VARIABLE SPEED DRIVES OPERATION

SILCON C DRIVE SYSTEM

GENERAL NOMENCLATURE

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

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

SYMBOLS

- SCREENED LEADS
- TWISTED LEADS
- TERMINAL BOARD JUMPER
- M - MOUNTED IN MOTOR
- R - REMOTE MOUNTED DEVICE
- OS - DEVICES IN OPERATOR STATION

THE TABLE BELOW LISTS CONNECTIONS THAT HAVE BEEN MADE IN THE DRIVER/REGULATOR TO PROVIDE THE REQUIRED SYSTEM OPERATION. REFER TO THE SYSTEM INSTRUCTION BOOK FOR CIRCUIT AND OPERATING DETAILS OF THE DRIVE REGULATOR.

FOR MULTIPLE DRIVE EQUIPMENTS, DRIVER/REGULATOR OPERATING TABLES ARE ON SHEETS 1A, 2A, 3A ETC.

DRIVER/REGULATOR OPERATING TABLE

(LEFT BLANK FOR MULTIPLE DRIVES)

LINE FREQUENCY
60HZ ___ 50HZ ✓

DRIVER CURRENT LIMIT
NONE ___ 0-75HP ✓ 75 HP ___

REGULATING LOOP
VOLTAGE ___ CURRENT ___ DC TACH ___ AC TACH ✓

SYSTEM REFERENCE
20V ✓ 10V ___ 3V ___

LINEAR TIMING
0 SEC ___ 0.5-3SEC ✓
3-30SEC ___ 30- SEC ___

TACHOMETER VOLTAGE
43-62 VDC, 26-48 VAC ___ 60-115 VDC, 47-85VAC ___
100-200VDC, 82-152VAC ✓ 180-380VDC, 151-275VAC ___

AUXILIARY PRESET REFERENCE
NONE ___ TIMED ___ UNTIMED ✓

AUXILIARY PRESET REF DIRECTION
FWD ✓ REV ___ EXTERNAL ___

REGULATOR COMPENSATION
NONE ✓ LOAD ___

RESPONSE
NORMAL ✓ LOW ___

CURRENT LIMIT
69A (150%)

SEE SYSTEM ELEMENTARY FOR ADDITIONAL REGULATOR CIRCUITRY ✓

TOP SPEED/BASE SPEED
0.9-1.0 ___ 1.0-1.1 ___ 1.1-1.2 ___ 1.2-1.2 ___ 1.3-1.5 ___
1.5-1.6 ___ 1.6-1.8 ___ 1.8-2.0 ___ 2.0-2.2 ___ 2.2-2.5 ___
2.5-2.7 ___ 2.7-3.0 ___ 3.0-3.3 ✓ 3.3-3.7 ___

DRIVER/REGULATOR INCLUDES INSTRUMENT FUNCTION ✓
DIAGNOSTIC FUNCTION ✓
SIGNAL LEVEL DET. ✓

902M102DE SH. No 1 CONT. ON 2

902HM100AE SHEET 1

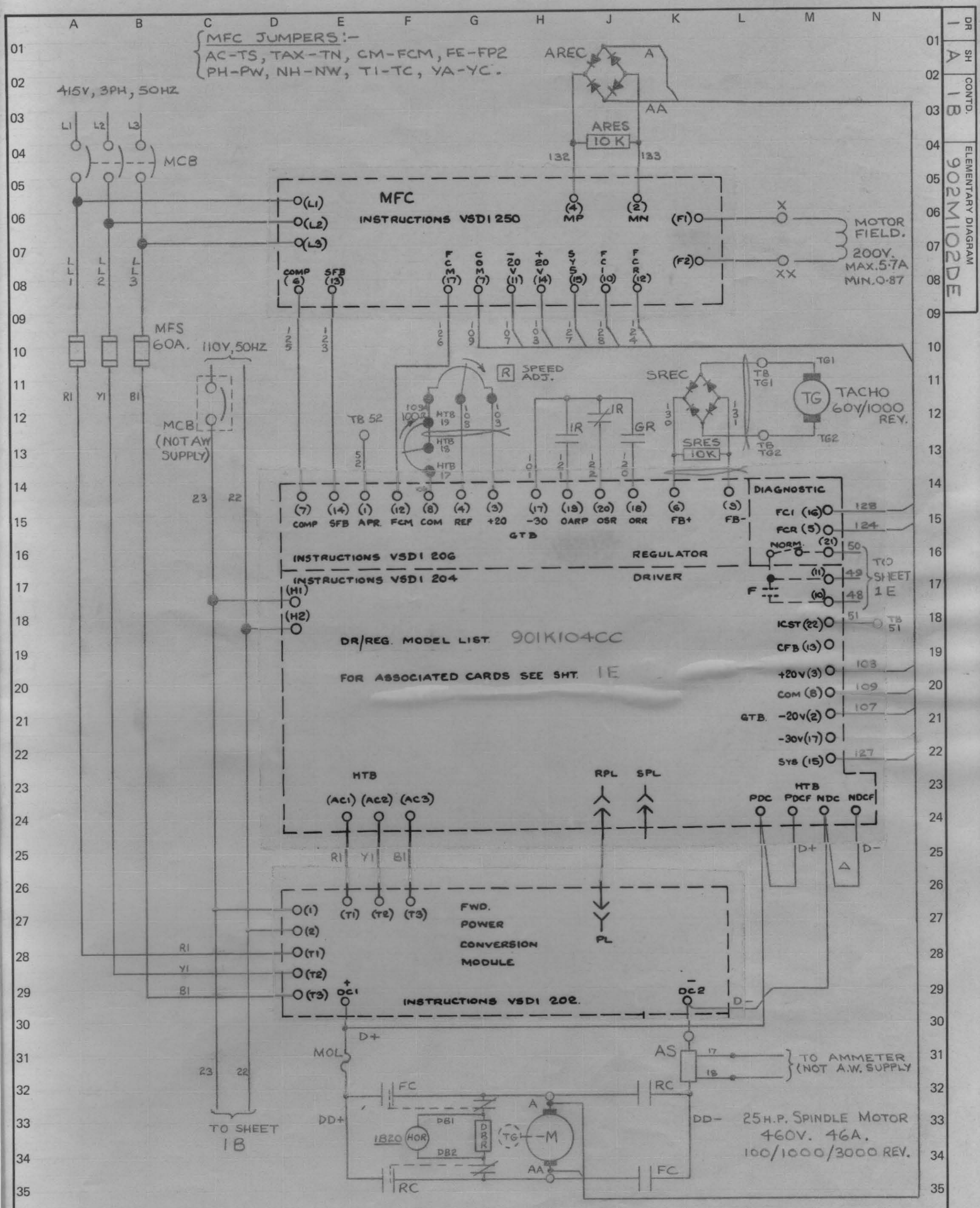
CONT.ON SH. 2	SH.NO. 1	902M102DE

ELEMENTARY DIAGRAM NOTES
ASQUITH ELECTRIC
25 H.P. SPINDLE DRIVE.
BDC 3062

DATE 14-12-77 ISSUED
APPD

ALLENWEST
VARIABLE SPEED DRIVES OPERATION
BRIGHTON, ENGLAND

RE-DRAWN 14-12-77
FIRST MADE FOR 746N13/01A



TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE 13-12-77
						TECHN.
						ENG.
						APPD.

ALLENWEST Simplex GE
VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.

ASQUITH ELECTRIC
25 H.P. SPINDLE DRIVE.
BDC 3062

GO NUMBER	ELEMENTARY DIAGRAM	CONTD.	IDENT DR	IDENT SH
746N13/01	902M102DE	1B	1	A

DR 1 SH A CONTD. 1B ELEMENTARY DIAGRAM 902M102DE

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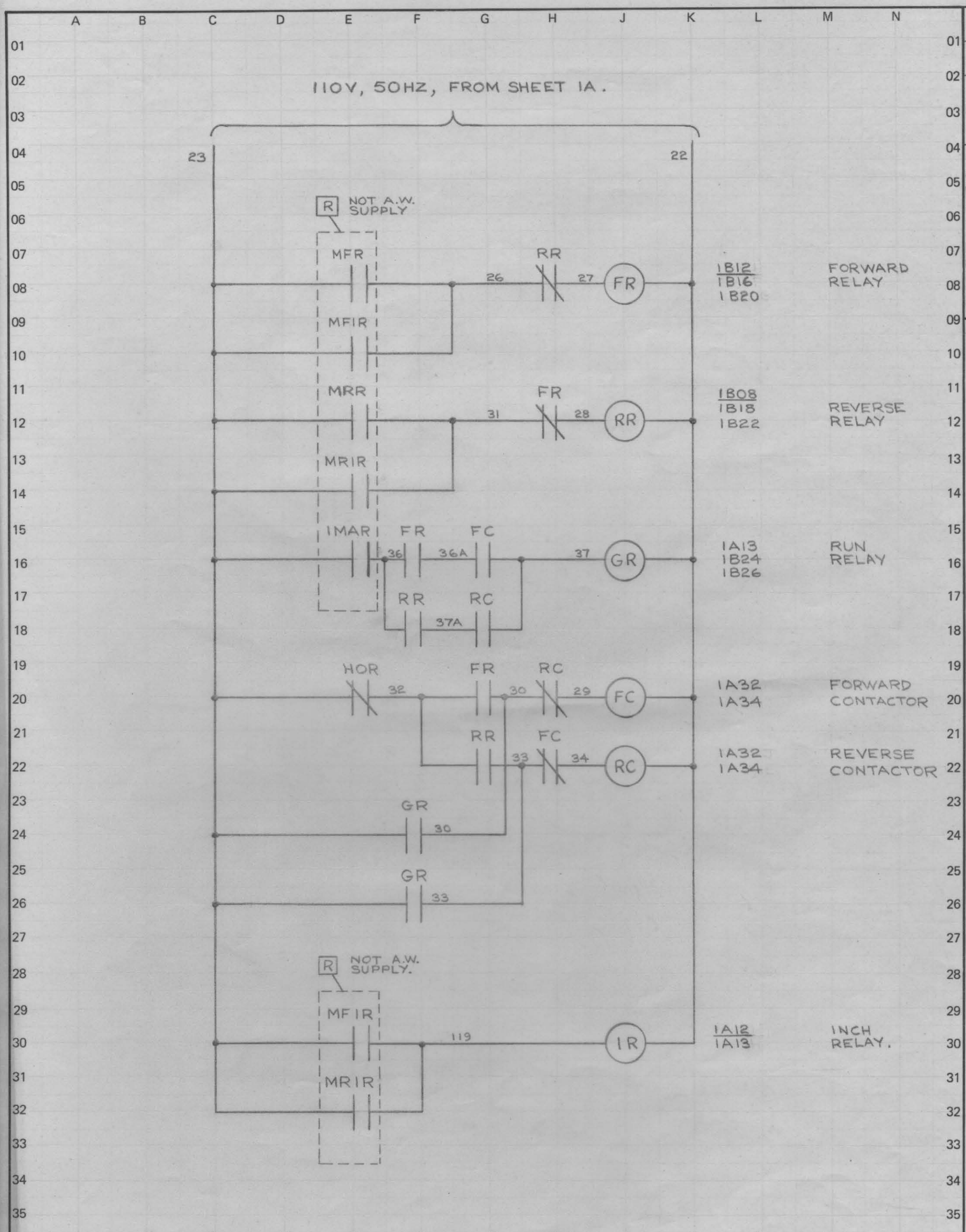

TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE 13-12-77
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ALLENWEST
Simplex
VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.

ASQUITH ELECTRIC
25 H.P. SPINDLE DRIVE
BDC 3062

GO NUMBER	ELEMENTARY DIAGRAM	CONTD.	IDENT DR	IDENT SH
746N13/01	902M102DE	1C	1	B

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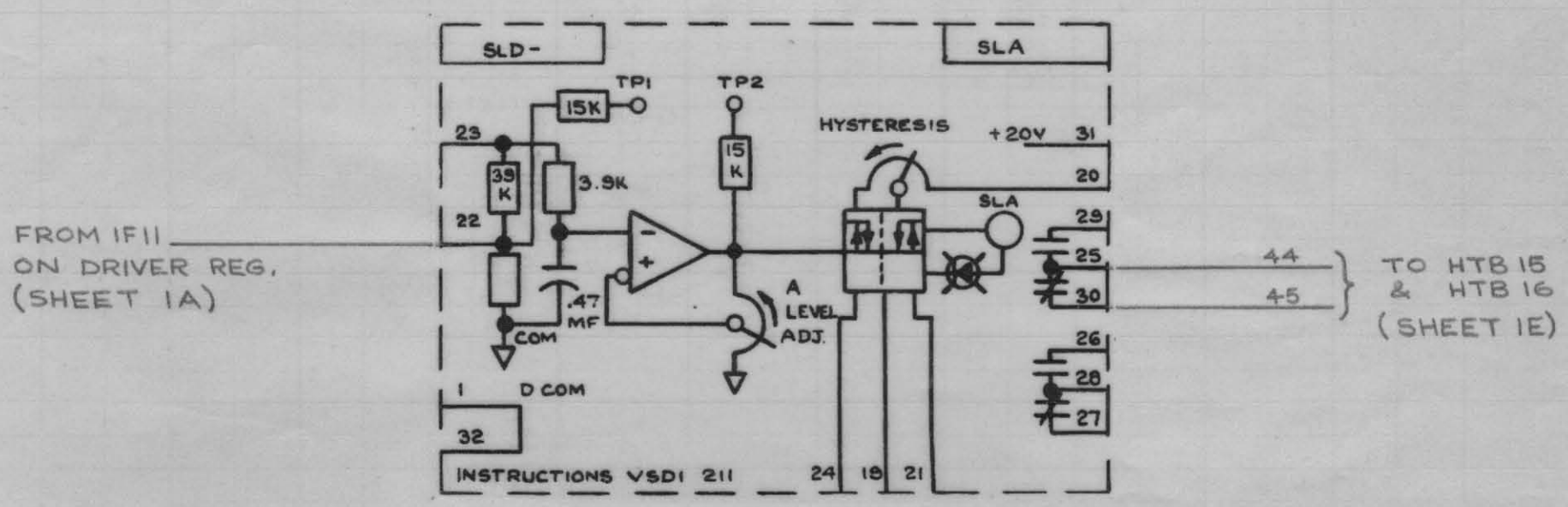

DR 1 SH C CONTD. 1D ELEMENTARY DIAGRAM 902M102DE

TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE 13-12-77
						TECHN.
						ENG.
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ALLENWEST Simplex GE
VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.

ASQUITH ELECTRIC
25 H.P. SPINDLE DRIVE
BDC 3062

GO NUMBER	ELEMENTARY DIAGRAM	CONTD.
746N13/01	902M102DE	1D

IDENT DR 1 SH C

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VARIABLE SPEED DRIVES OPERATION

SILCON DRIVE SYSTEM

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VOLTAGE ___ CURRENT ___ DC TACH ✓ AC TACH ___

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FWD ___ REV ___ EXTERNAL ✓

REGULATOR COMPENSATION
NONE ✓ LOAD ___

RESPONSE
NORMAL ✓ LOW ___

CURRENT LIMIT
150%

SEE SYSTEM ELEMENTARY FOR ADDITIONAL REGULATOR CIRCUITRY ✓

TOP SPEED/BASE SPEED
0.9-1.0 ___ 1.0-1.1 ___ 1.1-1.2 ___ 1.2-1.2 ___ 1.3-1.5 ___
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2.5-2.7 ___ 2.7-3.0 ✓ 3.0-3.3 ___ 3.3-3.7 ___

DRIVER/REGULATOR INCLUDES INSTRUMENT FUNCTION ✓
DIAGNOSTIC FUNCTION ✓

SIGNAL LEVEL DETECTOR

902HM100AE SHEET 1

CONT. ON SH. 2	SH. NO. 1	902M102XB

DATE 8-7-77
ISSUED RKW
APPD.

FIRST MADE FOR 717N07

ALLENWEST
VARIABLE SPEED DRIVES OPERATION
BRIGHTON, ENGLAND

ELEMENTARY DIAGRAM NOTES
50 HP REGENERATIVE BDC 3062
CONTROLLER FOR ASQUITH ELECTRICS

902M102XB SH. NO 1 CONT. ON 2

DRIVE NUMBERING SYSTEM

1. TO BREAK THE ELEMENTARY DIAGRAM INTO EASY-TO-USE SECTIONS, A SERIES OF ARBITRARY "DRIVES" HAS BEEN ESTABLISHED, WITH THE ELEMENTARY SHEETS ALPHABETICALLY NUMBERED IN EACH DRIVE. FOR EXAMPLE: SHEETS 3A, 3B AND 3C ARE THE FIRST THREE ELEMENTARY SHEETS IN DRIVE NO.3.

2. THE DRIVE CONCEPT IS ESTABLISHED TO CONVENIENTLY SECTIONALIZE THE ELEMENTARY DIAGRAM, AND NOT NECESSARILY TO DENOTE SEPARATE PHYSICAL EQUIPMENTS. HOWEVER, ALL THE SYSTEM ELEMENTS INCLUDED IN A DRIVE WILL BEAR AN OBVIOUS FUNCTIONAL RELATIONSHIP.

WIRE NUMBERING SYSTEM

1. CONTROL WIRES:

WIRE NUMBERS ARE SHOWN ON EACH SHEET AS TWO-DIGIT NUMBERS (E.G. 01, 02, 10, 42 ETC.) EXCEPT FOR WIRES ORIGINATING ON ANOTHER SHEET, WHICH ARE SHOWN AS 4-DIGIT OR 5-DIGIT NUMBERS. IN ALL CASES, THE COMPLETE WIRE NUMBER (WHICH APPEARS ON THE ACTUAL WIRES IN THE EQUIPMENT AND ON THE TERMINAL BOARDS) IS A 4-DIGIT OR 5-DIGIT NUMBER. THE FIRST TWO OR THREE DIGITS INDICATE THE NUMBER OF THE ELEMENTARY DIAGRAM SHEET ON WHICH THE WIRE ORIGINATES AND THE LAST TWO DIGITS INDICATE THE WIRE ON THAT SHEET. THUS 2A04 INDICATES WIRE NUMBER 04 ORIGINATING ON SHEET 2A OF THE DIAGRAM; AND 15C34 INDICATES WIRE NUMBER 34 ORIGINATING ON SHEET 15C.

2. POWER WIRES:

DC POWER WIRES ARE HANDLED IN THE SAME WAY AS CONTROL WIRES EXCEPT THAT THE LETTER "P" IS INSERTED; ie. 1AP1, 3EP9. AC POWER WIRES USE LETTERS SUCH AS L,K,T & AC WITHOUT THE SHEET NUMBER; ie, L1, L2, L3, K13, K14, K15,AC1,AC2.

LOCATING MAPPING SYSTEM

4 OR 5 DIGIT NUMBERS WITHIN BRACKETS, SUCH AS (15C35), ALWAYS INDICATE A LOCATION WITHIN THE ELEMENTARY DIAGRAMS. THE LAST TWO DIGITS OF THE BRACKETED NUMBER INDICATE THE LINE NUMBER ON A SHEET AND THE FIRST TWO OR THREE DIGITS INDICATE WHICH SHEET; THUS (15C35) INDICATES LINE 35 ON SHEET 15C.

RELAY MAPPING SYSTEM

1. UNDER EACH CONTACT (EXCEPT MAIN CONTACTS OF CONTACTORS AND STARTERS) A LOCATION MAPPING NUMBER INDICATES WHERE THE OPERATING COIL IS TO BE FOUND IN THE ELEMENTARY DIAGRAMS.

2. IN THE DIAGRAM MARGIN BESIDE EACH OPERATING COIL, LOCATION NUMBERS GIVE THE LOCATION OF DEVICE CONTACTS THAT ARE USED. LOCATION NUMBERS AT OPERATING COILS DIFFER FROM THE USUAL LOCATION NUMBERING SYSTEM IN THAT;

   A) THE BRACKETS ARE ELIMINATED, AND
   B) UNDERSCORING INDICATES A NORMALLY CLOSED CONTACT AND LACK OF UNDERSCORING INDICATES A NORMALLY OPEN CONTACT.

   THUS 3B56 INDICATES A NORMALLY OPEN CONTACT LOCATED ON LINE 56 OF SHEET 3B OF THE ELEMENTARY DIAGRAM, AND 13B48 INDICATES A NORMALLY CLOSED CONTACT LOCATED ON SHEET 13B, LINE 48.

   AGAIN MAIN CONTACTS OF CONTACTORS AND STARTERS ARE NOT "MAPPED".

CONTACTS FOR PURCHASER'S USE

CONTACTS FOR PURCHASER'S USE WILL BE SHOWN ISOLATED, IN THE BODY OF THE DIAGRAM, AS NEAR AS CONVENIENT TO THE ASSOCIATED OPERATING COIL.

WIRE NUMBERS WILL BE SHOWN ON THE WIRES COMING OUT OF THE CONTACT WITH THE LABEL "FOR PURCHASER'S USE" OR SIMILAR WORDING.

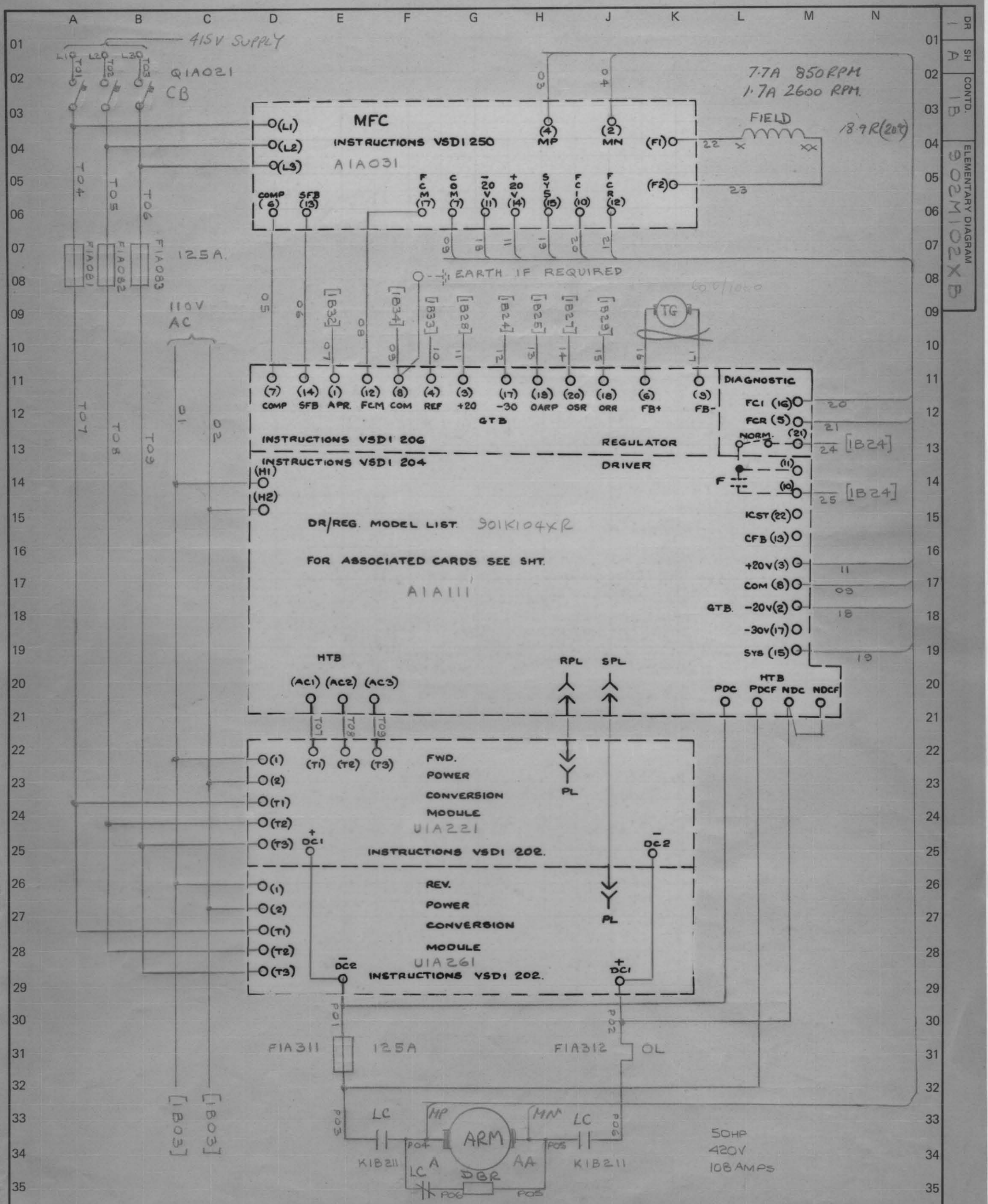
THESE CONTACTS WILL ALSO BE "MAPPED" AT THE COIL LOCATION.

IN THE ACTUAL EQUIPMENT, THESE WIRES WILL BE RUN TO THE TERMINAL BOARD, WHICH WILL BE MARKED WITH THE WIRE NUMBERS'.

WHEN KNOWN, PURCHASERS WIRE NUMBERS WILL BE USED.

CONTINUATION OF WIRES ON OTHER SHEETS

WHERE A WIRE IS CONTINUED FROM ONE SHEET TO ANOTHER, THE POINT OF ITS CONTINUATION IS INDICATED BY A BRACKETED LOCATION MAPPING NUMBER. THE FULL WIRE NUMBER MAY ALSO BE SHOWN.



TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE 10.6.77	ALLENWEST Simplex	50 HP REGENERATIVE BDC 3062 CONTROLLER FOR ASQUITH ELECTRICS	IDENT
						TECHN. RKW	VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.		DR 1 / SH A
						ENG. F.R.S		GO NUMBER 717N07 / ELEMENTARY DIAGRAM 902M102XB	CONTD. 1B
						APPD.			

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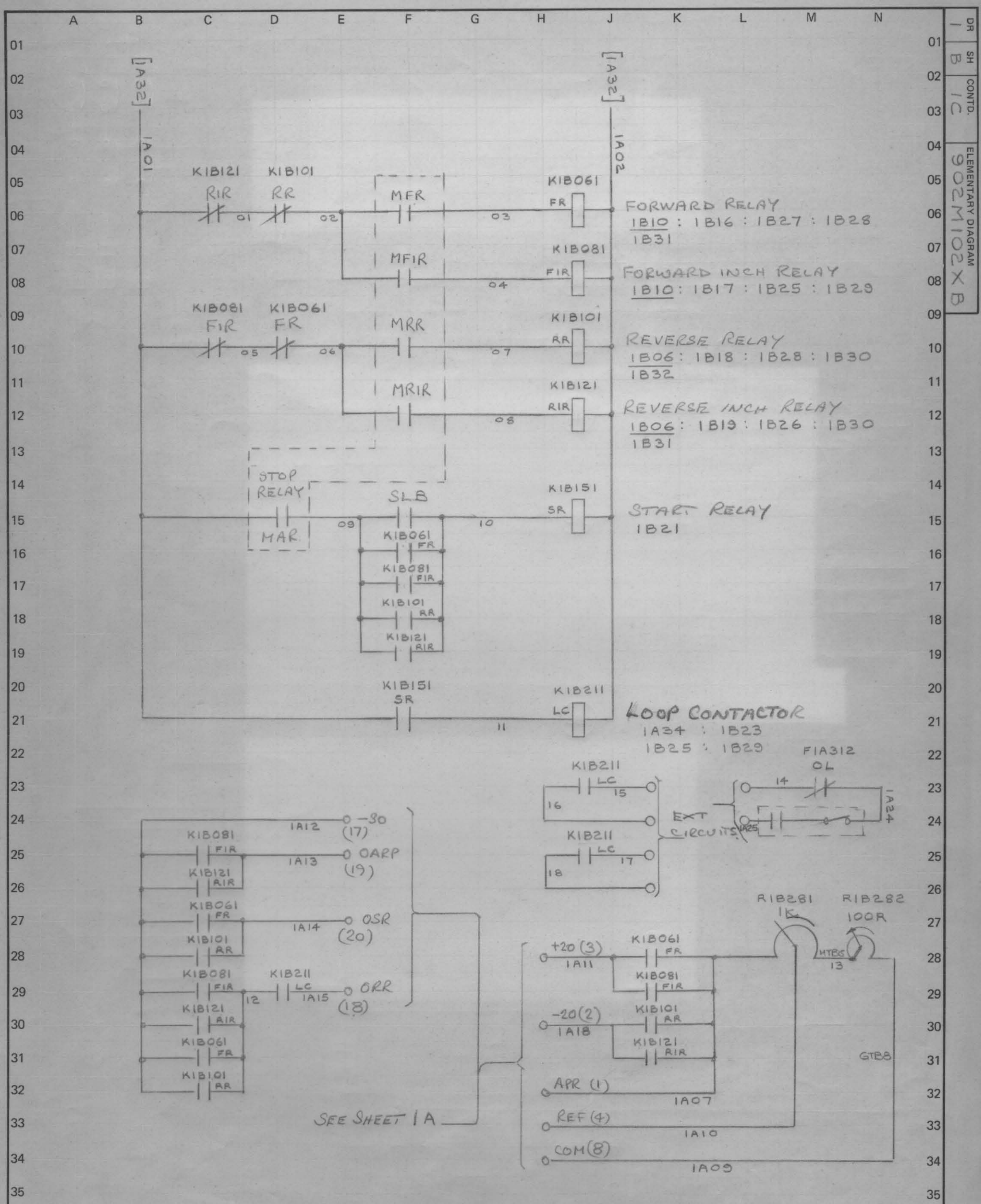

TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE 10·6·77
						TECHN. RKW
						ENG. F.RS
						APPD.

ALLENWEST
Simplex
VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.

50 HP REGENERATIVE BDC 3062
CONTROLLER FOR ASQUITH ELECTRICS

GO NUMBER	ELEMENTARY DIAGRAM	CONTD.
717N07	902M102XB	1C

IDENT

DR	SH
1	B

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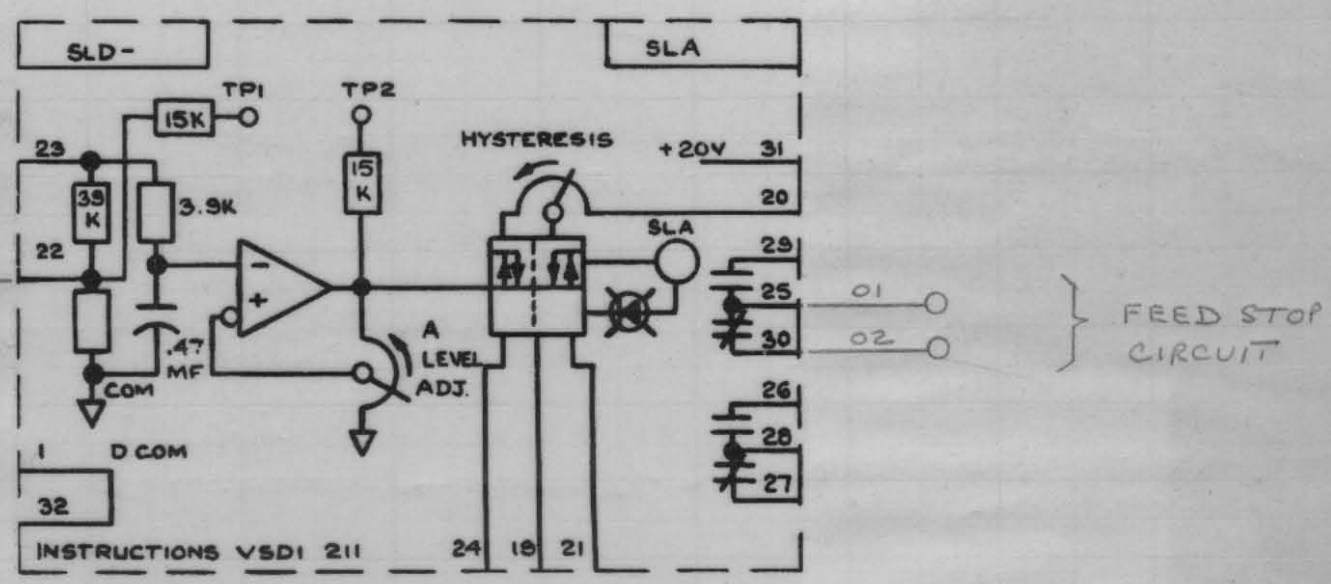
FUNCTIONAL BLOCK DIAGRAM

SIGNAL LEVEL DETECTOR.

G01 SLA

G02 SLA & SLB

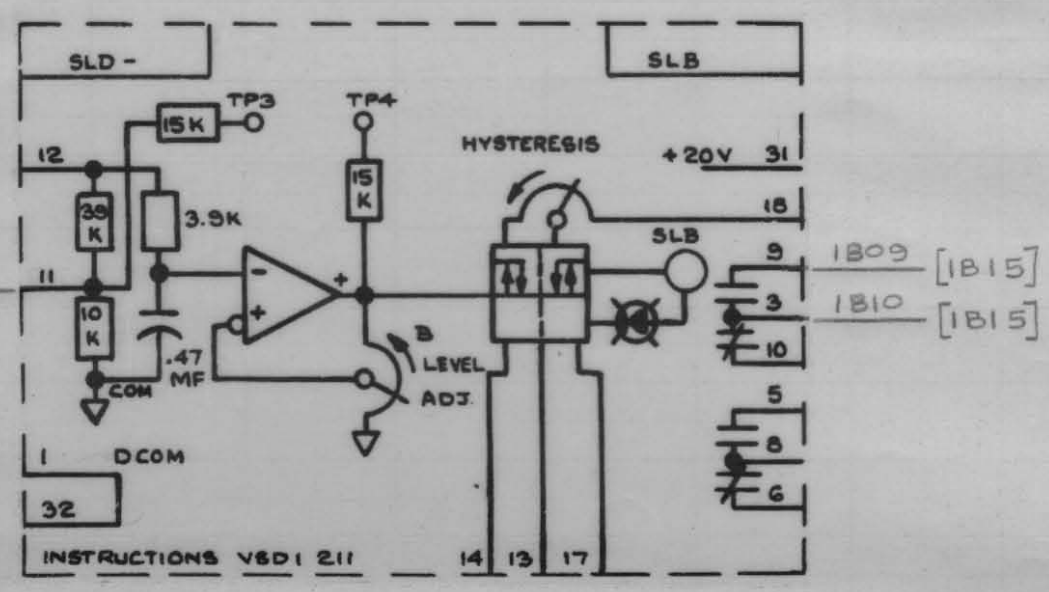
CURRENT SIGNAL
CARD POS. 1H
PIN No. 7X
SET AT 105% FLC



FEED STOP CIRCUIT

TACHO SPEED
SIGNAL.

CARD POS^N. 1H
PIN No. 19X



TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE 10.6.77
						TECHN. RKW
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						APPD.

ALLENWEST

Simplex

VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.

50 HP REGENERATIVE BDC 3062 CONTROLLER FOR ASQUITH ELECTRICS

GO NUMBER	ELEMENTARY DIAGRAM	CONTD.
717N07	902M102XB	1D

IDENT

DR	SH
1	C

DR 1 SH C CONTD. 1D ELEMENTARY DIAGRAM 902M102XB

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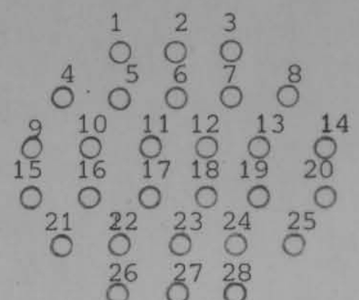
SKETCH "A"



FRONT VIEW
FROM PLUG SIDE

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

THE PRINTED CIRCUIT CARDS 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 OPER-ATION. CARE SHOULD BE EXERCISED IN HANDLING ALL CARDS AFTER RE-MOVAL UNTIL THESE PARTS HAVE COOLED.

(FRONT VIEW OF RACK IN CLOSED POSITION)

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

32X --32
31X --31
30X --30
29X --29
28X --28
27X --27
26X --26
25X --25
24X --24
23X --23
22X --22
21X --21
20X --20
19X --19
18X --18
17X --17
16X --16
15X --15
14X --14
13X--13
12X --12
11X --11
10X --10
9X --9
8X --8
7X --7
6X --6
5X --5
4X --4
3X --3
2X --2
1X --1

SYMBOLS

● - TEST POST

POT ADJUSTMENT

INDICATING LIGHT

CONT ON SH. 1E	SH.NO. 1D	ELEMENTARY DIAGRAM 902M102XB

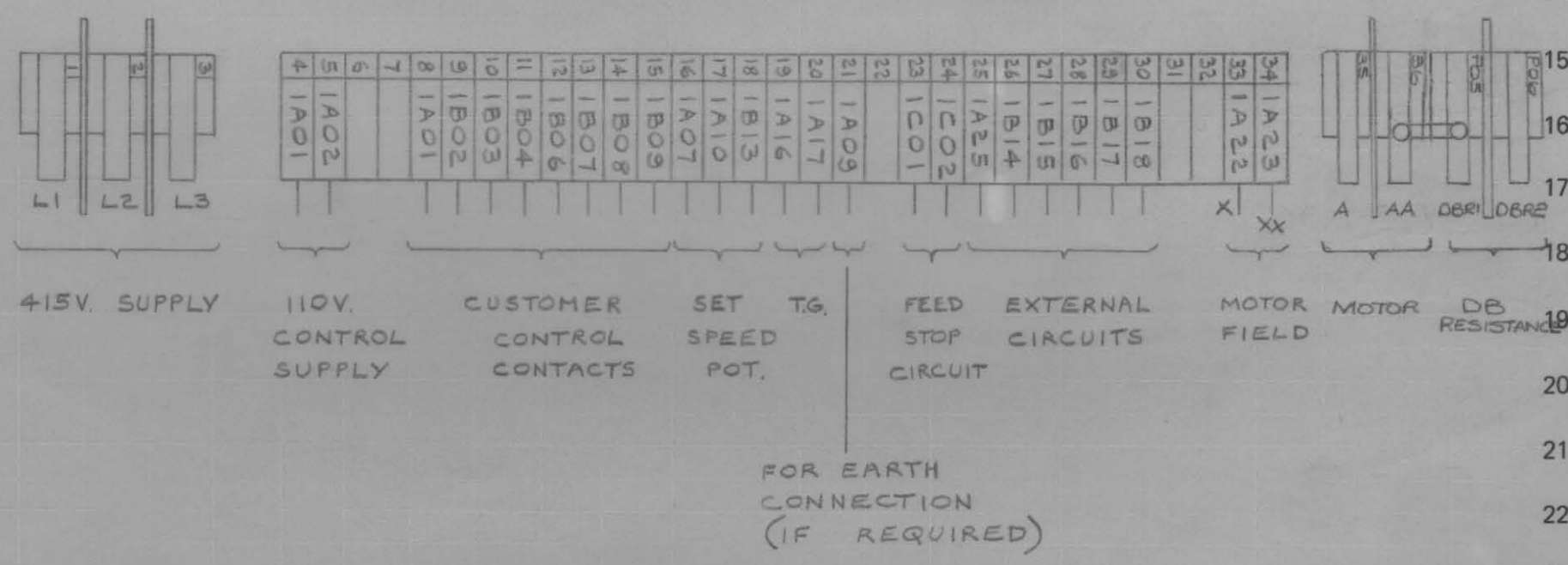
DATE 8-7-77
ISSUED RKW
APPD.

ALLENWEST
VARIABLE SPEED DRIVES OPERATION
BRIGHTON, ENGLAND

4 QUAD DRIVER/REGULATOR LAYOUT
50 HP REGENERATIVE BDC 3062
CONTROLLER FOR ASQUITH ELECTRICS

902HM100AF SHEET 2 FIRST MADE FOR

902M102XB 1D SH NO 1E



TERMINAL ARRANGEMENT

TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE 8-7-77	ALLENWEST Simplex VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.	50 HP REGENERATIVE BDC 3062 CONTROLLER FOR ASQUITH ELECTRICS	IDENT
						TECHN. RKW			DR 1 / SH E
						ENG. FRS		GO NUMBER 717N07 / ELEMENTARY DIAGRAM 902M102XB / CONTD. FL	
						APPD.			

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902M102YC
SH. No 1
CONTD. ON 2

VARIABLE SPEED DRIVES OPERATION

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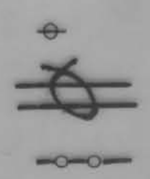

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0 SEC___ 0.5-3SEC ✓
3-30SEC___ 30- SEC___

TACHOMETER VOLTAGE
43-62 VDC,26-48 VAC___ 60-115 VDC, 47-85VAC___
100-200VDC, 82-152VAC ✓ 180-380VDC,151-275VAC___

AUXILIARY PRESET REFERENCE
NONE___ TIMED___ UNTIMED ✓

AUXILIARY PRESET REF DIRECTION
FWD___ REV___ EXTERNAL ✓

REGULATOR COMPENSATION
NONE ✓ LOAD_____

RESPONSE
NORMAL ✓ LOW___

CURRENT LIMIT
150 %

SEE SYSTEM ELEMENTARY FOR ADDITIONAL REGULATOR CIRCUITRY ✓

TOP SPEED/BASE SPEED
0.9-1.0___ 1.0-1.1___ 1.1-1.2___ 1.2-1.2___ 1.3-1.5___
1.5-1.6___ 1.6-1.8___ 1.8-2.0___ 2.0-2.2___ 2.2-2.5___
2.5-2.7___ 2.7-3.0 ✓ 3.0-3.3___ 3.3-3.7___

DRIVER/REGULATOR INCLUDES INSTRUMENT FUNCTION ✓
DIAGNOSTIC FUNCTION ✓
SIGNAL LEVEL DETECTOR ✓

902HM100AE SHEET 1

DATE 17-2-78
ISSUED RKW
APPD.
FIRST MADE FOR 749NO2

ALLENWEST
VARIABLE SPEED DRIVES OPERATION
BRIGHTON, ENGLAND

CONT.ON SH. 2 | SH.NO. 1 | 902M102YC

ELEMENTARY DIAGRAM NOTES
20 HP REGENERATIVE BDC3062
CONTROLLER FOR ASQUITH ELECTRICS

DRIVE NUMBERING SYSTEM

1. TO BREAK THE ELEMENTARY DIAGRAM INTO EASY-TO-USE SECTIONS, A SERIES OF ARBITRARY "DRIVES" HAS BEEN ESTABLISHED, WITH THE ELEMENTARY SHEETS ALPHABETICALLY NUMBERED IN EACH DRIVE. FOR EXAMPLE: SHEETS 3A, 3B AND 3C ARE THE FIRST THREE ELEMENTARY SHEETS IN DRIVE NO.3.

2. THE DRIVE CONCEPT IS ESTABLISHED TO CONVENIENTLY SECTIONALIZE THE ELEMENTARY DIAGRAM, AND NOT NECESSARILY TO DENOTE SEPARATE PHYSICAL EQUIPMENTS. HOWEVER, ALL THE SYSTEM ELEMENTS INCLUDED IN A DRIVE WILL BEAR AN OBVIOUS FUNCTIONAL RELATIONSHIP.

WIRE NUMBERING SYSTEM

1. CONTROL WIRES:

WIRE NUMBERS ARE SHOWN ON EACH SHEET AS TWO-DIGIT NUMBERS (E.G. 01, 02, 10, 42 ETC.) EXCEPT FOR WIRES ORIGINATING ON ANOTHER SHEET, WHICH ARE SHOWN AS 4-DIGIT OR 5-DIGIT NUMBERS. IN ALL CASES, THE COMPLETE WIRE NUMBER (WHICH APPEARS ON THE ACTUAL WIRES IN THE EQUIPMENT AND ON THE TERMINAL BOARDS) IS A 4-DIGIT OR 5-DIGIT NUMBER. THE FIRST TWO OR THREE DIGITS INDICATE THE NUMBER OF THE ELEMENTARY DIAGRAM SHEET ON WHICH THE WIRE ORIGINATES AND THE LAST TWO DIGITS INDICATE THE WIRE ON THAT SHEET. THUS 2A04 INDICATES WIRE NUMBER 04 ORIGINATING ON SHEET 2A OF THE DIAGRAM; AND 15C34 INDICATES WIRE NUMBER 34 ORIGINATING ON SHEET 15C.

2. POWER WIRES:

DC POWER WIRES ARE HANDLED IN THE SAME WAY AS CONTROL WIRES EXCEPT THAT THE LETTER "P" IS INSERTED; ie. 1AP1, 3EP9. AC POWER WIRES USE LETTERS SUCH AS L,K,T & AC WITHOUT THE SHEET NUMBER; ie, L1, L2, L3, K13, K14, K15,AC1,AC2.

LOCATING MAPPING SYSTEM

4 OR 5 DIGIT NUMBERS WITHIN BRACKETS, SUCH AS (15C35), ALWAYS INDICATE A LOCATION WITHIN THE ELEMENTARY DIAGRAMS. THE LAST TWO DIGITS OF THE BRACKETED NUMBER INDICATE THE LINE NUMBER ON A SHEET AND THE FIRST TWO OR THREE DIGITS INDICATE WHICH SHEET; THUS (15C35) INDICATES LINE 35 ON SHEET 15C.

RELAY MAPPING SYSTEM

1. UNDER EACH CONTACT (EXCEPT MAIN CONTACTS OF CONTACTORS AND STARTERS) A LOCATION MAPPING NUMBER INDICATES WHERE THE OPERATING COIL IS TO BE FOUND IN THE ELEMENTARY DIAGRAMS.

2. IN THE DIAGRAM MARGIN BESIDE EACH OPERATING COIL, LOCATION NUMBERS GIVE THE LOCATION OF DEVICE CONTACTS THAT ARE USED. LOCATION NUMBERS AT OPERATING COILS DIFFER FROM THE USUAL LOCATION NUMBERING SYSTEM IN THAT;

   A) THE BRACKETS ARE ELIMINATED, AND
   B) UNDERSCORING INDICATES A NORMALLY CLOSED CONTACT AND LACK OF UNDERSCORING INDICATES A NORMALLY OPEN CONTACT.

   THUS 3B56 INDICATES A NORMALLY OPEN CONTACT LOCATED ON LINE 56 OF SHEET 3B OF THE ELEMENTARY DIAGRAM, AND 13B48 INDICATES A NORMALLY CLOSED CONTACT LOCATED ON SHEET 13B, LINE 48.

   AGAIN MAIN CONTACTS OF CONTACTORS AND STARTERS ARE NOT "MAPPED".

CONTACTS FOR PURCHASER'S USE

CONTACTS FOR PURCHASER'S USE WILL BE SHOWN ISOLATED, IN THE BODY OF THE DIAGRAM, AS NEAR AS CONVENIENT TO THE ASSOCIATED OPERATING COIL.

WIRE NUMBERS WILL BE SHOWN ON THE WIRES COMING OUT OF THE CONTACT WITH THE LABEL "FOR PURCHASER'S USE" OR SIMILAR WORDING.

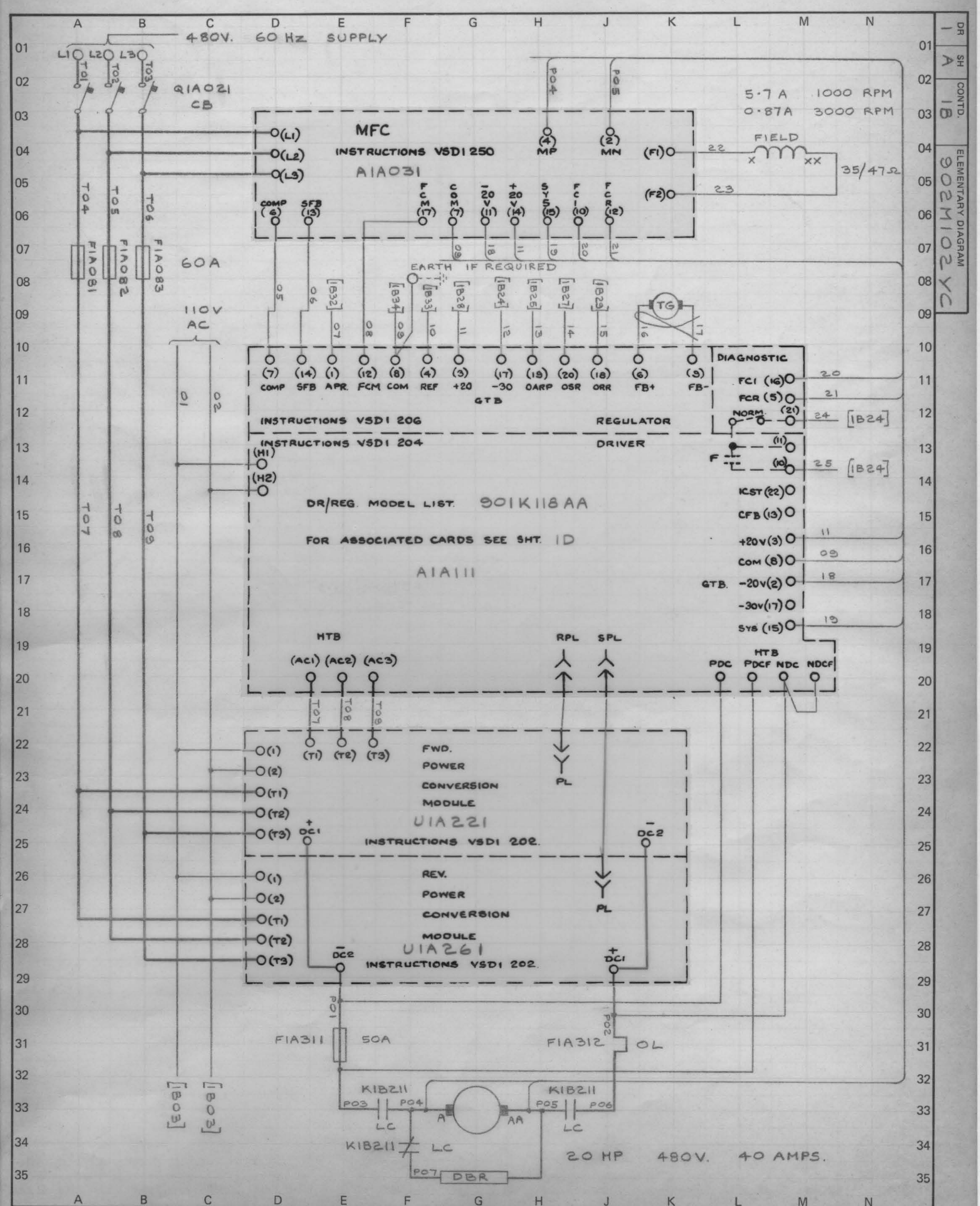
THESE CONTACTS WILL ALSO BE "MAPPED" AT THE COIL LOCATION.

IN THE ACTUAL EQUIPMENT, THESE WIRES WILL BE RUN TO THE TERMINAL BOARD, WHICH WILL BE MARKED WITH THE WIRE NUMBERS.

WHEN KNOWN, PURCHASERS WIRE NUMBERS WILL BE USED.

CONTINUATION OF WIRES ON OTHER SHEETS

WHERE A WIRE IS CONTINUED FROM ONE SHEET TO ANOTHER, THE POINT OF ITS CONTINUATION IS INDICATED BY A BRACKETED LOCATION MAPPING NUMBER. THE FULL WIRE NUMBER MAY ALSO BE SHOWN.



TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE 17-2-78	ALLENWEST Simplex	20 HP REGENERATIVE BDC 3062 CONTROLLER FOR ASQUITH ELECTRICS	IDENT
						TECHN. RKW	VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.	GO NUMBER 749N02 / ELEMENTARY DIAGRAM 902M102YC / CONTD. 1B	DR 1 / SH A
						ENG. RJV			
						APPD.			

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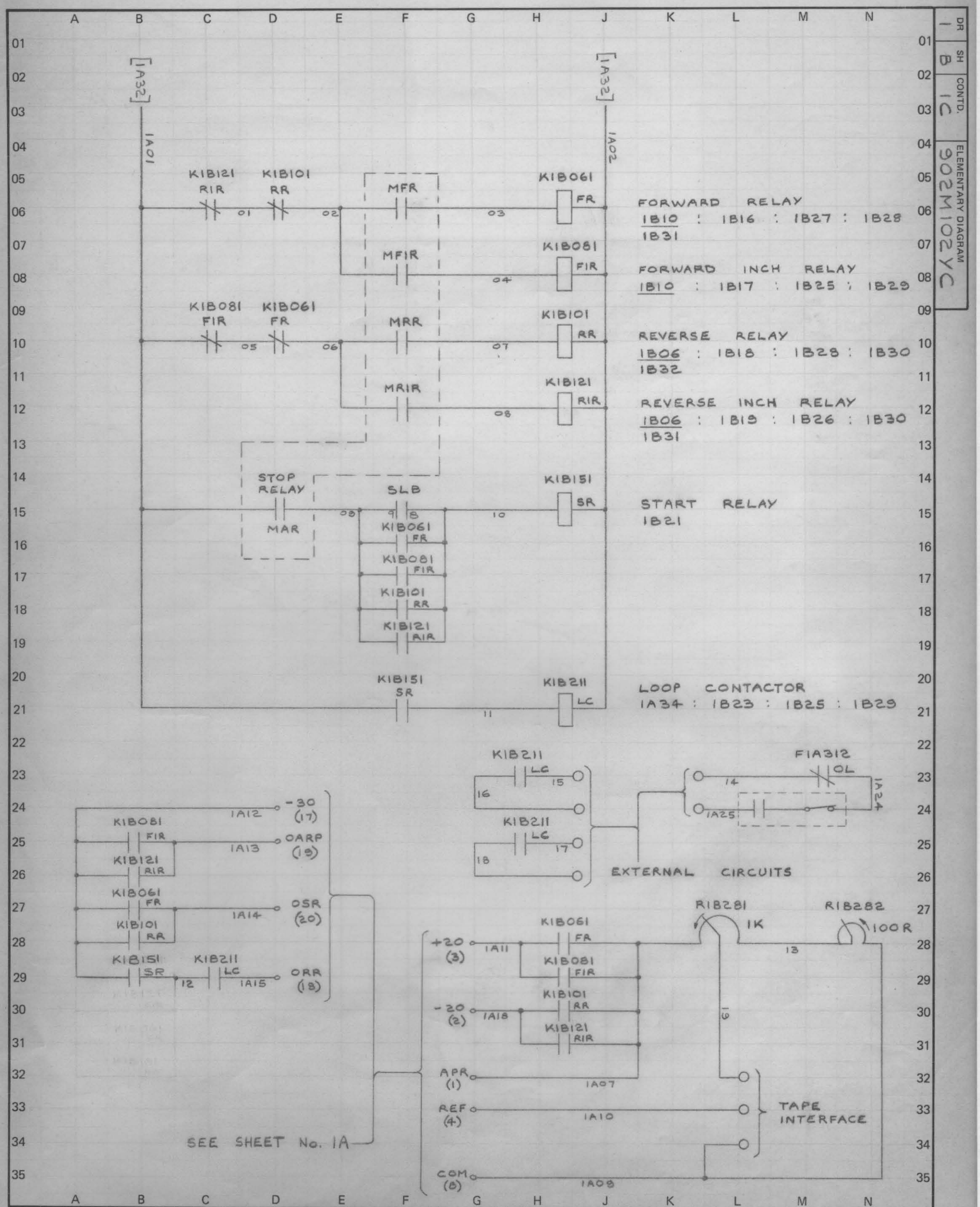

TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE 17-2-78	ALLENWEST Simplex VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.	20 HP REGENERATIVE BDC 3062 CONTROLLER FOR ASQUITH ELECTRICS	IDENT
						TECHN. RKW			
						ENG. RJV			DR 1 / SH B
						APPD.		GO NUMBER 749N02 / ELEMENTARY DIAGRAM 902M102YC / CONTD. 1C	

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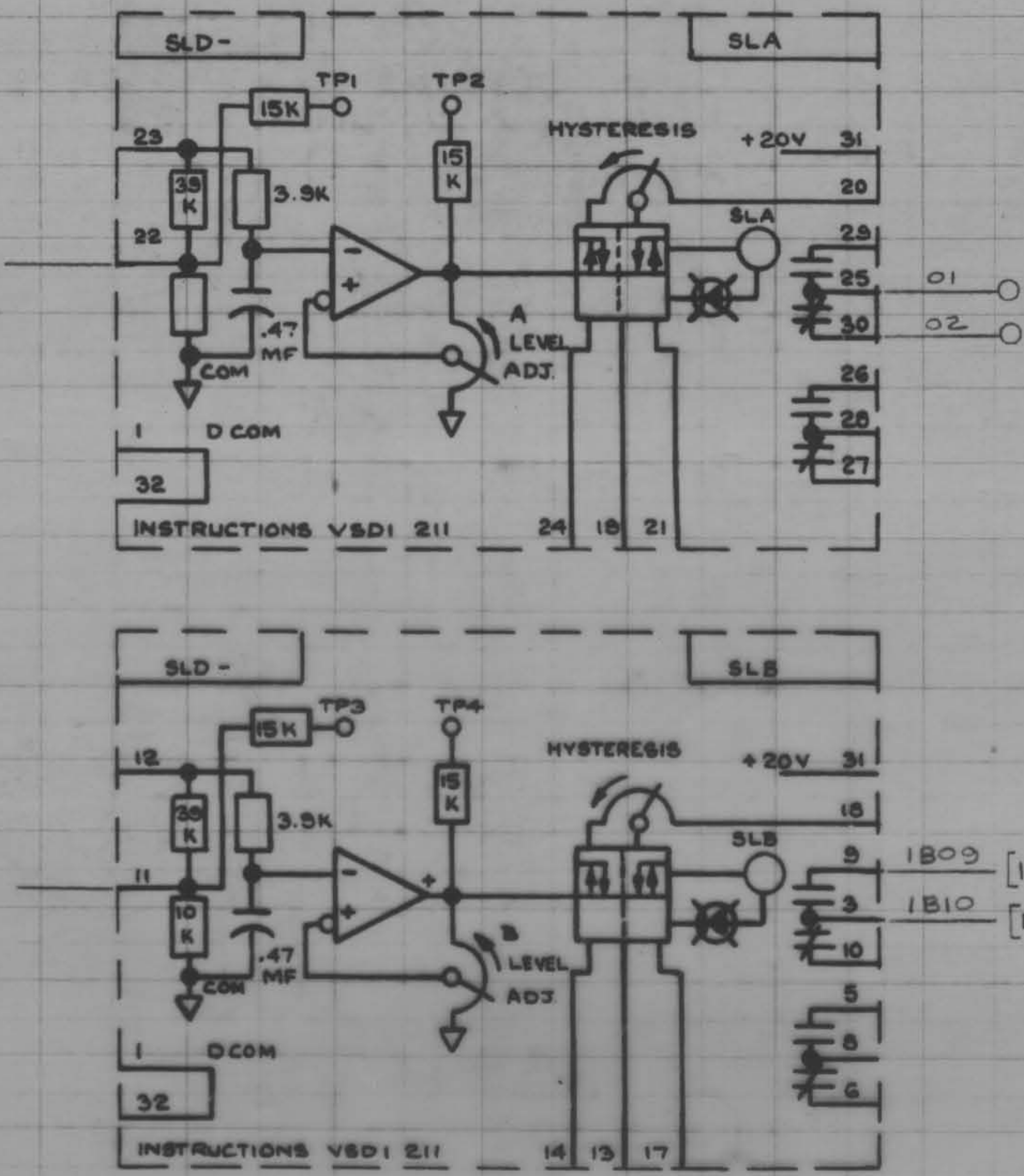
FUNCTIONAL BLOCK DIAGRAM

SIGNAL LEVEL DETECTOR.

G01 SLA

G02 SLA & SLB

CURRENT SIGNAL
CARD POS. 1H
PIN No. 7X
SET AT 105% FLC



FEED STOP CIRCUIT

TACHO SPEED SIGNAL.

CARD POSN. 1H
PIN No. 19X

TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE 17-2-78
						TECHN. RKW
						ENG. R[illegible]
						APPD.

ALLENWEST
Simplex GE
VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.

20 HP REGENERATIVE BDC 3062
CONTROLLER FOR ASQUITH ELECTRICS

GO NUMBER	ELEMENTARY DIAGRAM	CONTD.	IDENT	DR	SH
[illegible]	902M102[illegible]	1D		1	C

DR 1 | SH C | CONTD. 1D | ELEMENTARY DIAGRAM 902M102XC

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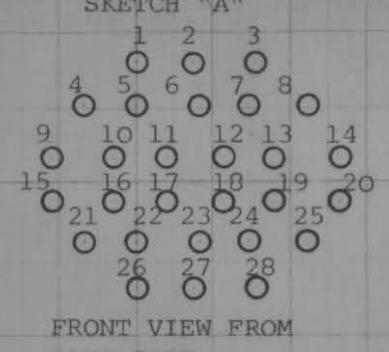
DR	SH	CONTD.	ELEMENTARY DIAGRAM
1	D	1E	902M102YC

SKETCH "A"

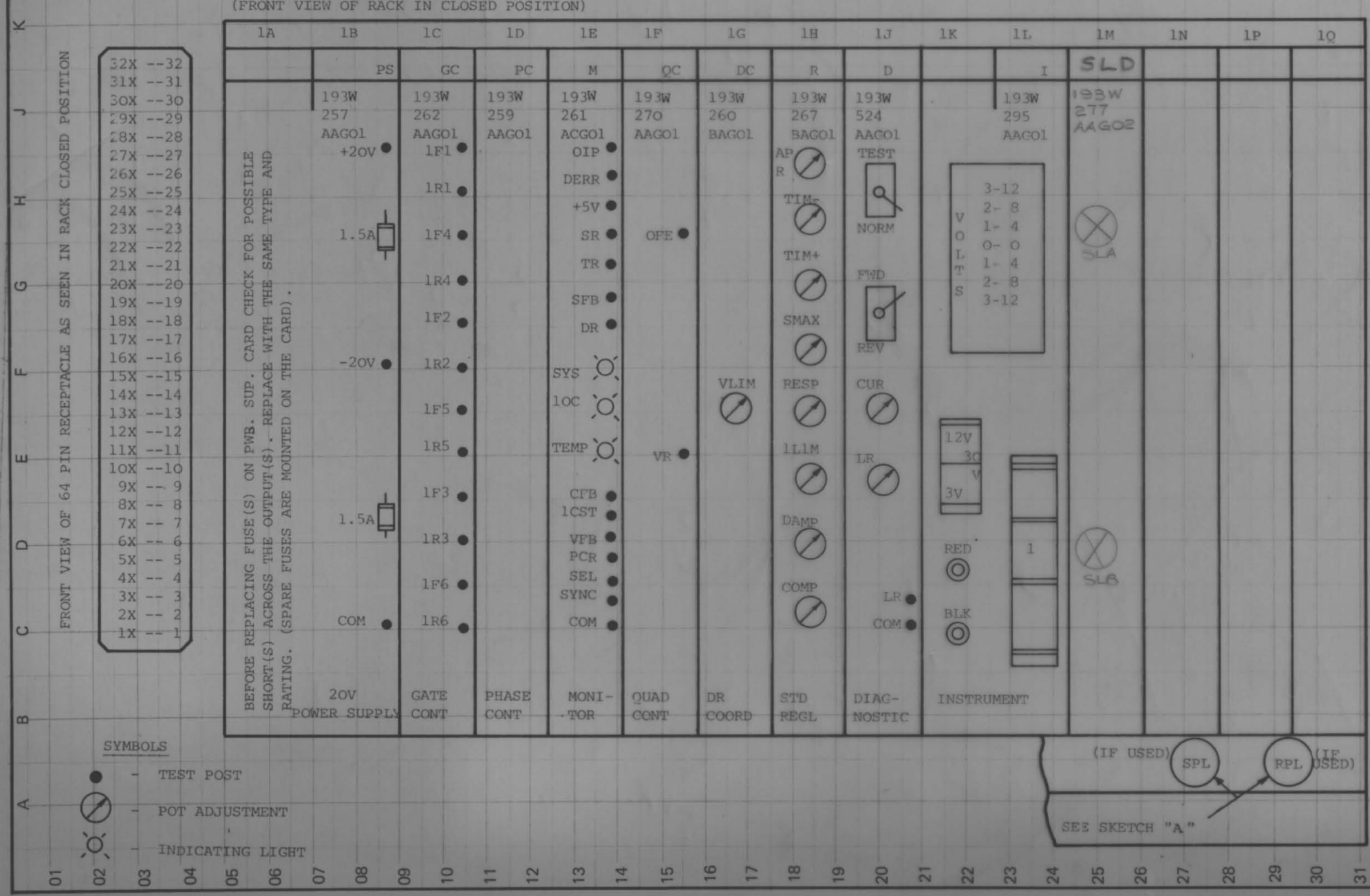


FRONT VIEW FROM PLUG SIDE

ON PRINTED CIRCUIT CARDS USED IN THIS RACK THE LETTERS "AA" AFTER THE BASIC CARD CATOLOGUE 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 CARDS 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.

(FRONT VIEW OF RACK IN CLOSED POSITION)



FOIL: 902HM100AR Sheet 2

TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE
						17-2-78
						TECHN. RKW
						ENG. RJV
						APPD.

20 HP REGENERATIVE BDC 3062
CONTROLLER FOR ASQUITH ELECTRICS
4 - QUADRANT DRIVER/REGULATOR
CARD FRAME LAYOUT

GO NUMBER 749N02 | ELEMENTARY DIAGRAM 902M102YC | CONTD. 1E | DR 1 | SH D | IDENT

ALLENWEST
SIMPLEX
VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.

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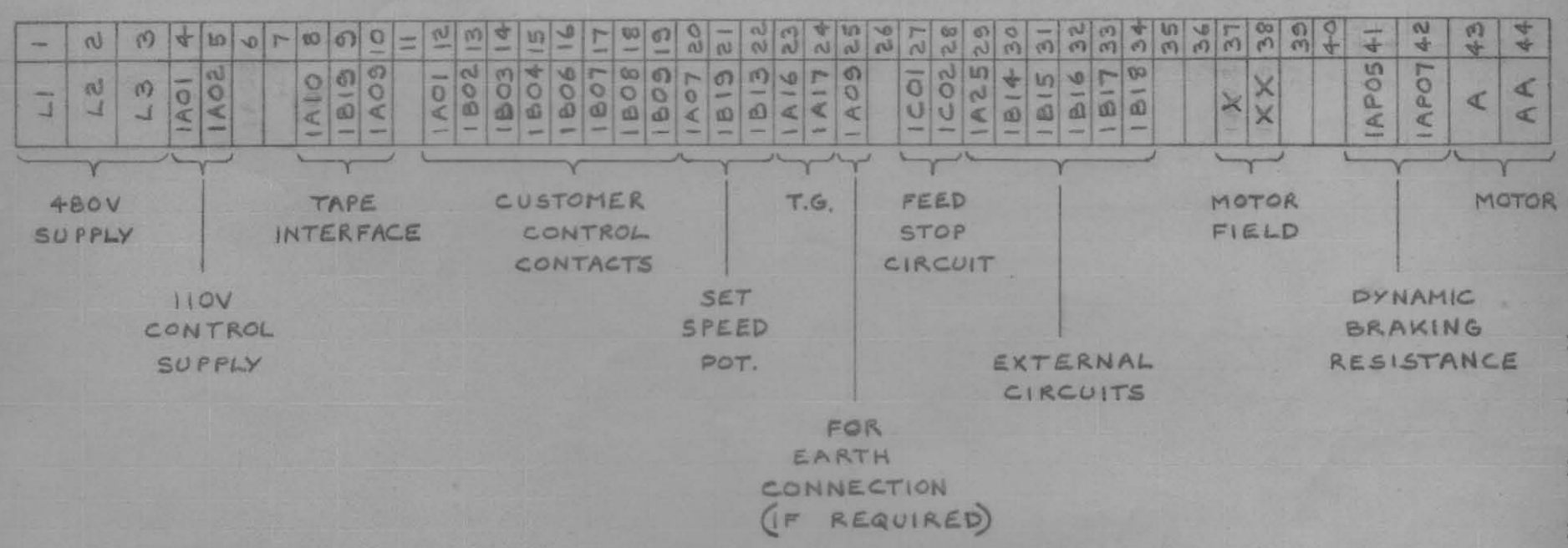

TERMINAL ARRANGEMENT

TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE 17-2-78	ALLENWEST Simplex VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.	20 HP REGENERATIVE BDC 3062 CONTROLLER FOR ASQUITH ELECTRICS	IDENT
						TECHN. RKW			DR 1 SH E
						ENG. RJV		GO NUMBER 749N02 / ELEMENTARY DIAGRAM 902M102YC / CONTD. FL	
						APPD.			

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VARIABLE SPEED DRIVES OPERATION

SILCON DRIVE SYSTEM

GENERAL NOMENCLATURE

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

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

SYMBOLS

- SCREENED LEADS
- TWISTED LEADS
- TERMINAL BOARD JUMPER
- M - MOUNTED IN MOTOR
- R - REMOTE MOUNTED DEVICE
- OS - DEVICES IN OPERATOR STATION

THE TABLE BELOW LISTS CONNECTIONS THAT HAVE BEEN MADE IN THE DRIVER/REGULATOR TO PROVIDE THE REQUIRED SYSTEM OPERATION. REFER TO THE SYSTEM INSTRUCTION BOOK FOR CIRCUIT AND OPERATING DETAILS OF THE DRIVE REGULATOR.

FOR MULTIPLE DRIVE EQUIPMENTS, DRIVER/REGULATOR OPERATING TABLES ARE ON SHEETS 1A, 2A, 3A ETC.

DRIVER/REGULATOR OPERATING TABLE

(LEFT BLANK FOR MULTIPLE DRIVES)

LINE FREQUENCY
60HZ ___ 50HZ ✓

DRIVER CURRENT LIMIT
NONE ___ 0-75HP ✓ 75 HP ___

REGULATING LOOP
VOLTAGE ___ CURRENT ___ DC TACH ✓ AC TACH ___

SYSTEM REFERENCE
20V ✓ 10V ___ 3V ___ 15V ✓

LINEAR TIMING
0 SEC ___ 0.5-3SEC ✓
3-30SEC ___ 30- SEC ___

TACHOMETER VOLTAGE
43-62 VDC, 26-48 VAC ___ 60-115 VDC, 47-85VAC ___
100-200VDC, 82-152VAC ✓ 180-380VDC, 151-275VAC ___

AUXILIARY PRESET REFERENCE
NONE ___ TIMED ___ UNTIMED ✓

AUXILIARY PRESET REF DIRECTION
FWD ___ REV ___ EXTERNAL ✓

REGULATOR COMPENSATION
NONE ✓ LOAD ___

RESPONSE
NORMAL ✓ LOW ___

CURRENT LIMIT
150%

SEE SYSTEM ELEMENTARY FOR ADDITIONAL REGULATOR CIRCUITRY ✓

TOP SPEED/BASE SPEED
0.9-1.0 ___ 1.0-1.1 ___ 1.1-1.2 ___ 1.2-1.2 ___ 1.3-1.5 ___
1.5-1.6 ___ 1.6-1.8 ___ 1.8-2.0 ___ 2.0-2.2 ___ 2.2-2.5 ___
2.5-2.7 ___ 2.7-3.0 ✓ 3.0-3.3 ___ 3.3-3.7 ___

DRIVER/REGULATOR INCLUDES INSTRUMENT FUNCTION ✓
DIAGNOSTIC FUNCTION ✓

SIGNAL LEVEL DETECTOR

902M102YD SH. No 1 CONT'D ON 2

902M102YD

DRIVE NUMBERING SYSTEM

1. TO BREAK THE ELEMENTARY DIAGRAM INTO EASY-TO-USE SECTIONS, A SERIES OF ARBITRARY "DRIVES" HAS BEEN ESTABLISHED, WITH THE ELEMENTARY SHEETS ALPHABETICALLY NUMBERED IN EACH DRIVE. FOR EXAMPLE: SHEETS 3A, 3B AND 3C ARE THE FIRST THREE ELEMENTARY SHEETS IN DRIVE NO.3.

2. THE DRIVE CONCEPT IS ESTABLISHED TO CONVENIENTLY SECTIONALIZE THE ELEMENTARY DIAGRAM, AND NOT NECESSARILY TO DENOTE SEPARATE PHYSICAL EQUIPMENTS. HOWEVER, ALL THE SYSTEM ELEMENTS INCLUDED IN A DRIVE WILL BEAR AN OBVIOUS FUNCTIONAL RELATIONSHIP.

SH.NO. 2

CONTD. ON 1A

WIRE NUMBERING SYSTEM

1. CONTROL WIRES:

WIRE NUMBERS ARE SHOWN ON EACH SHEET AS TWO-DIGIT NUMBERS (E.G. 01, 02, 10, 42 ETC.) EXCEPT FOR WIRES ORIGINATING ON ANOTHER SHEET, WHICH ARE SHOWN AS 4-DIGIT OR 5-DIGIT NUMBERS. IN ALL CASES, THE COMPLETE WIRE NUMBER (WHICH APPEARS ON THE ACTUAL WIRES IN THE EQUIPMENT AND ON THE TERMINAL BOARDS) IS A 4-DIGIT OR 5-DIGIT NUMBER. THE FIRST TWO OR THREE DIGITS INDICATE THE NUMBER OF THE ELEMENTARY DIAGRAM SHEET ON WHICH THE WIRE ORIGINATES AND THE LAST TWO DIGITS INDICATE THE WIRE ON THAT SHEET. THUS 2A04 INDICATES WIRE NUMBER 04 ORIGINATING ON SHEET 2A OF THE DIAGRAM; AND 15C34 INDICATES WIRE NUMBER 34 ORIGINATING ON SHEET 15C.

2. POWER WIRES:

DC POWER WIRES ARE HANDLED IN THE SAME WAY AS CONTROL WIRES EXCEPT THAT THE LETTER "P" IS INSERTED; ie. 1AP1, 3EP9. AC POWER WIRES USE LETTERS SUCH AS L,K,T & AC WITHOUT THE SHEET NUMBER; ie, L1, L2, L3, K13, K14, K15,AC1,AC2.

LOCATING MAPPING SYSTEM

4 OR 5 DIGIT NUMBERS WITHIN BRACKETS, SUCH AS (15C35), ALWAYS INDICATE A LOCATION WITHIN THE ELEMENTARY DIAGRAMS. THE LAST TWO DIGITS OF THE BRACKETED NUMBER INDICATE THE LINE NUMBER ON A SHEET AND THE FIRST TWO OR THREE DIGITS INDICATE WHICH SHEET; THUS (15C35) INDICATES LINE 35 ON SHEET 15C.

RELAY MAPPING SYSTEM

1. UNDER EACH CONTACT (EXCEPT MAIN CONTACTS OF CONTACTORS AND STARTERS) A LOCATION MAPPING NUMBER INDICATES WHERE THE OPERATING COIL IS TO BE FOUND IN THE ELEMENTARY DIAGRAMS.

2. IN THE DIAGRAM MARGIN BESIDE EACH OPERATING COIL, LOCATION NUMBERS GIVE THE LOCATION OF DEVICE CONTACTS THAT ARE USED. LOCATION NUMBERS AT OPERATING COILS DIFFER FROM THE USUAL LOCATION NUMBERING SYSTEM IN THAT;

   A) THE BRACKETS ARE ELIMINATED, AND
   B) UNDERSCORING INDICATES A NORMALLY CLOSED CONTACT AND LACK OF UNDERSCORING INDICATES A NORMALLY OPEN CONTACT.

   THUS 3B56 INDICATES A NORMALLY OPEN CONTACT LOCATED ON LINE 56 OF SHEET 3B OF THE ELEMENTARY DIAGRAM, AND 13B48 INDICATES A NORMALLY CLOSED CONTACT LOCATED ON SHEET 13B, LINE 48.

   AGAIN MAIN CONTACTS OF CONTACTORS AND STARTERS ARE NOT "MAPPED".

CONTACTS FOR PURCHASER'S USE

CONTACTS FOR PURCHASER'S USE WILL BE SHOWN ISOLATED, IN THE BODY OF THE DIAGRAM, AS NEAR AS CONVENIENT TO THE ASSOCIATED OPERATING COIL.

WIRE NUMBERS WILL BE SHOWN ON THE WIRES COMING OUT OF THE CONTACT WITH THE LABEL "FOR PURCHASER'S USE" OR SIMILAR WORDING.

THESE CONTACTS WILL ALSO BE "MAPPED" AT THE COIL LOCATION.

IN THE ACTUAL EQUIPMENT, THESE WIRES WILL BE RUN TO THE TERMINAL BOARD, WHICH WILL BE MARKED WITH THE WIRE NUMBERS.

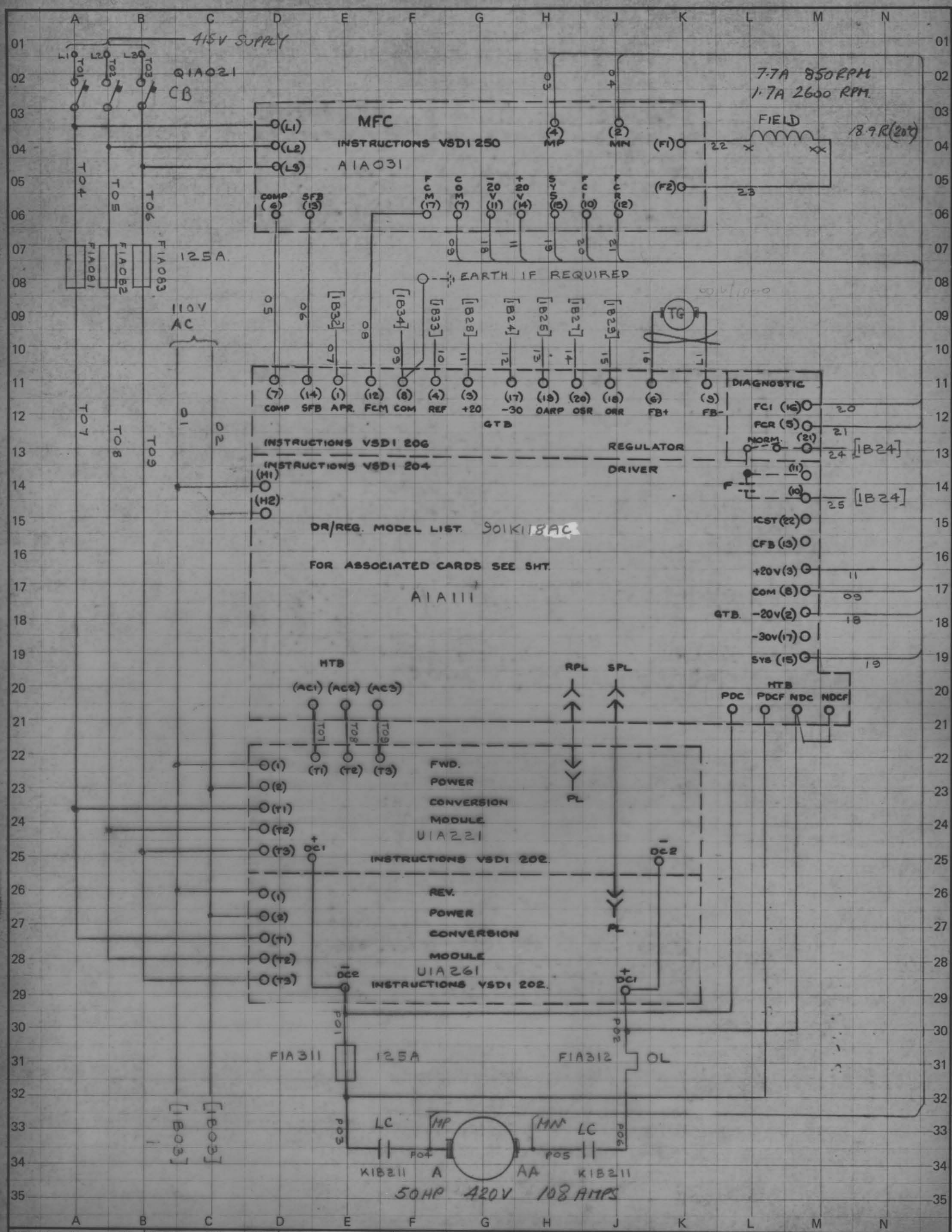
WHEN KNOWN, PURCHASERS WIRE NUMBERS WILL BE USED.

CONTINUATION OF WIRES ON OTHER SHEETS

WHERE A WIRE IS CONTINUED FROM ONE SHEET TO ANOTHER, THE POINT OF ITS CONTINUATION IS INDICATED BY A BRACKETED LOCATION MAPPING NUMBER. THE FULL WIRE NUMBER MAY ALSO BE SHOWN.

902HM100AE SHEET 2

CONT.ON SH 1A	SH.NO. 2	902M102YD
DATE 8-7-77	ALLENWEST	ELEMENTARY DIAGRAM NOTES
ISSUED RKW	VARIABLE SPEED DRIVES OPERATION BRIGHTON, ENGLAND	50 HP REGENERATIVE BDC 3062
APPD.		CONTROLLER FOR ASQUITH ELECTRICS
FIRST MADE FOR 7?3 NO9		



TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE 10.6.77	ALLENWEST Simplex	50 HP REGENERATIVE BDC 3062 CONTROLLER FOR ASQUITH ELECTRICS	IDENT
						TECHN. RKW	VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.		DR 1 SH A
						ENG. F.R.S		GO NUMBER 743N0B / ELEMENTARY DIAGRAM 902M102YD / CONTD. 1B	
						APPD.			

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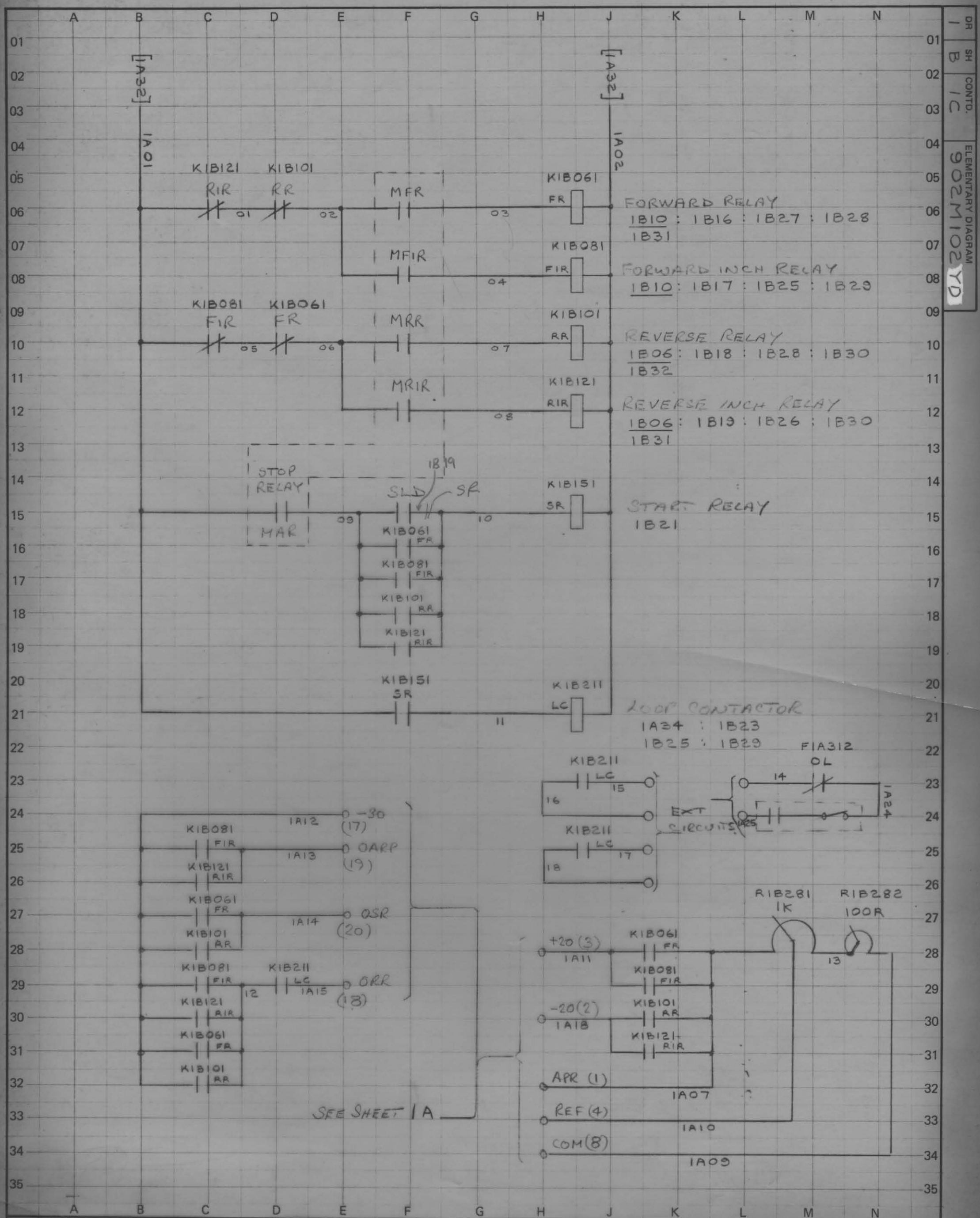

TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE 10·6·77	ALLENWEST Simplex	50 HP REGENERATIVE BDC 3062 CONTROLLER FOR ASQUITH ELECTRICS	IDENT
						TECHN. RKW	VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.		DR 1 / SH B
						ENG. F.R.S			
						APPD.		GO NUMBER 743N09 / ELEMENTARY DIAGRAM 902M102YD / CONTD. 1C	

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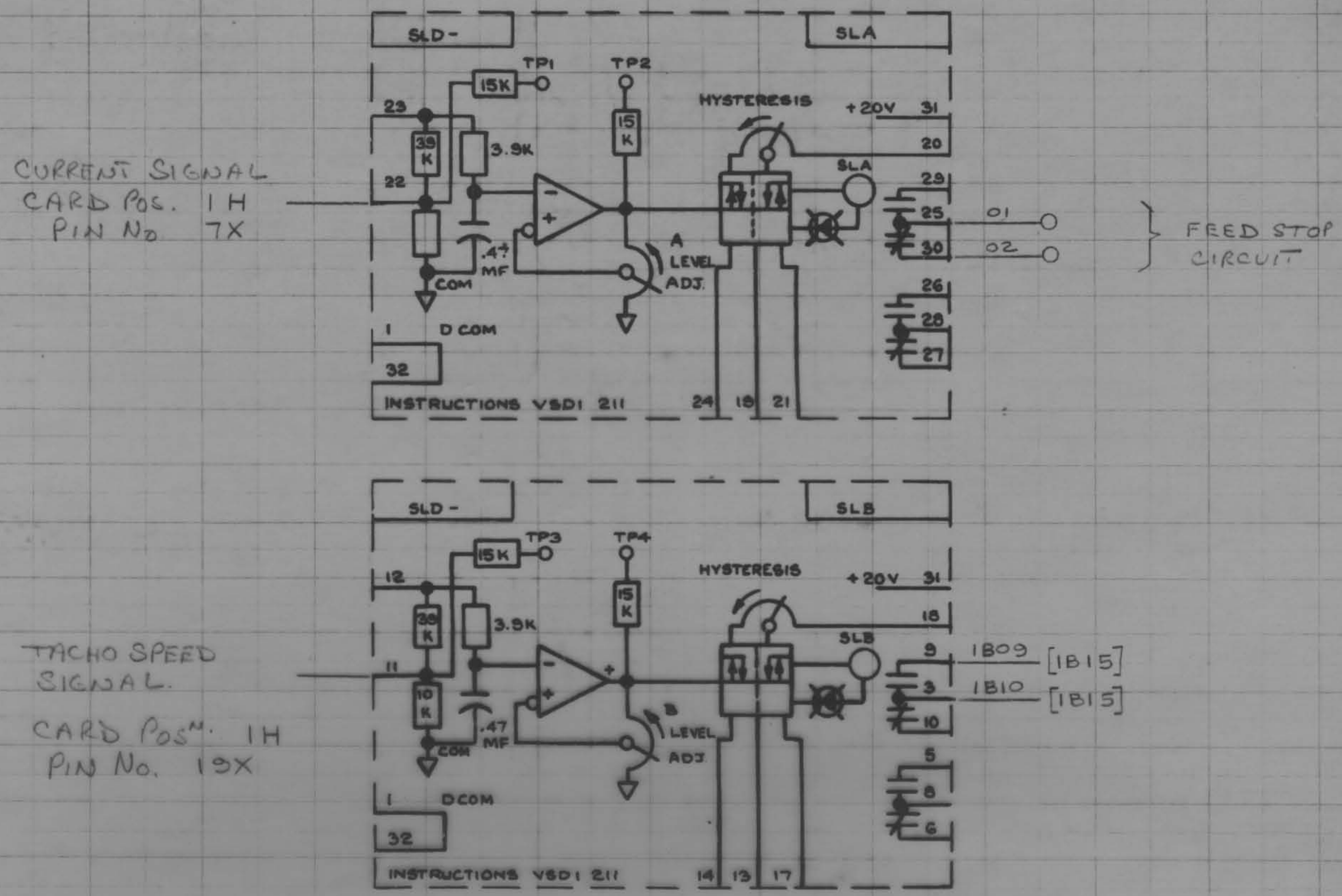
FUNCTIONAL BLOCK DIAGRAM

SIGNAL LEVEL DETECTOR.

G01 SLA

G02 SLA & SLB



TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE 10.6.77
						TECHN. RKW
						ENG. F.R.S
						APPD.

ALLENWEST Simplex
VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.

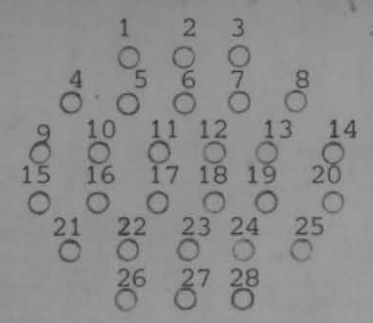
50 HP REGENERATIVE BDC 3062 CONTROLLER FOR ASQUITH ELECTRICS

GO NUMBER	ELEMENTARY DIAGRAM	CONTD.	IDENT DR	SH
743N09	902M102YD	1D	1	C

DR 1 | SH C | CONTD. 1D | ELEMENTARY DIAGRAM 902M102YD

902M102 | SH NO 1D | CONTD ON 1E

SKETCH "A"

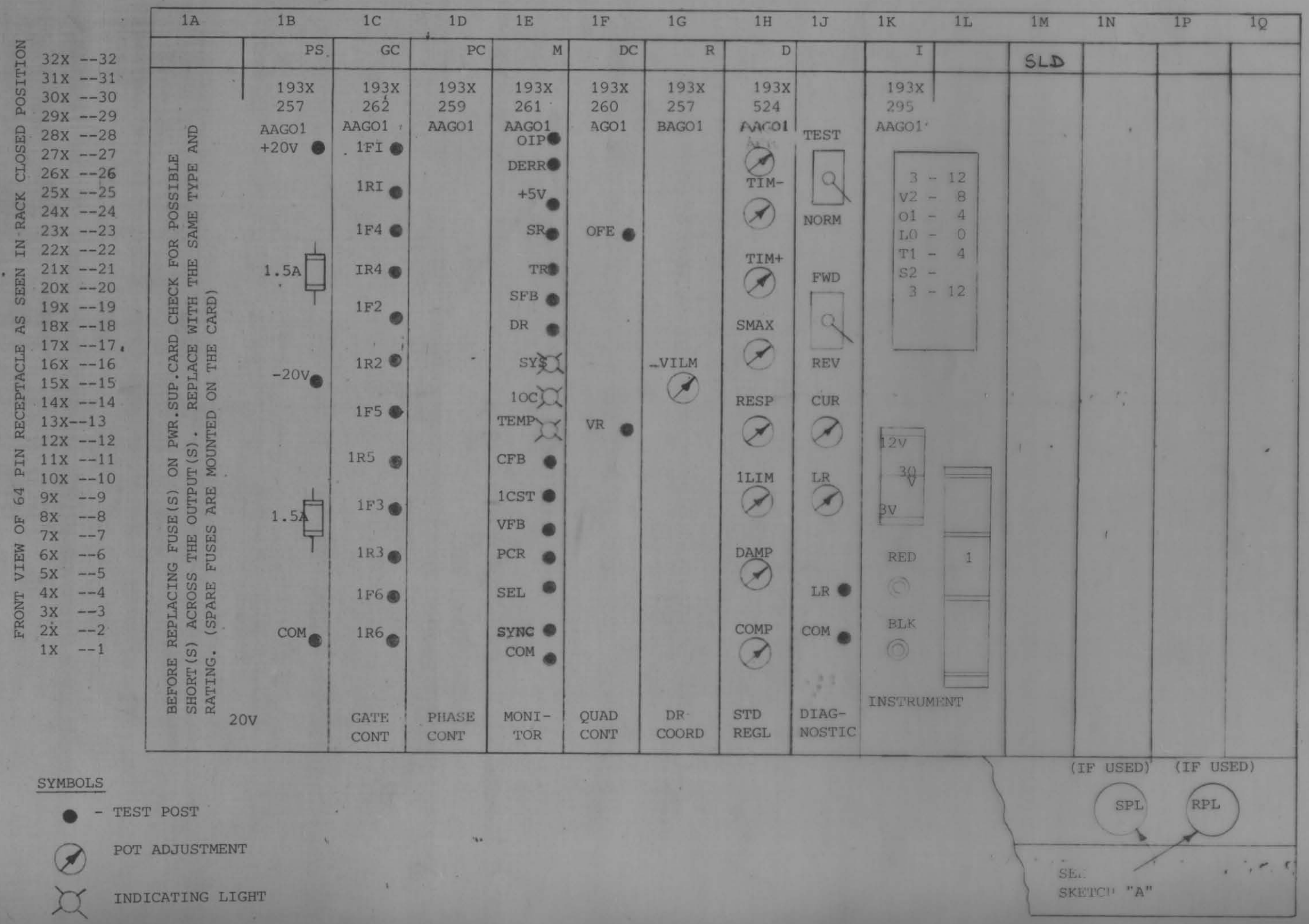


FRONT VIEW
FROM PLUG SIDE

ON PRINTED CIRCUIT CARDS USED IN THIS RACK THE LETTERS "AA" AFTER THE BASIC CARD CATALOGUE NUMBER INDICATES ORIGINAL DESIGN. SUBSEQUENT DESIGNS WITH THE SAME BASIC NUMBERS AND GROUP NUMBERS 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 CARDS 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.

(FRONT VIEW OF RACK IN CLOSED POSITION)



SYMBOLS

- TEST POST
- POT ADJUSTMENT
- INDICATING LIGHT

ELEMENTARY DIAGRAM 902M102YD

4 QUAD DRIVER/REGULATOR LAYOUT

50 HP REGENERATIVE BDC 3062

CONTROLLER FOR ASQUITH ELECTRICS

SH. NO. 1D

CONT ON SH. 1E

ALLENWEST

VARIABLE SPEED DRIVES
OPERATION
BRIGHTON, ENGLAND

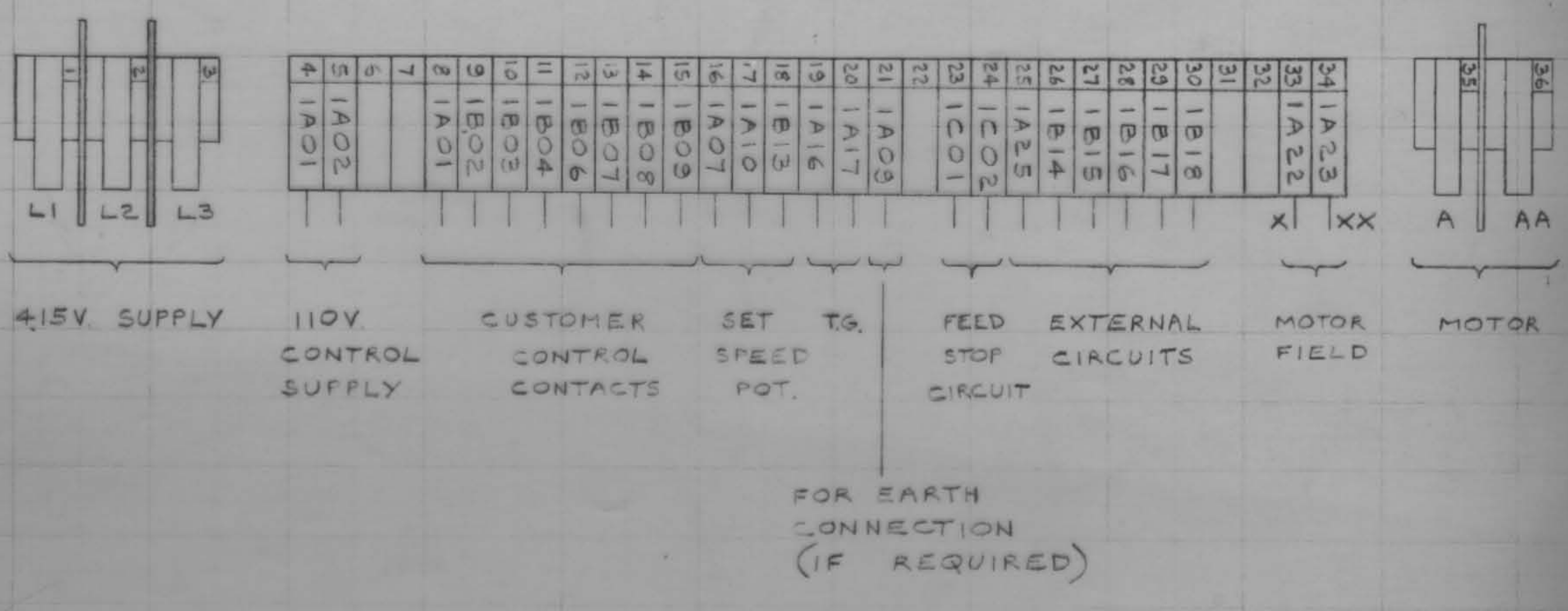
DATE 8-7-77

ISSUED RKW

APPD.

FIRST MADE FOR

902HM100AF SHEET 2



TERMINAL ARRANGEMENT

TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.

DATE 8-7-77
TECHN. RKW
ENG. FRS
APPD.

ALLENWEST Simplex
VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.

50 HP REGENERATIVE BDC 3062 CONTROLLER FOR ASQUITH ELECTRICS

GO NUMBER	ELEMENTARY DIAGRAM	CONTD.	IDENT DR	SH
743N09	902M102YD	FL	1	E

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