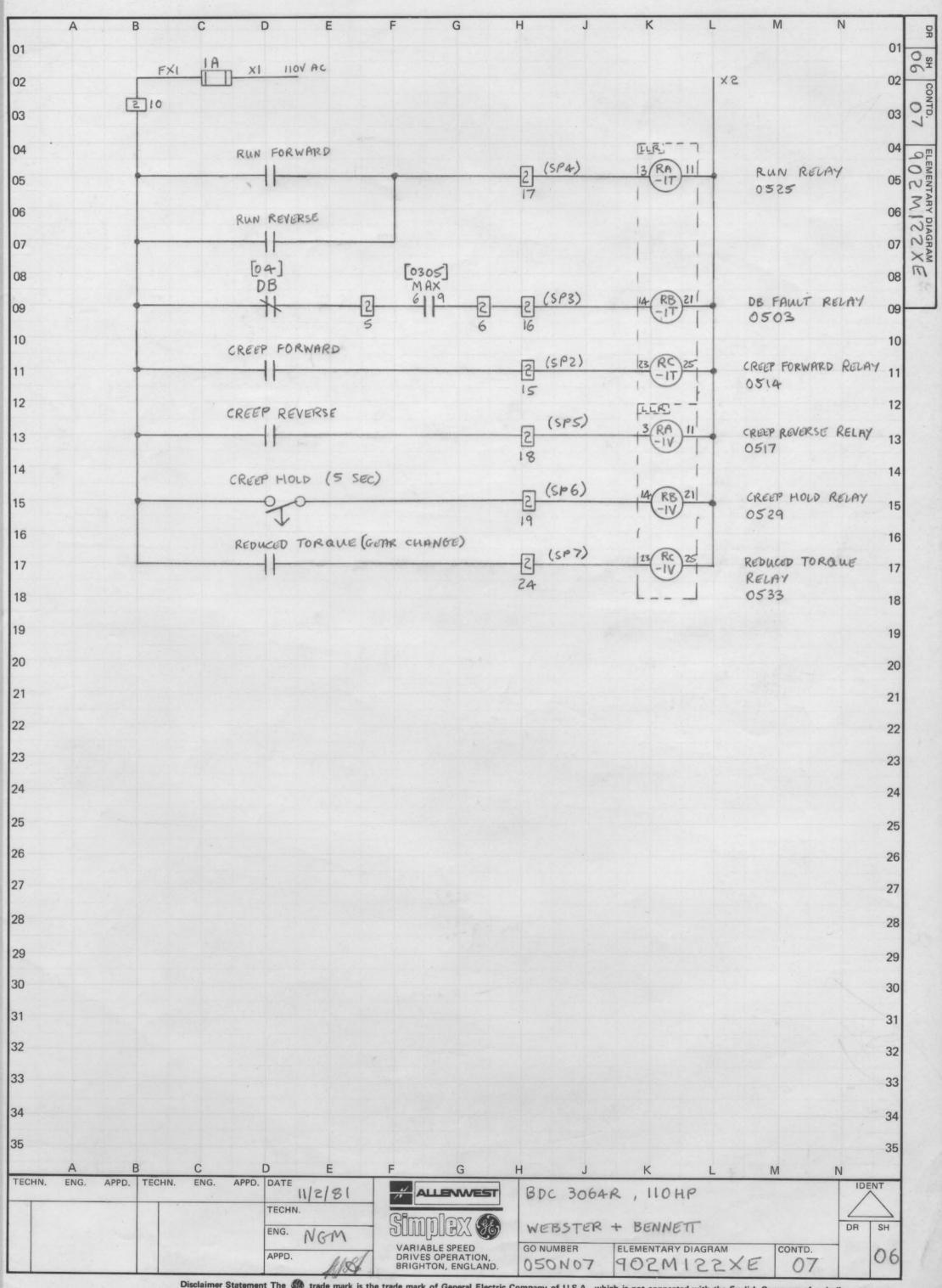
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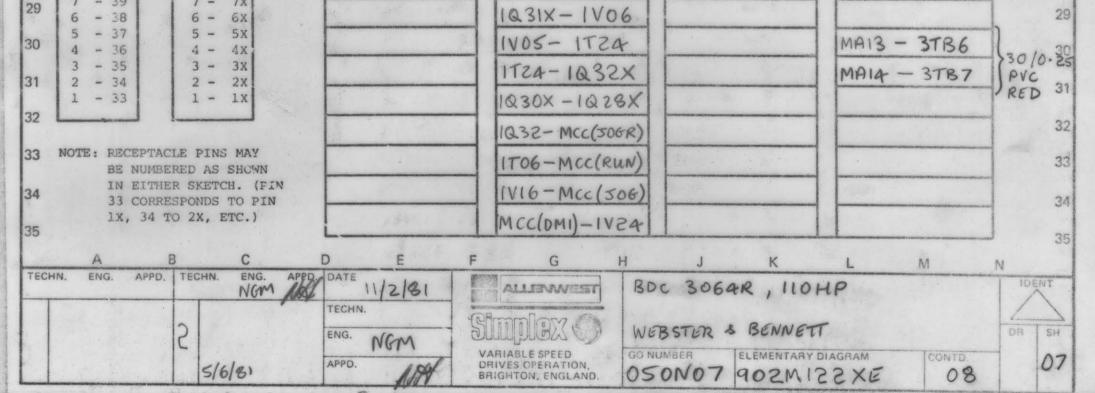


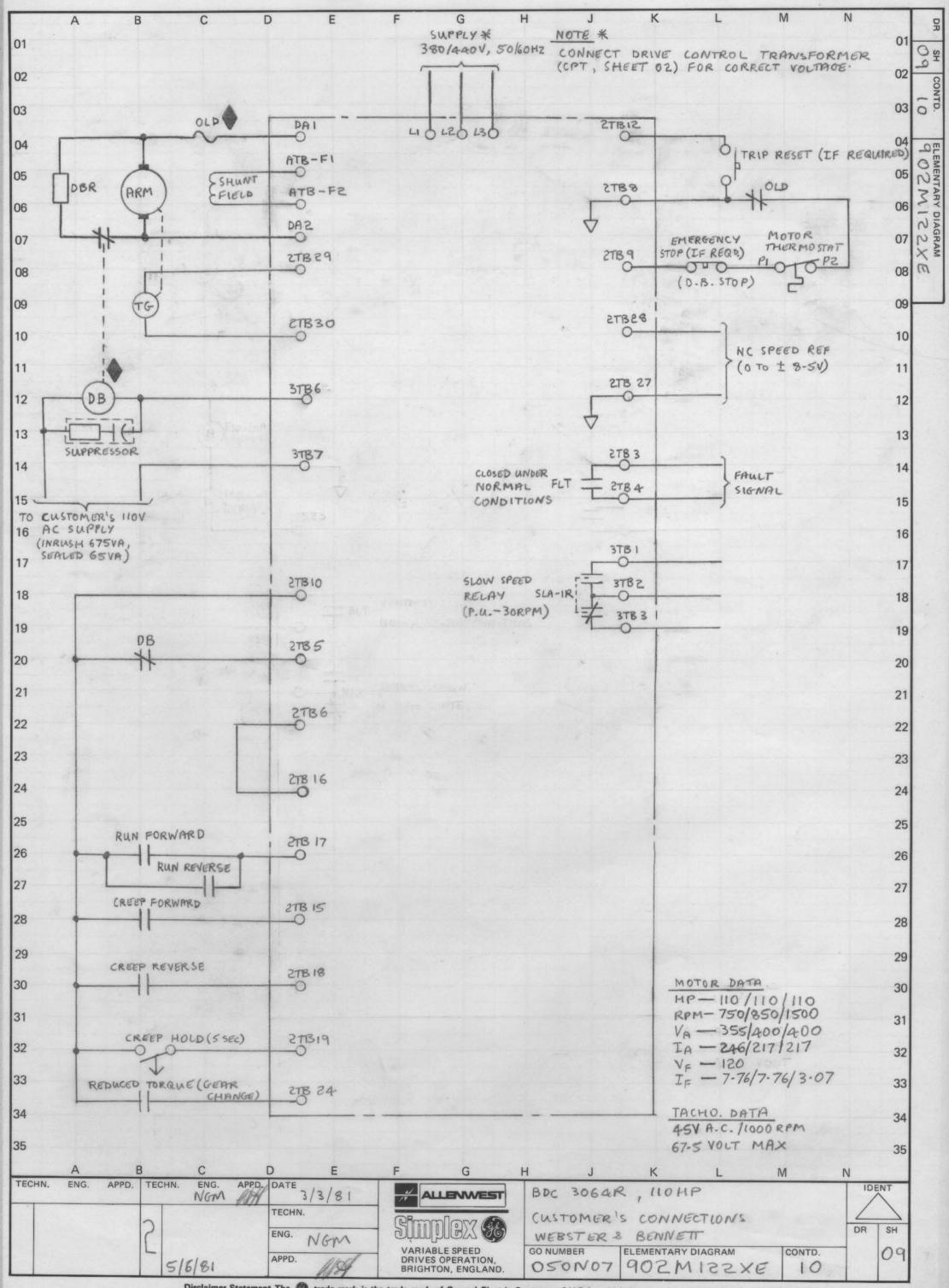


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332222222222222222222222222222222222222	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{r} 31 \\ 30 \\ - \\ 29 \\ - \\ 28 \\ - \\ 28 \\ - \\ 28 \\ - \\ 28 \\ - \\ 26 \\ - \\ 26 \\ - \\ 23 \\ - \\ 22 \\ - \\ 21 \\ - \\ 20 \\ - \\ 19 \\ - \\ 18 \\ - \\ 17 \\ - \\ 16 \\ - \\ 15 \\ - \\ 14 \\ - \\ 13 \\ - \end{array}$	31x 30x 29x 28x 27x 26x 25x 24x 25x 24x 23x 22x 21x 20x 19x 18x 17x 16x 15x 14x 13x	IC RTB IC RTB IQ RTB ITC	202 - 1R (0M) - 16 15 - 1R (+20v) - 1 31 - 1R3 (-30v) - 1 05 - 1V1	QOZ OZ IF QIS M IS I I I I I I I I I I I I I	CARD RACK I ACC (SFB) - R19 - IR ACC (DM2) - R28 - I( R31 - I T16 - I( Q29 X - Q28 - I Q28 - I Q28 - I	NIRE JUMI 1R22 21 -1R26 212 T13 229 1028 023 Q13 Q23X	IV25 IV25 IV21 IV11 IT11 IT11	$ \frac{10}{-10} = 1000 = 100 = 1000 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = $	15X 21 11 11 21 25	SP2- SP3 SP4 SP5 SP6 SP6 SP7 2TB SP11- SP12	- IT23 - ITI - ITI - ITI - ITI - ITI 6- 2TI 6- 2TI - IR2 - IR2	3 4 3 14 23 8 16 9 25
S S S S S S S S S S S S S S S S S S S	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{c} 31 \\ 30 \\ - \\ 29 \\ - \\ 28 \\ - \\ 28 \\ - \\ 28 \\ - \\ 26 \\ - \\ 25 \\ - \\ 26 \\ - \\ 25 \\ - \\ 26 \\ - \\ 22 \\ - \\ 20 \\ - \\ 20 \\ - \\ 19 \\ - \\ 10 \\ - \\ 15 \\ - \\ 14 \\ - \\ 13 \\ - \\ 12 \\ - \\ 11 \\ - \\ 11 \\ - \end{array}$	31x 30x 29x 28x 27x 26x 25x 24x 23x 22x 21x 20x 19x 18x 17x 16x 15x 14x 13x 12x 11x	IC RTB IC RTB IQ RTB ITC	202 - 1R (0M) - 16 15 - 1R (+20v) - 1 31 - 1R3 (-30v) - 1 05 - 1V1	QOZ OZ IF QIS M IS I I I I I I I I I I I I I	CARD RACK I ACC (SFB) - R 19 - 1R ACC (DM2) - R 28 - 10 R 28 - 10 R 29 - 10 Q 29 X - 10 Q 23 X - 10	NIRE JUMI 1R22 21 -1R26 212 T13 229 1028 023 013 015	IV25 IV25 IV21 IV11 IT11 IT11	$ \frac{10}{-10} = 1000 = 100 = 1000 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = $	15X 21 11 11 21 25	SP2- SP3 SP4 SP5 SP6 SP6 SP7 2TB SP11- SP12	- IT23 - ITI - ITI - ITI - IV0 - ITI - IT 6- 2TI - IR2	3 4 3 14 23 8 16 9 25
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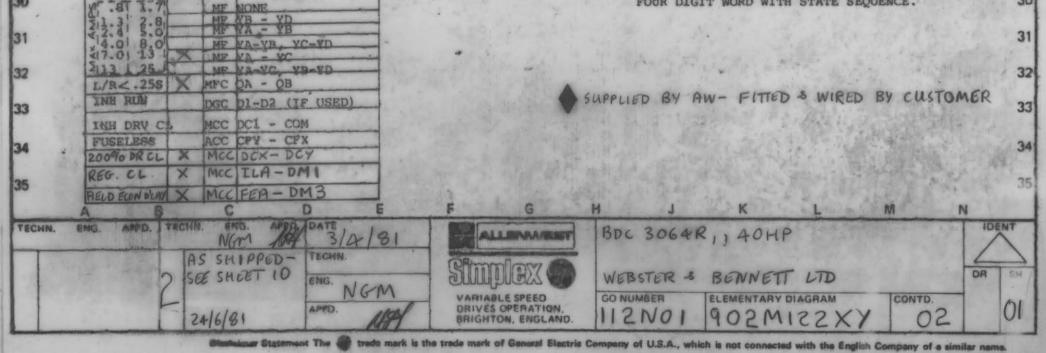


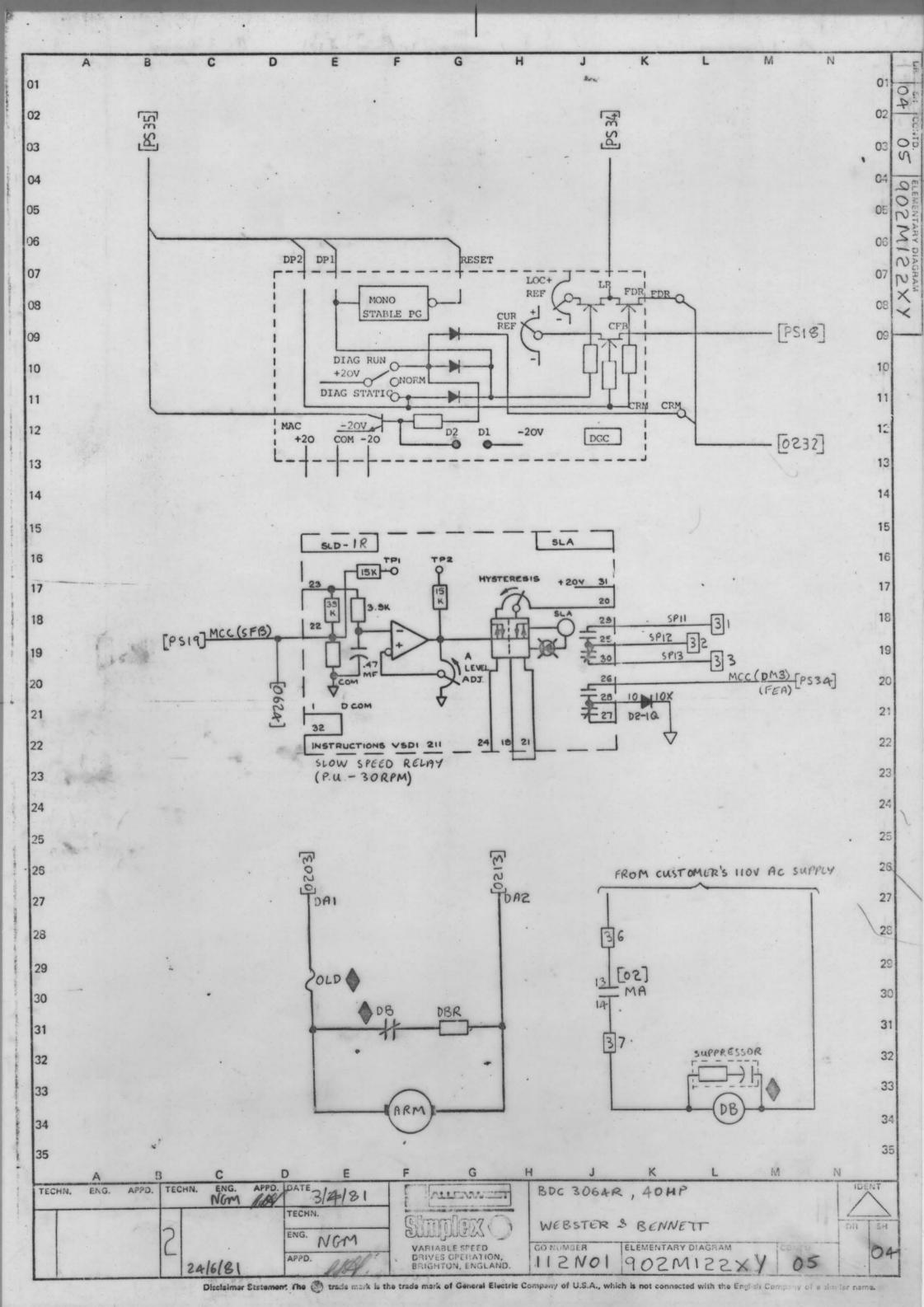


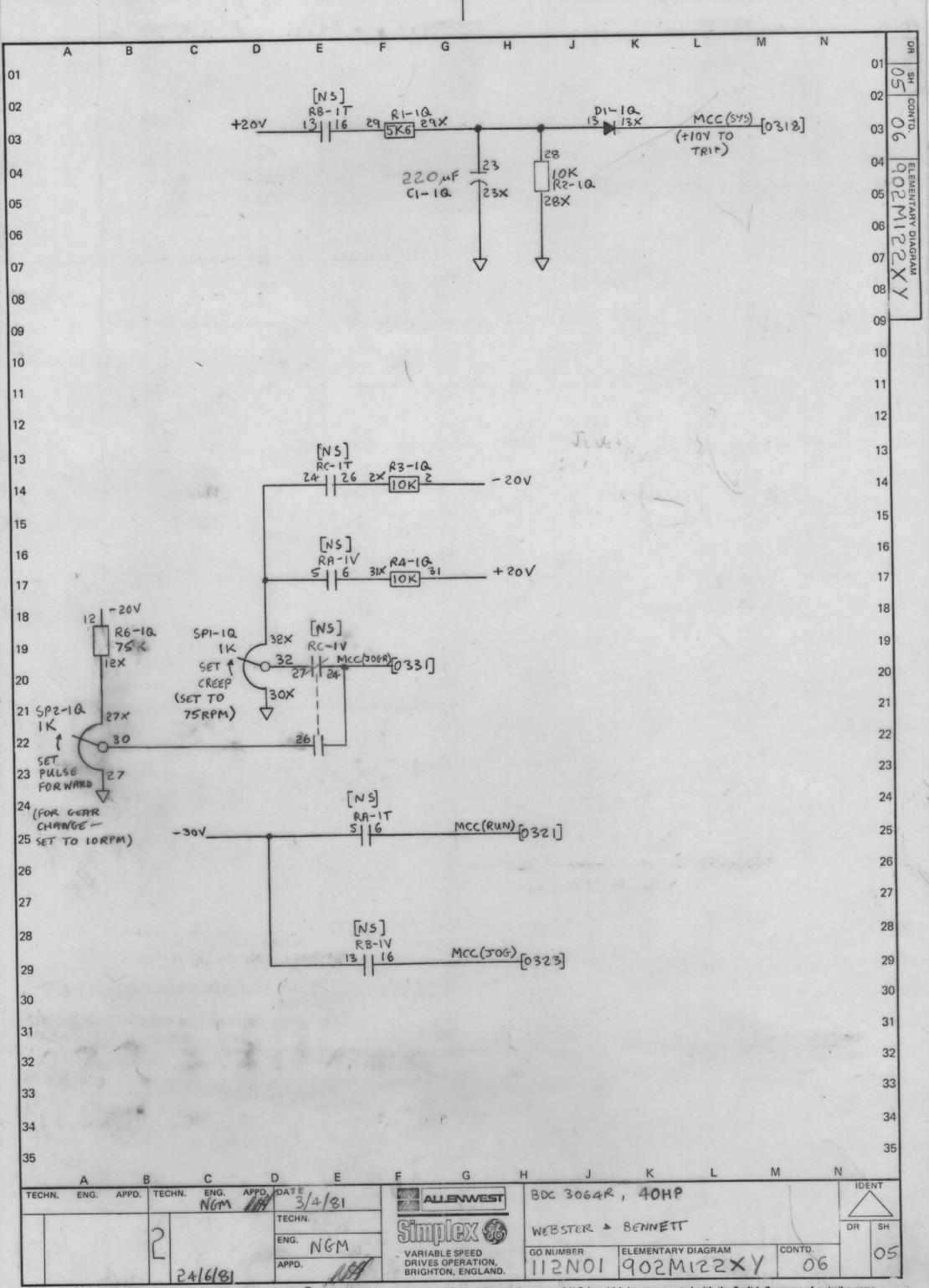
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YMBOLS MUPLIFIERS.		* FC	FIELD CURRENT (NS26)	
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O TERMINAL AT T.B.'s		ØSEQ	PHASE SEQUENCE (14) RECILLATOR ERROR (27)	A States
	一、自己的时候,他们已经有些意义。	ØSEQ RERR RIJ	PHASE SEQUENCE (14) REGULATOR ERROR (27) INTEGRATOR SUMMING JUNCT	ION ( 27)
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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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FUNCTION USE LOC JUMP GONS MFC ZA-ZB ( 300% IFC I - IHI 300% IFC I - IHI SR5 - 9V X NONE)	WS ON THE CARD IS INDICATE THE THE POTENTIONETER LOCKWISE TO INCREASE LE CRIMPED IN WIRE	RERR RIJ RJ RJ RRA RSET * RTR * RUN * SA-C * SFB SMET * SFB SMET * SFB SMET * SFB SMET * SFB SMET * TFB TFF * TFB TFR * TR	REGULATOR ERROR ( 27) INTEGRATOR SUMMING JUNCTION REGULATOR SUMMING JUNCTION REGULATOR RESPONSE ADJUST RESET ( 16) READY TO RUN ( 16) RUN SWITCH INPUT ( 21) PHASE SYN OUTPUT ( 16) SPEED FEEDBACK ( 20) SPEED FEEDBACK ( 20) SPEED SIGNAL FOR METER ( SYSTEM REFERENCE INPUT ( SYSTEM FAULT TRIP ( 13) OUTPUT FOR TACHO TRIP ADJUT TACHO FAULT (NS28) TACHOMETER FEEDBACK ( 20) AC TACHO FREQUENCY OUTPUT TIMED REFERENCE ( 33) VOLTAGE FEEDBACK ( 19)	DN ( 31) r ( 30) 12) 29) JUST ( 20) D)
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FOTENTIOMETER ARRO         ELEMENTARY DIAGRAM         WIPER DIRECTION AS         SHAFT IS ROTATED C         PUNCTION.         THESE RESISTORS AR         HARNESS.         FUNCTION         SONE         LOC       JUMP         SONE       MFC         SONE       MFC         JOC-4004       X         MFC       JUMP         JOC-4004       X         JOGR IOV       (NONE)         JOGR IOV       (NONE)         JOGR IOV       (NONE)	WS ON THE CARD S INDICATE THE THE POTENTIOMETER LOCKWISE TO INCREASE RE CRIMPED IN WIRE RE CRIMPED IN WIRE RES IF USED) HA M M M M M M M M M M M M M M M M M M	RERR RIJ RJ RJ RRA RSET RTR RUN SA-C SFB SMET SFB SMET SFB SMET SFB TFR TFF TFB TFR TFR TFR TFR TFR TFR TFR TFR TFR TFR	REGULATOR ERROR ( 27) INTEGRATOR SUMMING JUNCTION REGULATOR SUMMING JUNCTION REGULATOR RESPONSE ADJUST RESET ( 16) READY TO RUN ( 16) RUN SWITCH INPUT ( 21) PHASE SYN OUTPUT ( 16) SPEED FEEDBACK ( 20) SPEED FEEDBACK ( 20) SPEED SIGNAL FOR METER ( SYSTEM REFERENCE INPUT ( SYSTEM REFERENCE INPUT ( SYSTEM FAULT TRIP ( 13) OUTPUT FOR TACHO TRIP ADA TACHO FAULT (NS28) TACHOMETER FEEDBACK ( 20) AC TACHO FREQUENCY OUTPUT TIMED REFERENCE ( 33) VOLTAGE FEEDBACK ( 19) WEAK FIELD REFERENCE ( 32) TIMED REFERENCE ( 33) VOLTAGE FEEDBACK ( 19) WEAK FIELD REFERENCE ( 32) VOLTAGE FEEDBACK ( 19) WEAK FIELD REFERENCE ( 32) TIMED REFERENCE ( 33) VOLTAGE FEEDBACK ( 19) WEAK FIELD REFERENCE ( 32) TIMED REFERENCE ( 33) VOLTAGE FEEDBACK ( 19) WEAK FIELD REFERENCE ( 32) VOLTAGE FEEDBACK ( 19) WEAK FIELD REFERENCE ( 32) TIMED REFERENCE ( 13) VOLTAGE FEEDBACK ( 19) WEAK FIELD REFERENCE ( 11) TIMED REFERENCE ( 10) TIMED REFERENCE (	DN ( 31) r ( 30) 12) 29) JUST ( 20) D) r ( 13) 20) r ( 13) 20) R ( 13) 20) R ( 13) 20) R ( 13) 20) R ( 13) 20) Contractions as a second se

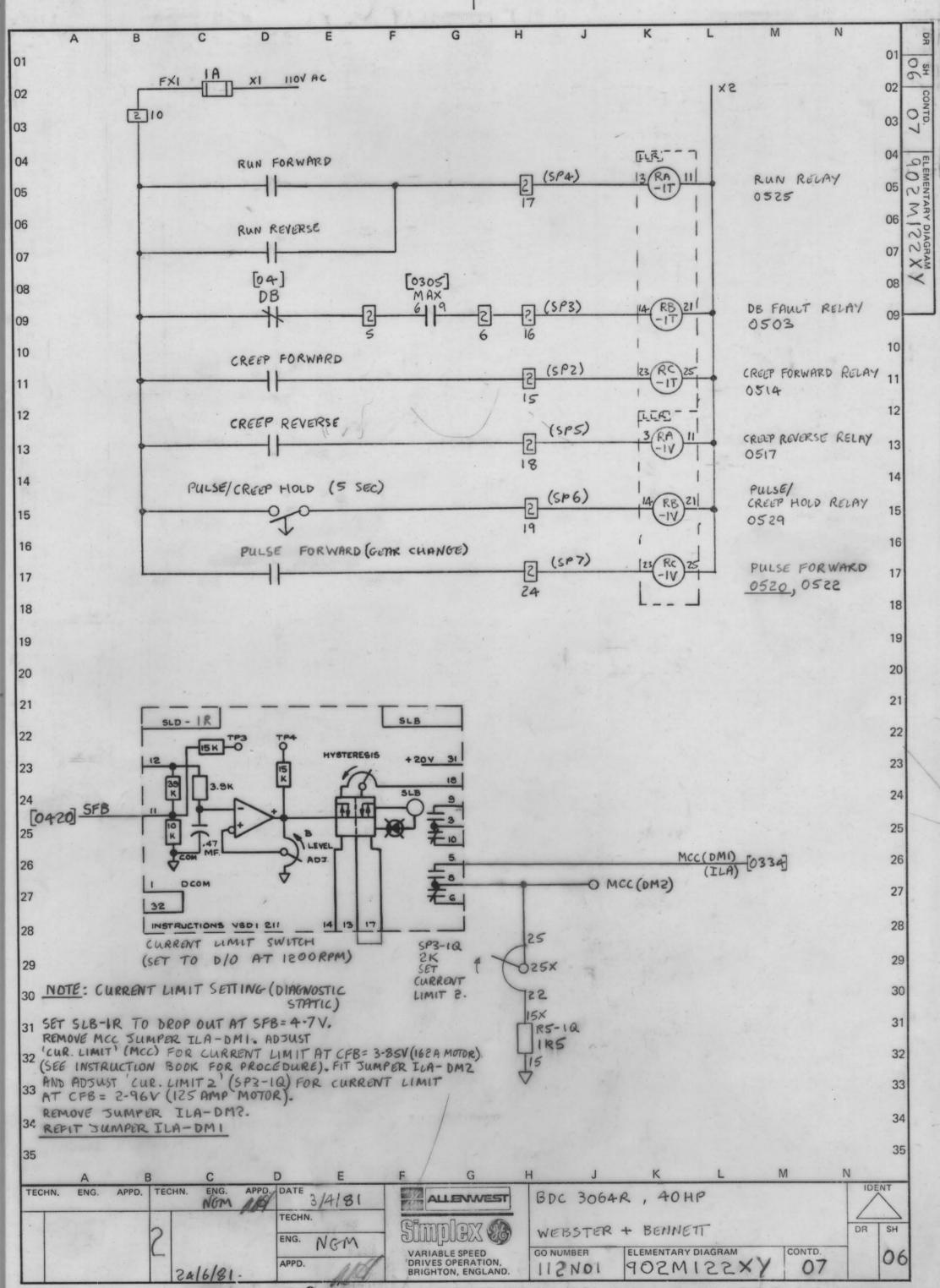
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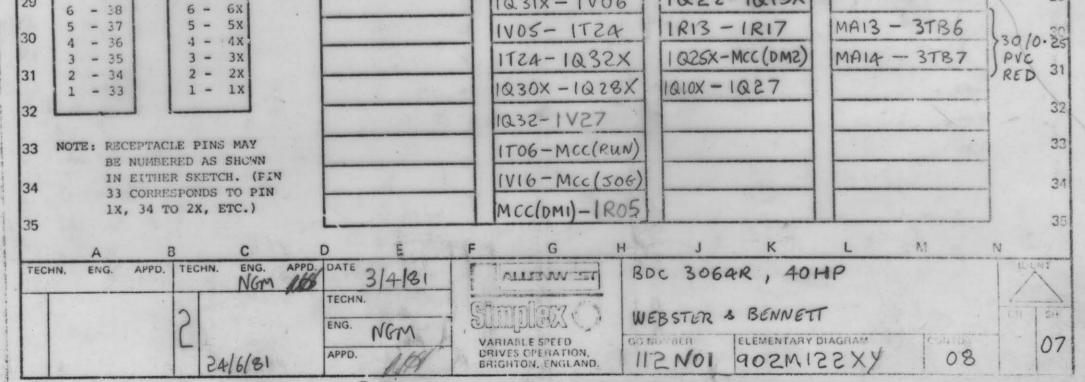


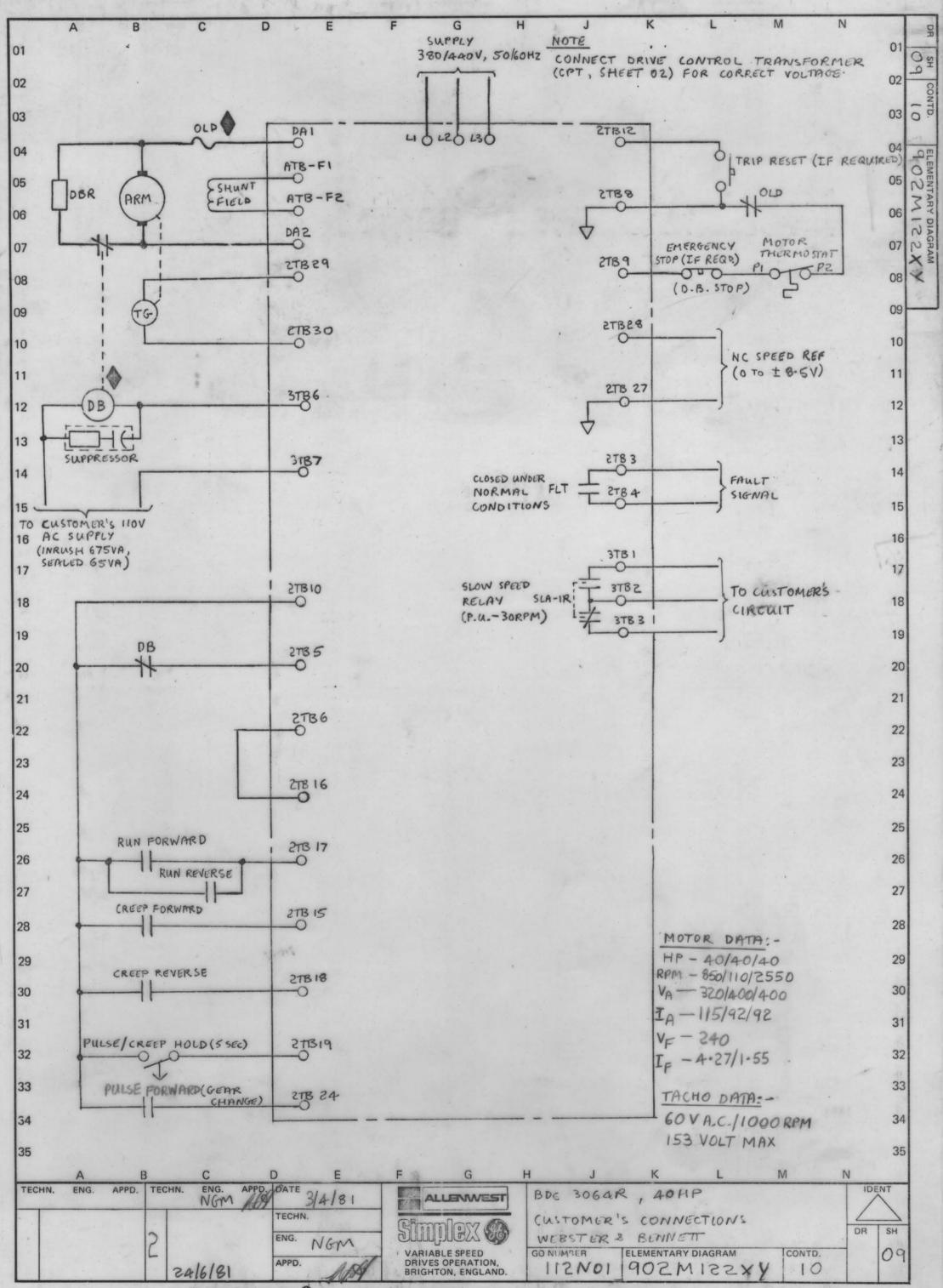
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ALL CARDS A FRONT VIEW RECEPTACLE IN RACK CLA POSITION. 32 - 64 31 - 63 30 - 62 29 - 61 28 - 60 27 - 59 26 - 58 25 - 57	AFTER REMOVAL OF 64 PIN AS SEEN OSED 32 - 32x 31 - 31x 30 - 30x 29 - 29x 28 - 28x 27 - 27x	WHICH WILL UNTIL THESE	BE THERMAL PARTS 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

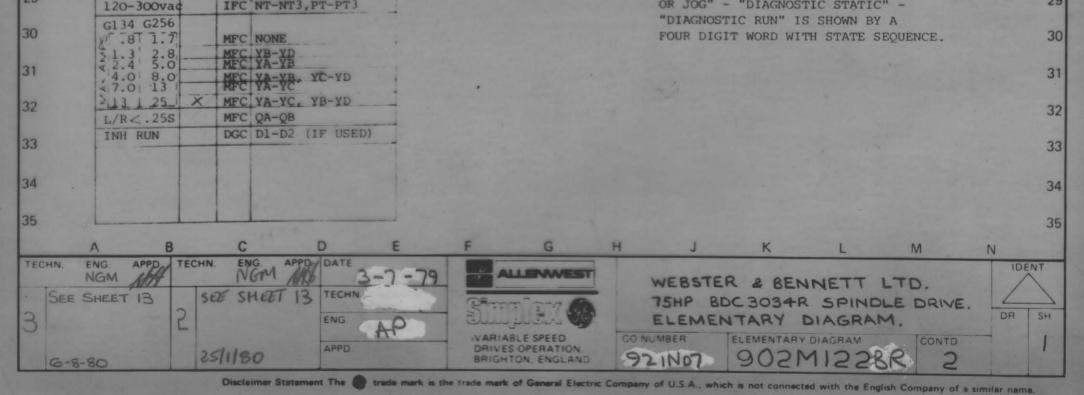


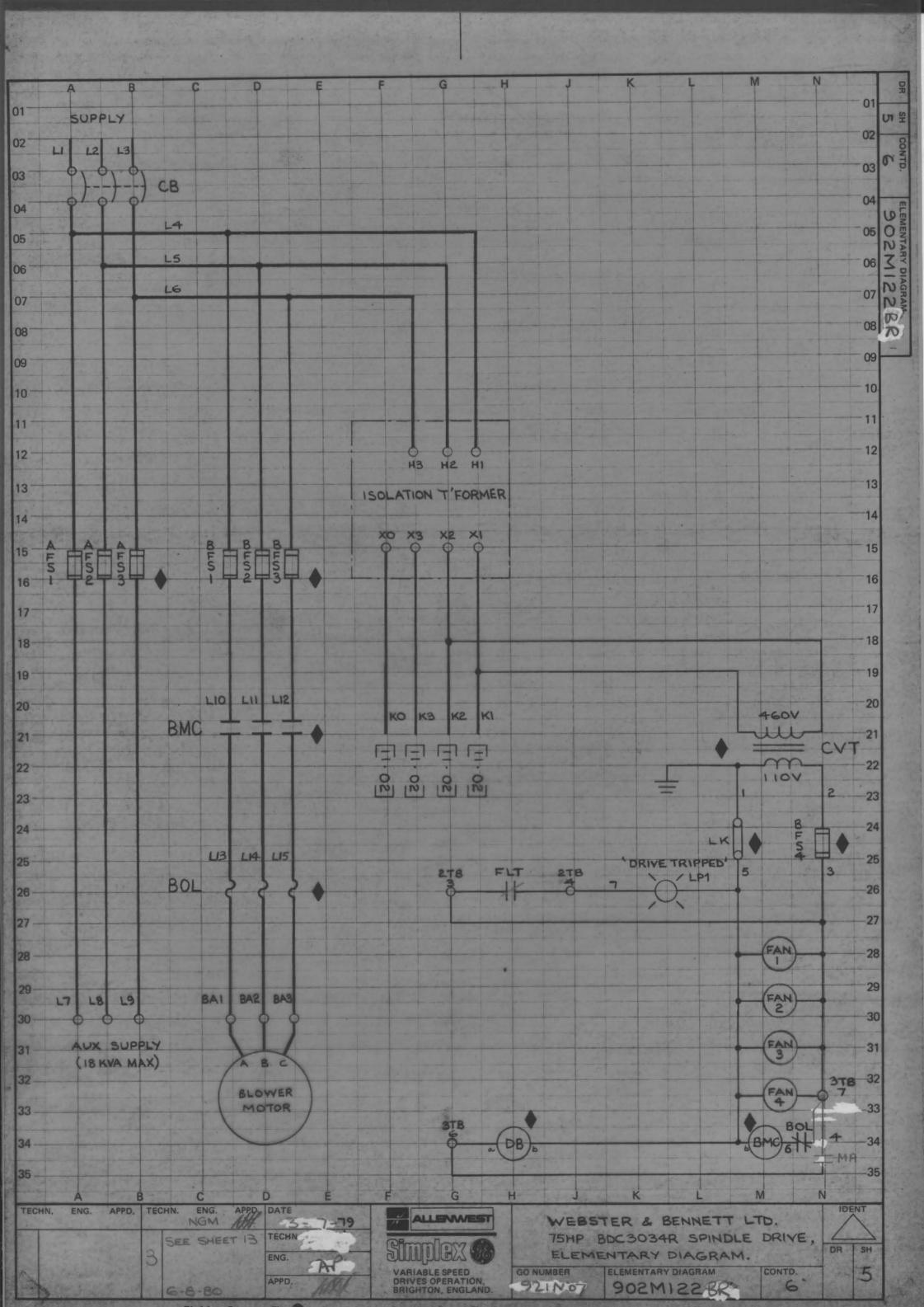


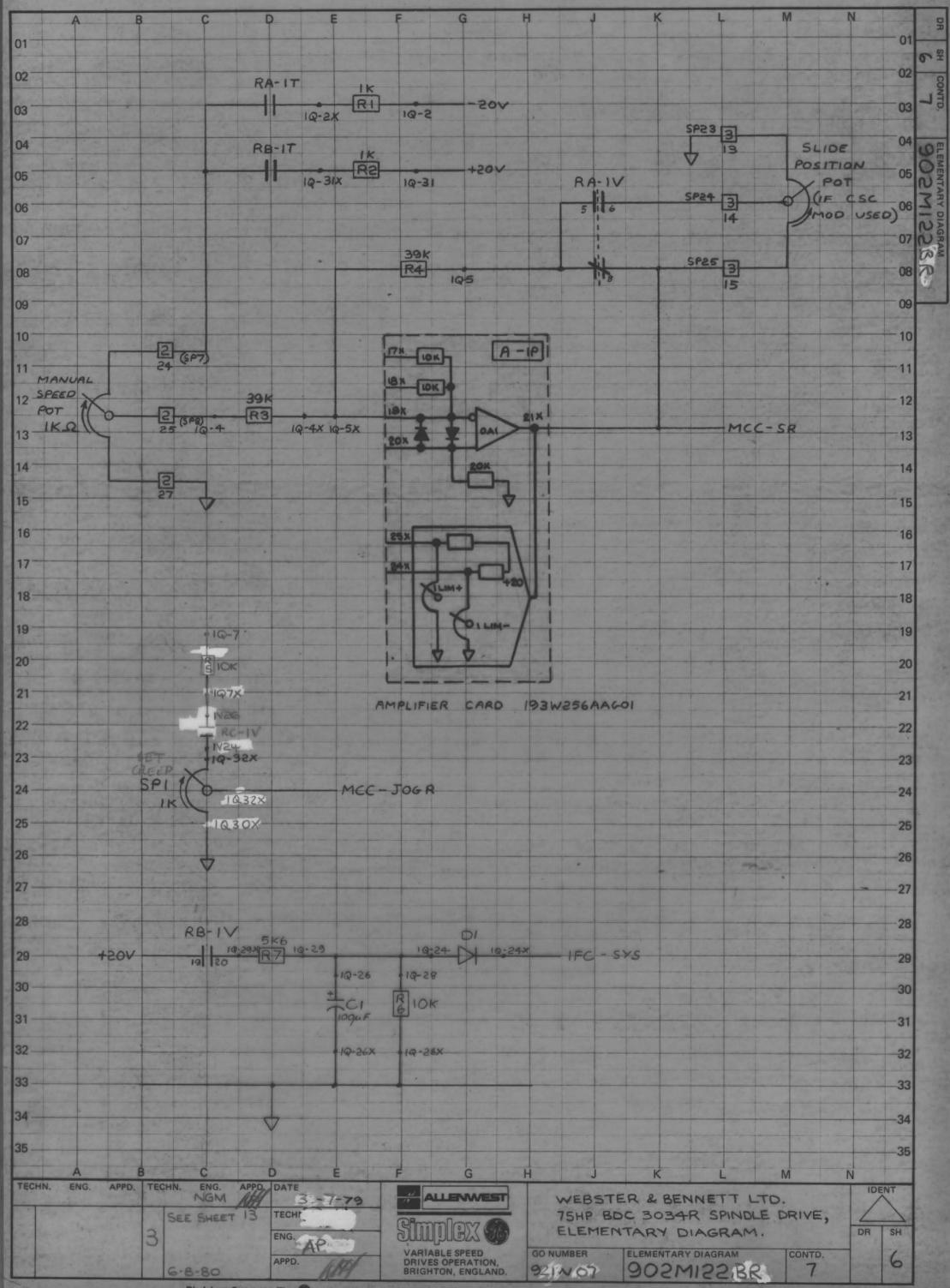
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A B C D E F	G	н	J K L M N	
				01
VOLTAGE POLARIES SHOWN ARE FOR MOTORING DA1(+)		SIGNAL DE	FINITIONS AND LOCATIONS	02
HARDWARE ABBREVIATIONS				
				03
MCC MAIN CONTROL CARD IFC INTERFACE CARD		* CEMF	COUNTER EMF (3-16)	04
PSC POWER SUPPLY CARD		* 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

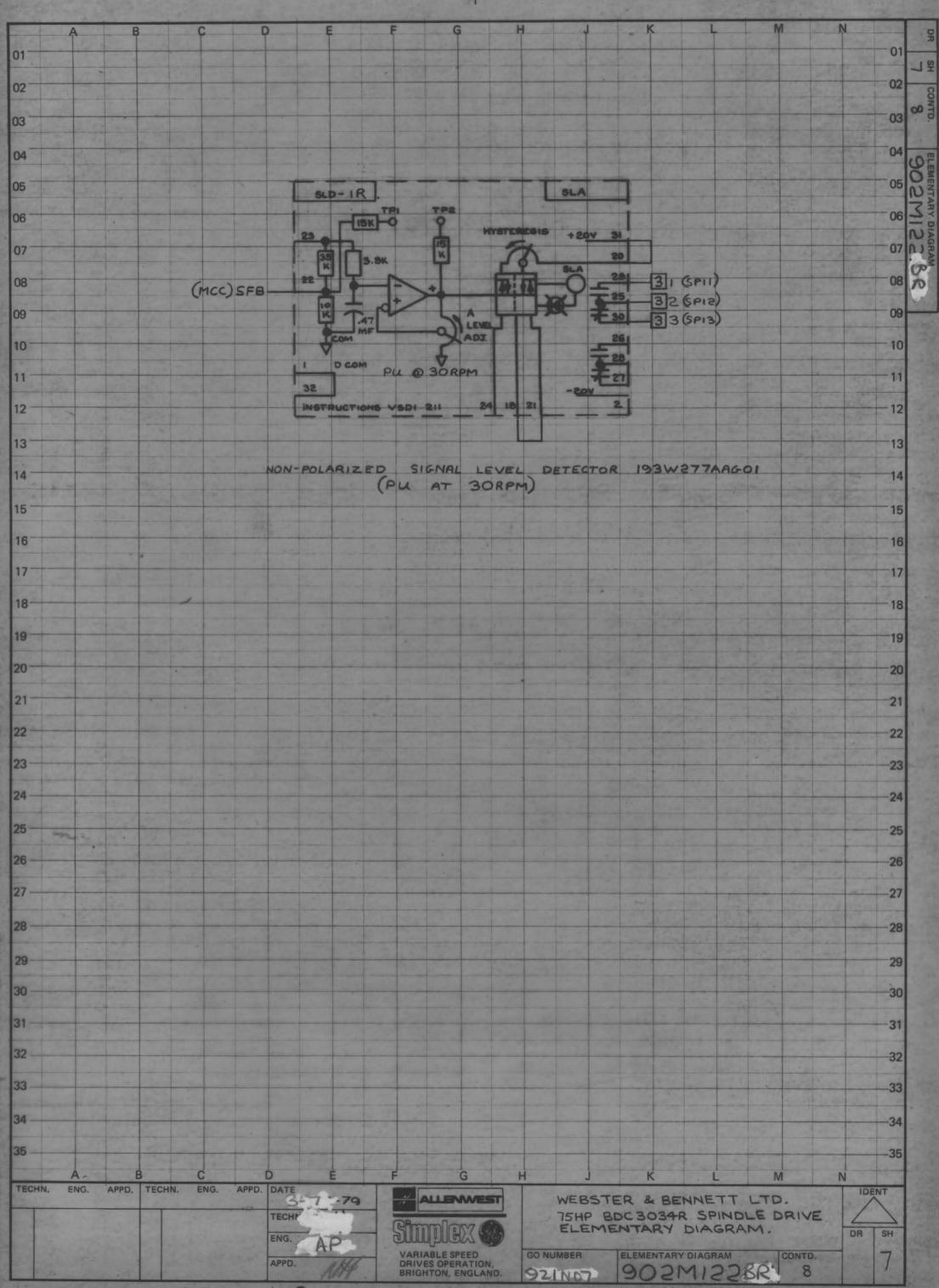
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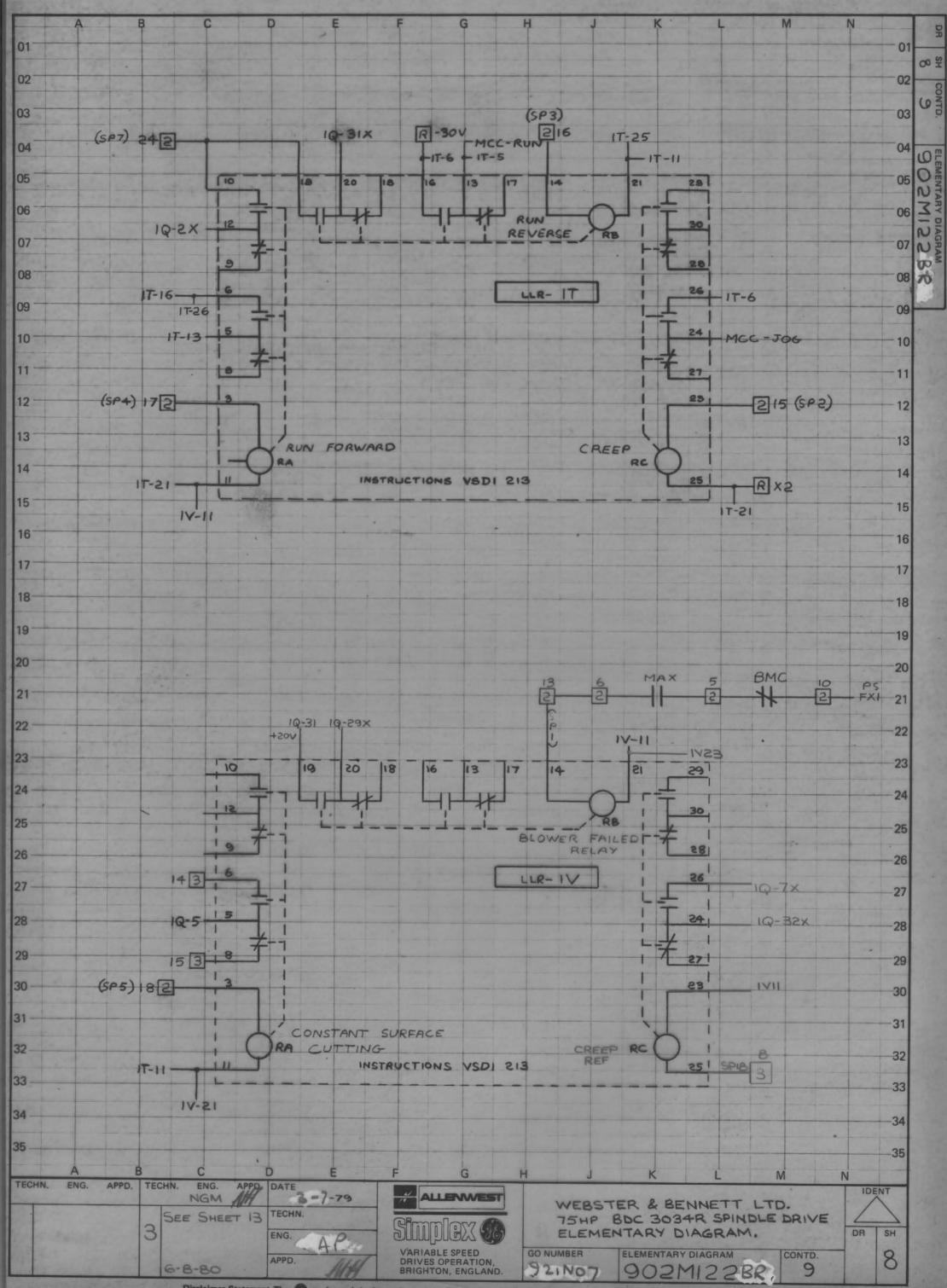




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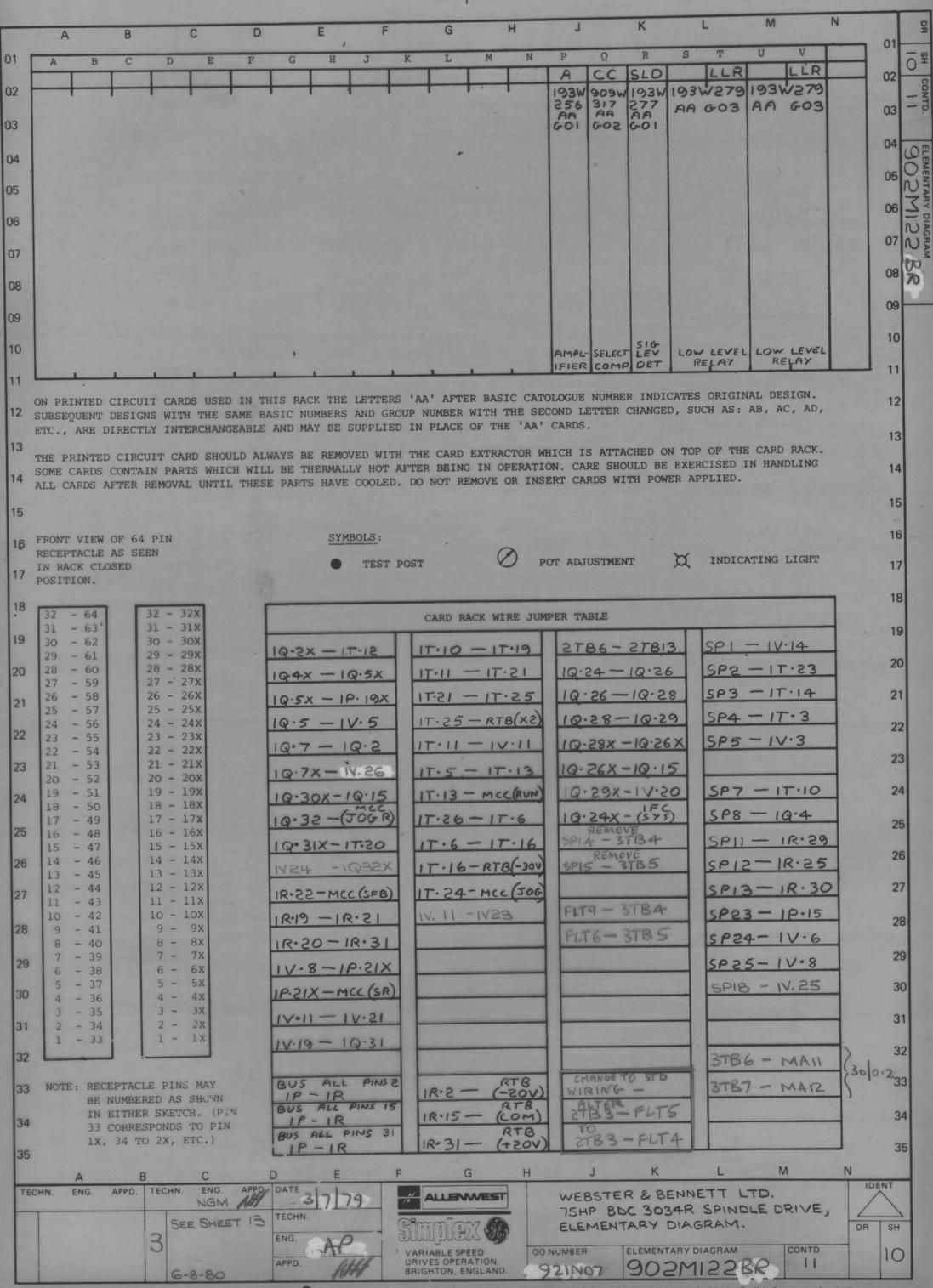


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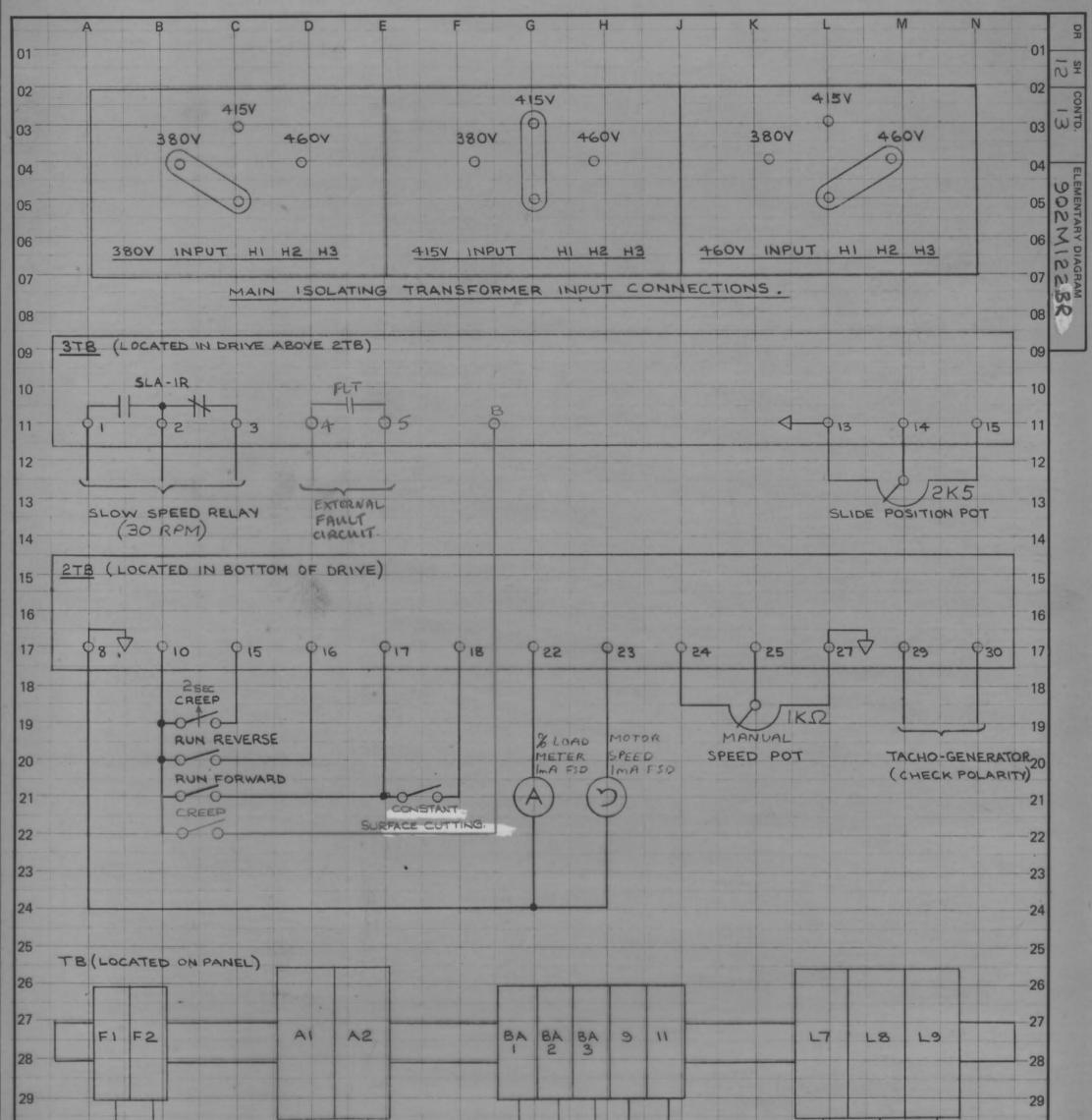
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175/75HP 240V FIZ	ov O B	REUIT			
350/2550	ELD ATB-XO				
1/MIN [04-28]	DAI				
	27829				(
	0				
REV/MIN					(
	278 30				
			27810		1
12	FXI				1
	RB-IV	RC-IT		REEP   RUN / RUN	7
+ 844	278 13	X2	2TB 15	RVSE FWD	
+ BMC +					
	2787	RB-IT	OTOIC		1
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
			0		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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		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

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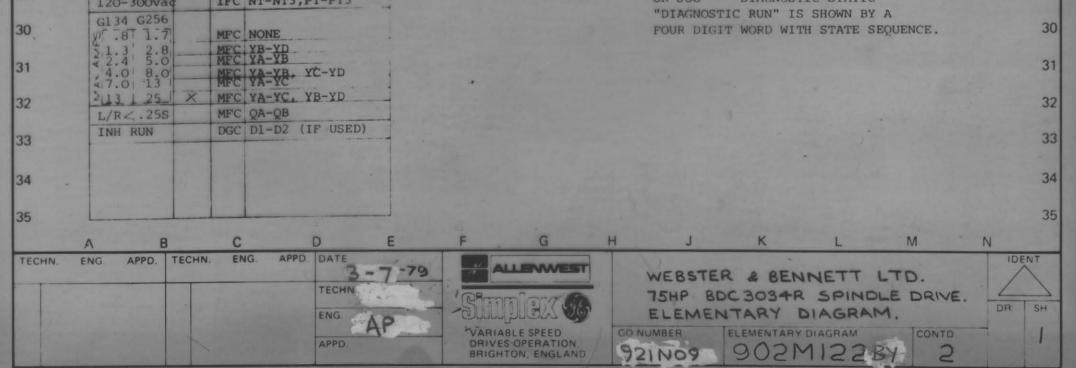
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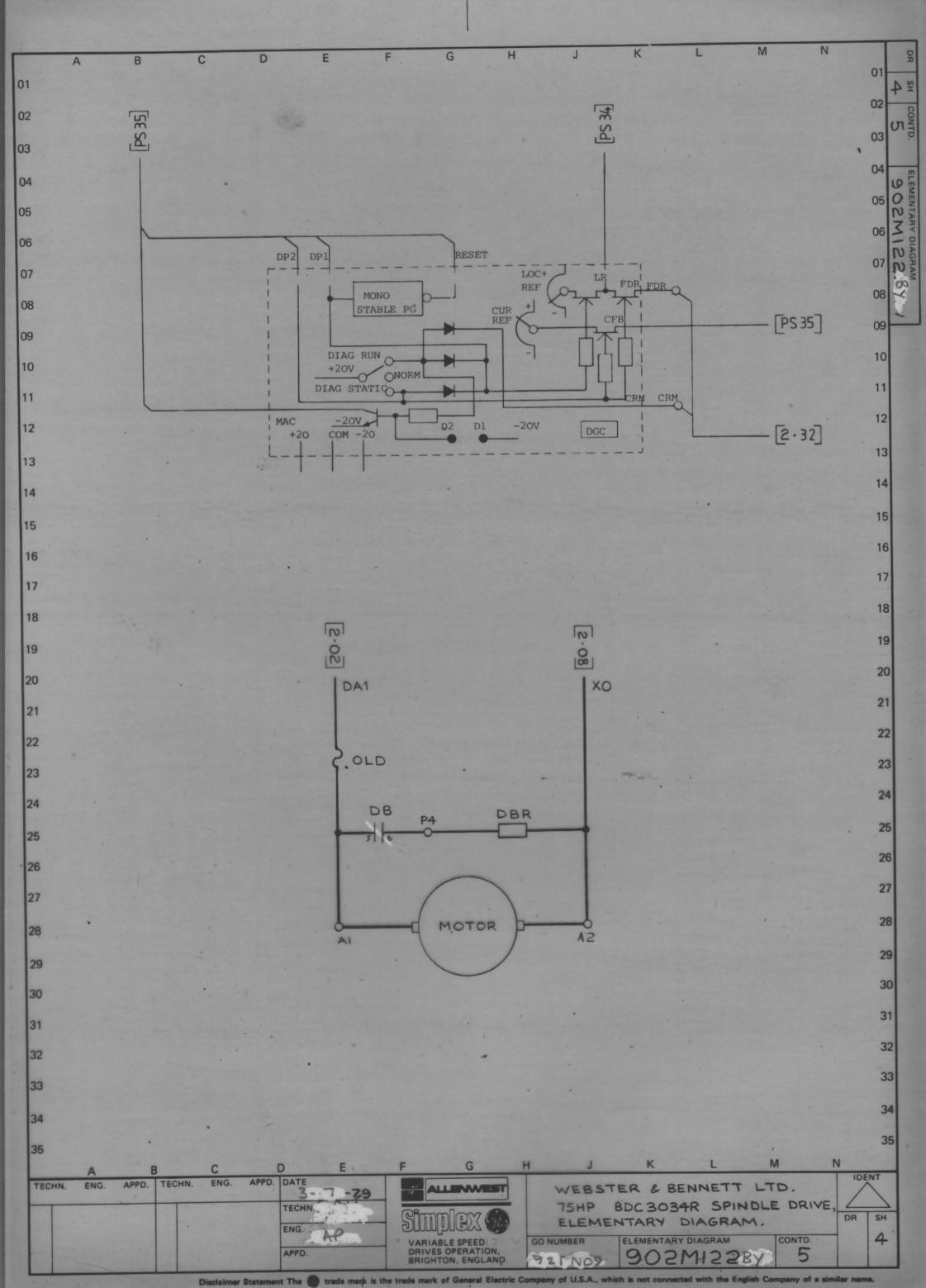
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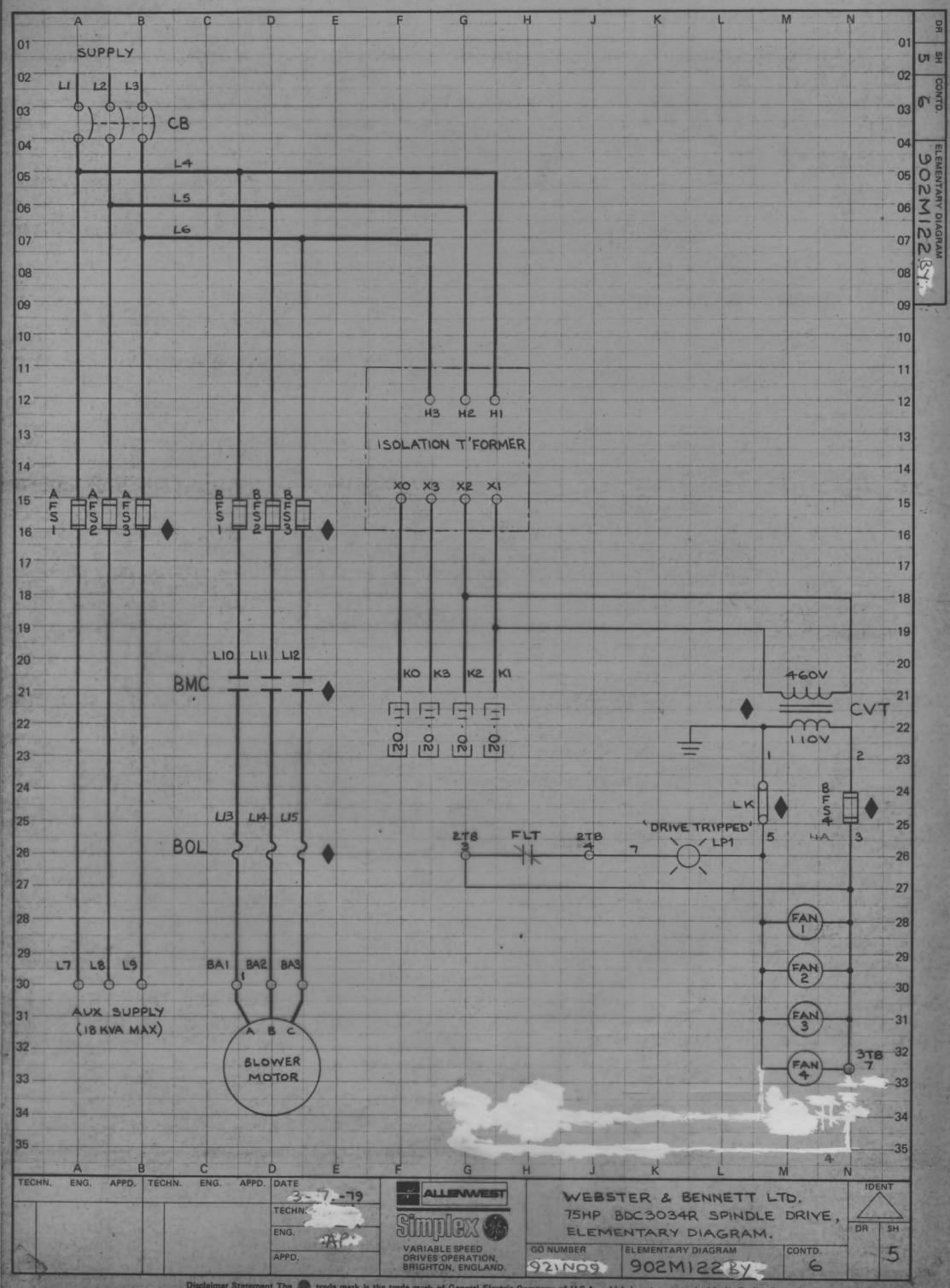
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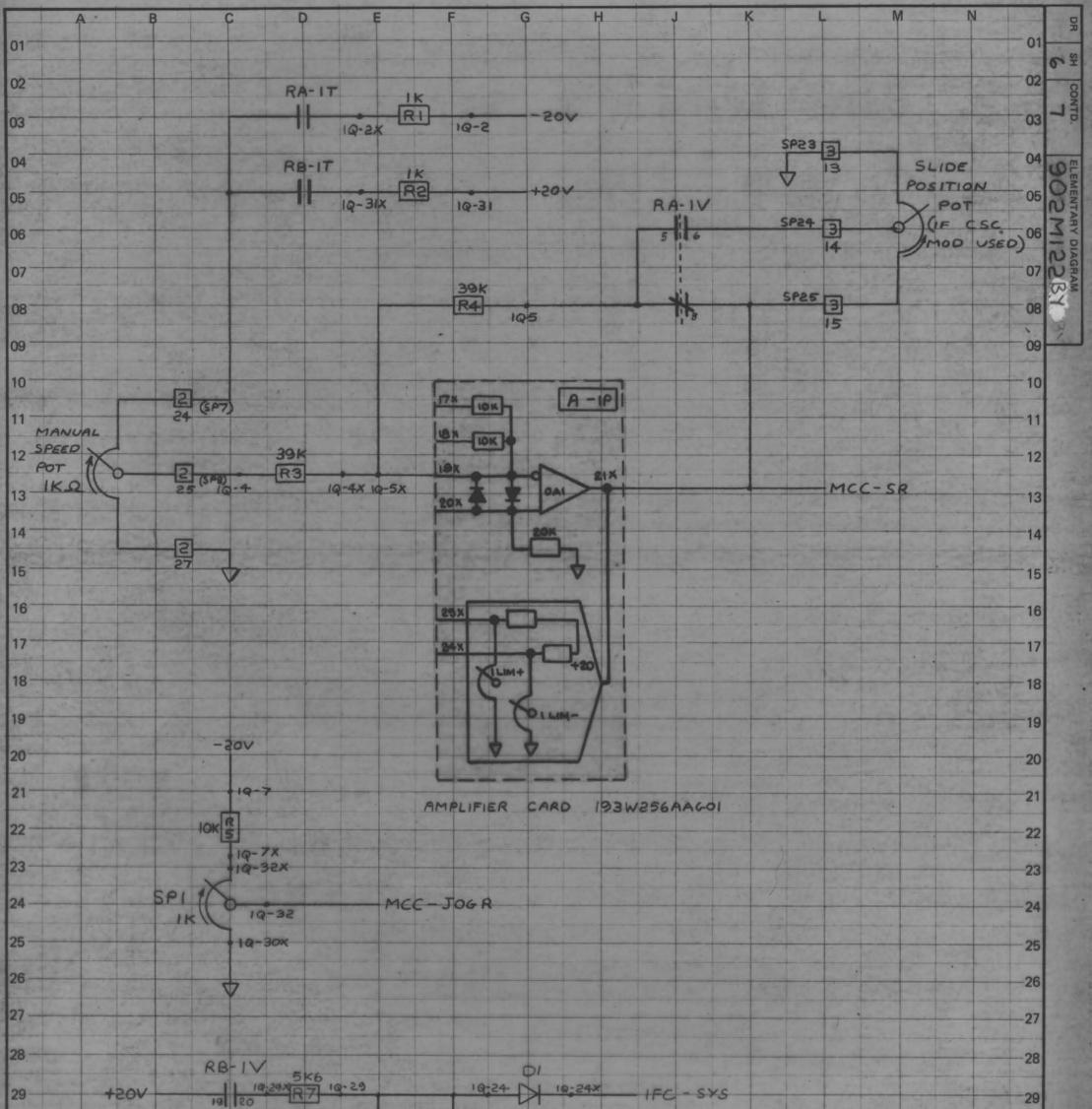
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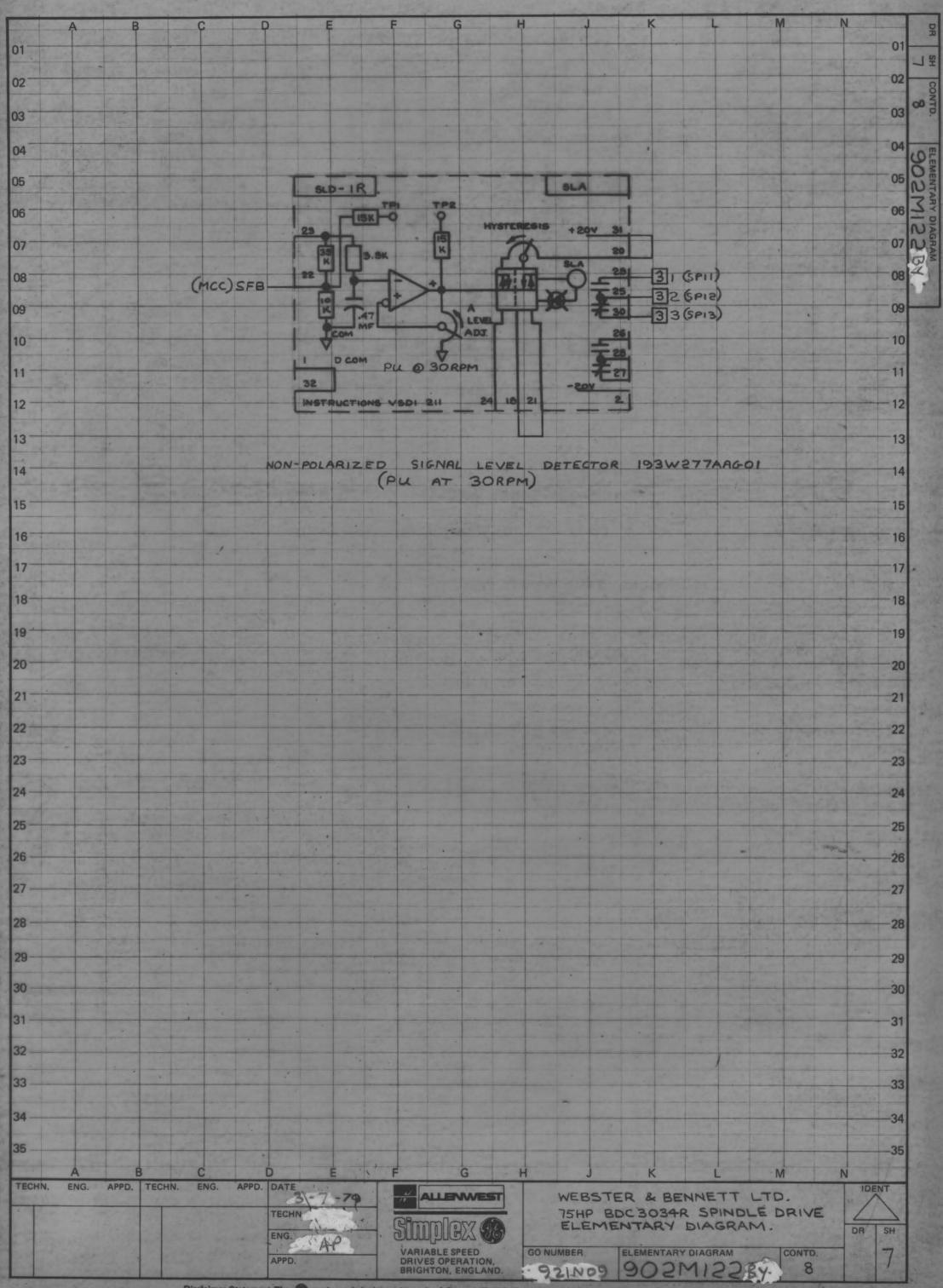


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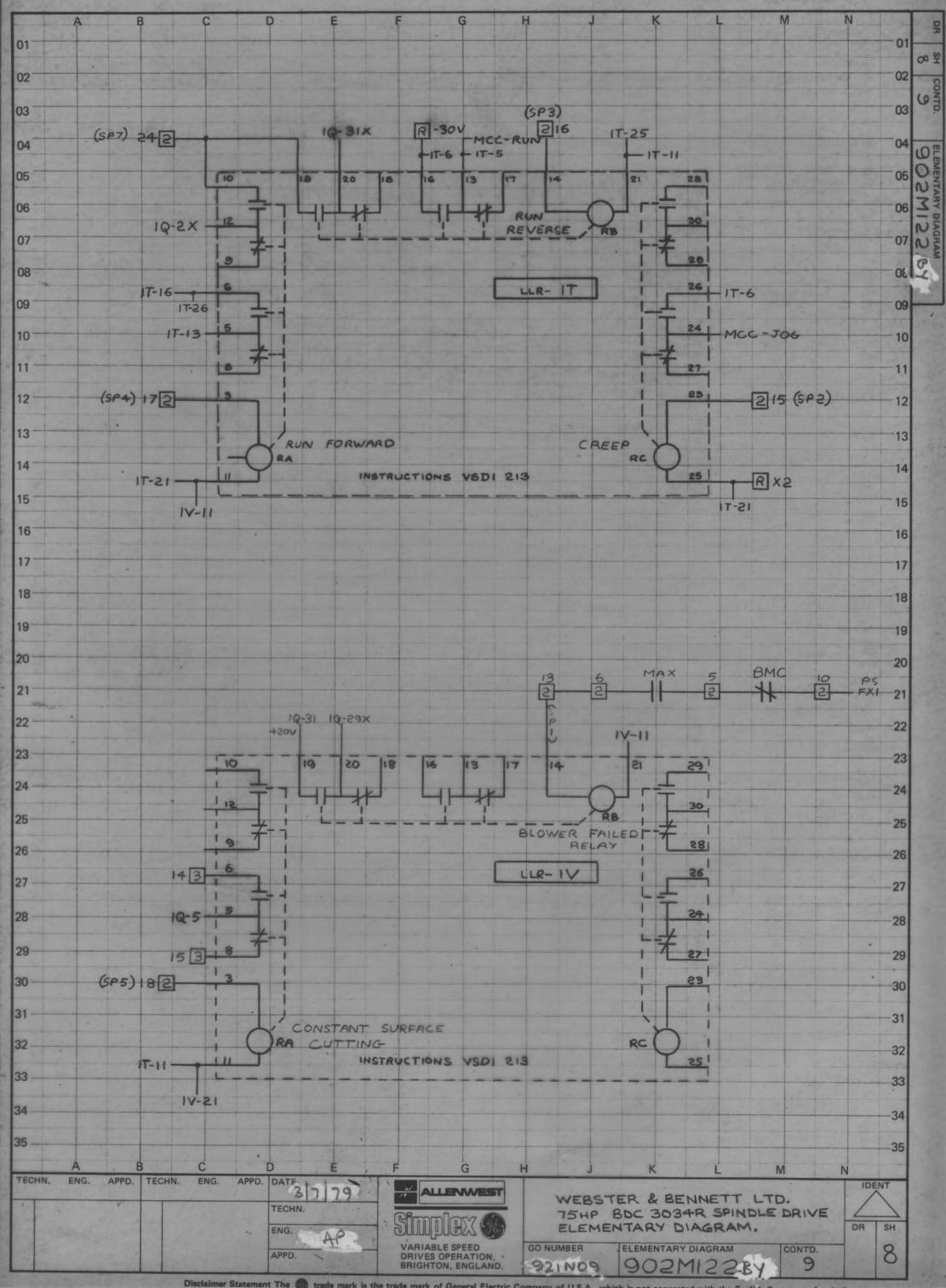


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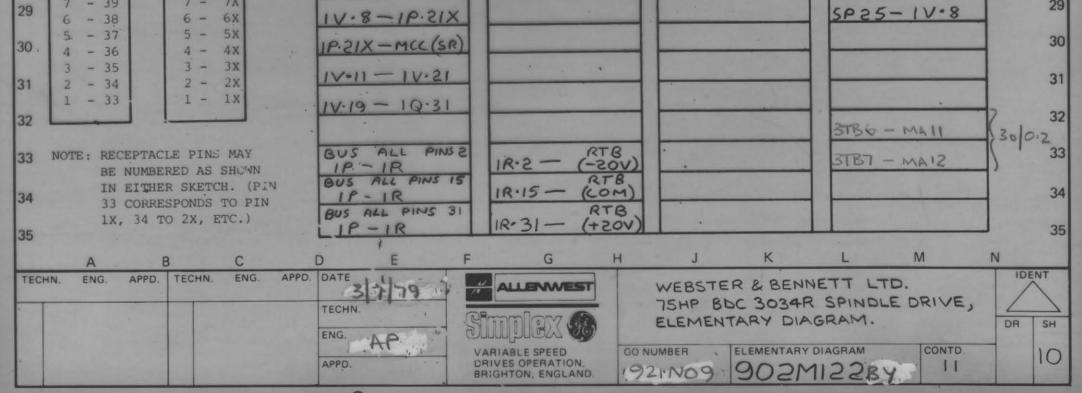
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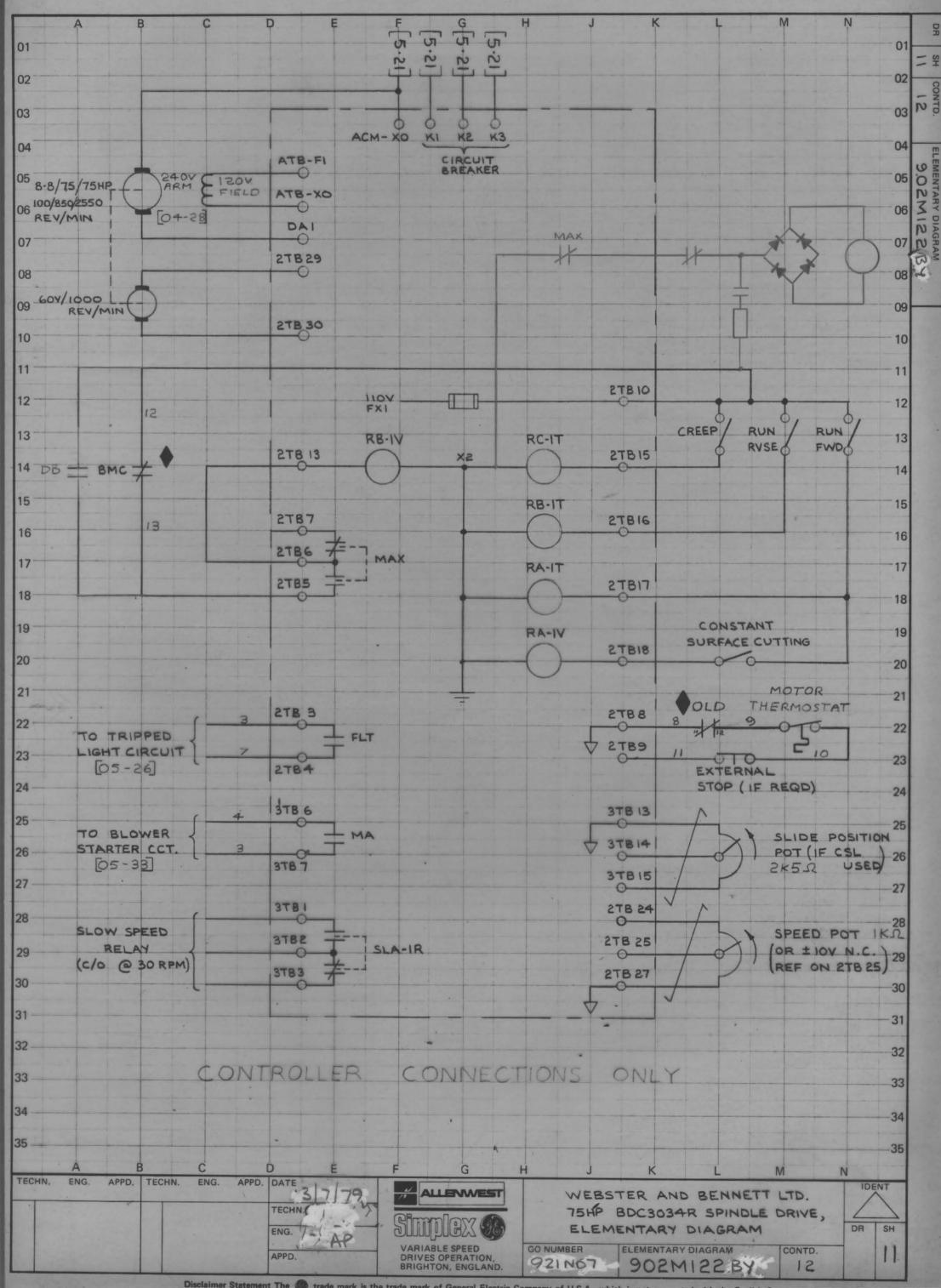
ELEMENTARY DIAGRAM

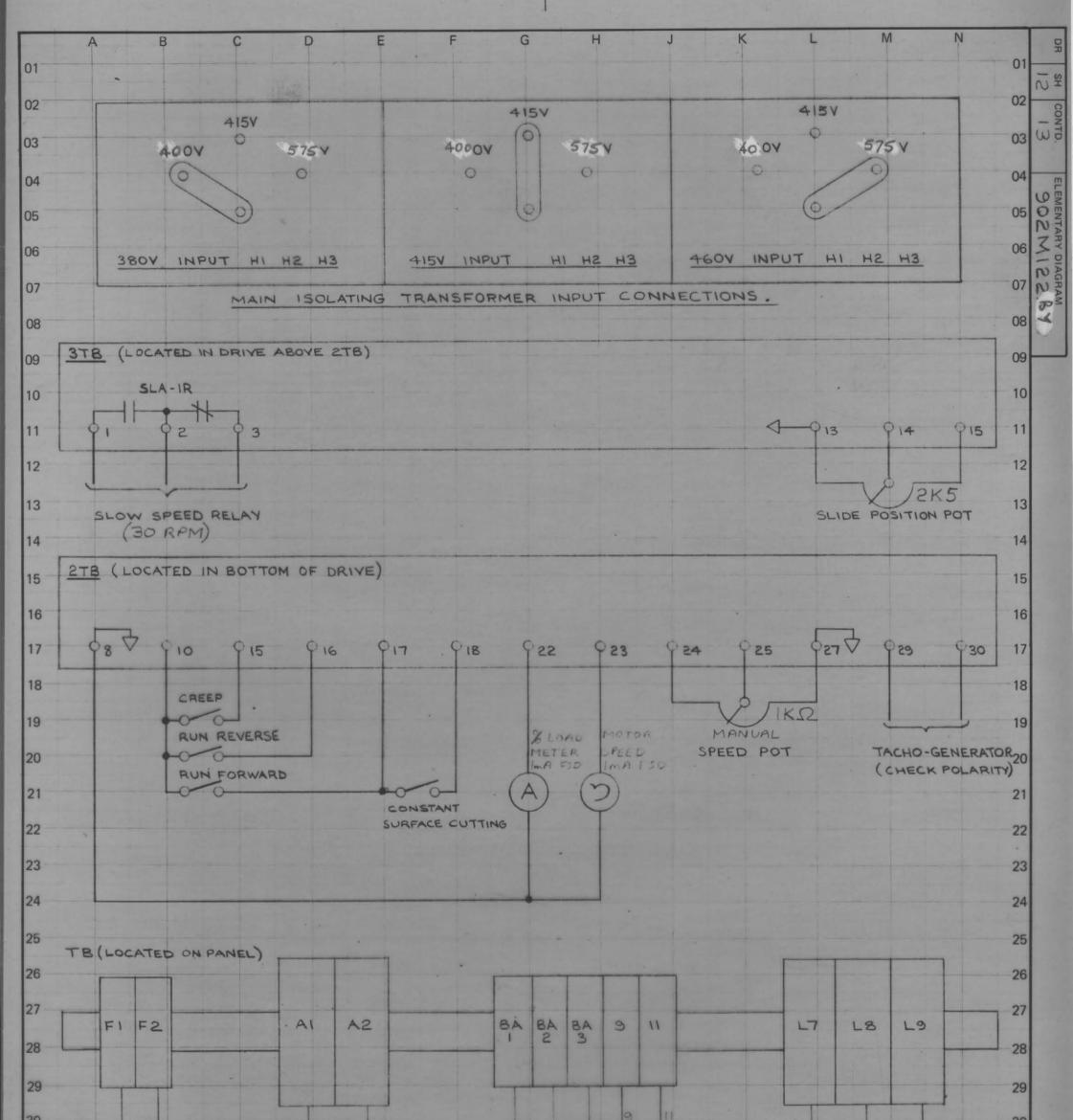
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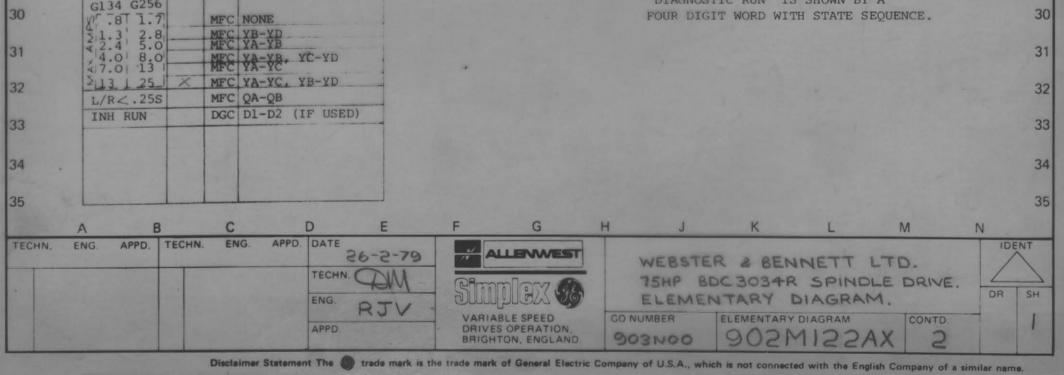


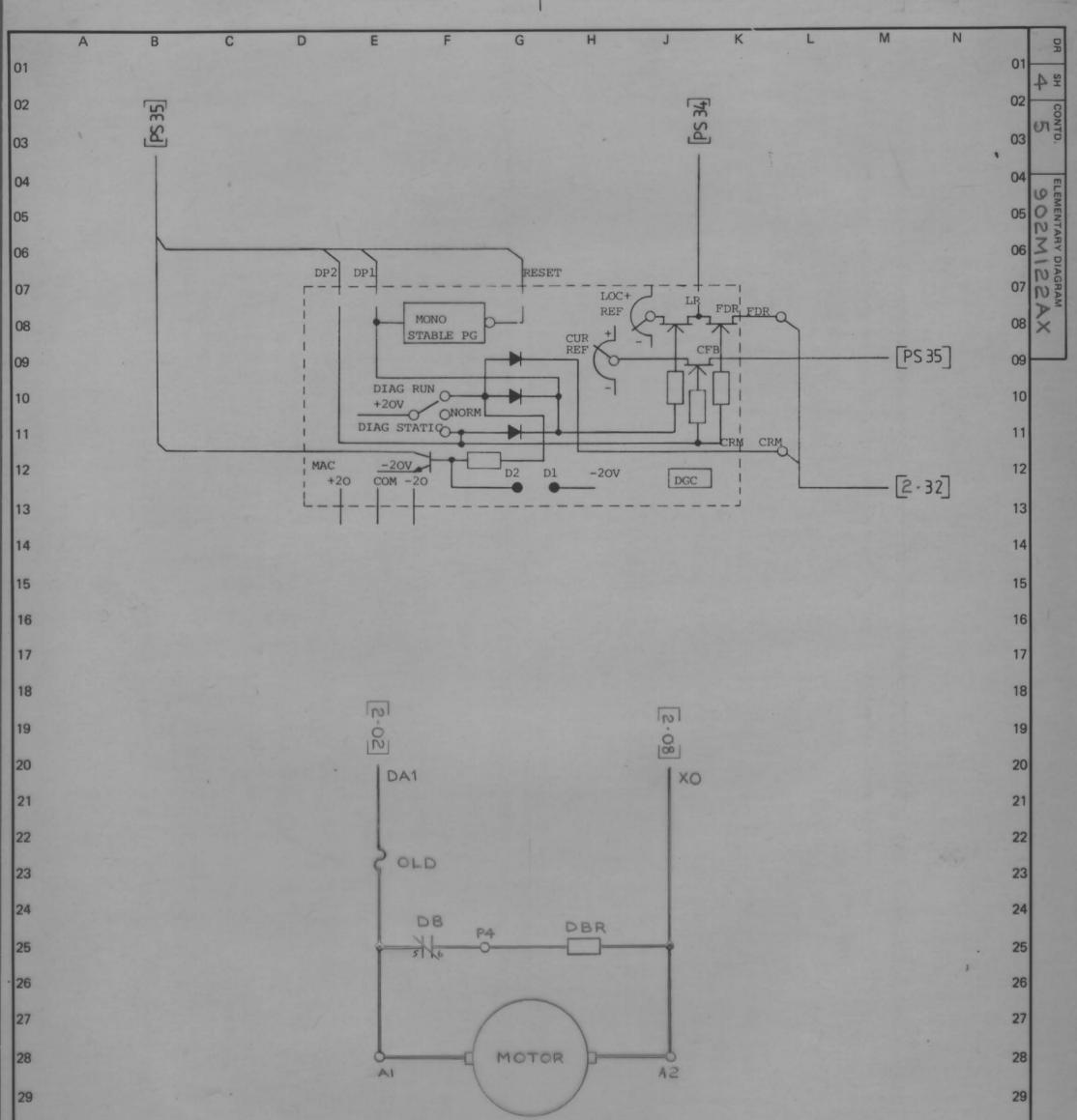


30				-30
31	DRIVE MOTOR	DRIVE MOTOR	DRIVE BLOWER THERMOSTAT AUXILIARY SUPPLY	-31
32	FIELD	ARMATURE	(CHECK FOR E. STOP (18 KVA MAX)	32
3			CORRECT ROTATION) (DYNAMIC BRAKE ONLY,	-33
34			NEEDS TO BE RESET AT DRIVE)	34
5				-35
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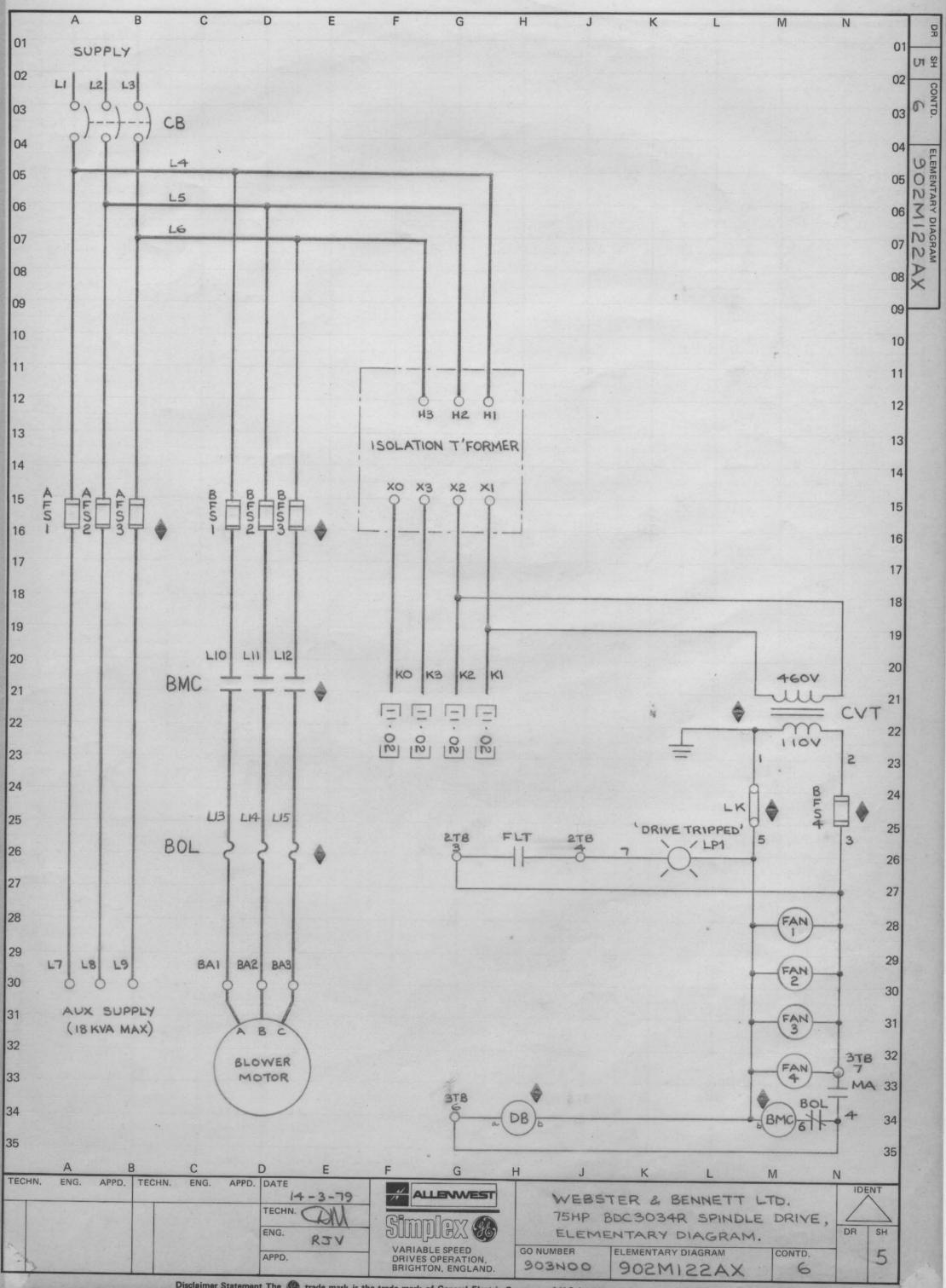
	A B	С	D	E F	G		Н	J	К	L	M	N		DR
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03	HARDWARE ABE	BREVIATIO	MS_										03	NTO
		AIN CONTR					CEMF		EMF (3-16				~	
04	PSC PC	NTERFACE					CFB CMFA		FEEDBACK		)		04	OF
05		IYRISTOR	ASSEMBLY CARD				CRM		FIRING PO		5)		05	ON
06	MFC MC	DTOR FIEL	D CONTROL				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
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08	R2	27	VI				FDR FEA	FIELD EC	AGNOSTIC	UST (3.2			80	×
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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
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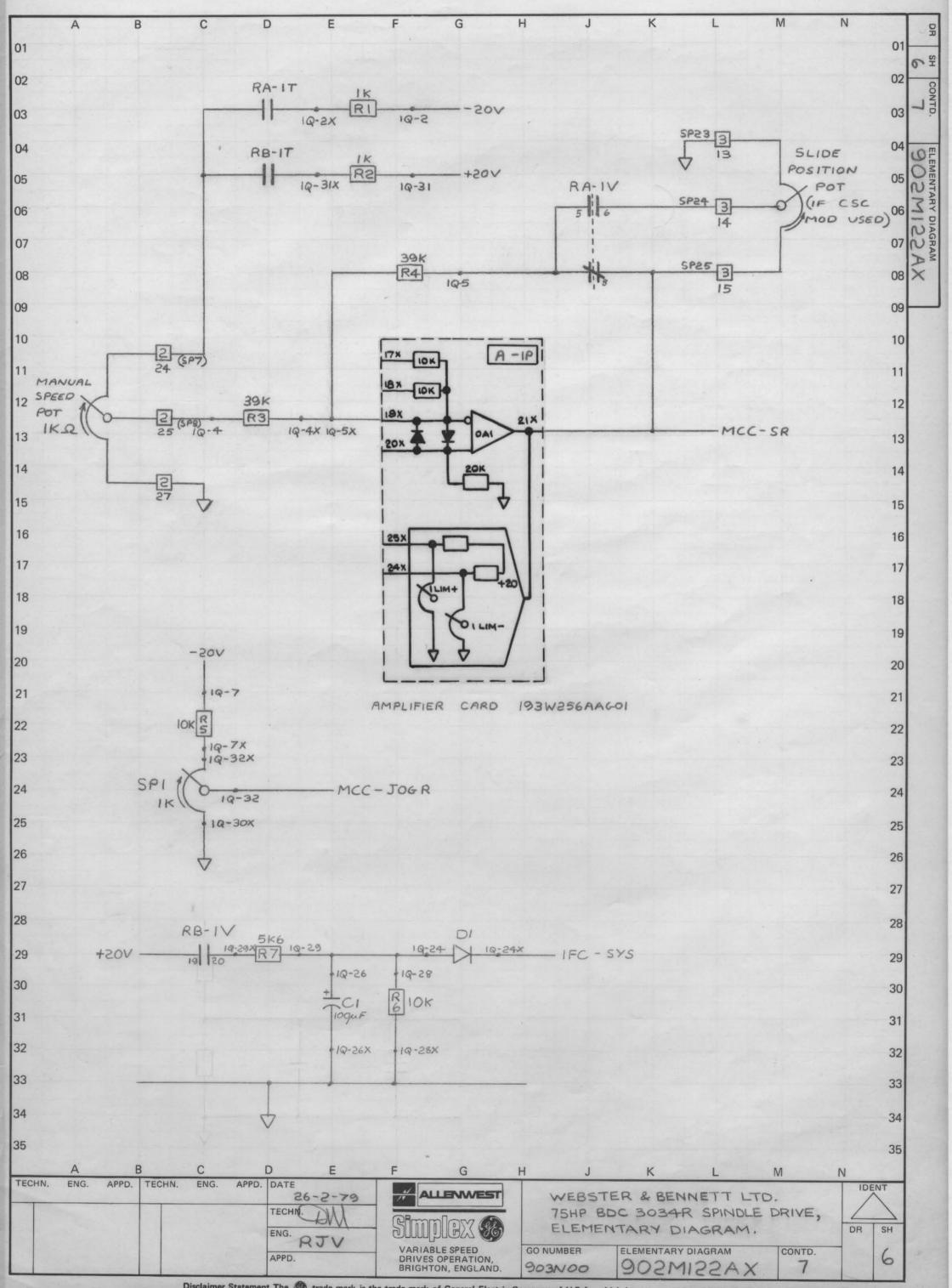


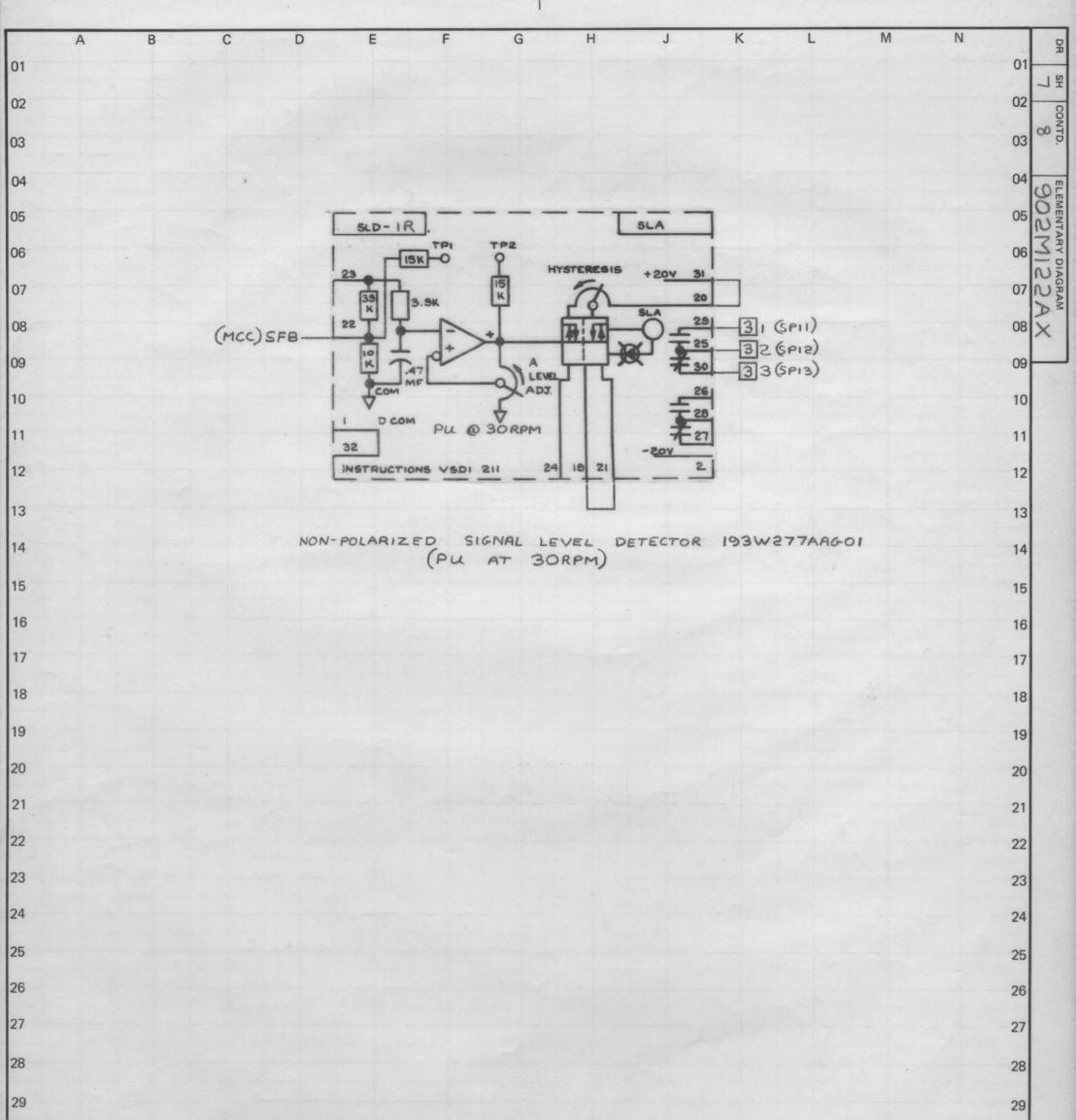


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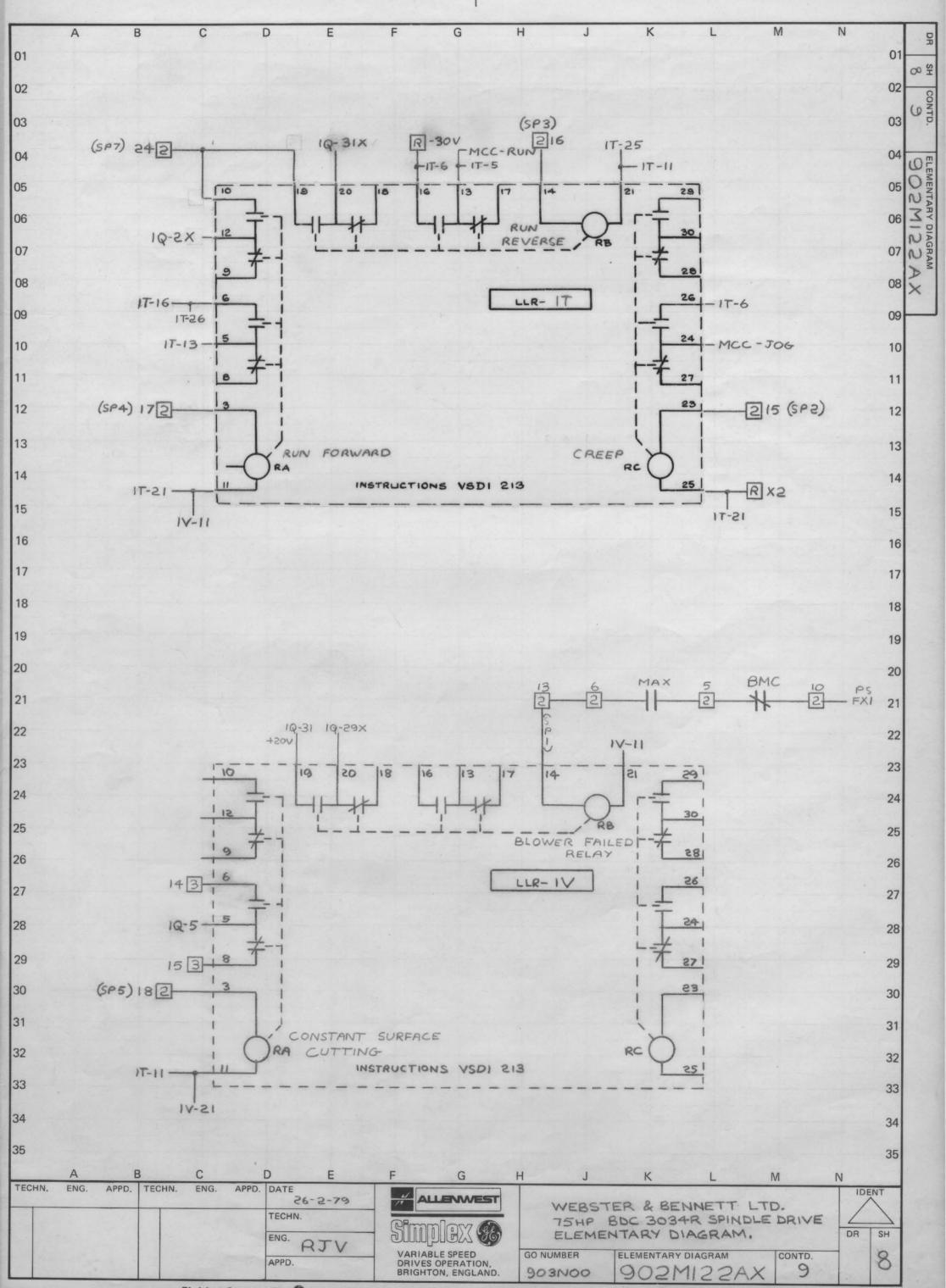
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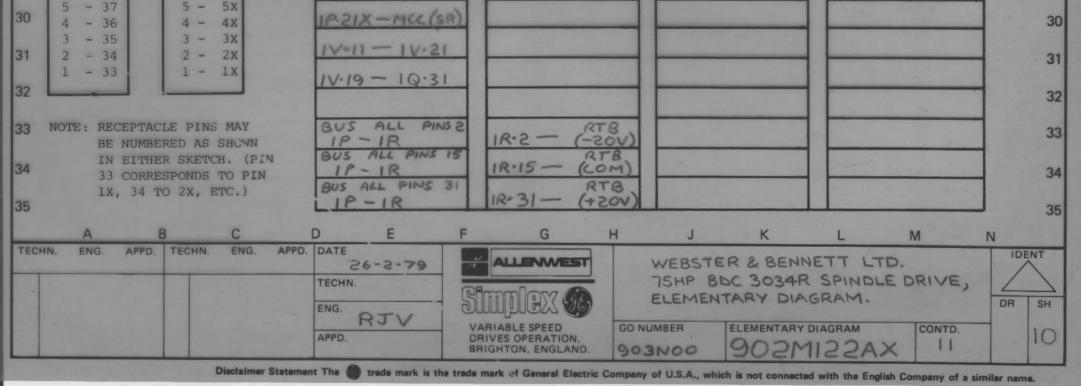


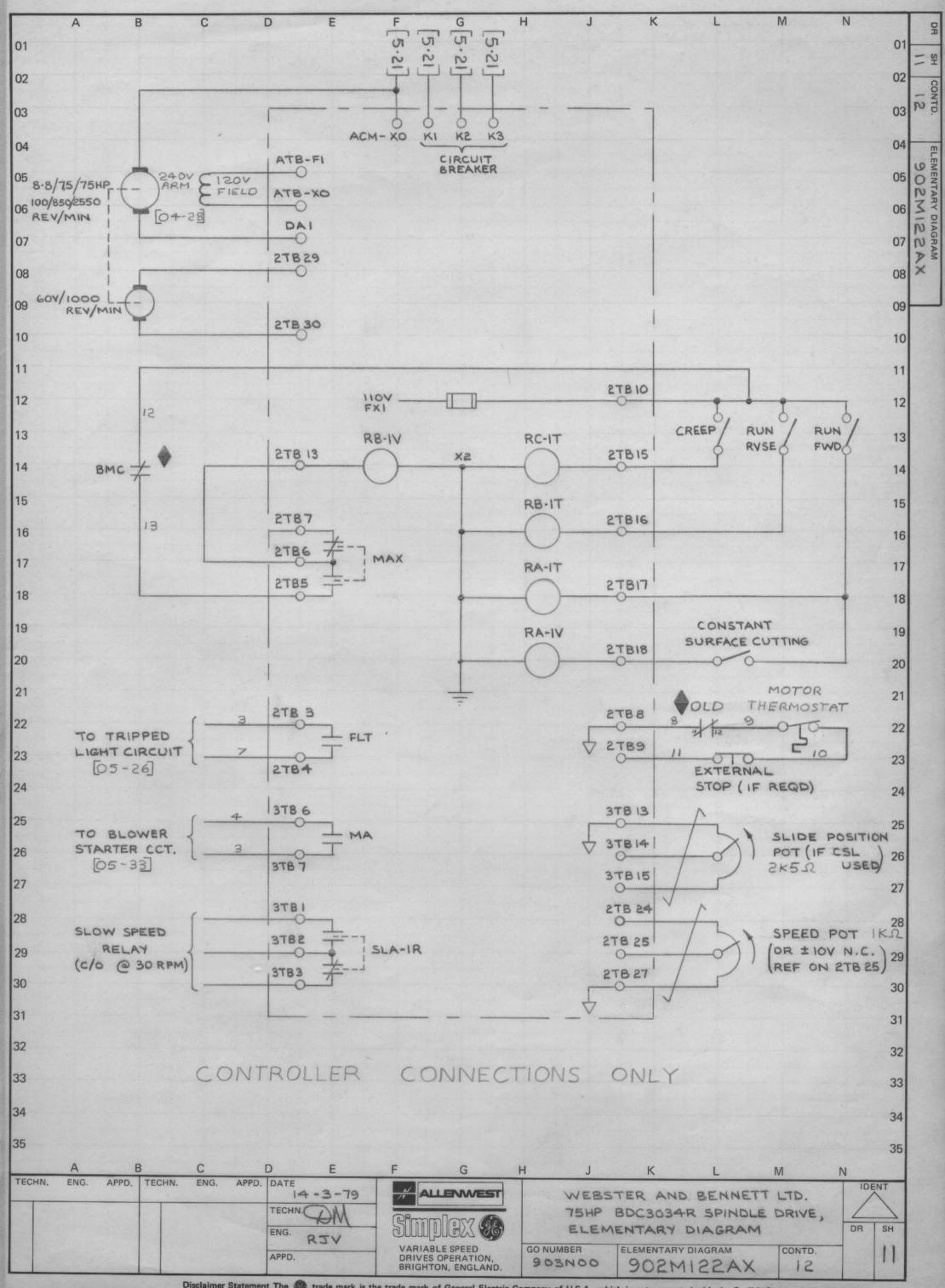
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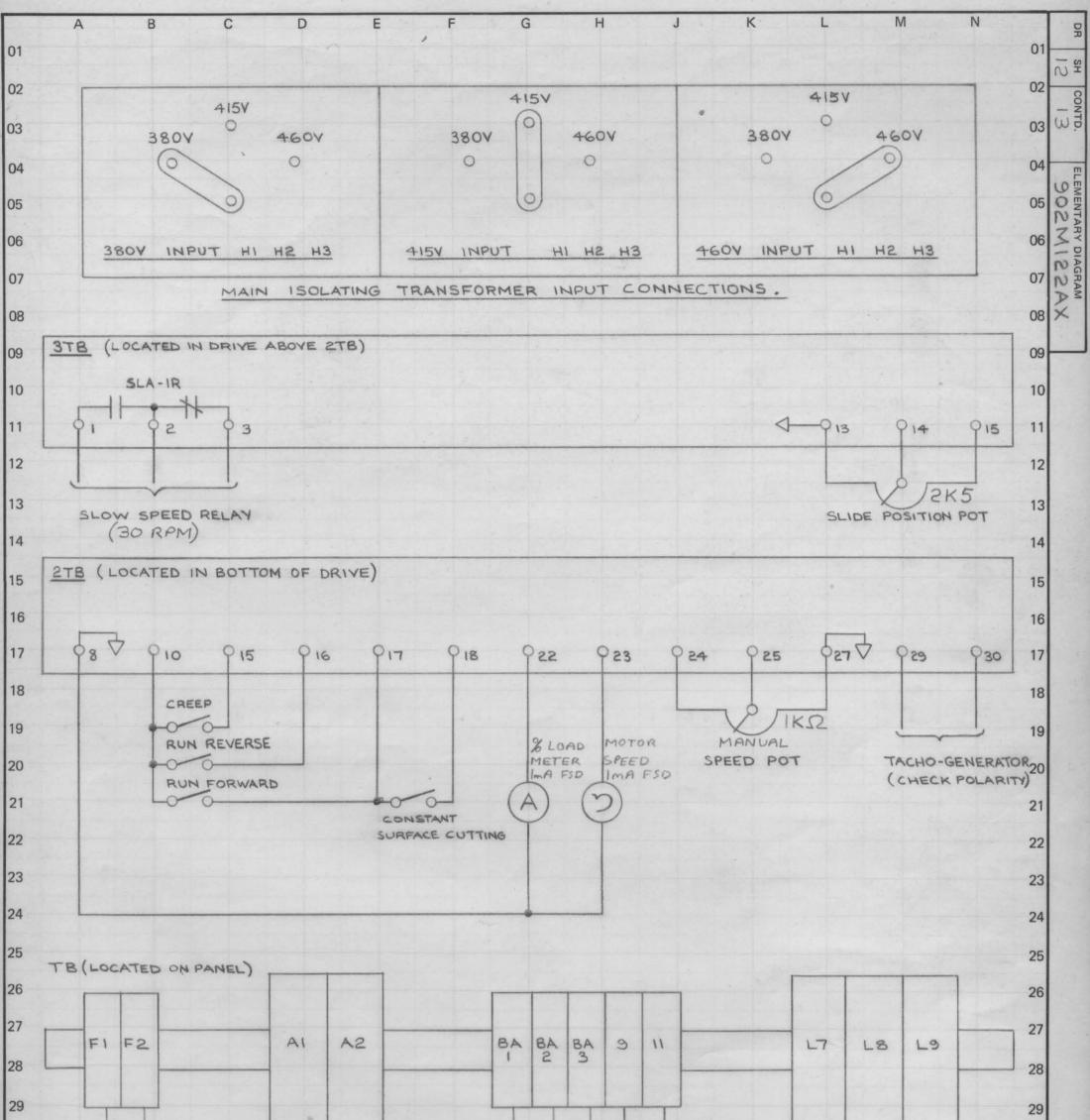


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30							9 11				
31	DRIVE MO	TOR	DR	AVE MOTOR	DR	IVE BLOWER	MOTOR	TAT	AUXILIA	RY SUPPL	.4
2	FIELD			ARMATURE	MC	HECK FOR	4100	- STOP	(18 KVA		
3					COP	RECT ROTATI	1	YNAMIC BRA			
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