

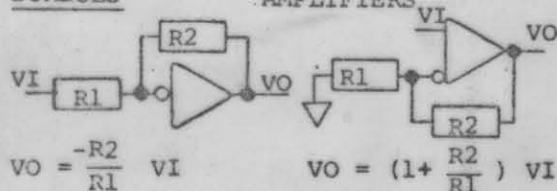
VOLTAGE POLARITIES SHOWN ARE FOR MOTORING DA1 (+)

HARDWARE ABBREVIATIONS

MCC	MAIN CONTROL CARD
IFC	INTERFACE CARD
PSC	POWER SUPPLY CARD
SCR	THYRISTOR ASSEMBLY
DGC	DIAGNOSTIC CARD
MFC	MOTOR FIELD CONTROL
MFE	MOTOR FIELD EXCITER
MDR	MODIFICATION RACK
ACC	AUXILIARY CONTROL CARD

SYMBOLS


AMPLIFIERS

 CASE GROUND
$$\frac{VI}{ABS} \rightarrow VO = SIGN () \times \text{ABSOLUTE VALUE OF } VI$$

STAB ON TERMINAL

TERMINAL AT 2TB, 3TB, 4TB, RTB.
EX: 9 [2] - 2TB9; X2 [R] - RTBX2

TERMINAL AT T.B.'S



POTENTIOMETER ARROWS ON THE CARD
ELEMENTARY DIAGRAMS INDICATE THE
WIPER DIRECTION AS THE POTENTIOMETER
SHAFT IS ROTATED CLOCKWISE TO INCREASE
FUNCTION.

THESE RESISTORS ARE CRIMPED IN WIRE HARNESS.

FUNCTION	USE	LOC	JUMPERS
60HZ		MFC	ZA-ZB (IF USED)
50HZ	X	MCC	HZA - PHA
IOC-400%	X		(NONE)
-500%		IFC	I - IHI
-300%		IFC	I-ILO
SR5 - 9v			NONE)
9 - 20v	X	MCC	SRH - COM
JOGR 10v			(NONE)
20v		MCC	JH - COM
LT.3-7sec	X		(NONE)
2 - 60sec			332Ω FROM LTI TO COM
VREG			NT-CEMF CC-COM
DC TACHO	X		(NONE)
AC TACHO		MCC	AT1 - AT2
TACHO FILT		IFC	TC - TC
TACHO V. 24-64vdc	X	IFC	NT-NT1 PT - PT1
27-71vac		IFC	NT-NT1 PT - PT1
60-160vdc		IFC	NT-NT2 PT - PT2
66-177vac		IFC	NT-NT2 PT - PT2
110-300vdc		IFC	NT-NT3 PT - PT3
120-300vac		IFC	NT-NT3 PT - PT3
G134 G256		IFC	MFC OR MFE
7.8T 1.7	X	MFC	NONE
1.3 2.8		MFC	YB - YD
2.4 5.0		MFC	YA - YB
4.0 8.0		MFC	YA-YB, YC-YD
7.0 13		MFC	YA - YC
13 25		MFC	YA-YC, YB-YD
L/R < .25S		MFC	QA - QB
INH RUN		DGC	D1-D2 (IF USED)
INH DRV CL		MCC	DC1 - COM
FUSELESS		ACC	CFY - CFX
NO CROSSOVER	X	MFC	CMA - COM
DRIVER CL MOD	X	MCC	DCX - DCY

SIGNAL DEFINITIONS AND LOCATIONS

* CEMF	COUNTER EMF (16)
* CFB	CURRENT FEEDBACK (16)
CMFA	ABSOLUTE VALUE CEMF (08)
CRM	CROSSOVER MODIFY (11)
DFP	DELAYED FIRING POWER (25)
* DR	DRIVER REFERENCE (33)
* EAO	ERROR AMP OUTPUT (33)
EST	EXTERNAL FLT STOP INPUT (14)
FALT	FAULT (14)
FC	FIELD CURRENT (NS26)
FDR	FIELD DIAGNOSTIC REFERENCE (08)
FEA	FIELD ECONOMY ADJUST (25)
FF	FIELD FAULT (28)
IABS	MOTOR CURRENT ABSOLUTE (09)
ILA	CURRENT LIMIT ADJUST (23)
IMET	CURRENT SIGNAL FOR METER (10)
* IPU	INITIAL PULSE (20)
* LR	LOCAL REF. FROM DGC (33)
* JOG	JOG SWITCH INPUT (23)
* JOGR	JOG REFERENCE INPUT (31)
* MAC	MAX/MA CONTROL SIGNAL (20)
MSW	MODE SWITCH (30)
* OSC	OSCILLATOR (17)
* PCR	PHASE CONTROL REF. (26)
* PRE	DRIVE PRECONDITION (21)
ØSEQ	PHASE SEQUENCE (14)
RERR	REGULATOR ERROR (27)
RIJ	INTEGRATOR SUMMING JUNCTION (27)
RJ	REGULATOR SUMMING JUNCTION (31)
RRA	REGULATOR RESPONSE ADJUST (30)
RSET	RESET (16)
* RTR	READY TO RUN (16)
* RUN	RUN SWITCH INPUT (21)
* SA-C	PHASE SYN OUTPUT (16)
* SFB	SPEED FEEDBACK (20)
SMET	SPEED SIGNAL FOR METER (12)
* SR	SYSTEM REFERENCE INPUT (29)
* SYS	SYSTEM FAULT TRIP (13)
* TA	OUTPUT FOR TACHO TRIP ADJUST (20)
TF	TACHO FAULT (NS28)
* TFB	TACHOMETER FEEDBACK (20)
TFR	AC TACHO FREQUENCY OUTPUT (13)
* TR	TIMED REFERENCE (33)
* VFB	VOLTAGE FEEDBACK (19)
* WFR	WEAK FIELD REFERENCE (20)

(* - TEST POINT ON DOOR FRONT)

MAPPING SYSTEM


(NS/PS/TS) PS - PAST SHEET
NS - NEXT SHEET
TS - THIS SHEET

HENCE (PS - 12) DENOTES LOCATION ON PAST SHEET LINE 12. OTHER LOCATIONS ARE
DENOTED BY SHEET NUMBER AND LINE? E.G. (1A16) SIGNIFIES LOCATION ON SHEET 27
1A, LINE 16 ETC.

NOTE: 11 FIELD EFFECT TRANSISTOR: THE
CLOSED/OPEN (I/O) STATE OF THESE
SWITCHED FOR "PRECONDITION" - "RUN"
OR JOG" - "DIAGNOSTIC STATIC" -
"DIAGNOSTIC RUN" IS SHOWN BY A
FOUR DIGIT WORD WITH STATE SEQUENCE

NOTE *

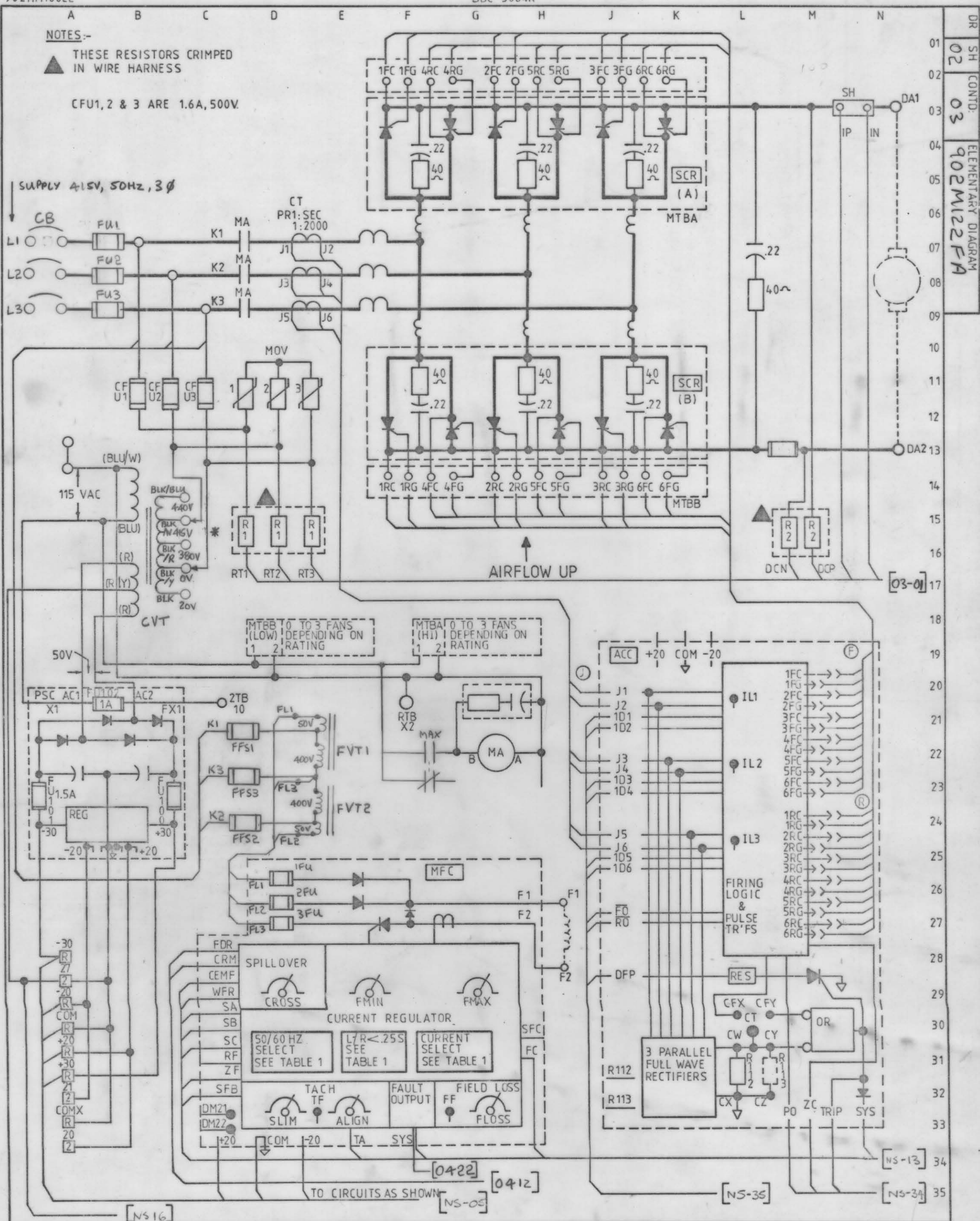
CONTROL TRANSFORMER (CVT) PRIMARY [0215]
TO BE CONNECTED FOR SUPPLY VOLTAGE.

A			B			C			D			E			F			G			H			J			K			L			M			N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Disclaimer Statement The 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.

▲ THESE RESISTORS CRIMPED
IN WIRE HARNESS

SUPPLY 415V, 50HZ, 3 ϕ



DATE: 8/7/80

ENG: ALGMA

APPD:

ALLENWEST
VARIABLE SPEED
DRIVES OPERATION
BRIGHTON, ENGLAND.

BDC 3064R, 15HP

KEARNS RICHARDS

G.O. NUMBER

021N00

ELEMENTARY DIAGRAM.

902M122FA

CONTD:

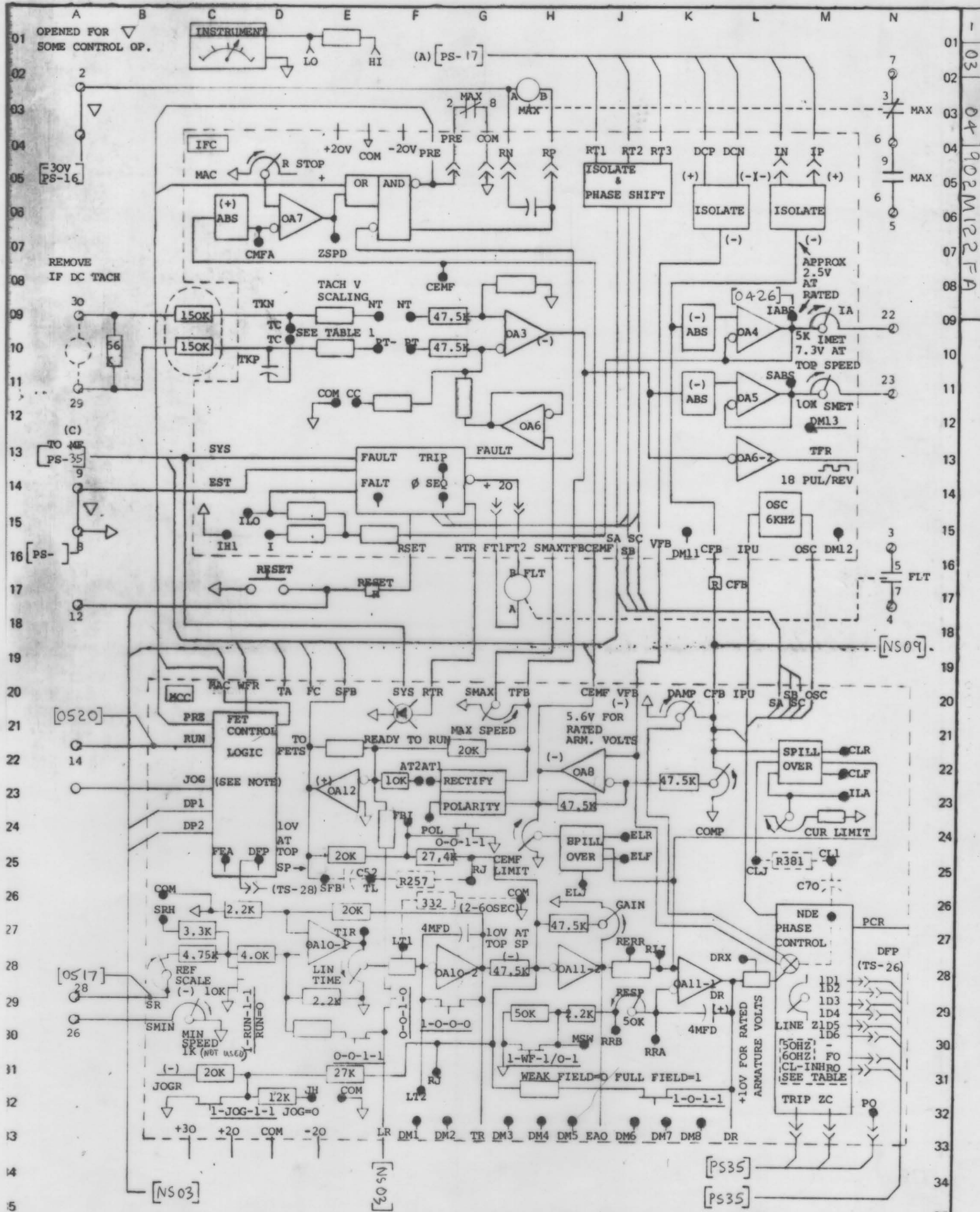
03

IDENT.

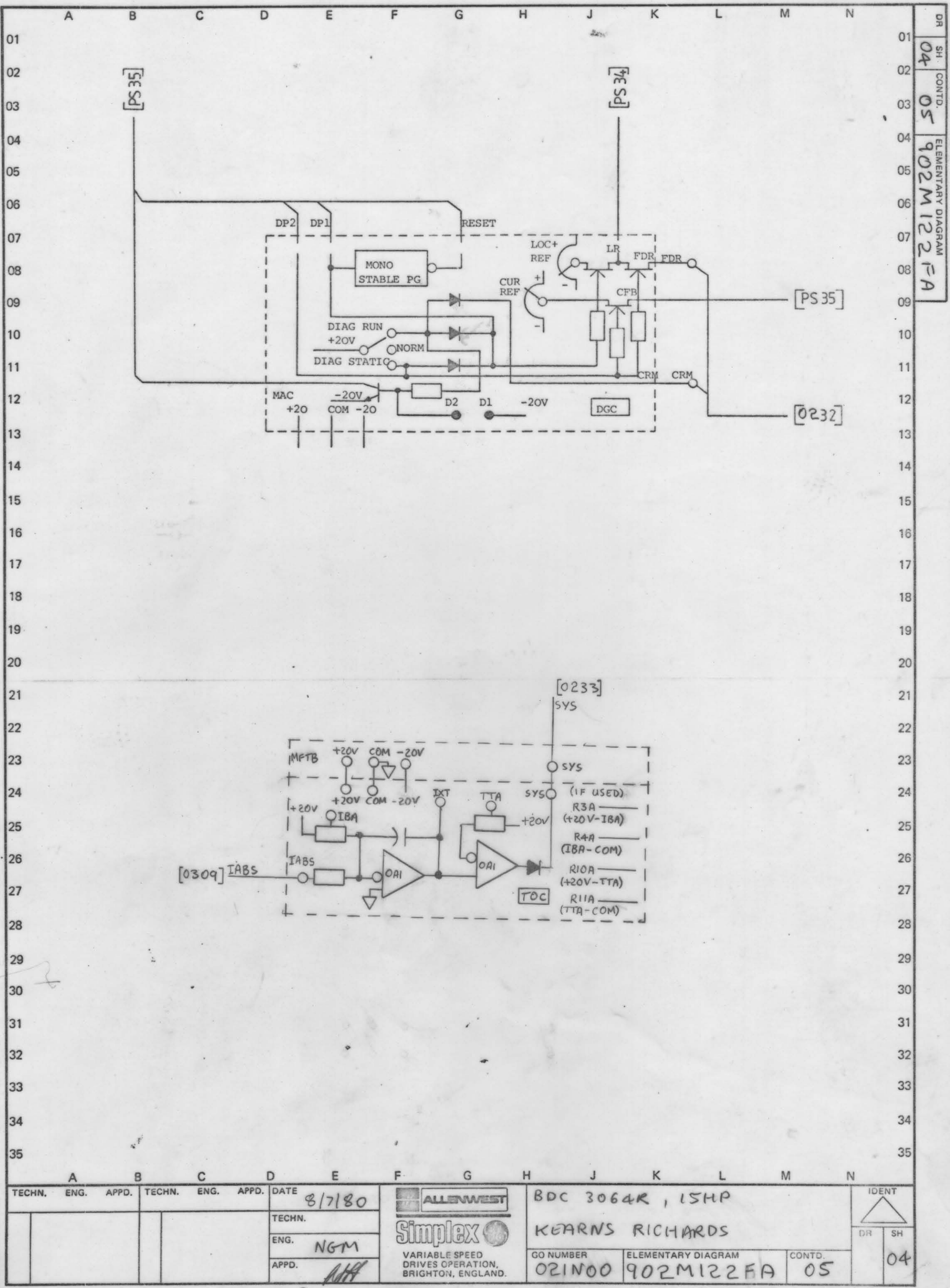
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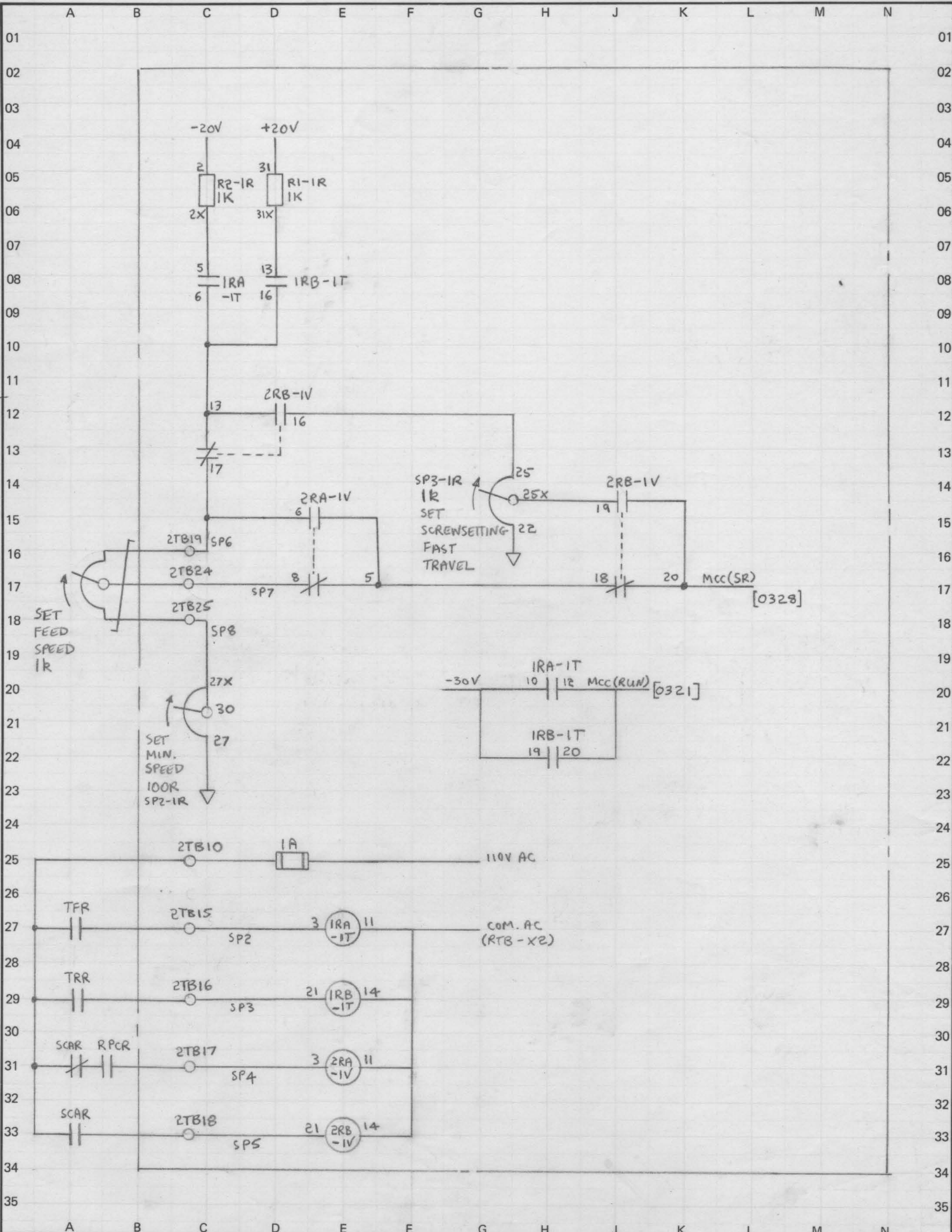
S

02



TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	BDC 3064R, 15HP			IDENT	
						8/7/80	KEARNS RICHARDS			DR SH	
							GO NUMBER			ELEMENTARY DIAGRAM	
							021N00			902M122FA	
							CONTD.			-03	





	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V
01																CC	1 LLR		2 LLR	
02																909W		193W 279 AAG03		193W 279 AAG03
03																				
04																				
05																				
06																				
07																				
08																				
09																				
10																				
11																				

DR
 SH
 CONTO.
 06
 07
 ELEMENTARY DIAGRAM
 902M122FA

ON PRINTED CIRCUIT CARDS USED IN THIS RACK THE LETTERS 'AA' AFTER BASIC CATALOGUE NUMBER INDICATES ORIGINAL DESIGN. SUBSEQUENT DESIGNS WITH THE SAME BASIC NUMBERS AND GROUP NUMBER WITH THE SECOND LETTER CHANGED, SUCH AS: AB, AC, AD, ETC., ARE DIRECTLY INTERCHANGEABLE AND MAY BE SUPPLIED IN PLACE OF THE 'AA' CARDS.

THE PRINTED CIRCUIT CARD SHOULD ALWAYS BE REMOVED WITH THE CARD EXTRACTOR WHICH IS ATTACHED ON TOP OF THE CARD RACK. SOME CARDS CONTAIN PARTS WHICH WILL BE THERMALLY HOT AFTER BEING IN OPERATION. CARE SHOULD BE EXERCISED IN HANDLING ALL CARDS AFTER REMOVAL UNTIL THESE PARTS HAVE COOLED. DO NOT REMOVE OR INSERT CARDS WITH POWER APPLIED.

FRONT VIEW OF 64 PIN
RECEPTACLE AS SEEN
IN RACK CLOSED
POSITION.

SYMBOLS:

TEST POST



POT ADJUSTMENT



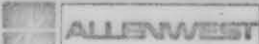
INDICATING LIGHT

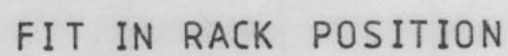
32	-	64	32	-	32X
31	-	63	31	-	31X
30	-	62	30	-	30X
29	-	61	29	-	29X
28	-	60	28	-	28X
27	-	59	27	-	27X
26	-	58	26	-	26X
25	-	57	25	-	25X
24	-	56	24	-	24X
23	-	55	23	-	23X
22	-	54	22	-	22X
21	-	53	21	-	21X
20	-	52	20	-	20X
19	-	51	19	-	19X
18	-	50	18	-	18X
17	-	49	17	-	17X
16	-	48	16	-	16X
15	-	47	15	-	15X
14	-	46	14	-	14X
13	-	45	13	-	13X
12	-	44	12	-	12X
11	-	43	11	-	11X
10	-	42	10	-	10X
9	-	41	9	-	9X
8	-	40	8	-	8X
7	-	39	7	-	7X
6	-	38	6	-	6X
5	-	37	5	-	5X
4	-	36	4	-	4X
3	-	35	3	-	3X
2	-	34	2	-	2X
1	-	33	1	-	1X

CARD RACK WIRE JUMPER TABLE

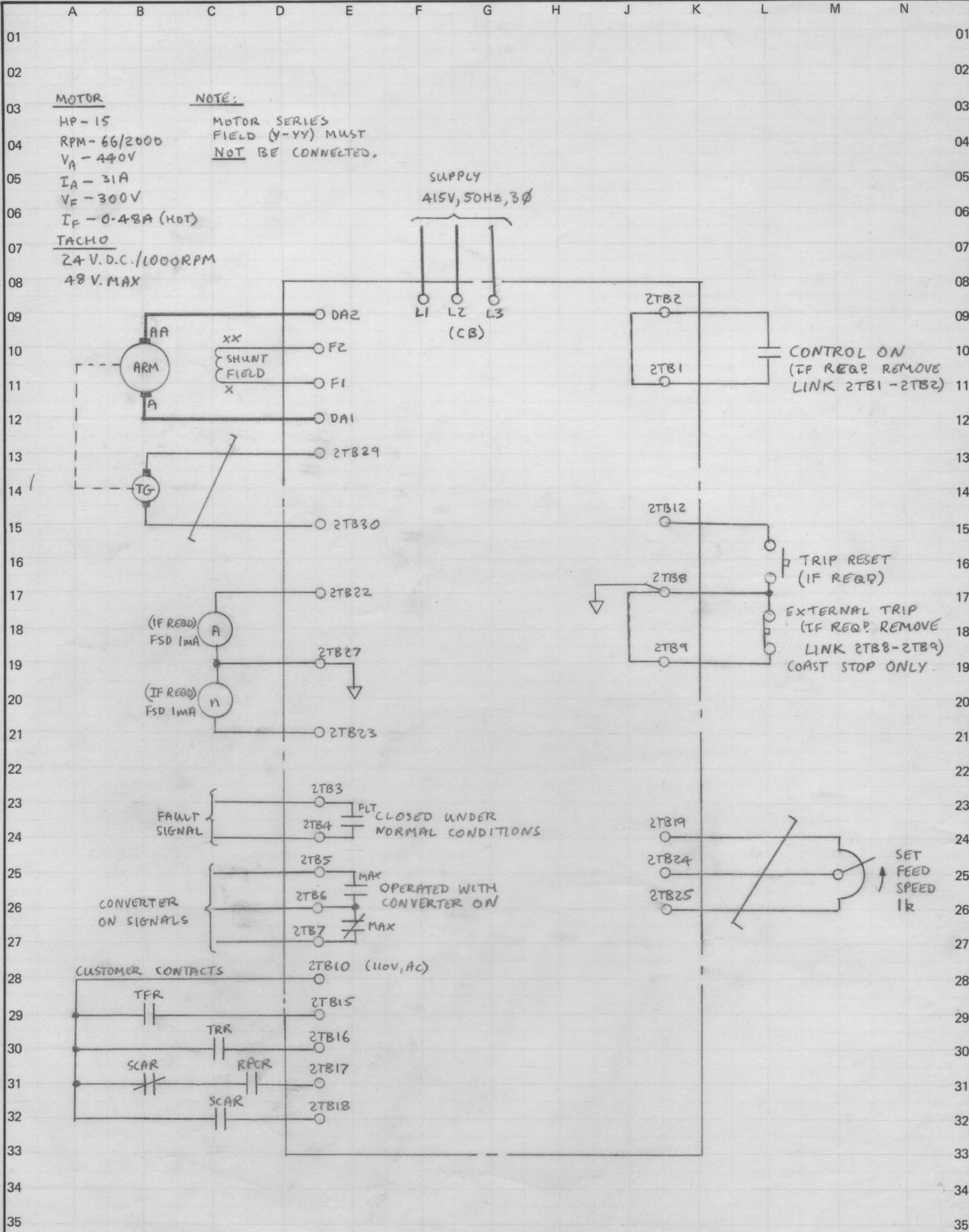
[illegible]

NOTE: RECEPTACLE PINS MAY
BE NUMBERED AS SHOWN
IN EITHER SKETCH. (PIN
33 CORRESPONDS TO PIN
1X, 34 TO 2X, ETC.)

A	B	C	D	E	F	G	H	J	K	L	M	N		
TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE								
				NGM	RHA	10/7/80								
						TECHN.								
						ENG.								
						APPD.								
			2			24/9/80								
							 Simplex  VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.		BDC 3064R , 15HP			IDENT		
							KEARNS RICHARDS					OR SH		
							GO NUMBER		ELEMENTARY DIAGRAM		CONTD.		06	
							02IN00		902M122 FA		07			



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TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	10/7/80	 Simplex VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.	BDC 3064R, 15HP CUSTOMER CONNECTIONS KERRNS RICHARDS			IDENT	 DR SH 08
						TECHN.			GO NUMBER	ELEMENTARY DIAGRAM	CONTD.		
						ENG.	NGM		021N00	902M122FA	09		
						APPD.							