VARIABLE SPEED DRIVES OPERATION

SILCON S 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		
TEND	TMCH PODMADD DETAY		

SYMBOLS

IRR

- SCREENED LEADS

- TWISTED LEADS

- TERMINAL BOARD JUMPER

INCH REVERSE RELAY

- MOUNTED IN MOTOR

- REMOTE MOUNTED DEVICE

902HM100AE

- 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 /

REGULATING LOOP

VOLTAGE CURRENT DC TACH AC TACH

SYSTEM REFERENCE

LINEAR TIMING

TACHOMETER VOLTAGE

20V 10V V 3V 3-30SEC 30- SEC

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

AUXILIARY PRESET REFERENCE AUXILIARY PRESET REF DIRECTION

SHEET 1

REGULATOR COMPENSATION RESPONSE CURRENT LIMIT

TIMED UNTIMED

NONE LOAD

NORMAL LOW

1509

902M1024B

SEE SYSTEM ELEMENTARY FOR ADDITIONAL REGULATOR CIRCUITRY

DRIVER/REGULATOR INCLUDES INSTRUMENT FUNCTION

DIAGNOSTIC FUNCTION

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

CONT.ON SH.NO.

1

SH. 2

SEE MAIN SCHEMATIC SOGPIOGRA FOR FULL DETAIL OF HEADSTOCK DRIVE.

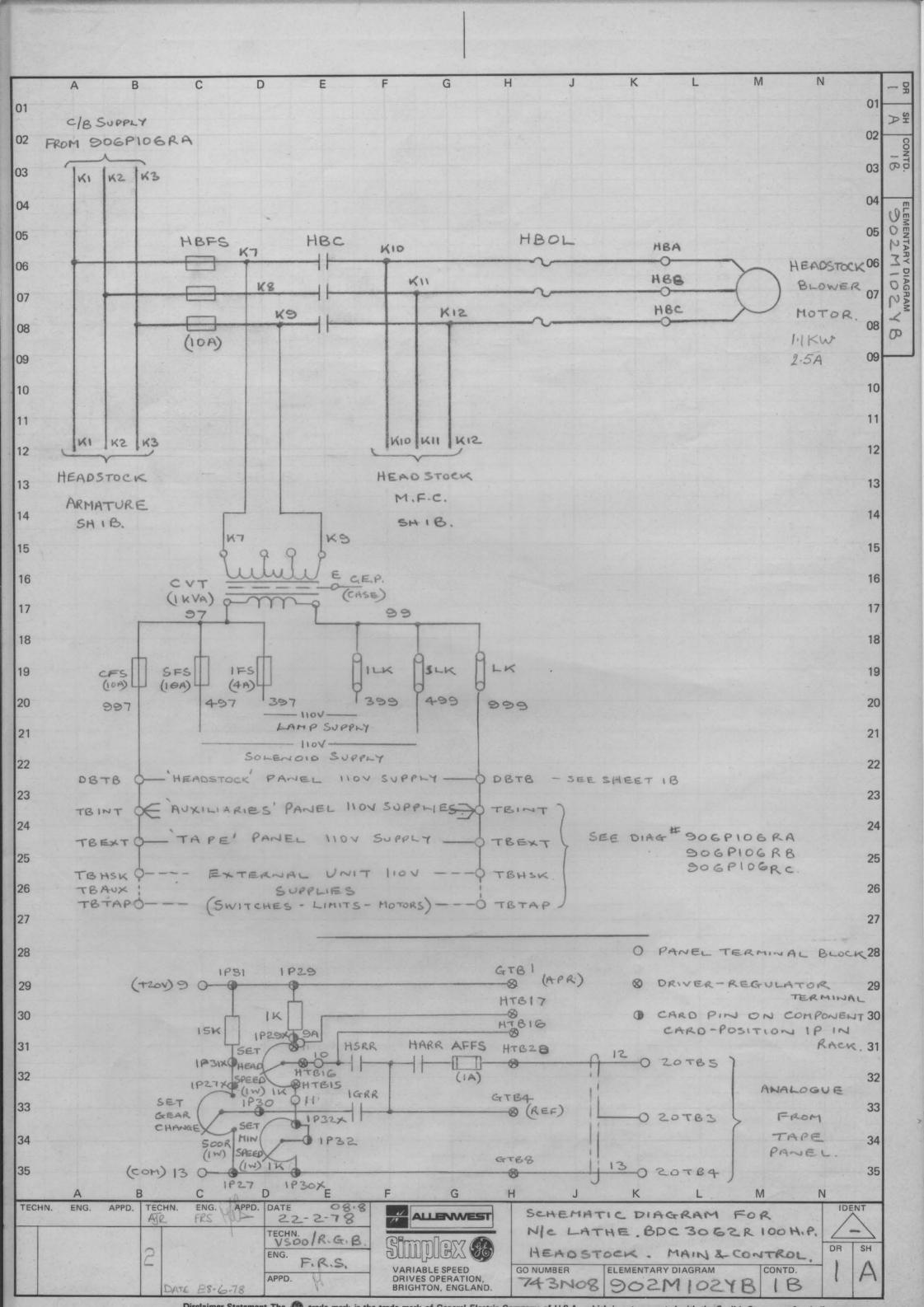
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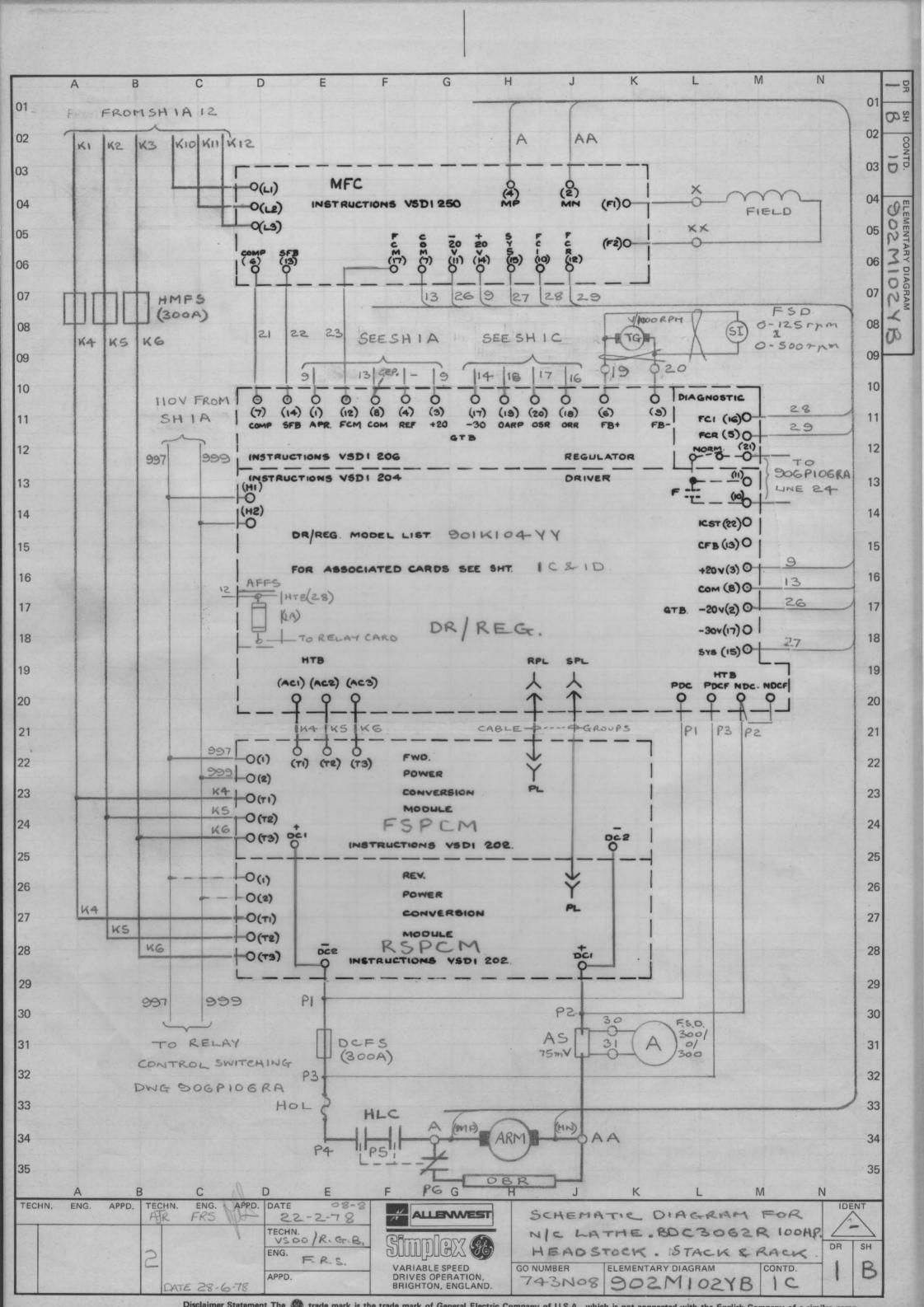
TESTED AT CUSTOMERS SITE ON SONZ SEE DRIRECT HODEL LIST FOR LINKS ADJUSTMENT.

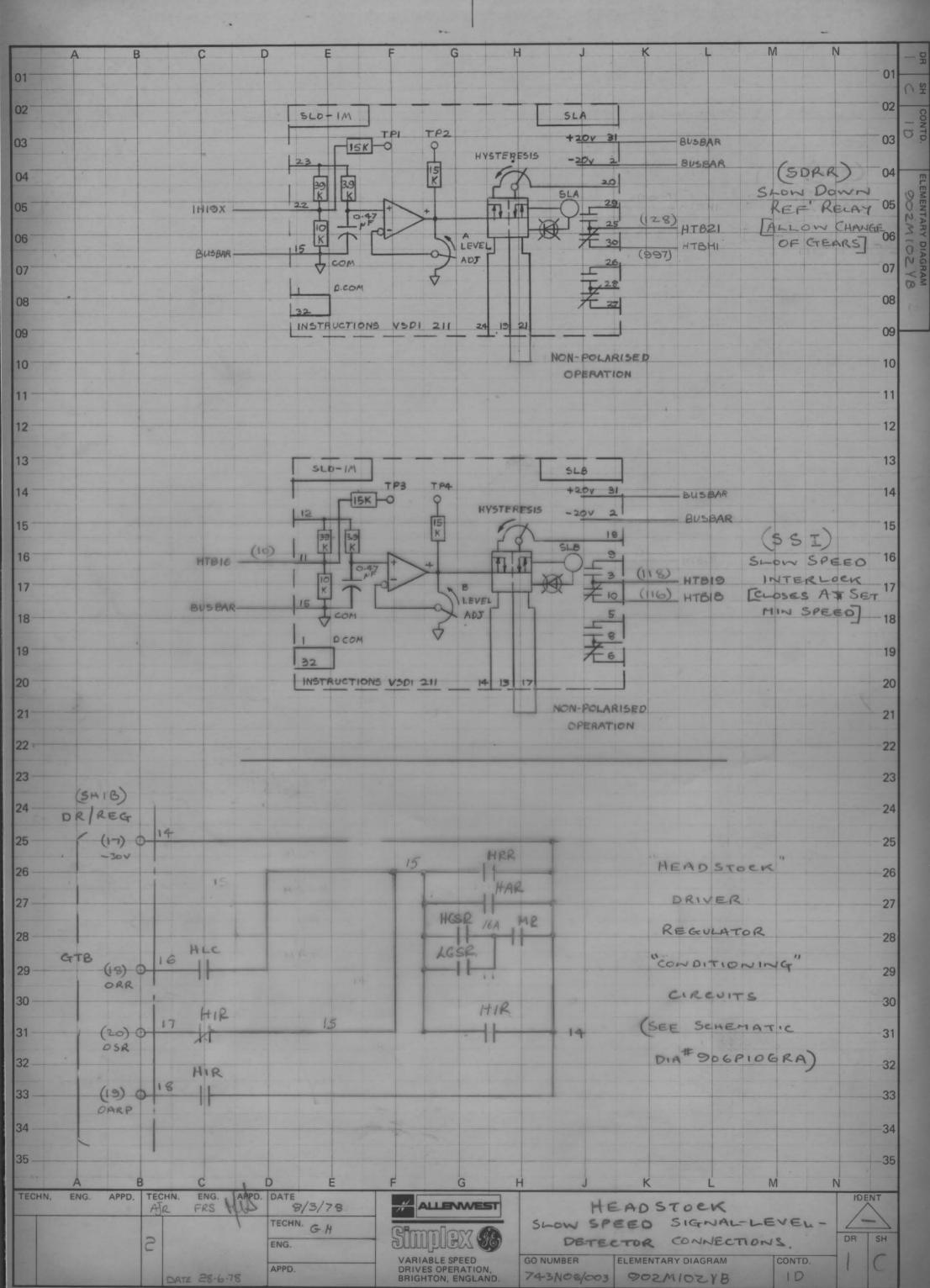
ELEMENTARY DIAGRAM NOTES BOC3062R 100 H.P. DRIVE FOR N/C CONTROLLED LATHE.

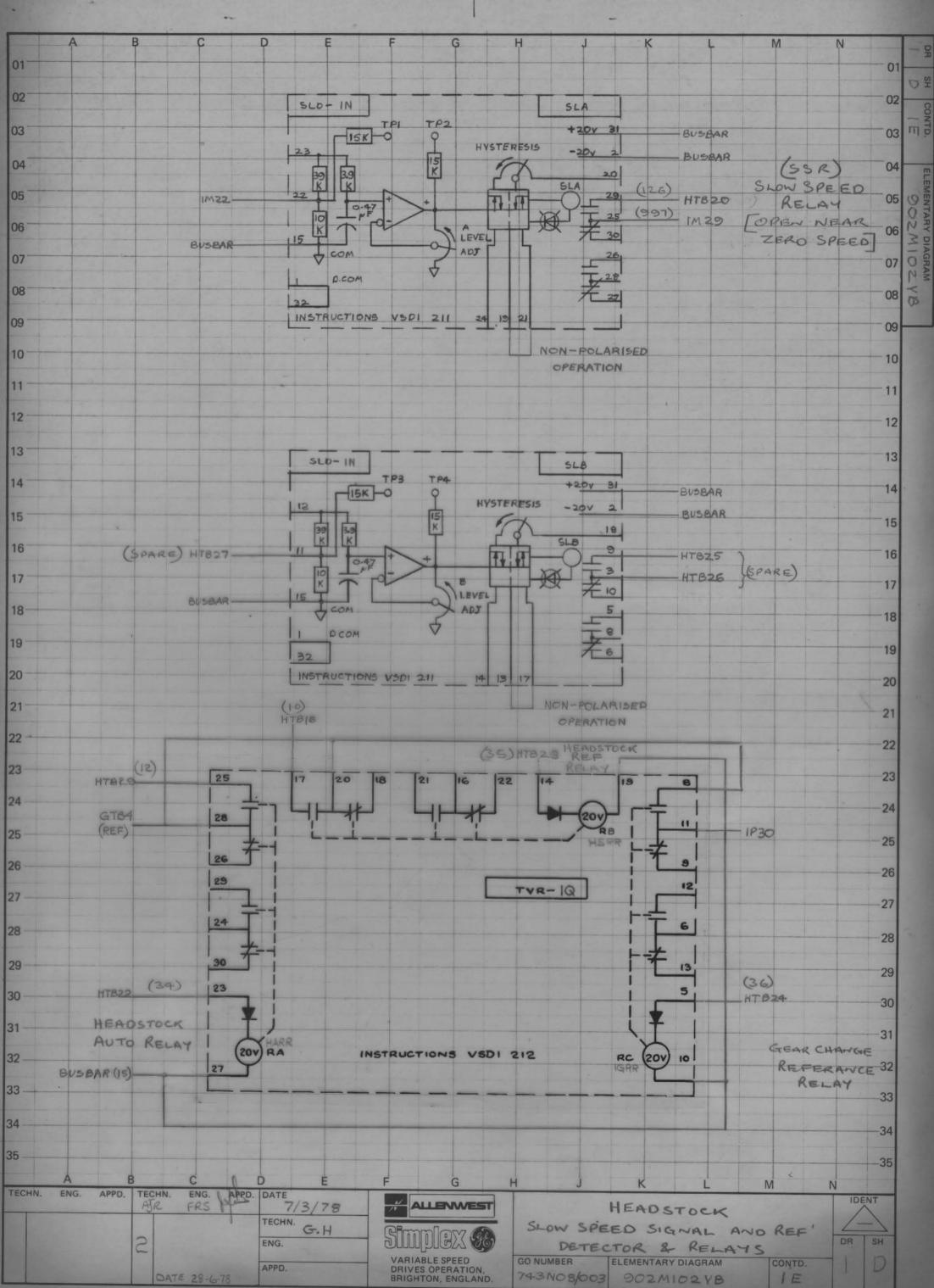
OPERATION BRIGHTON, ENGLAND

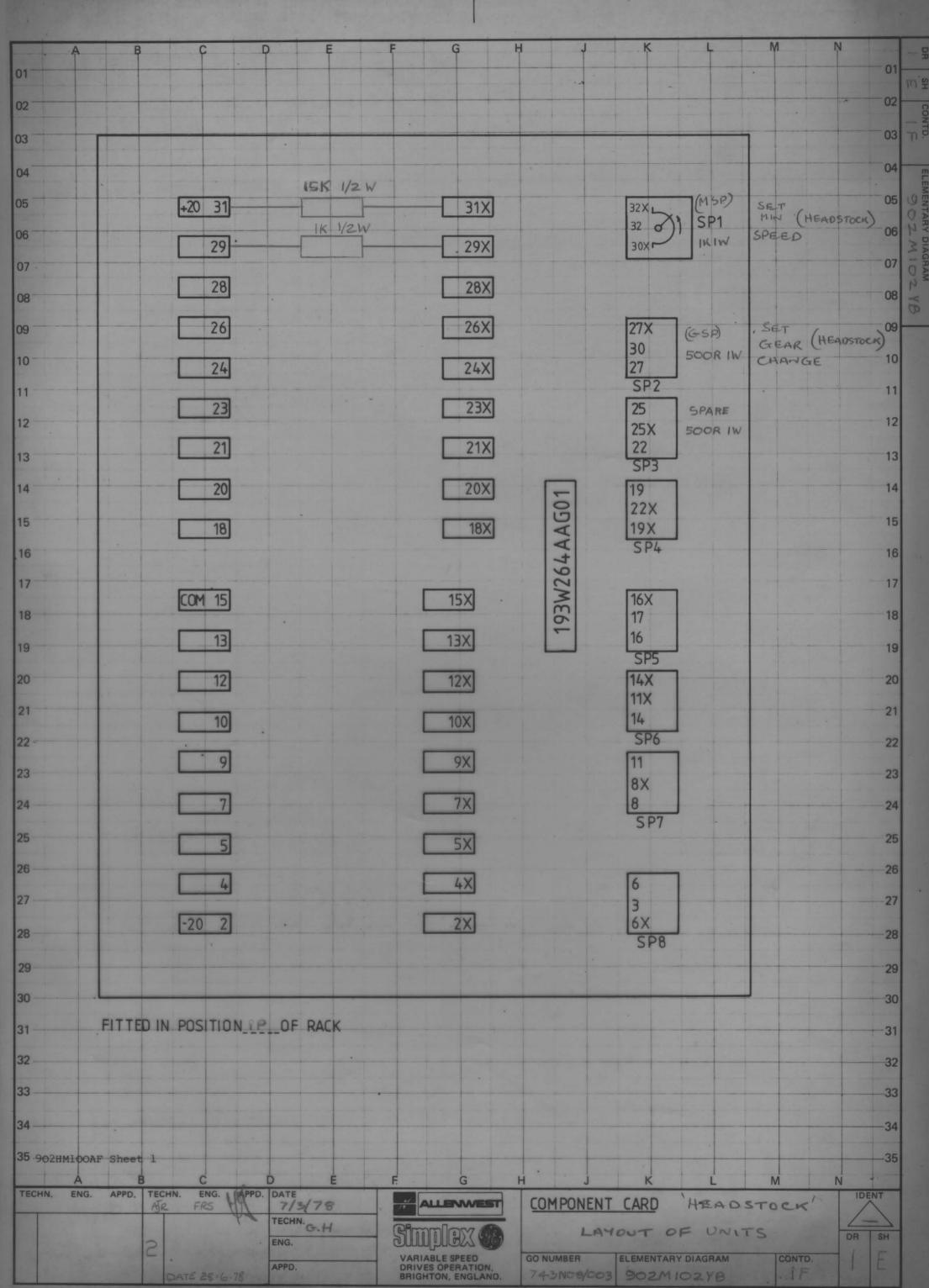
VARIABLE SPEED DRIVES (CRAWFORD - SWIFT)

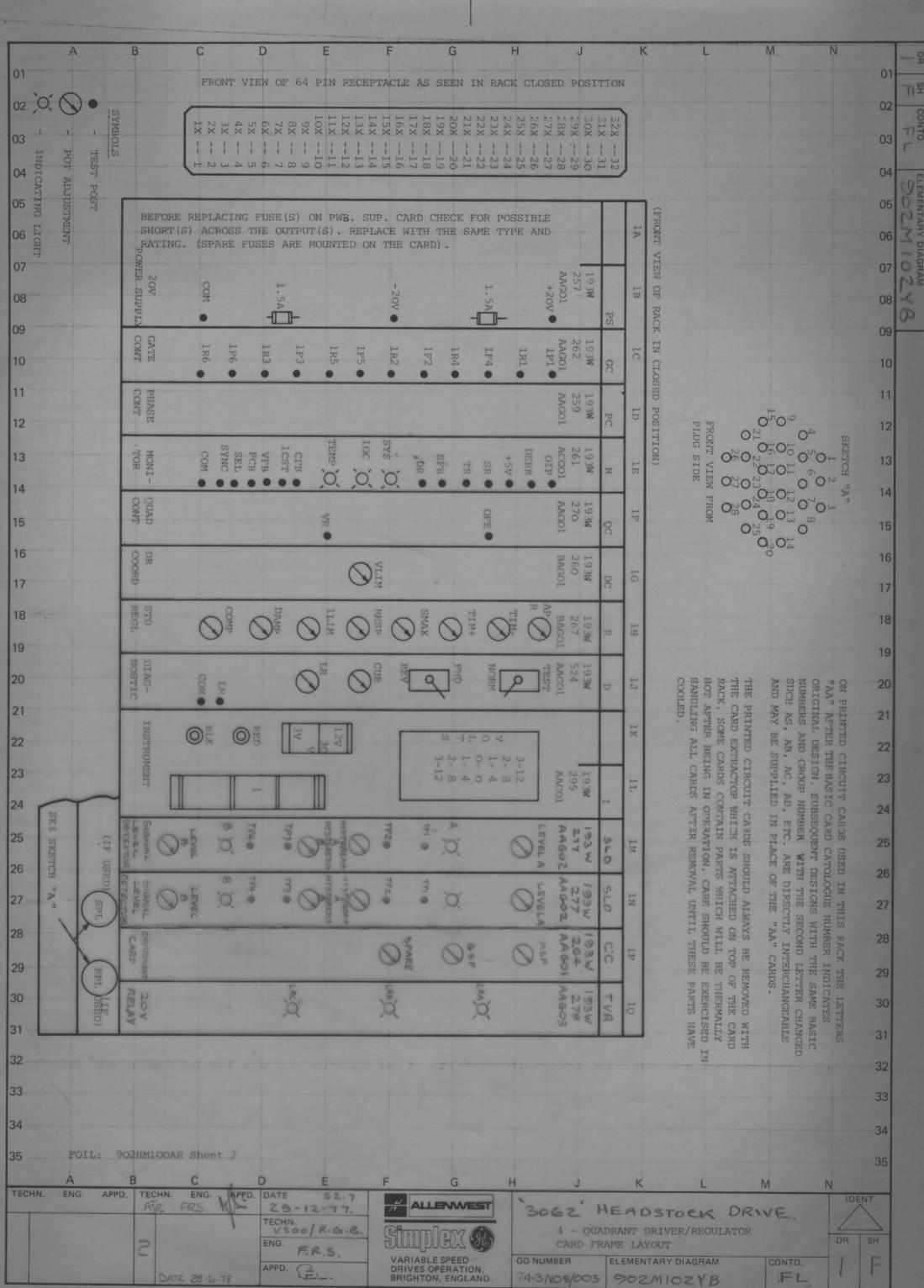


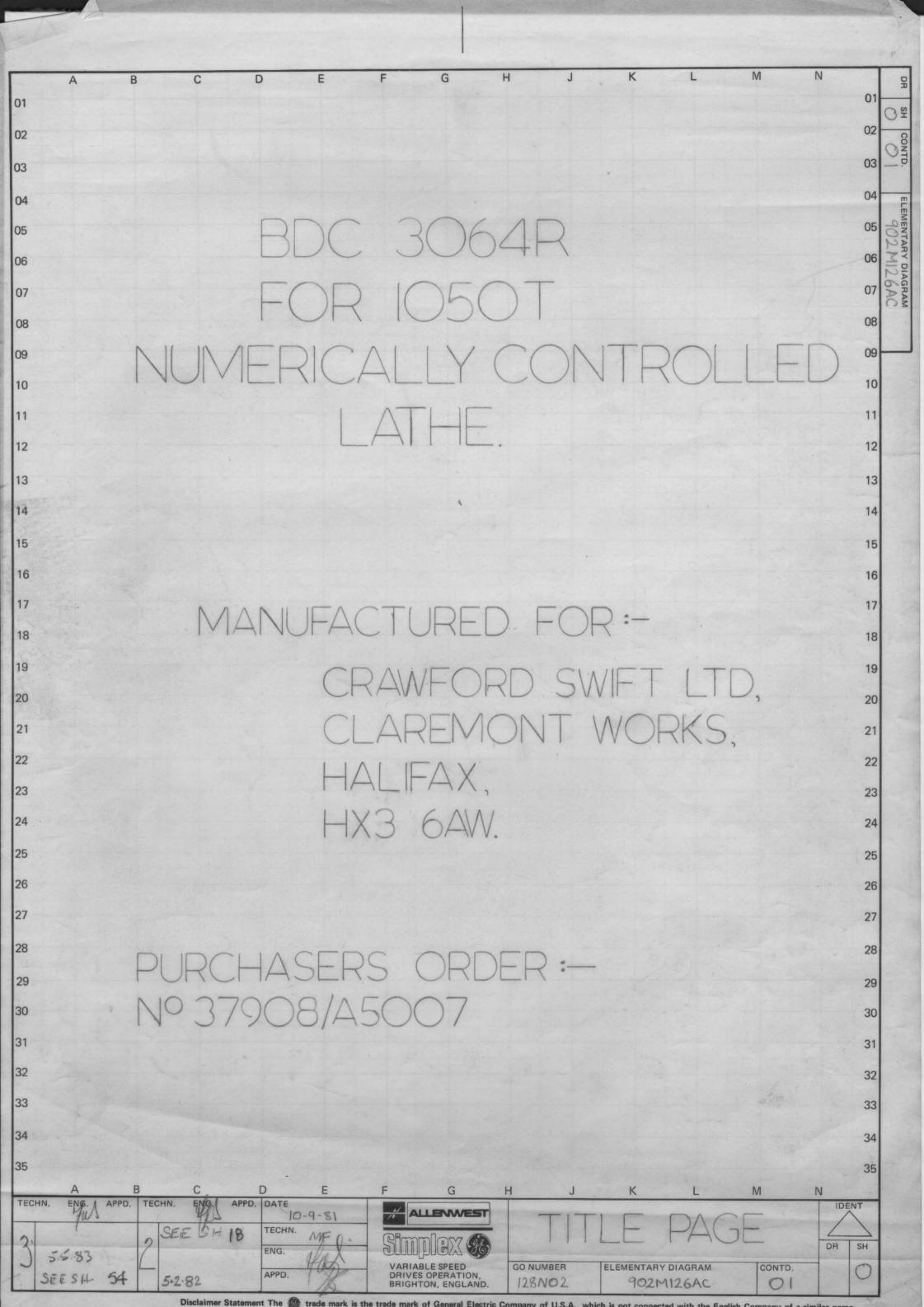


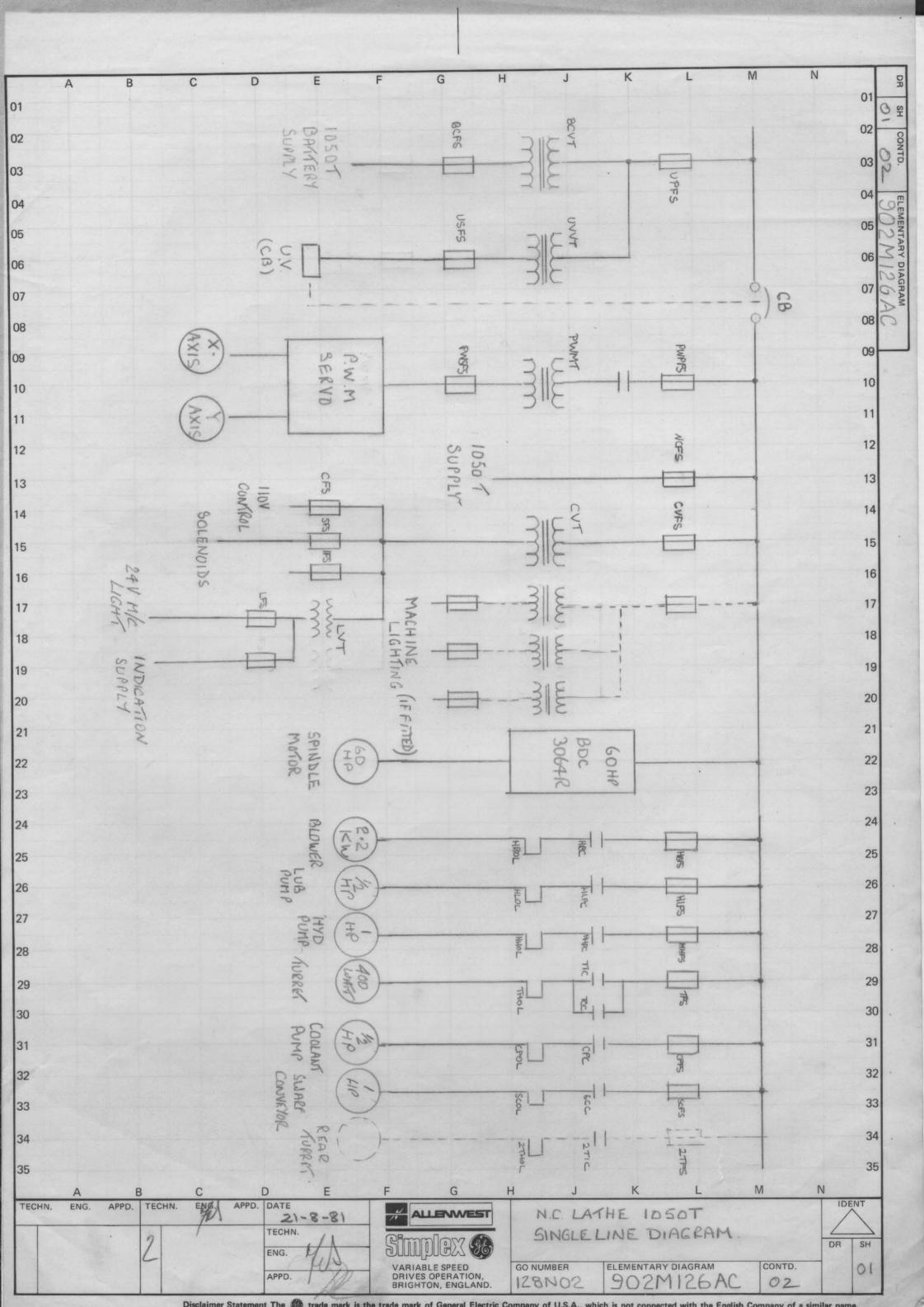


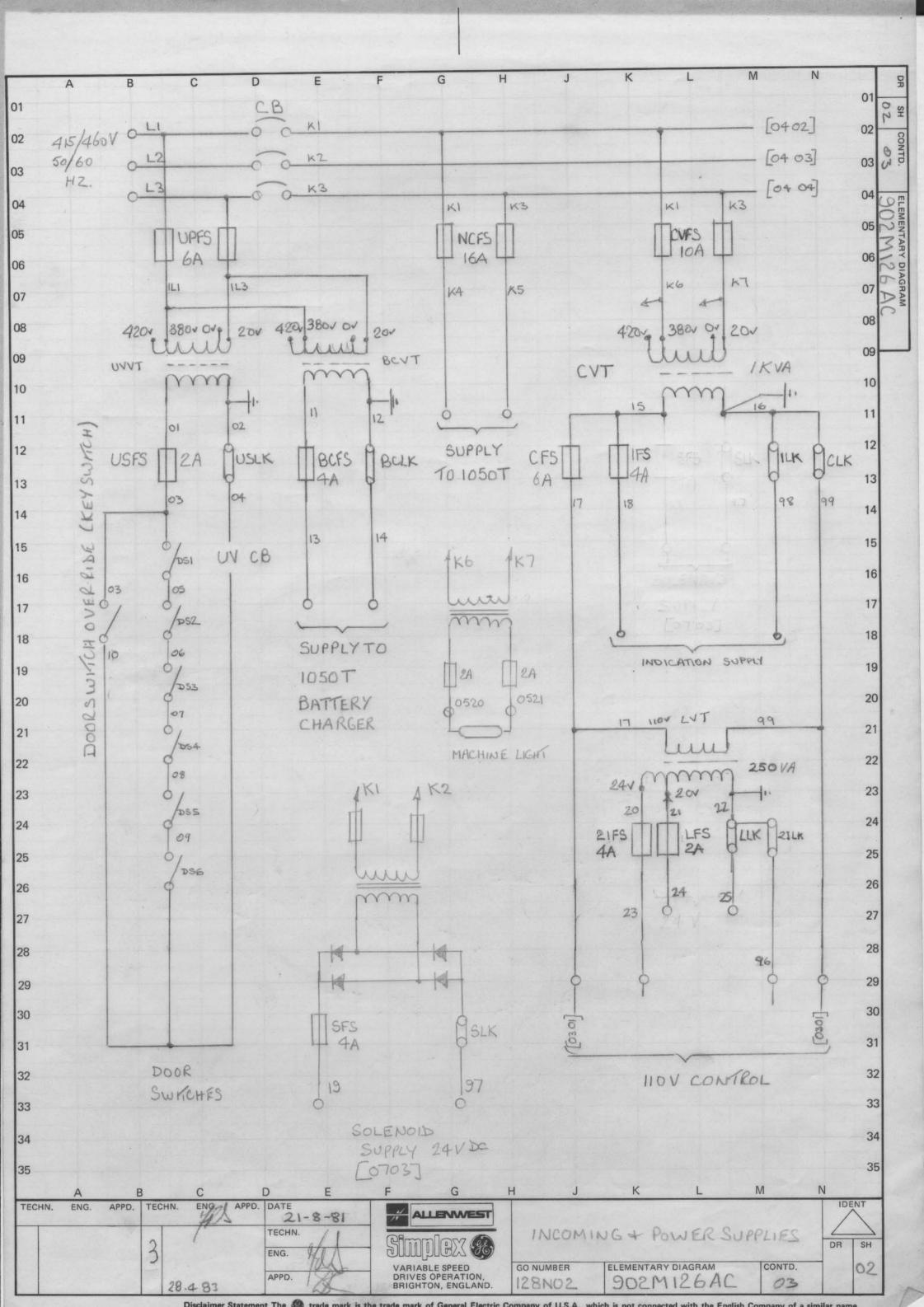


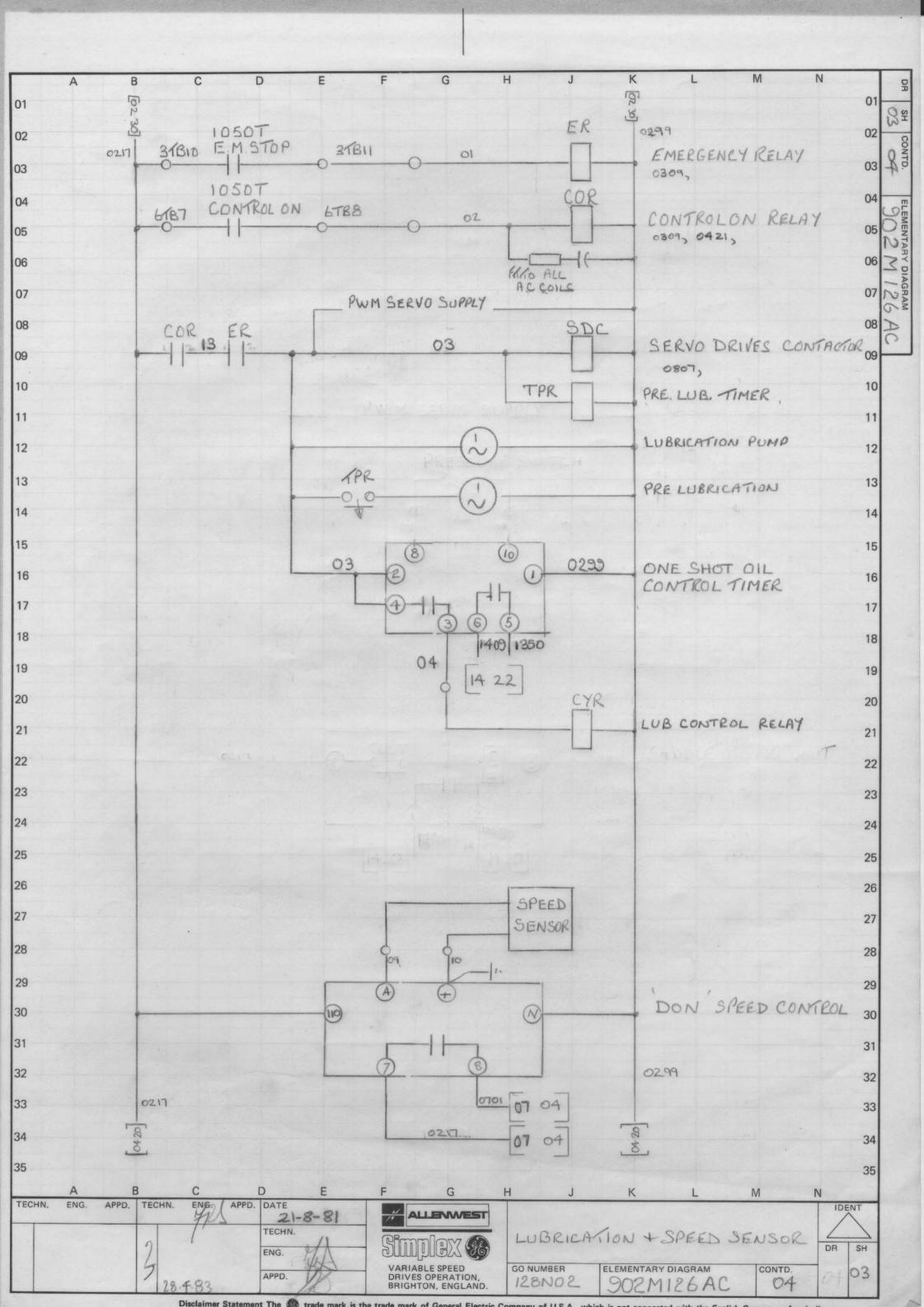


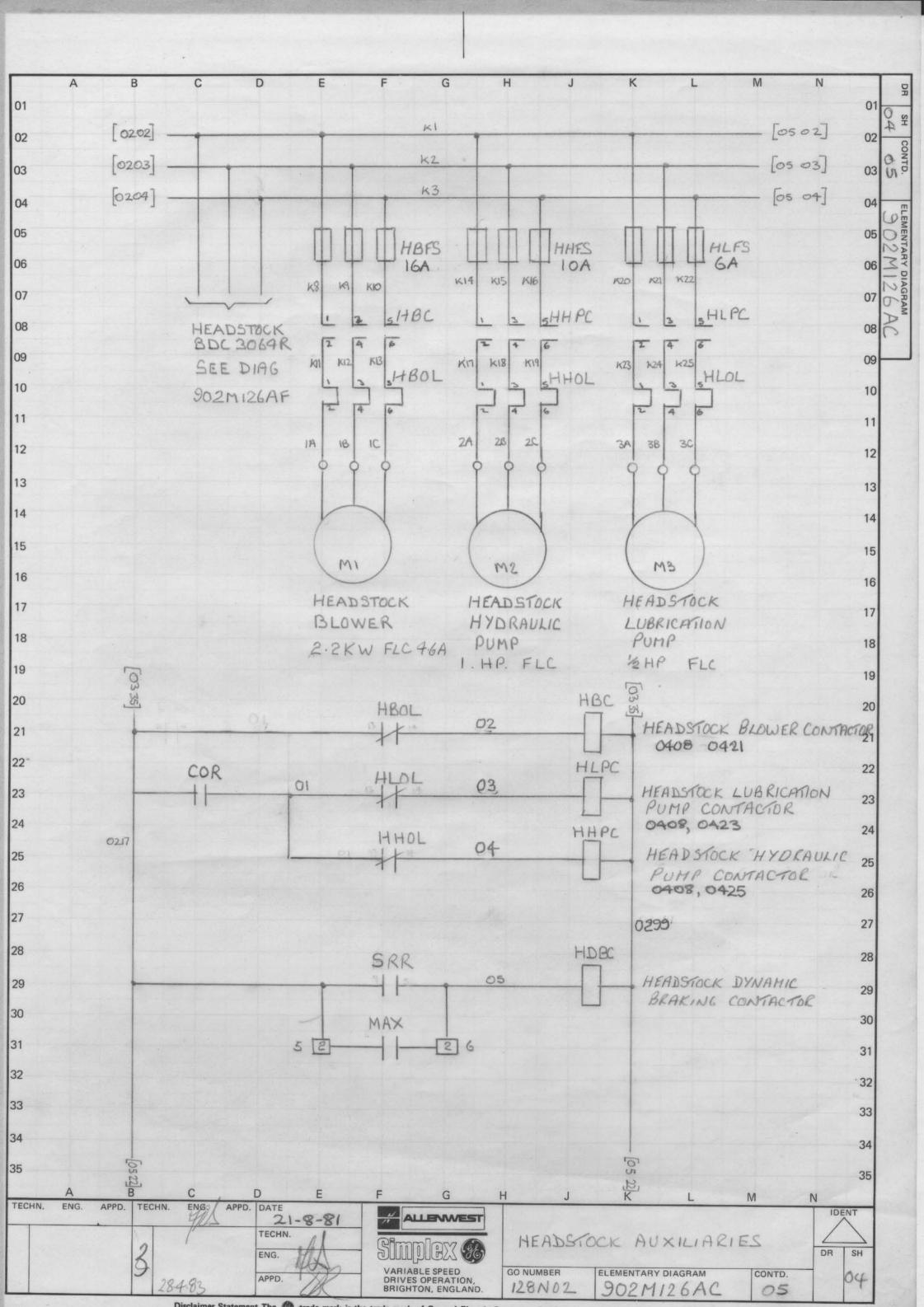


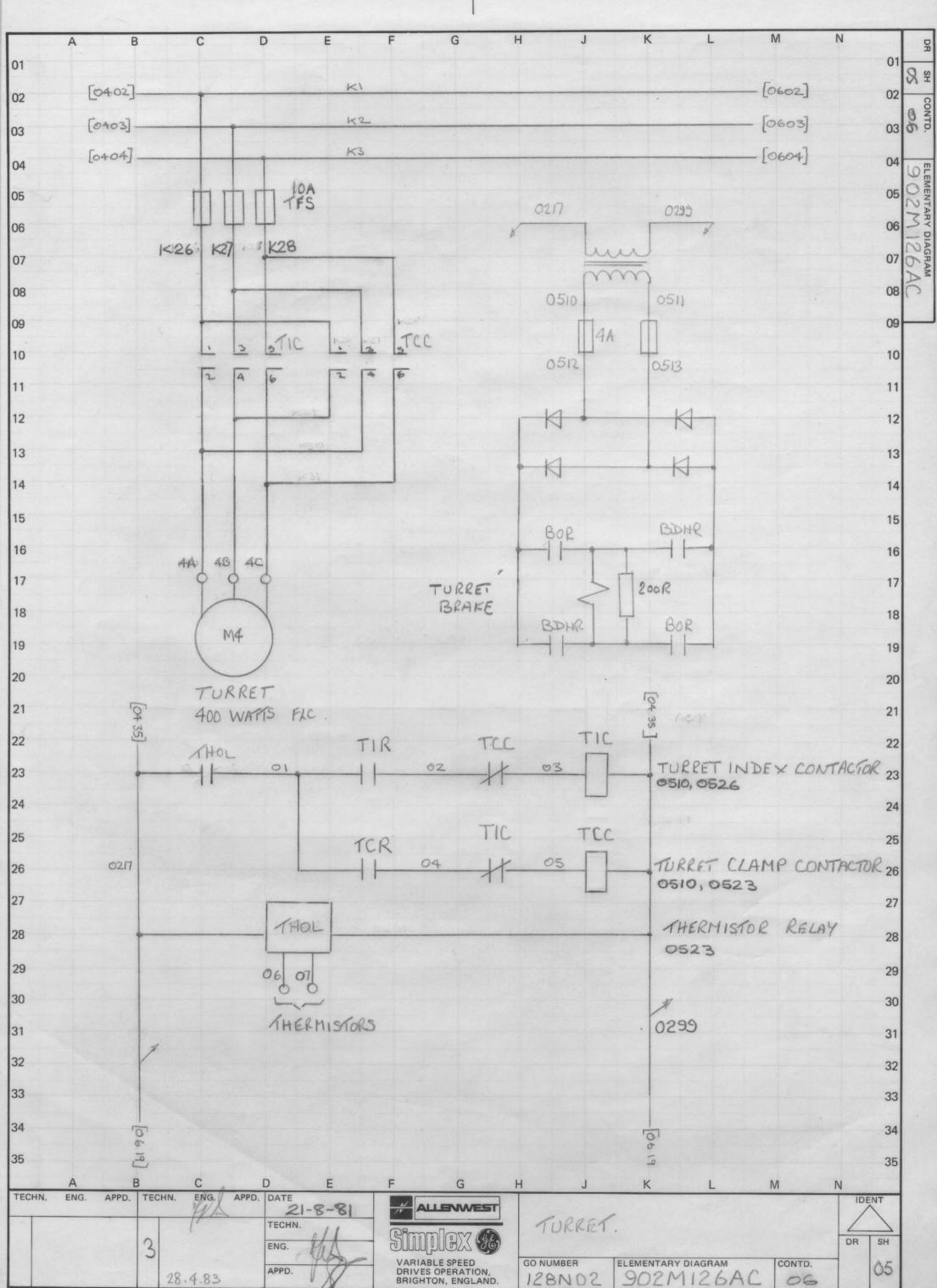


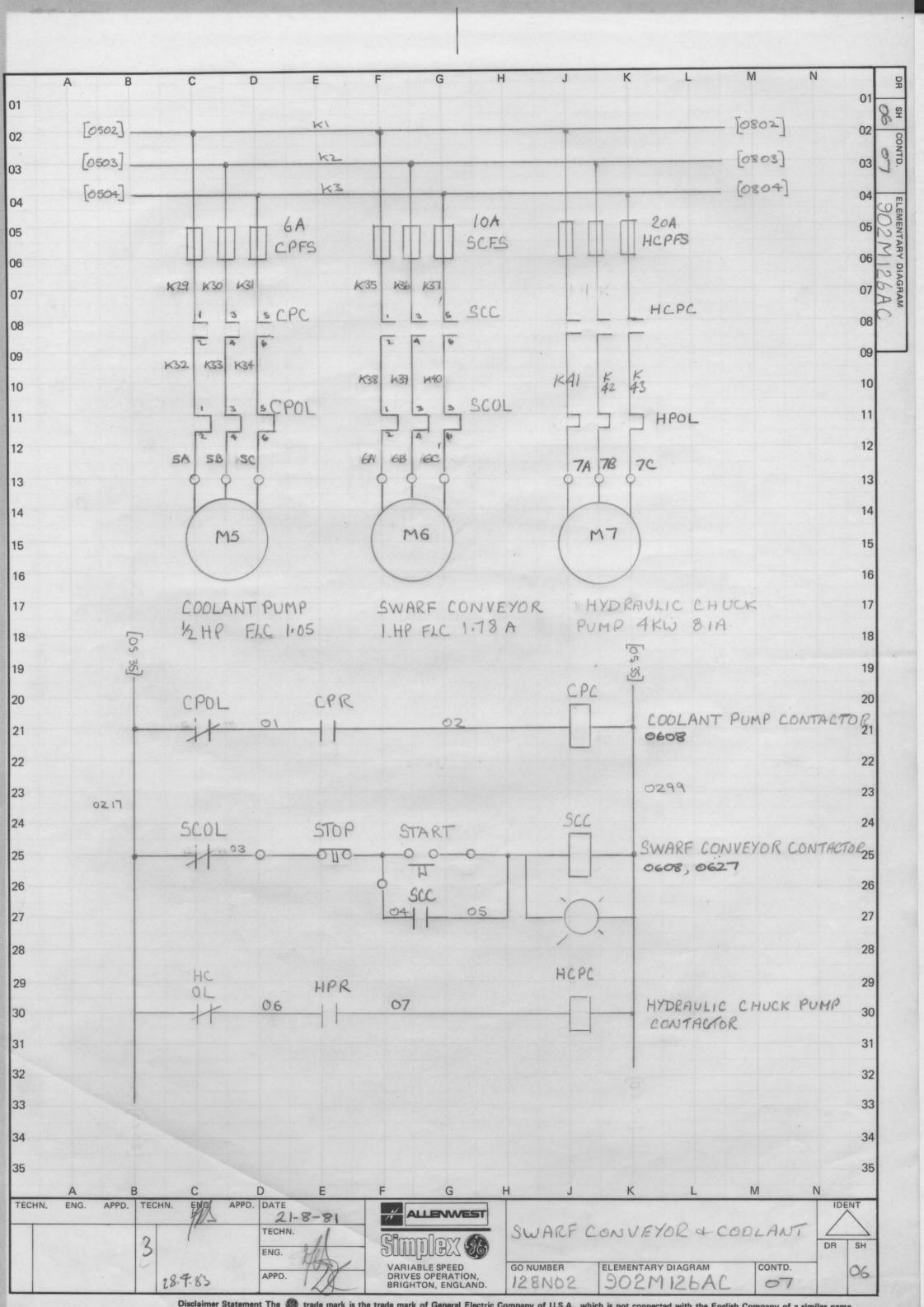


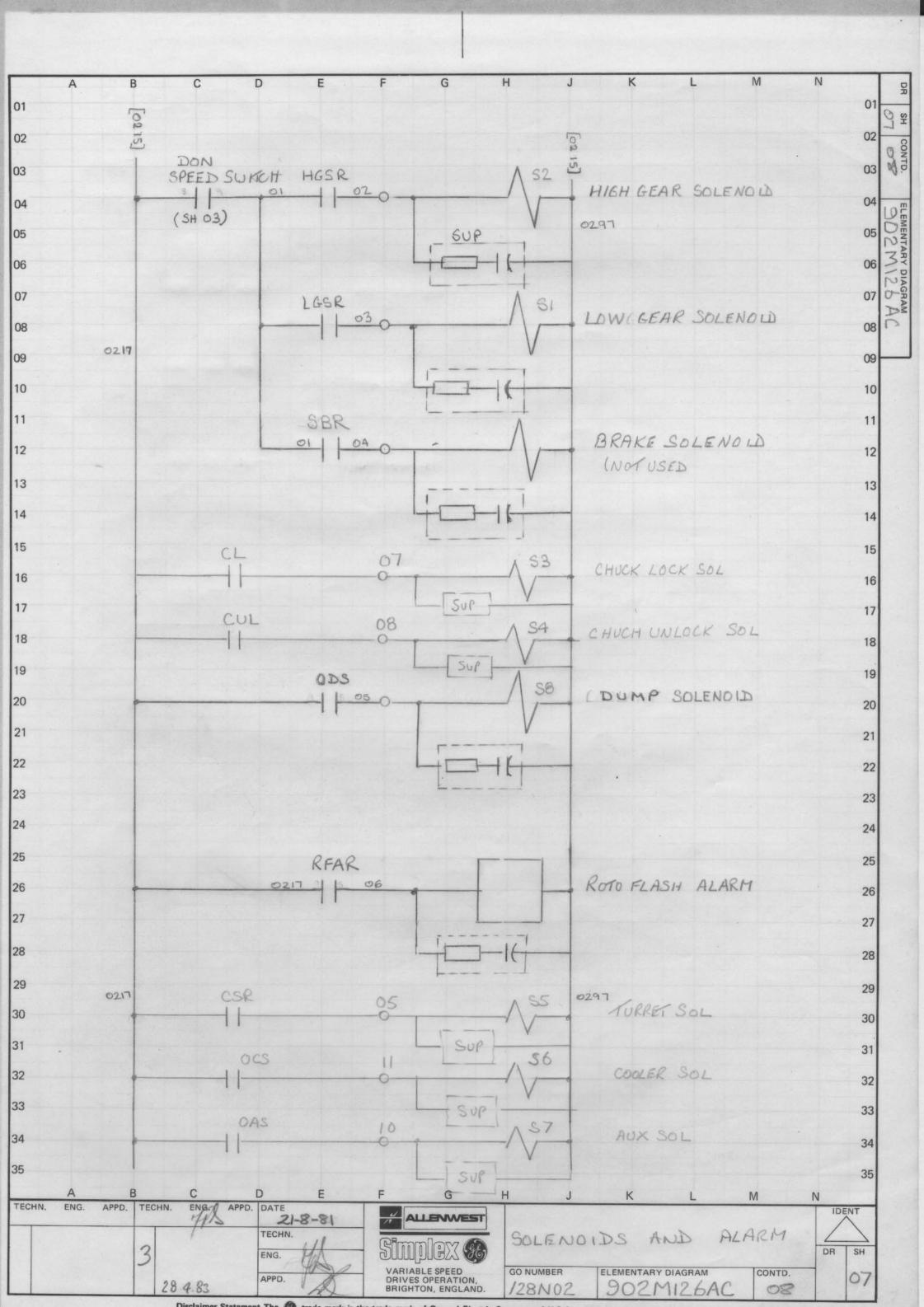


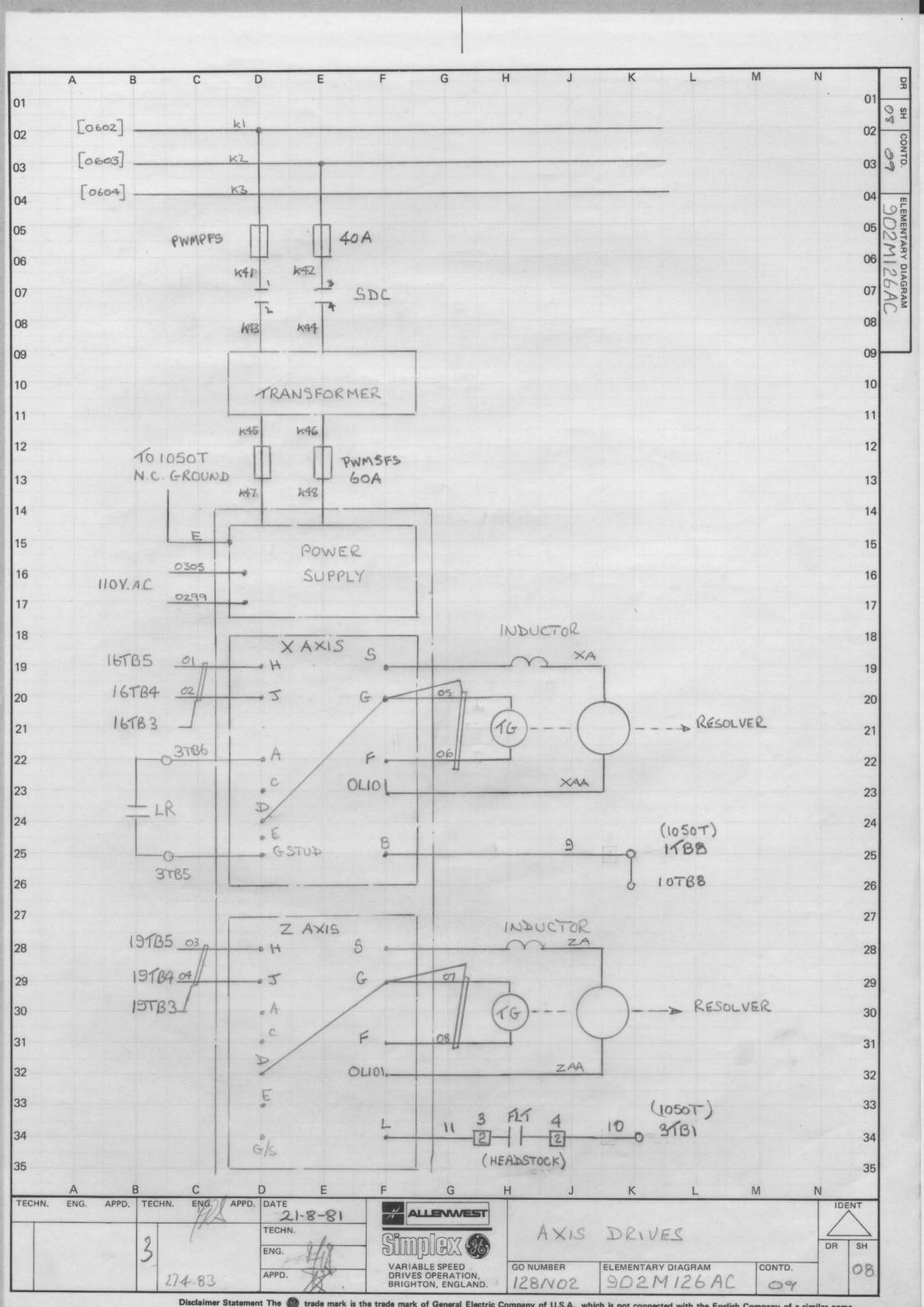


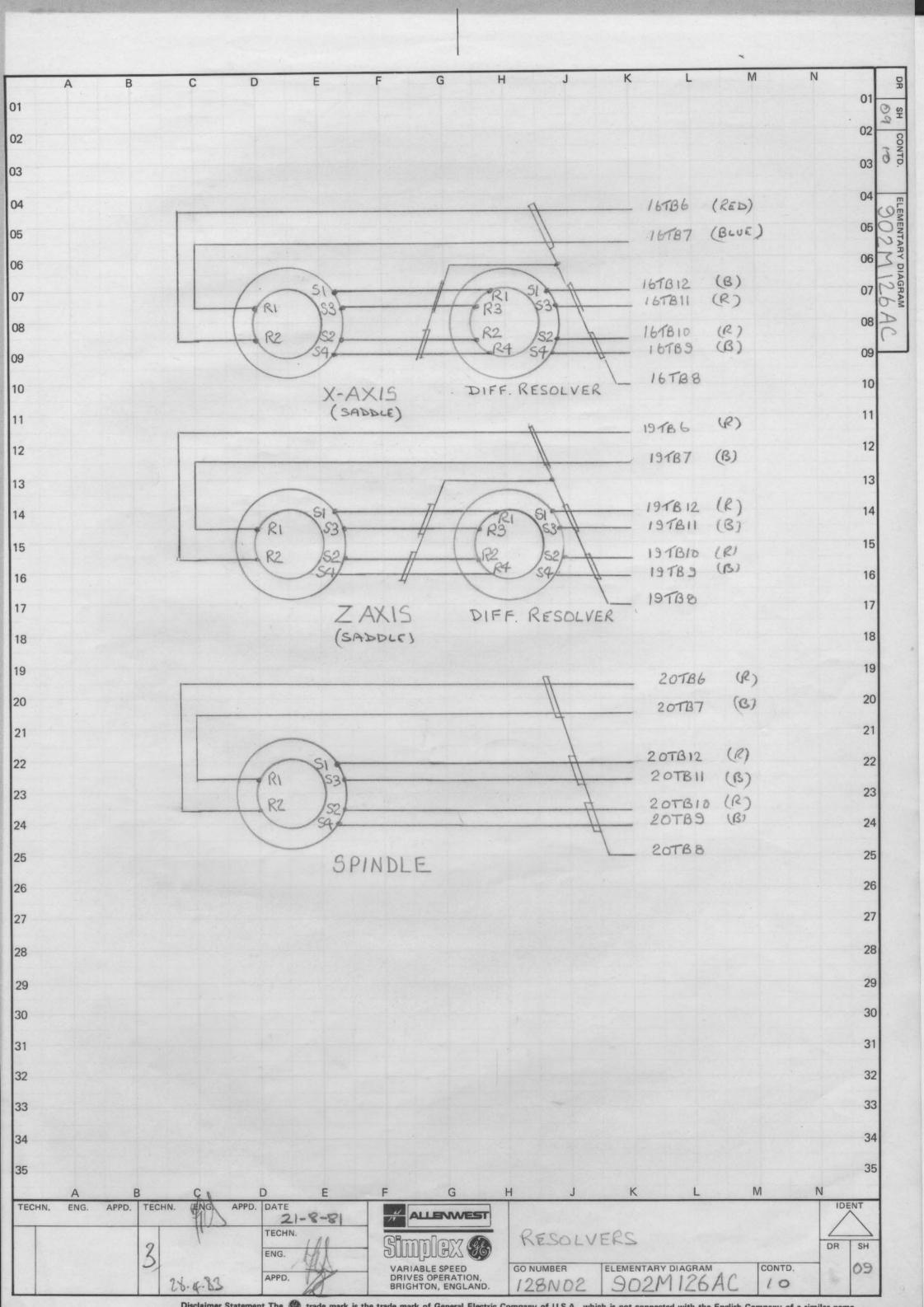


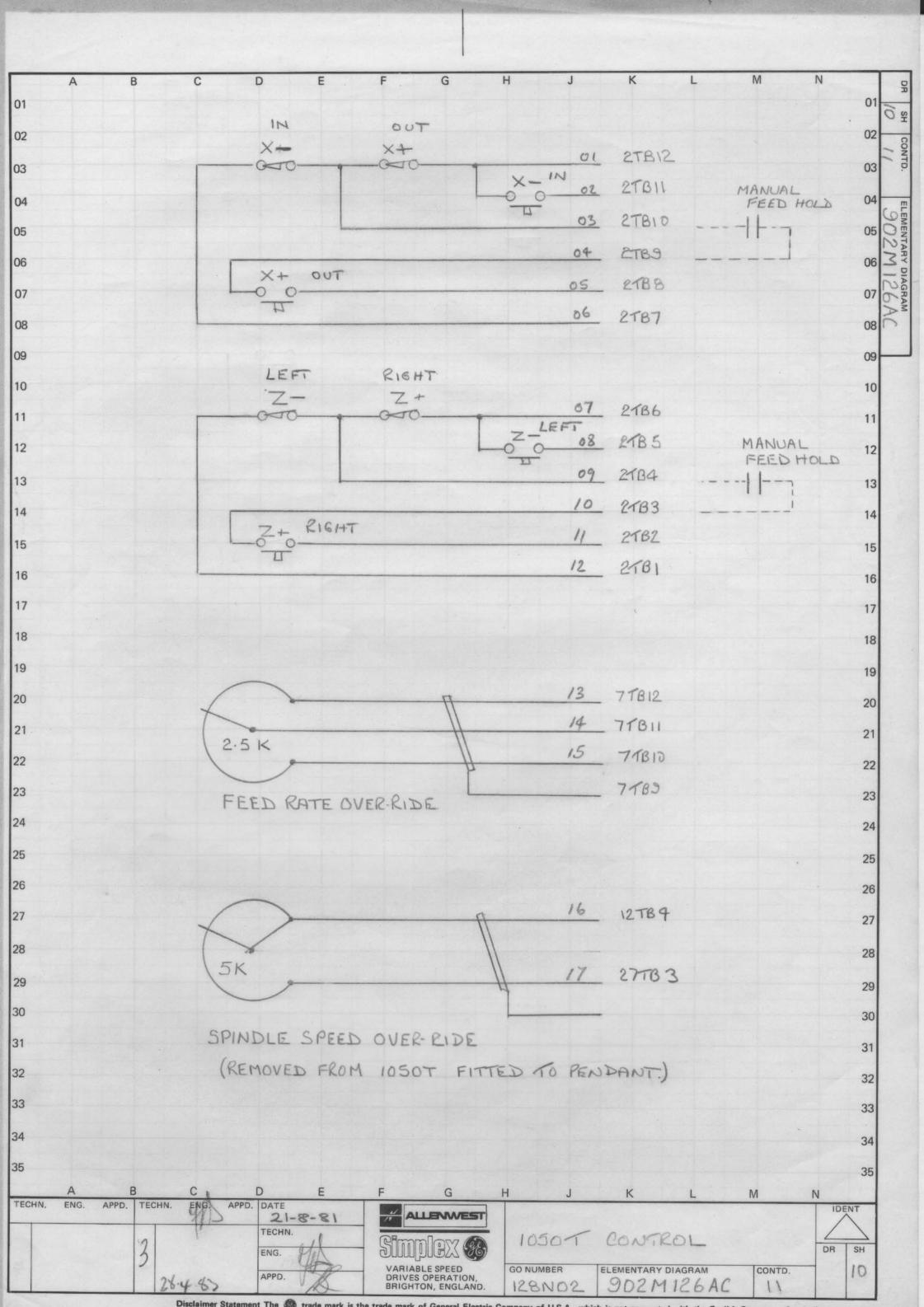


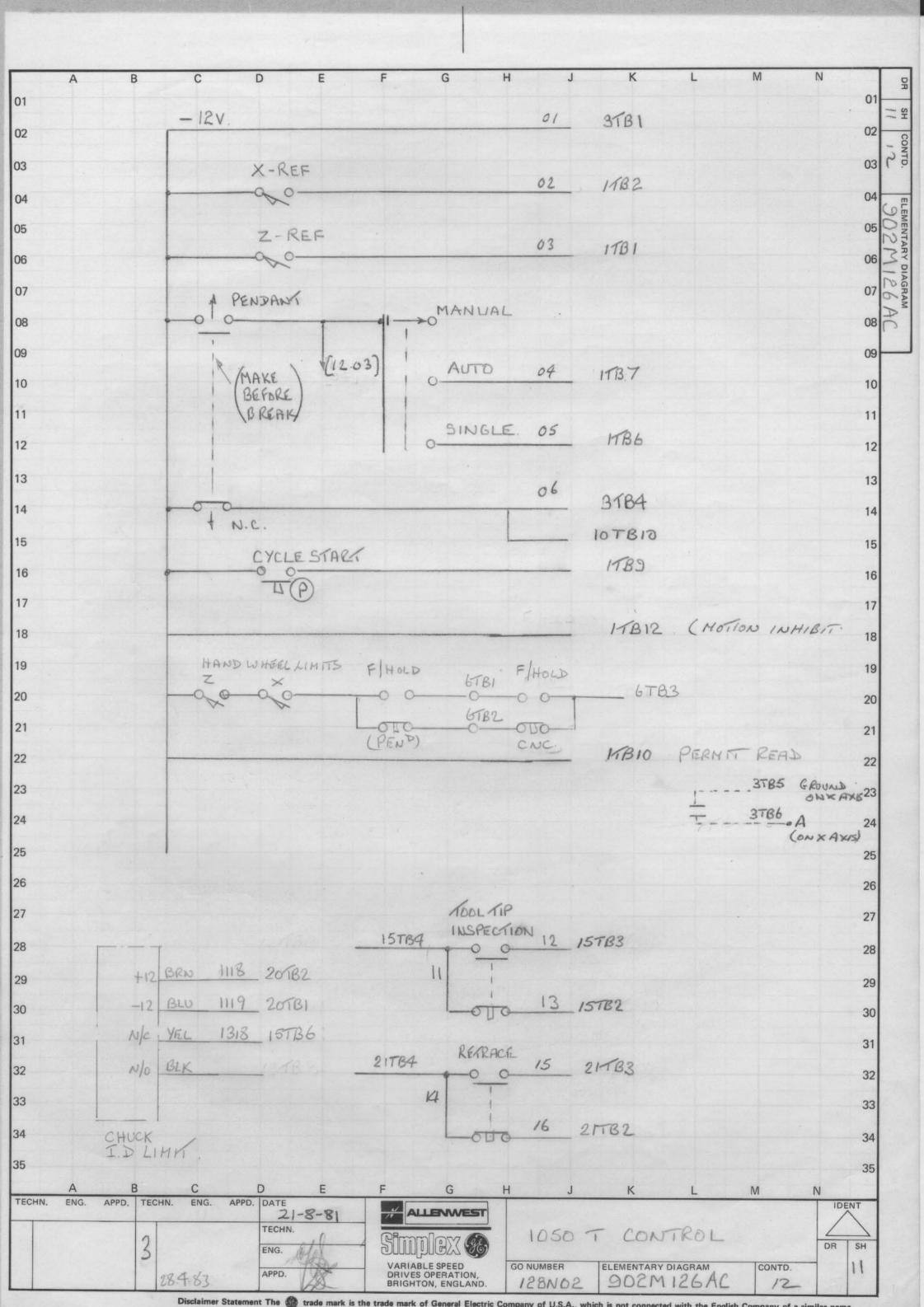


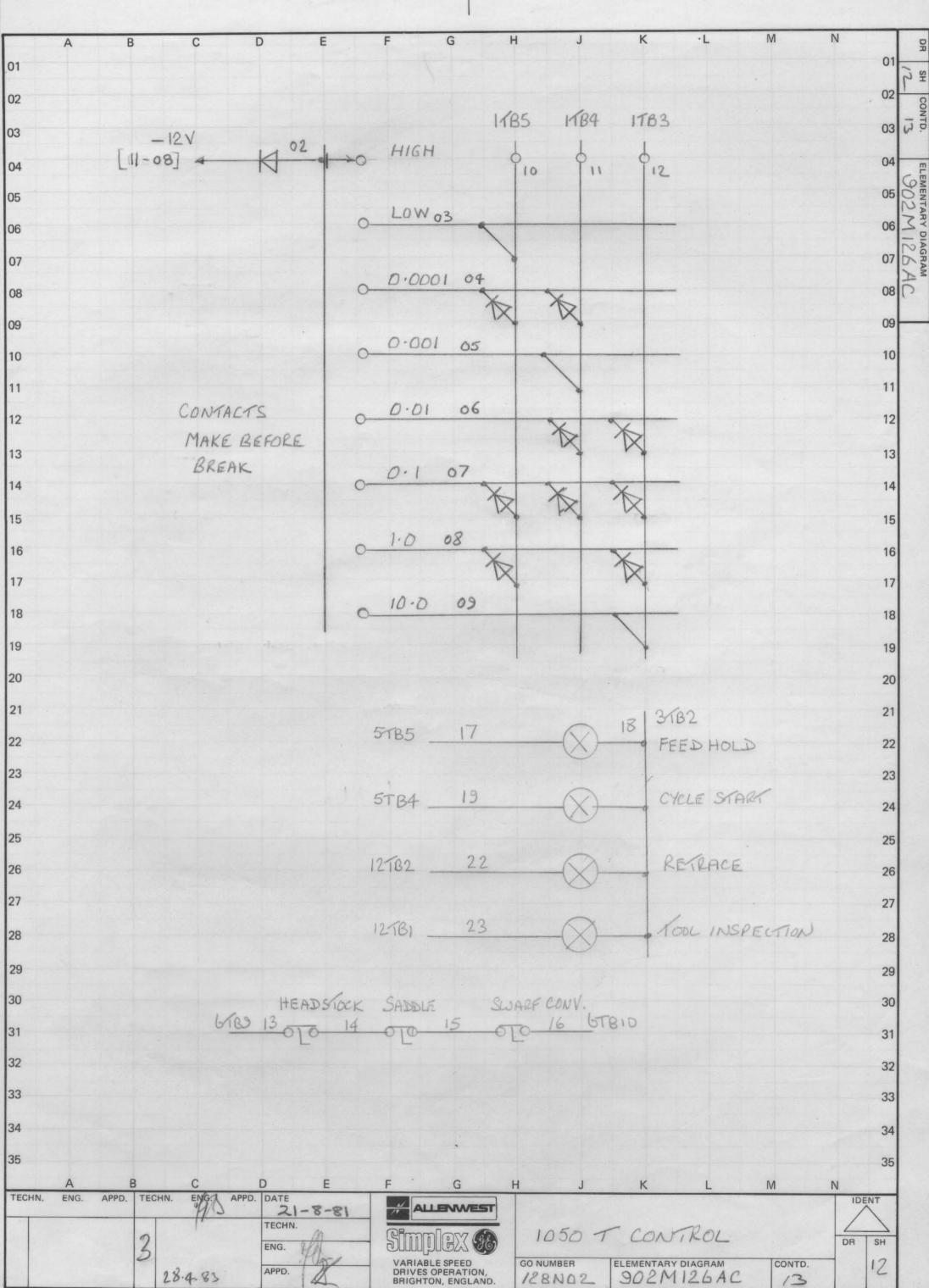


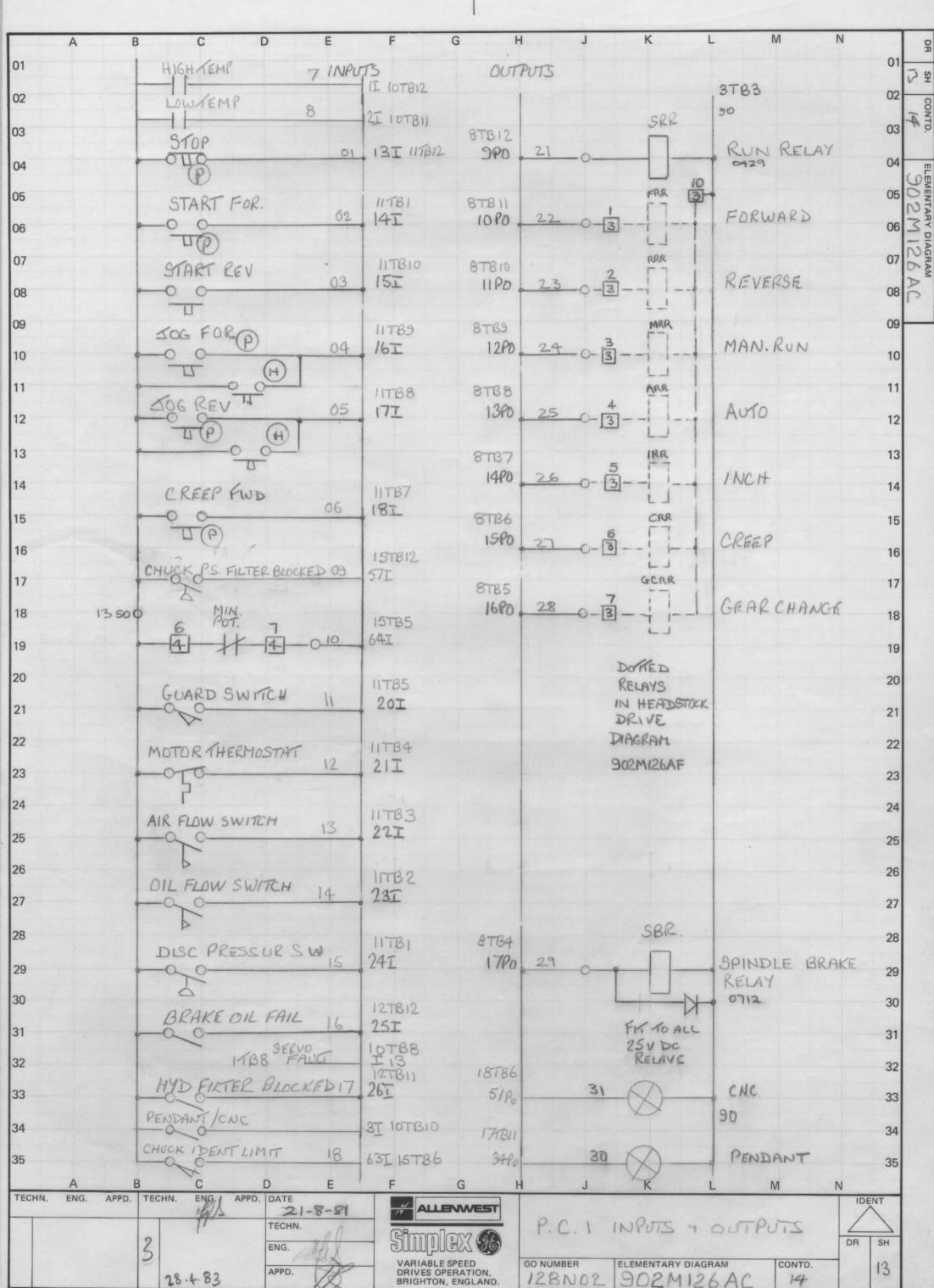


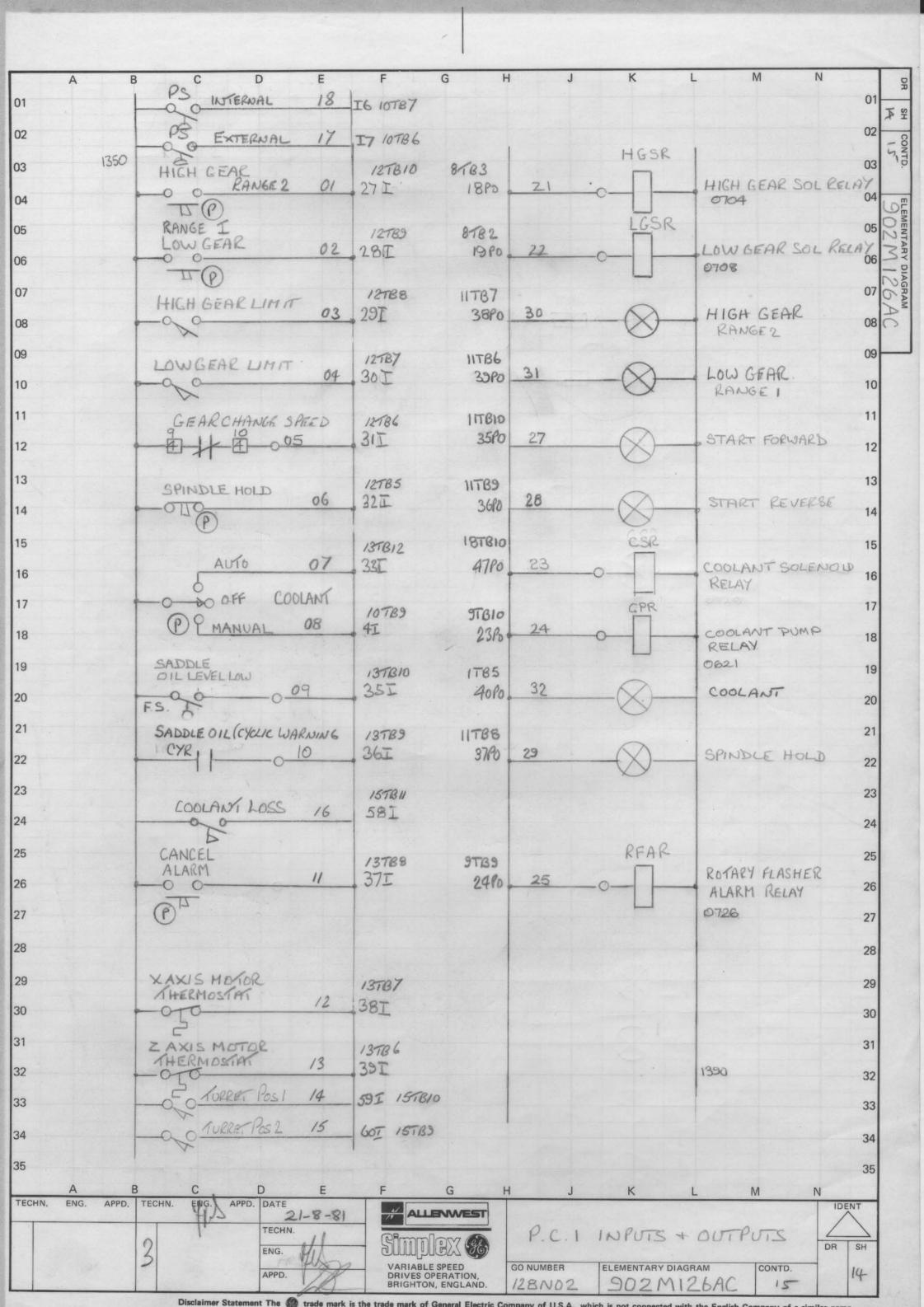


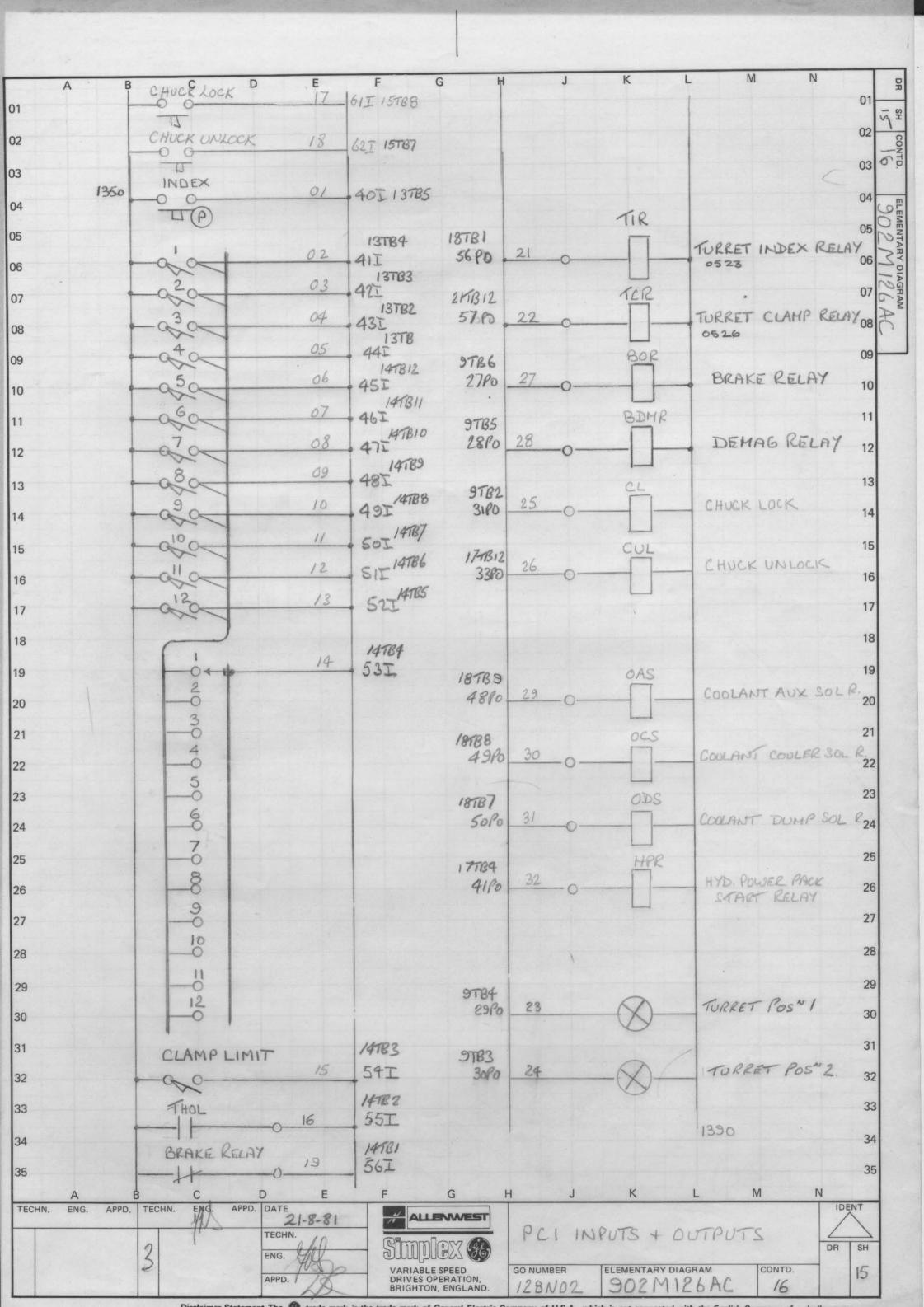


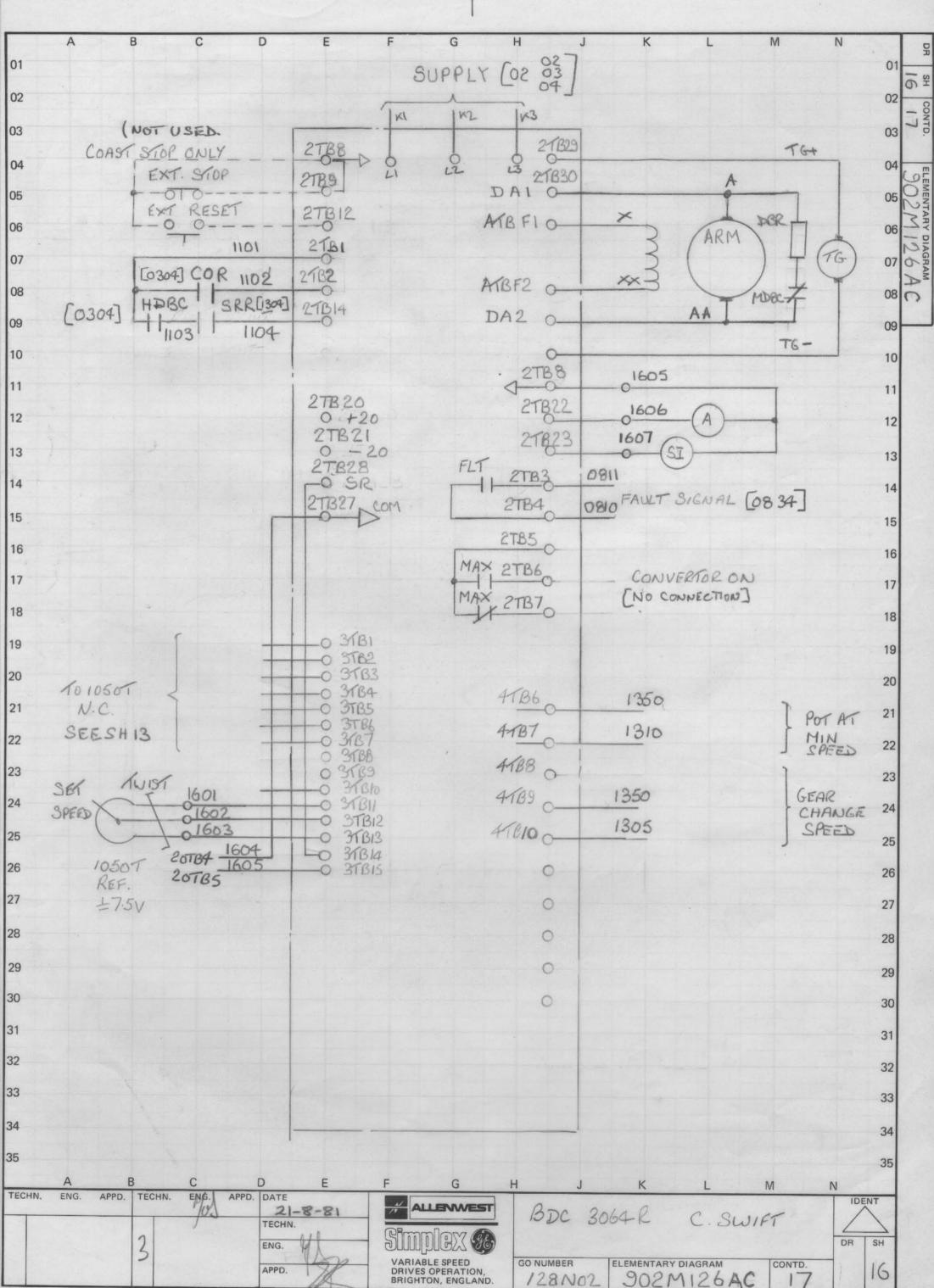


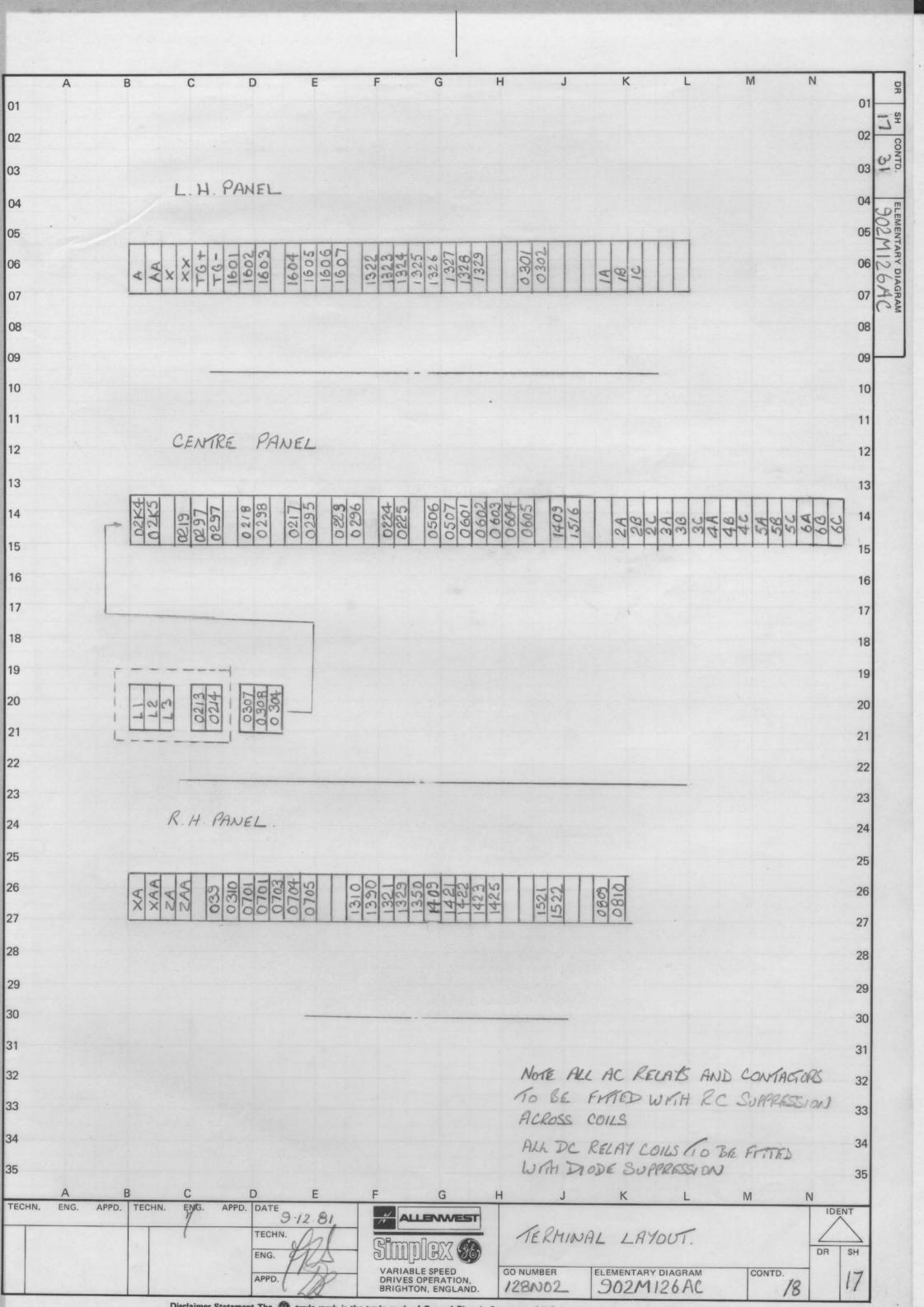


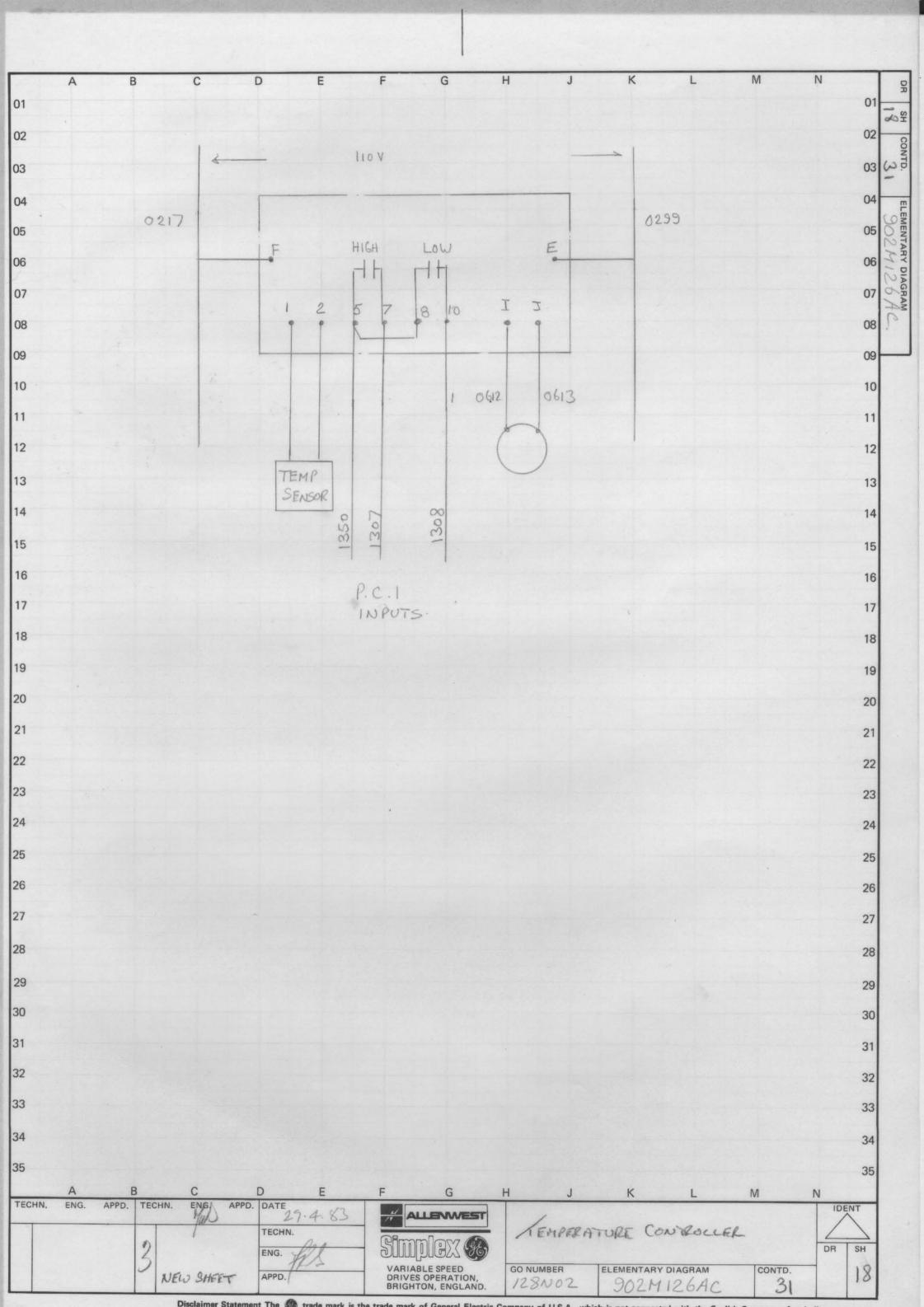


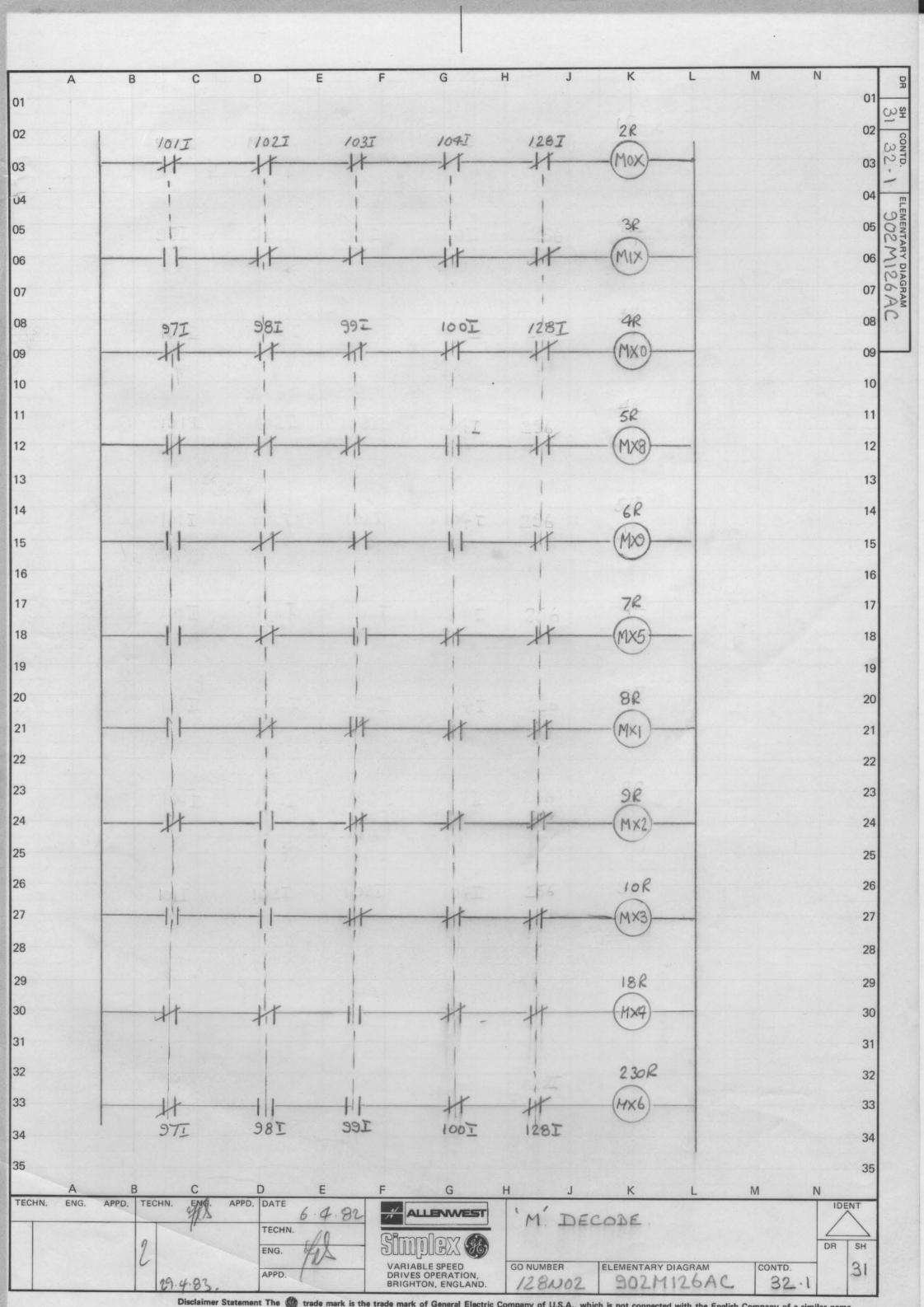


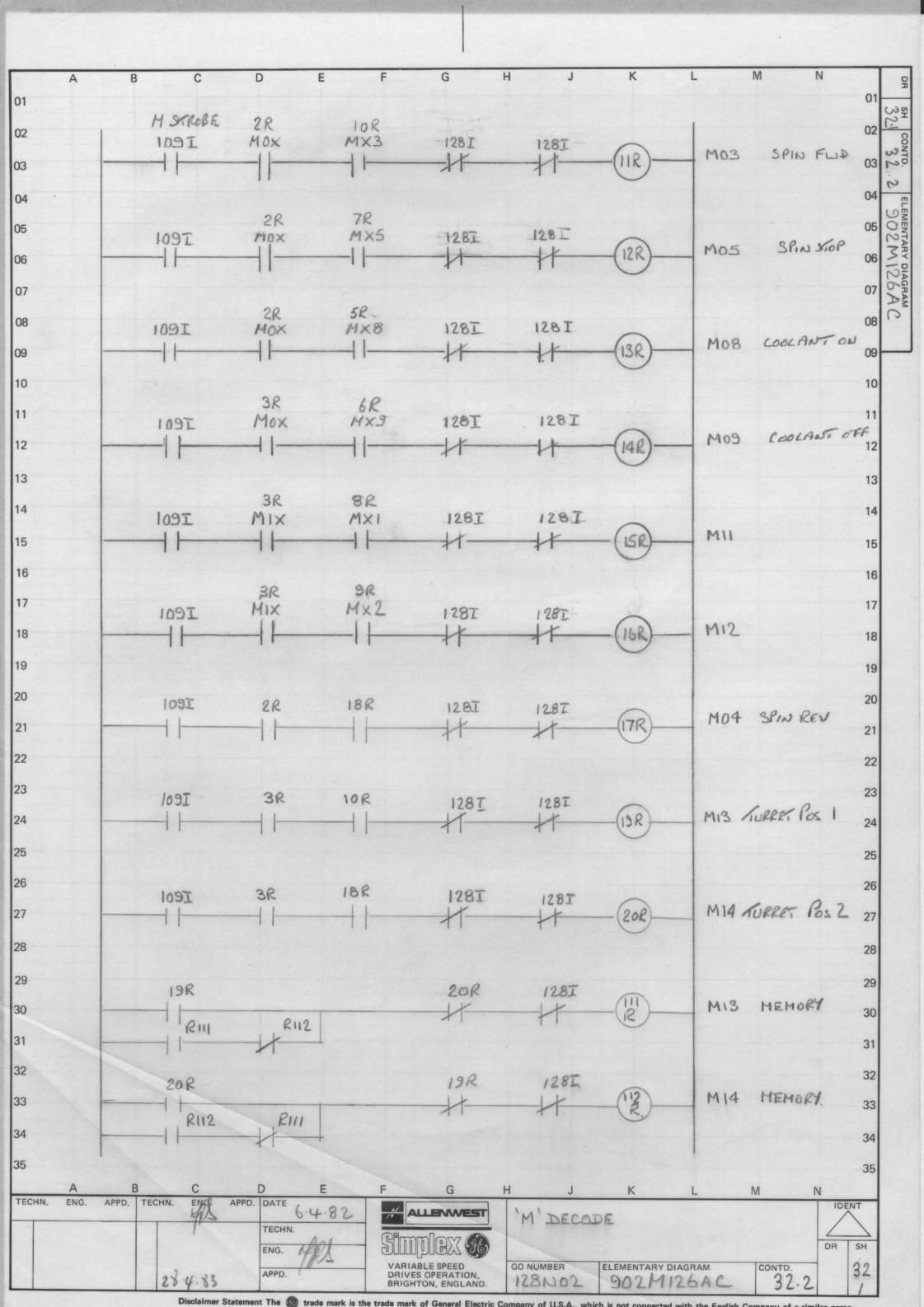


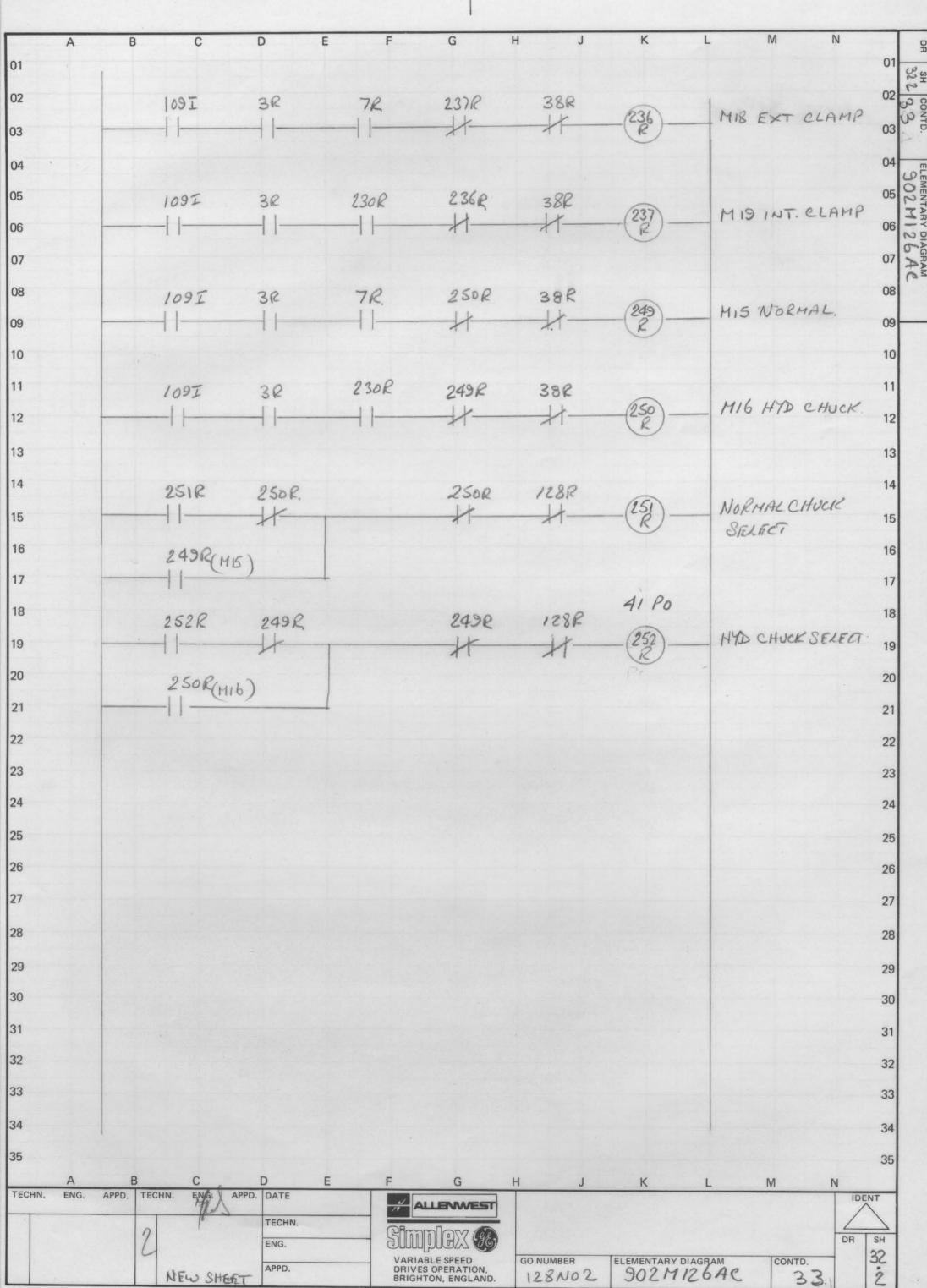


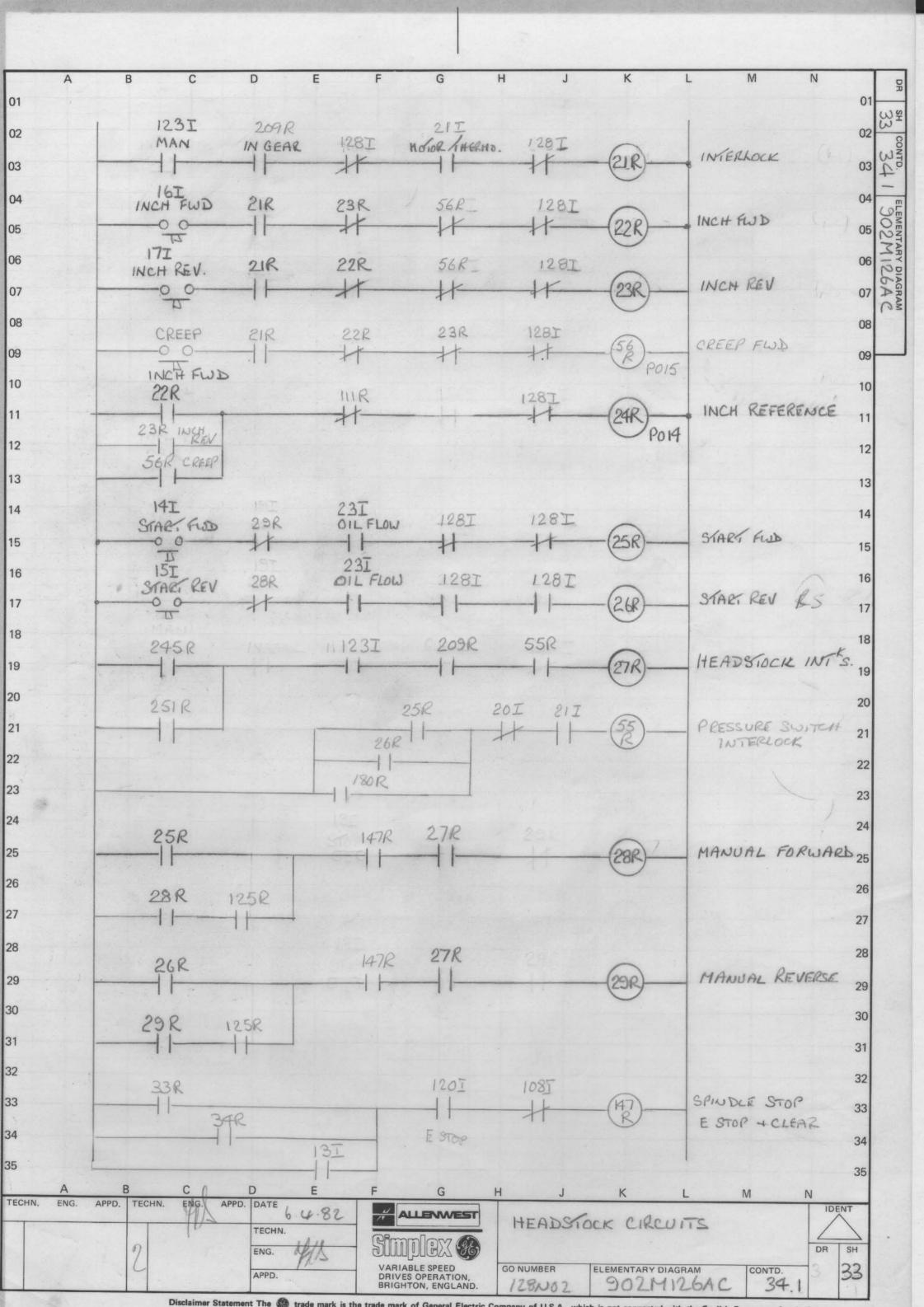


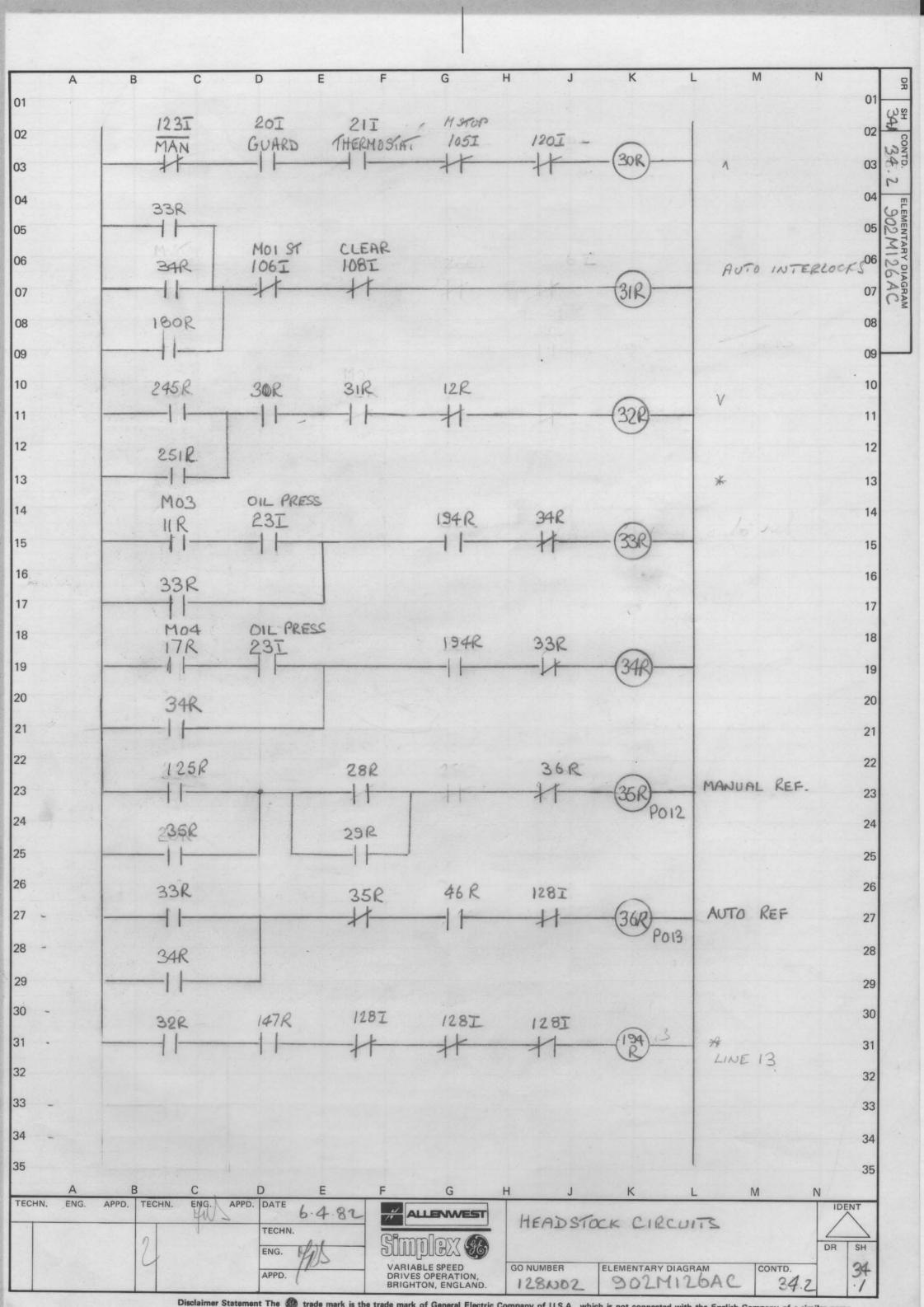


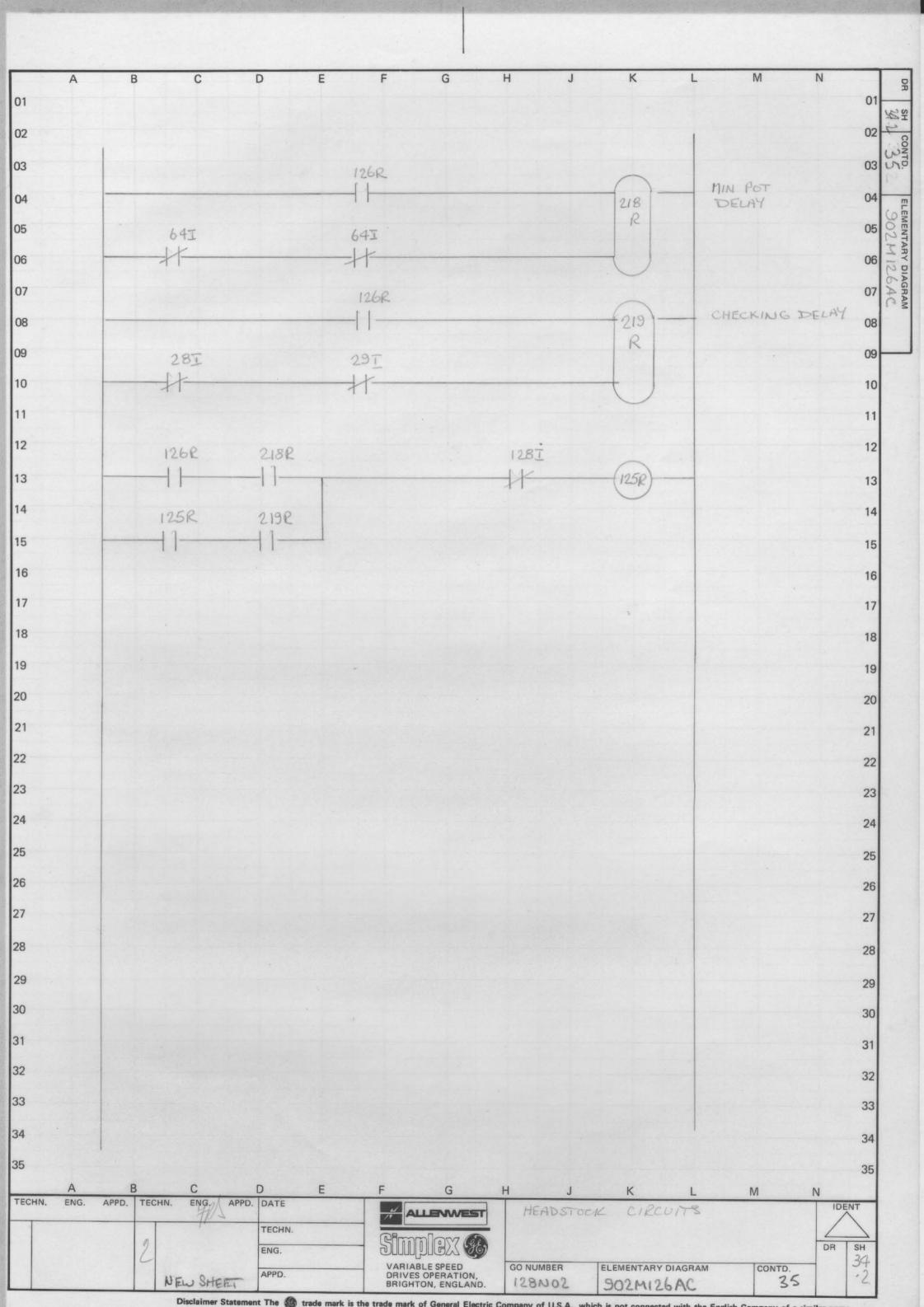


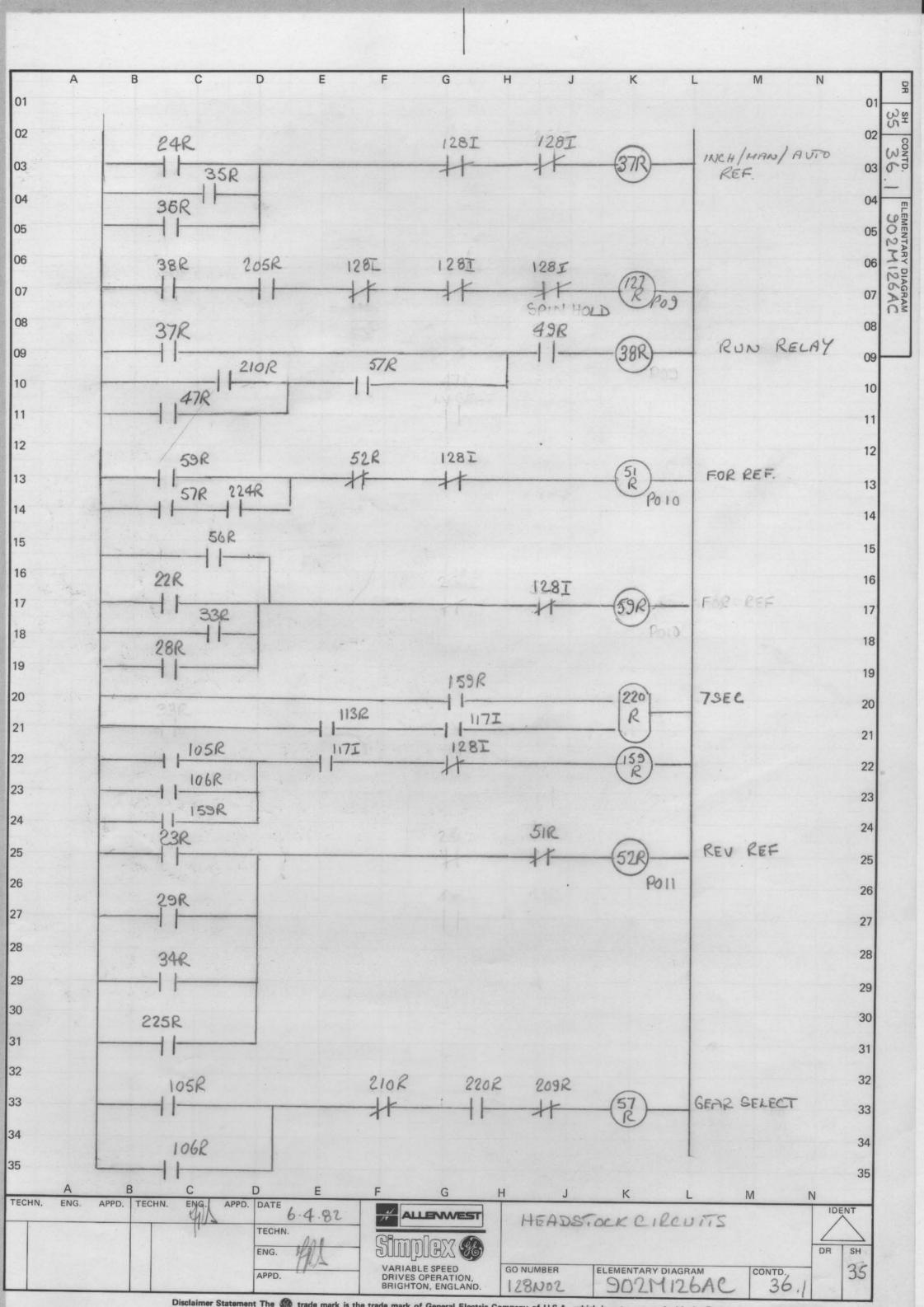


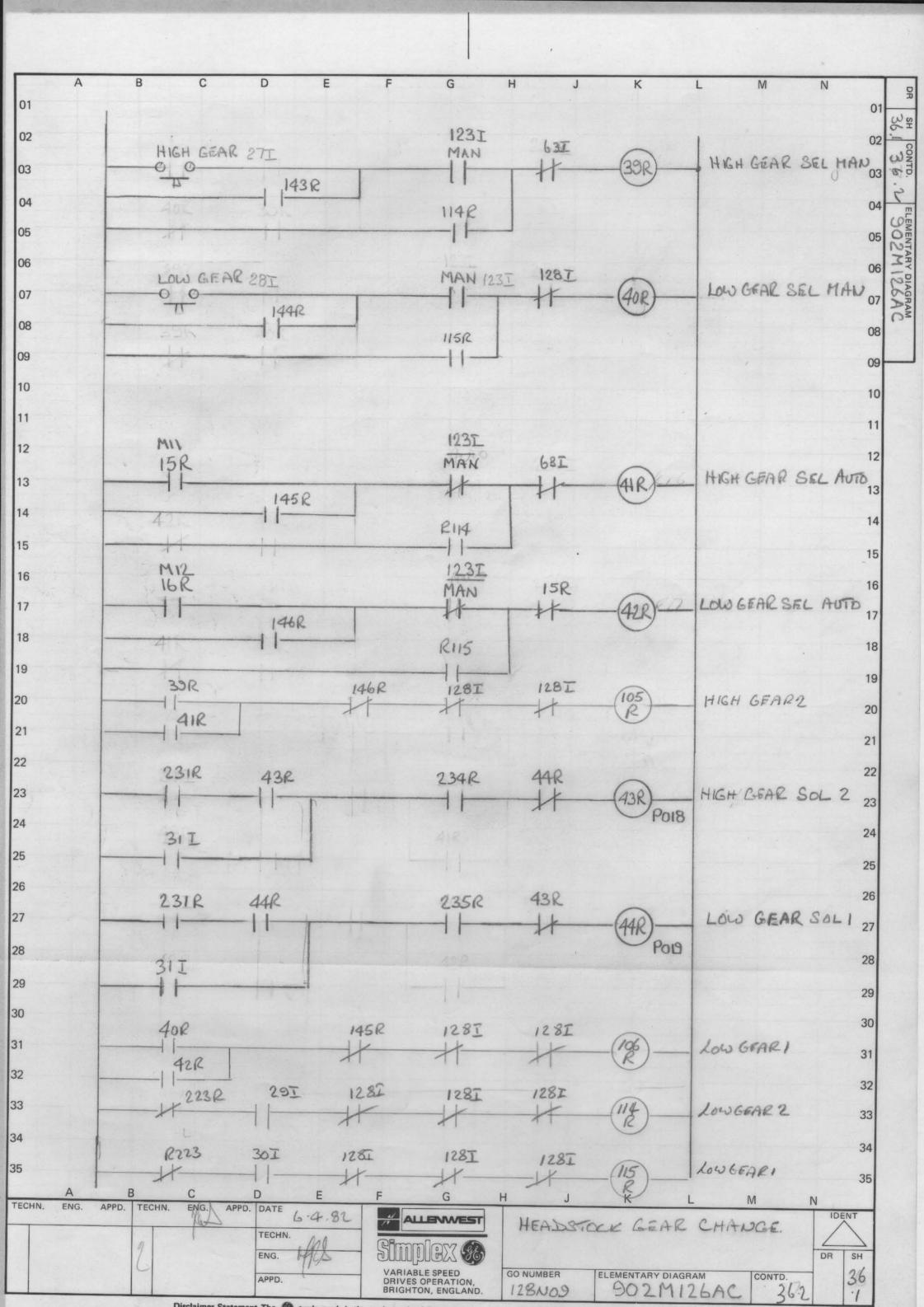


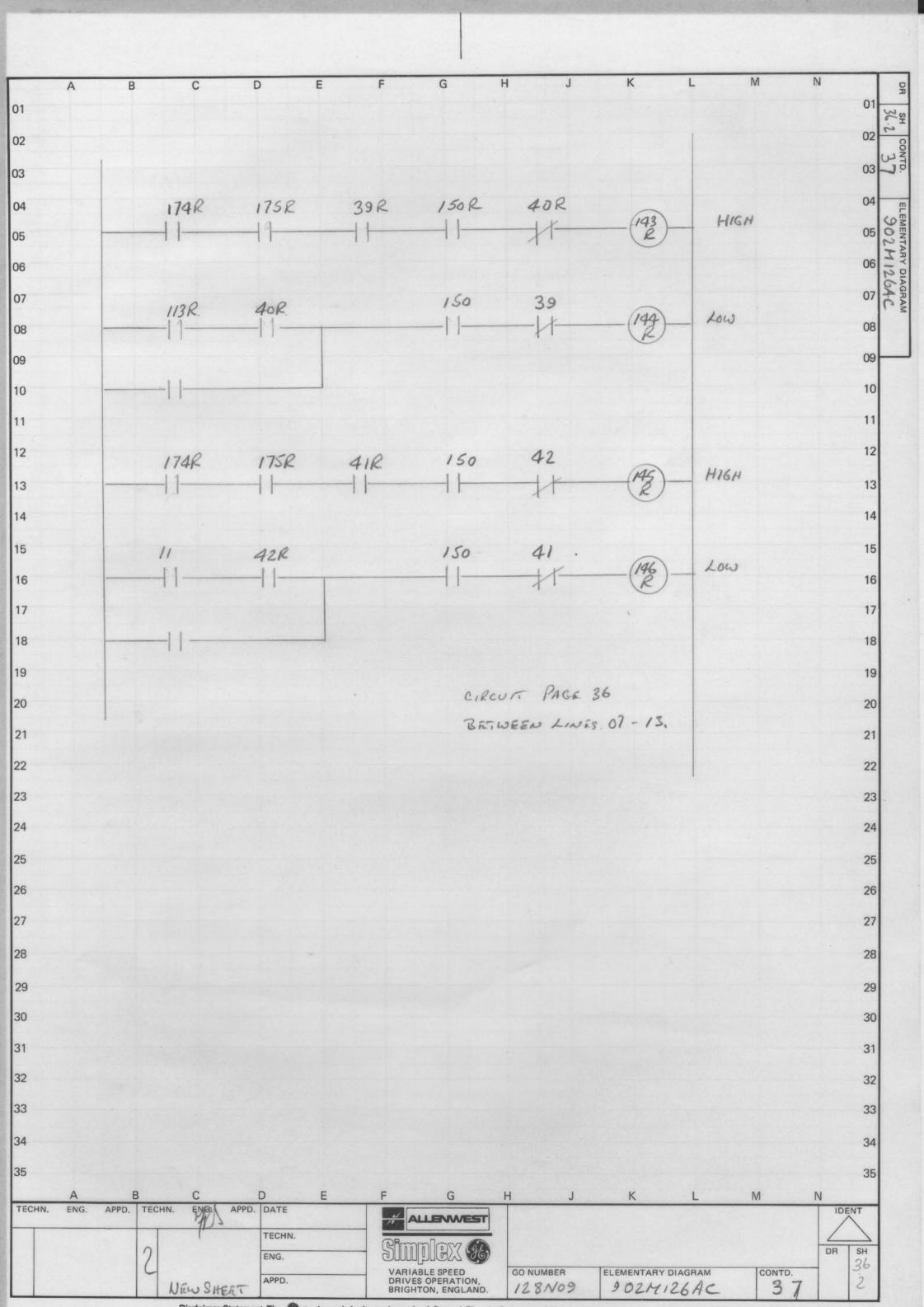


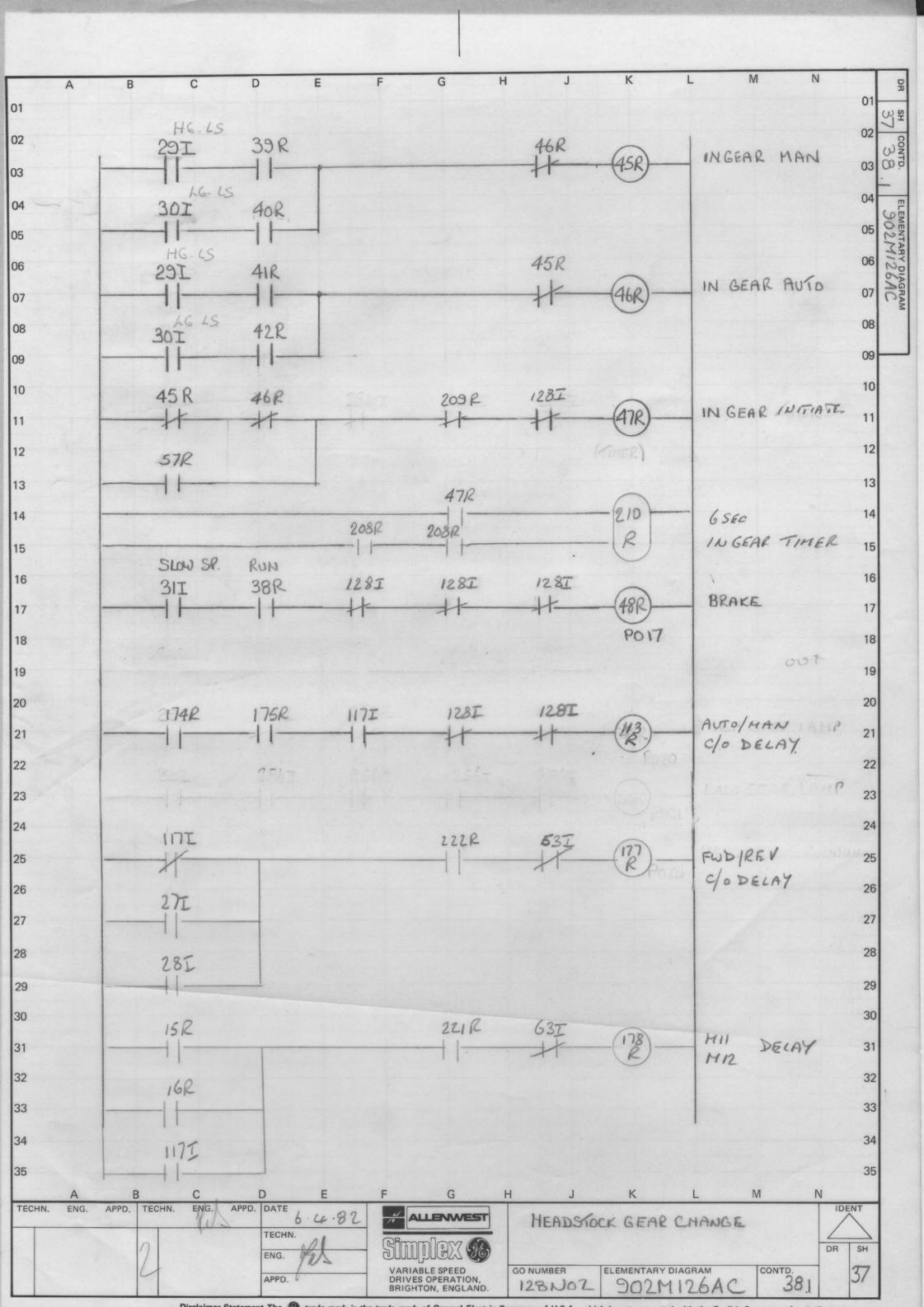


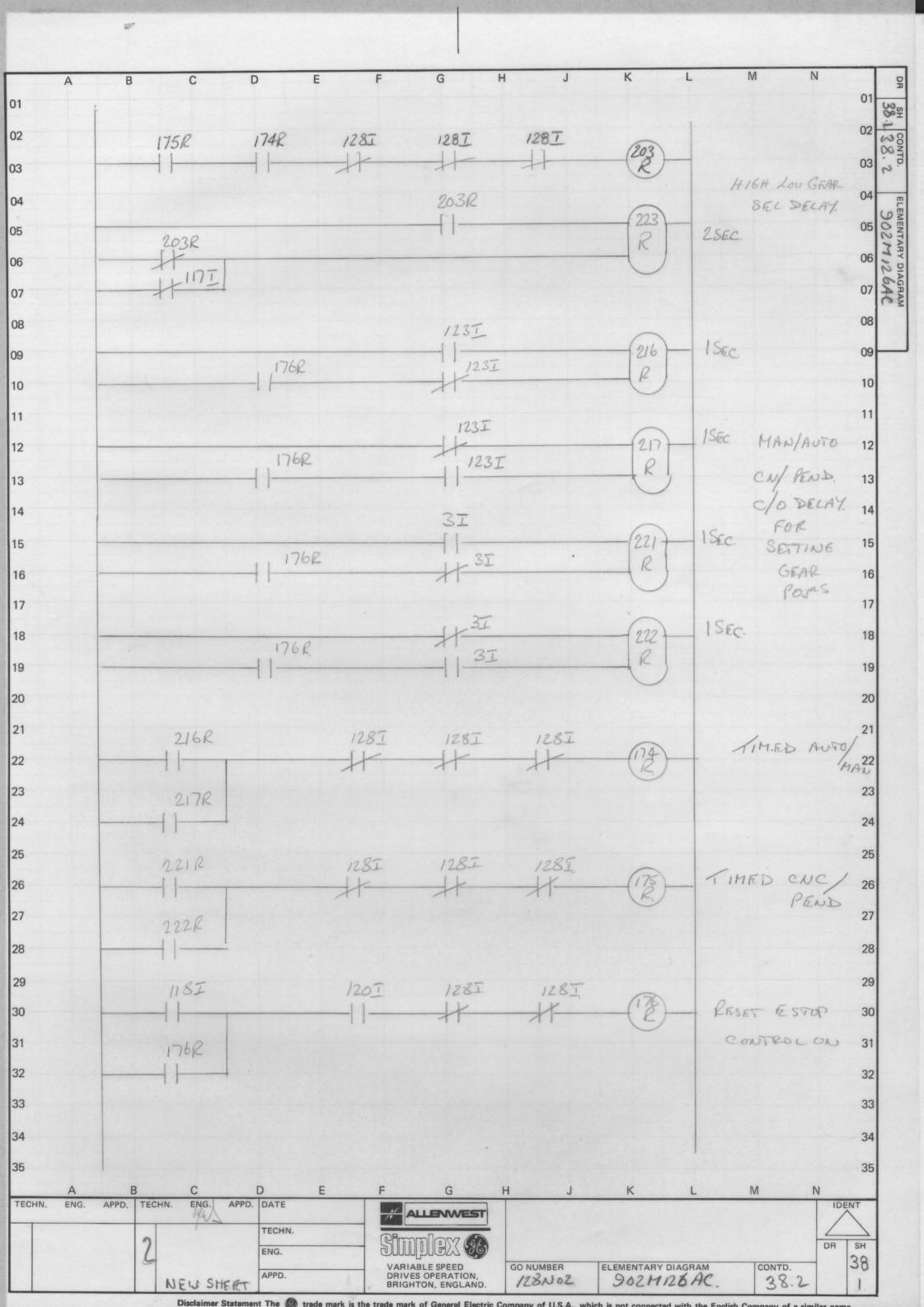


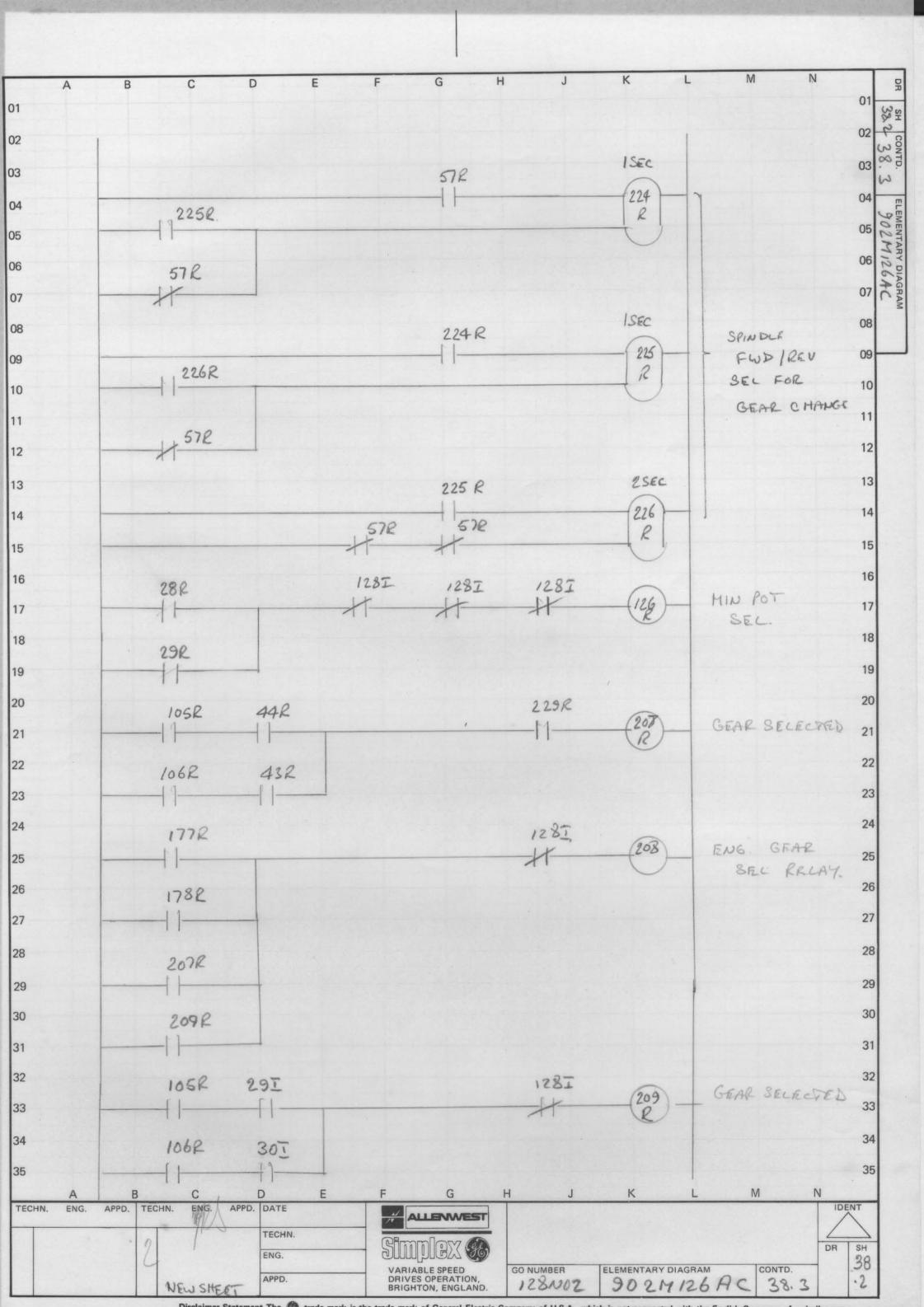


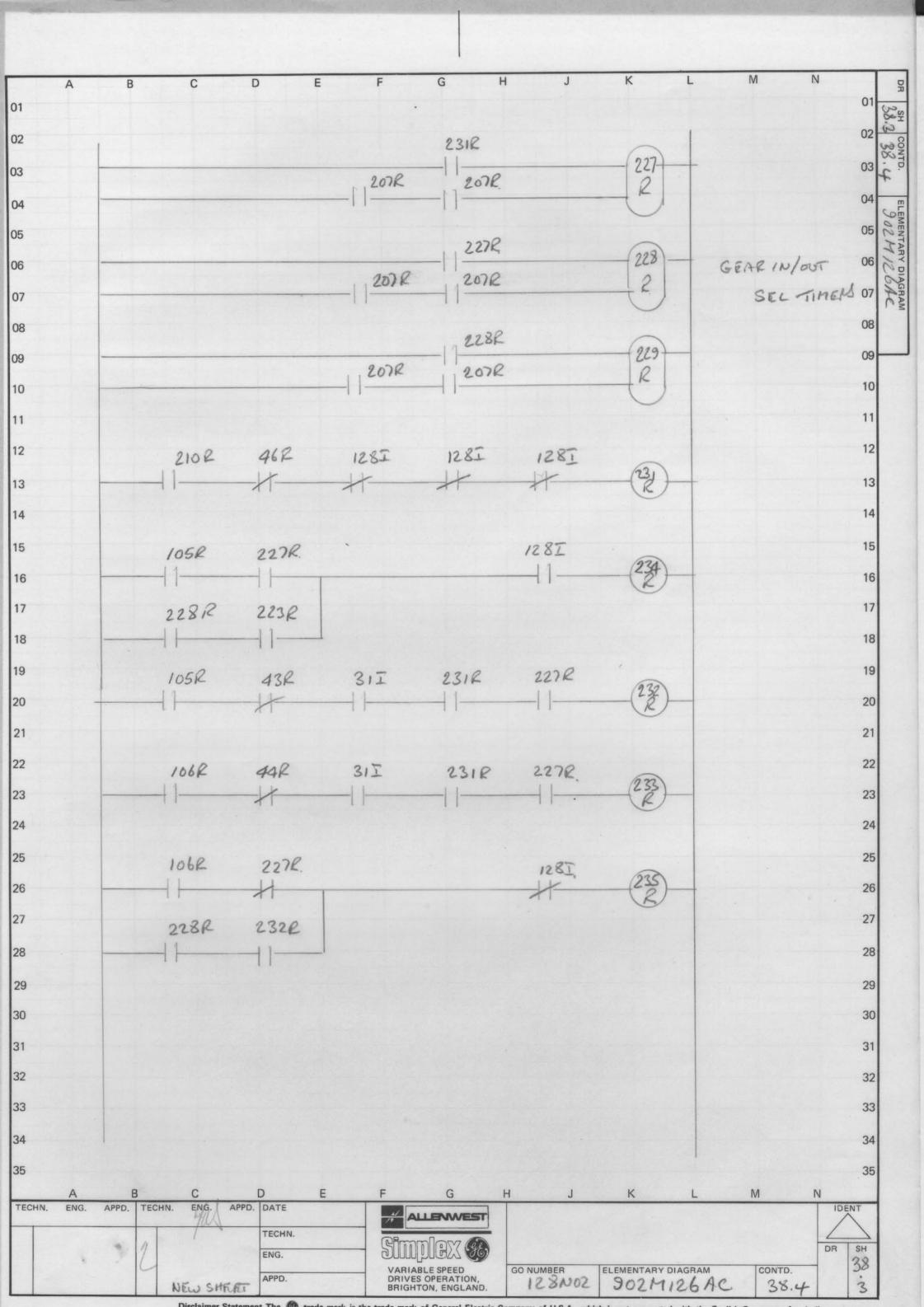


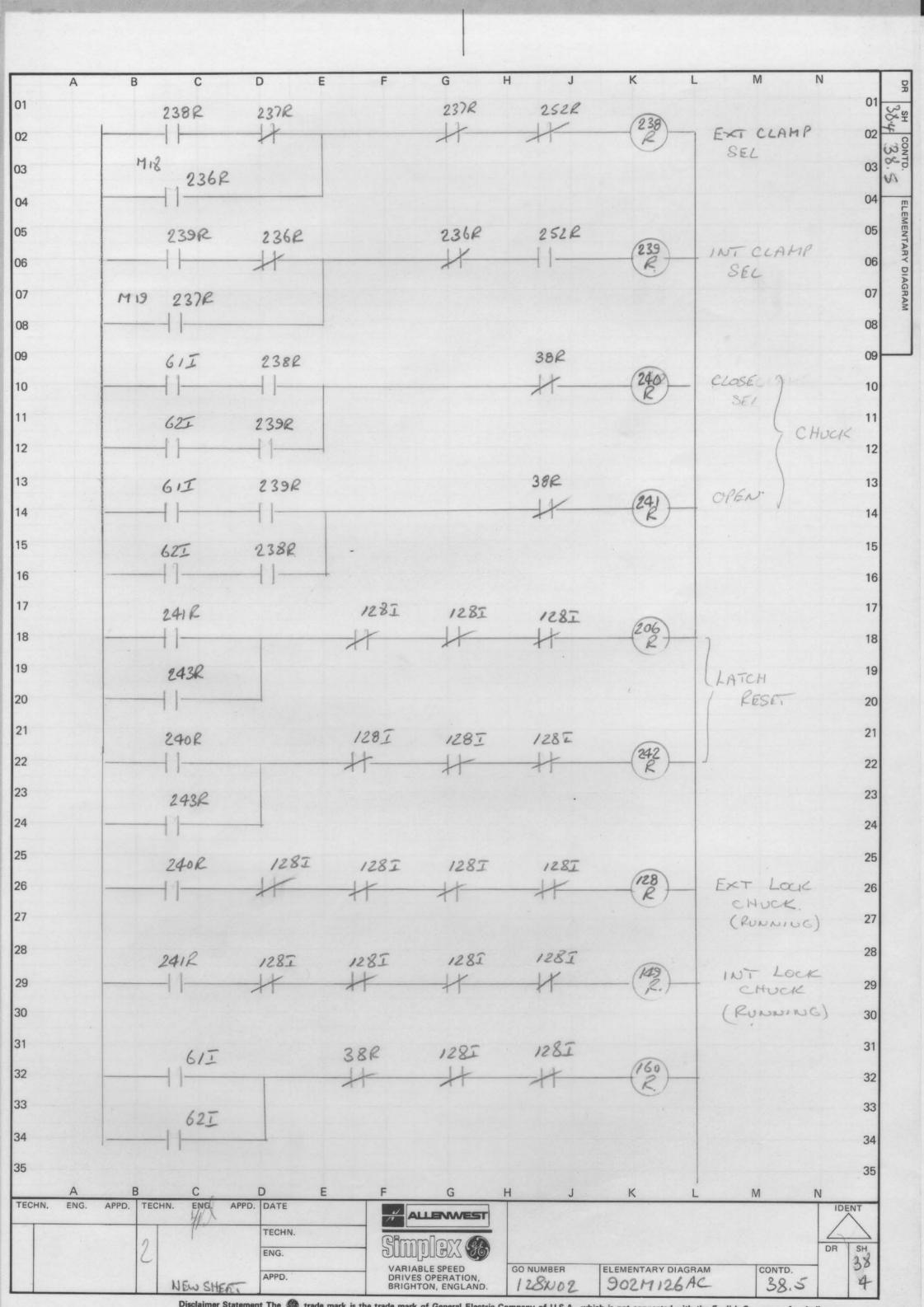


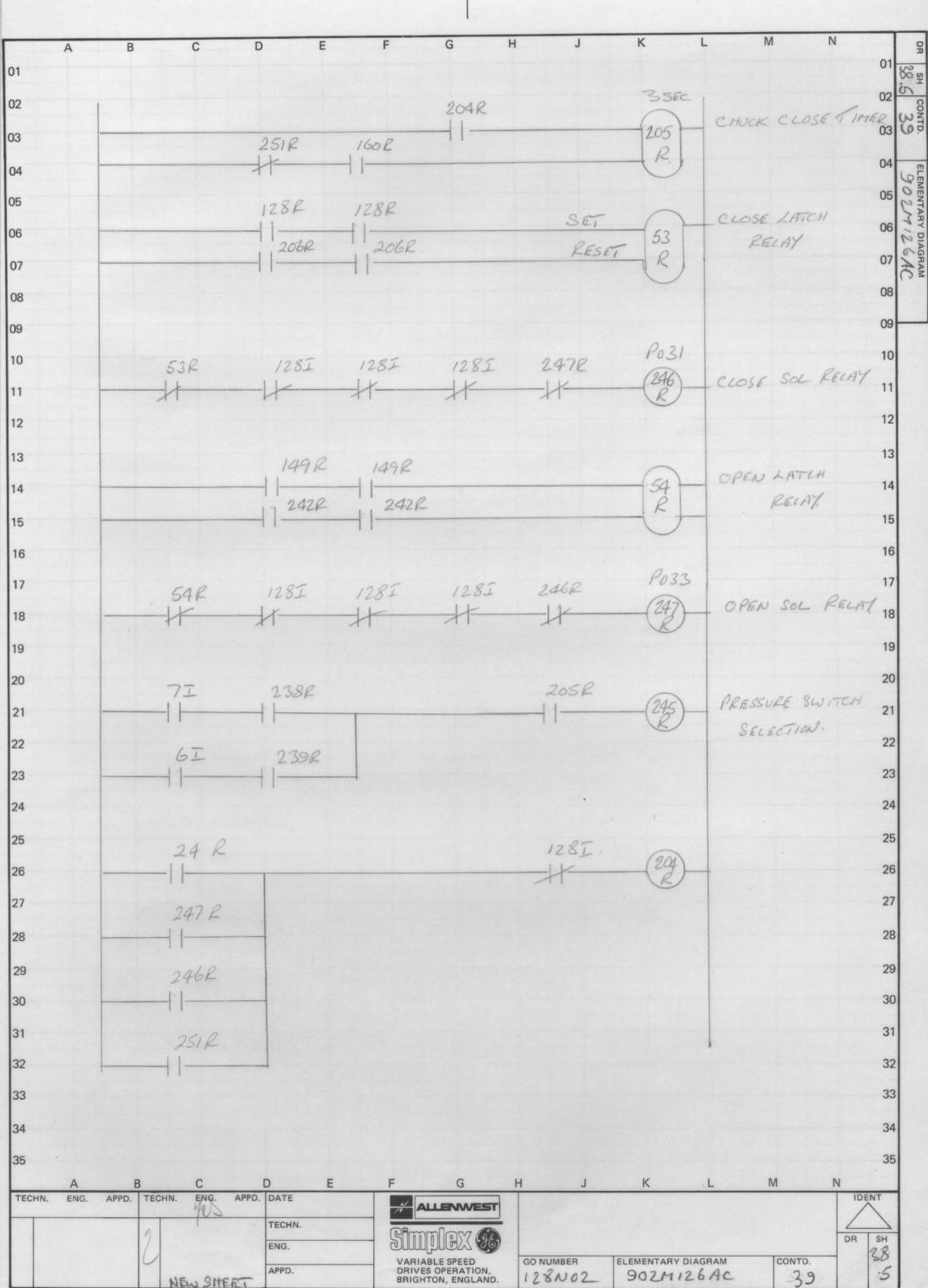


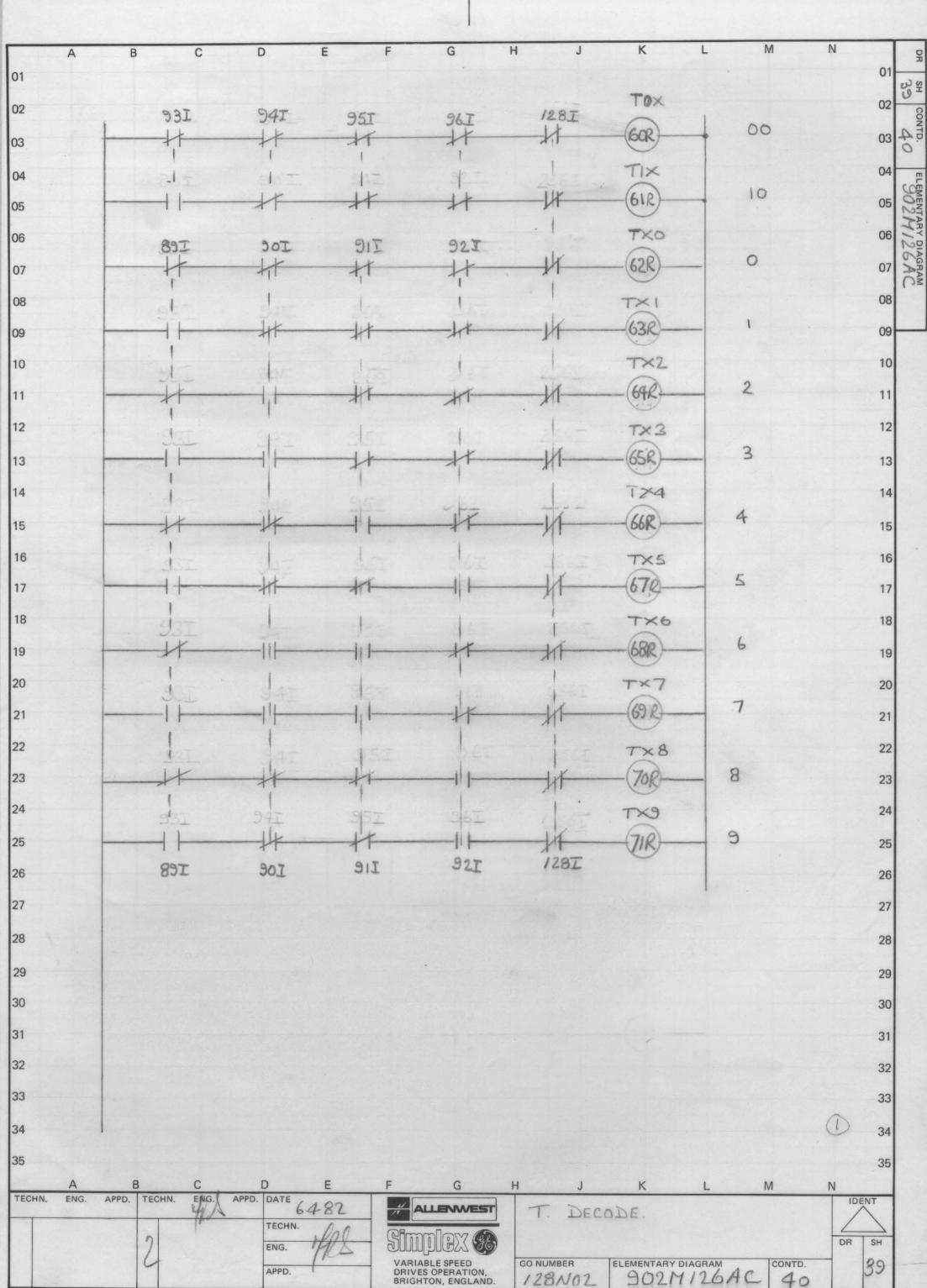


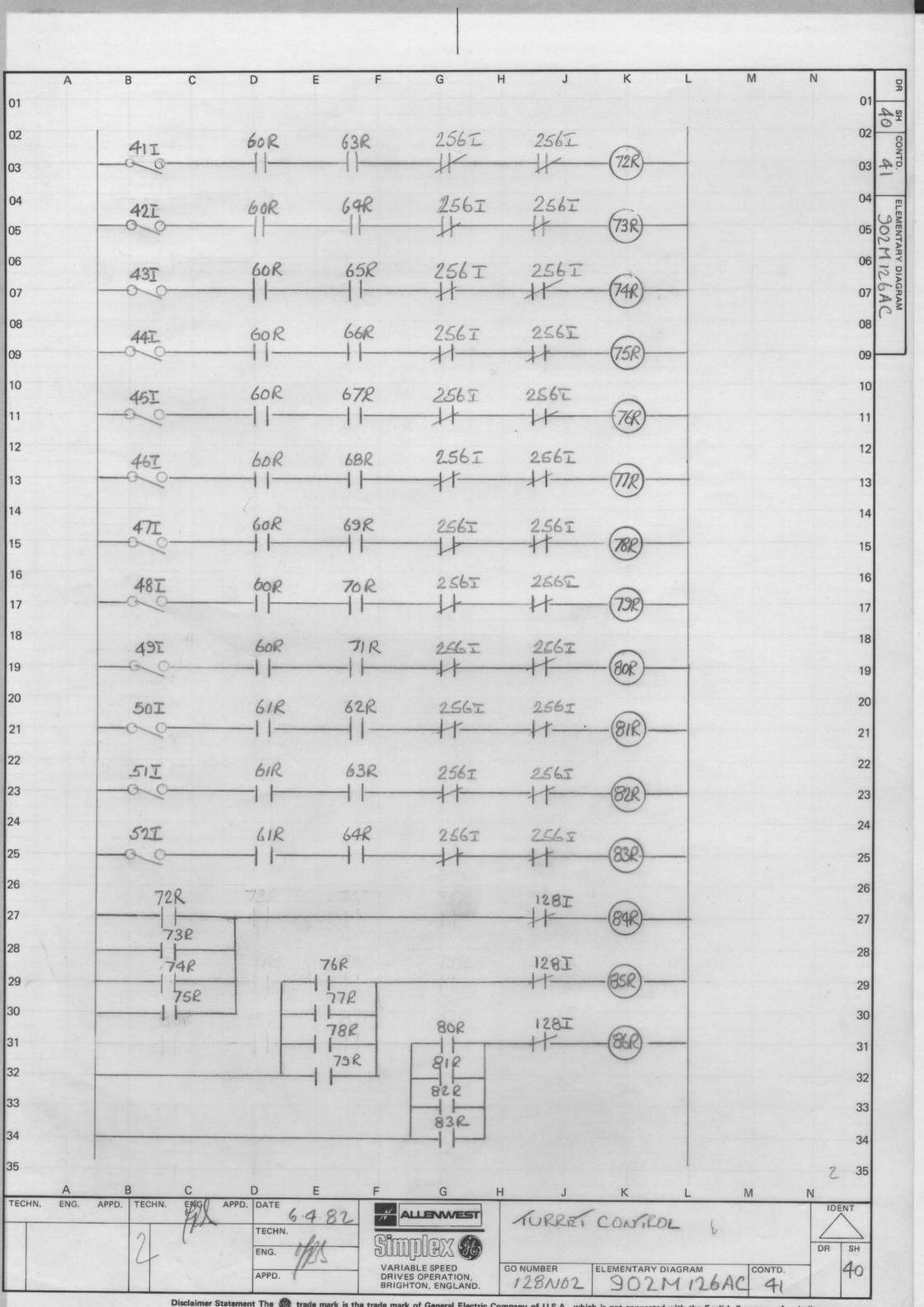


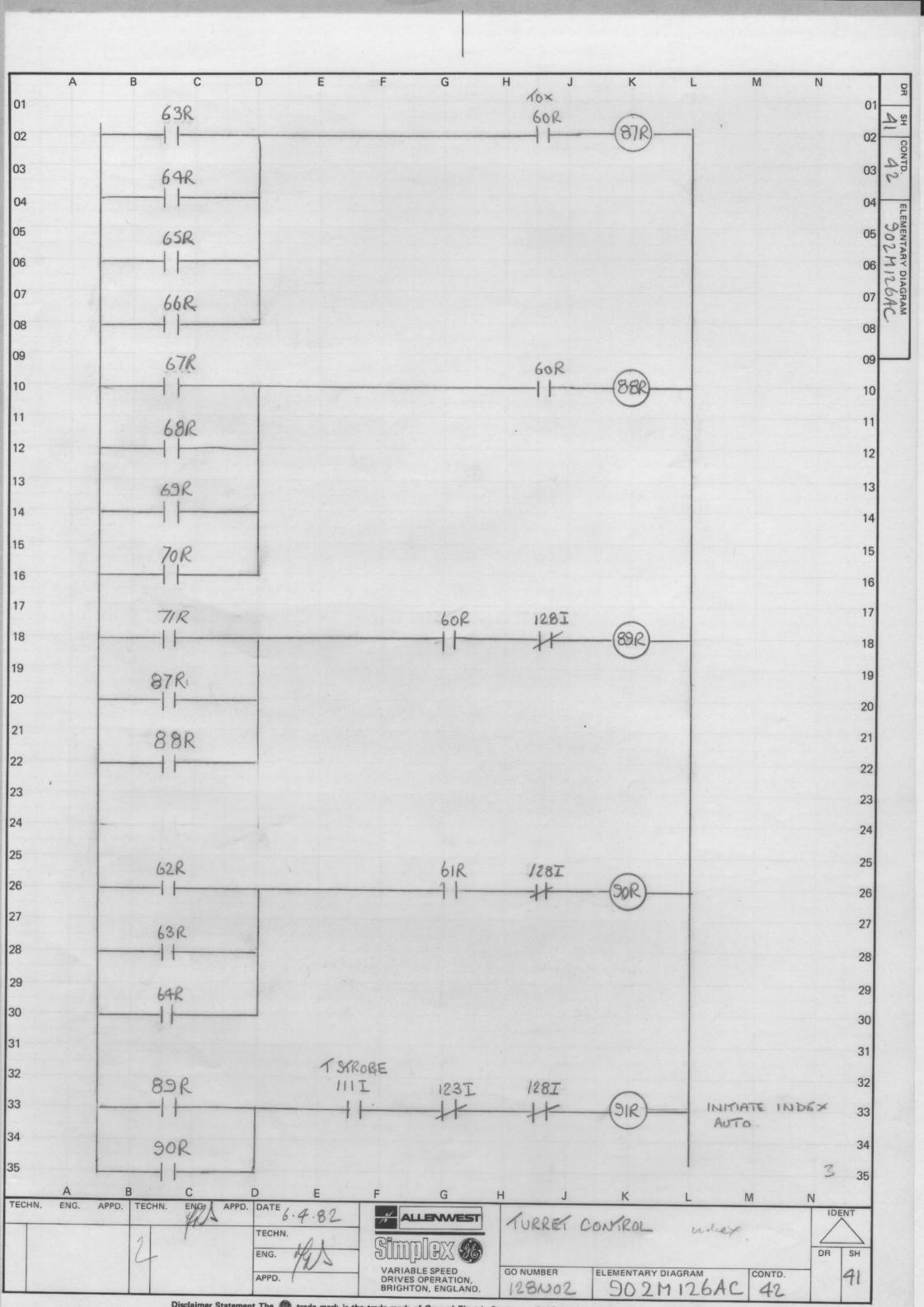


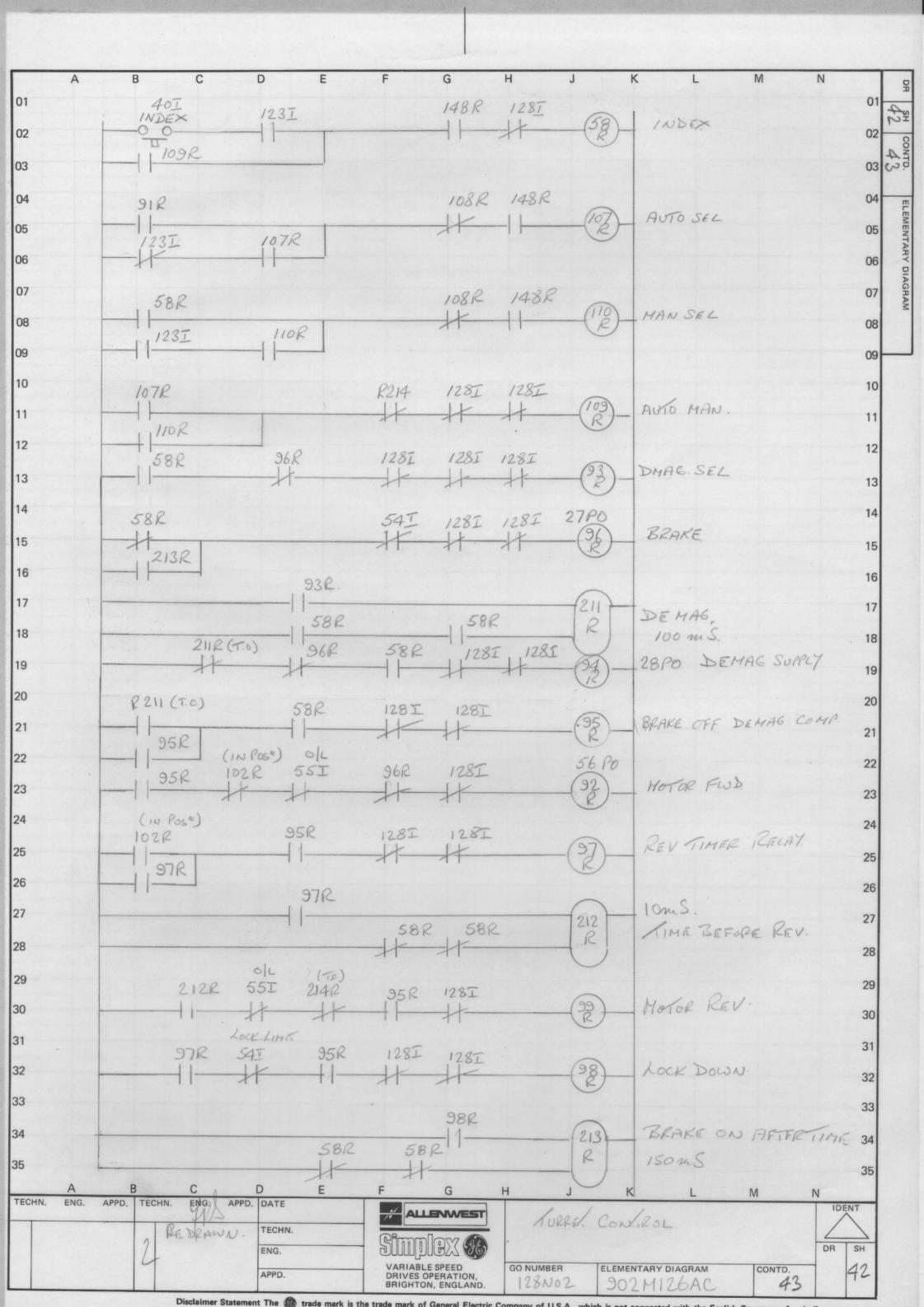


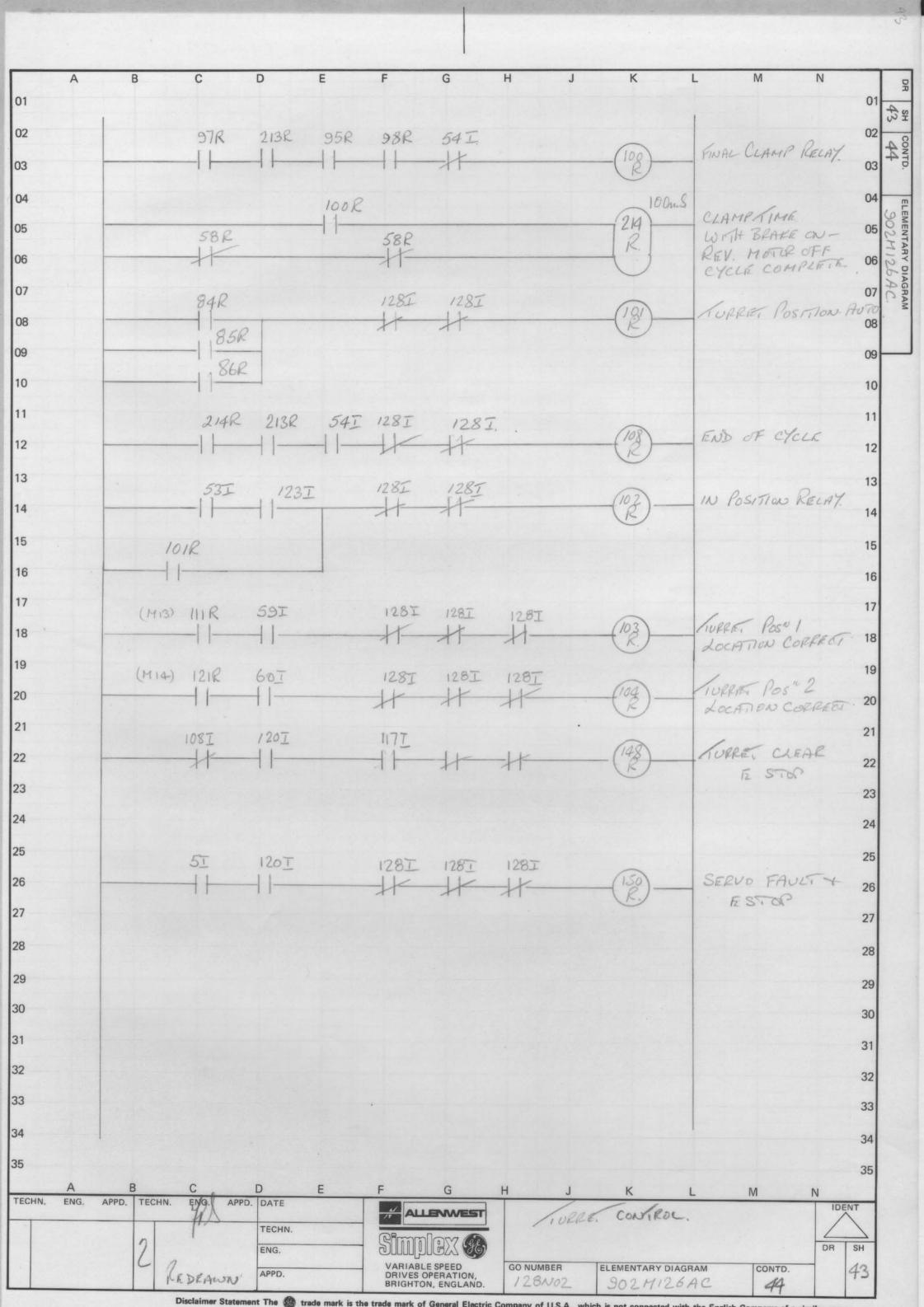


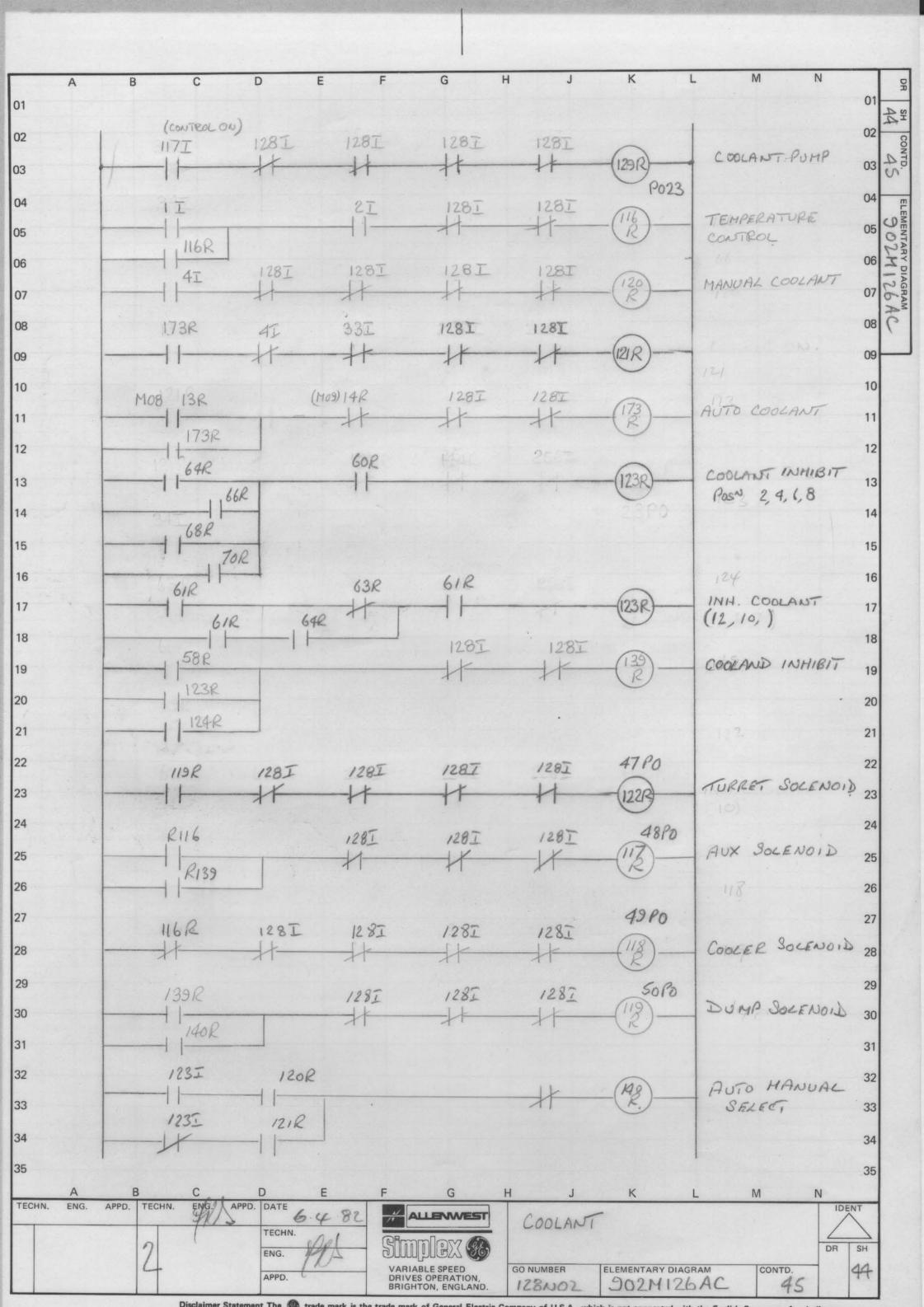


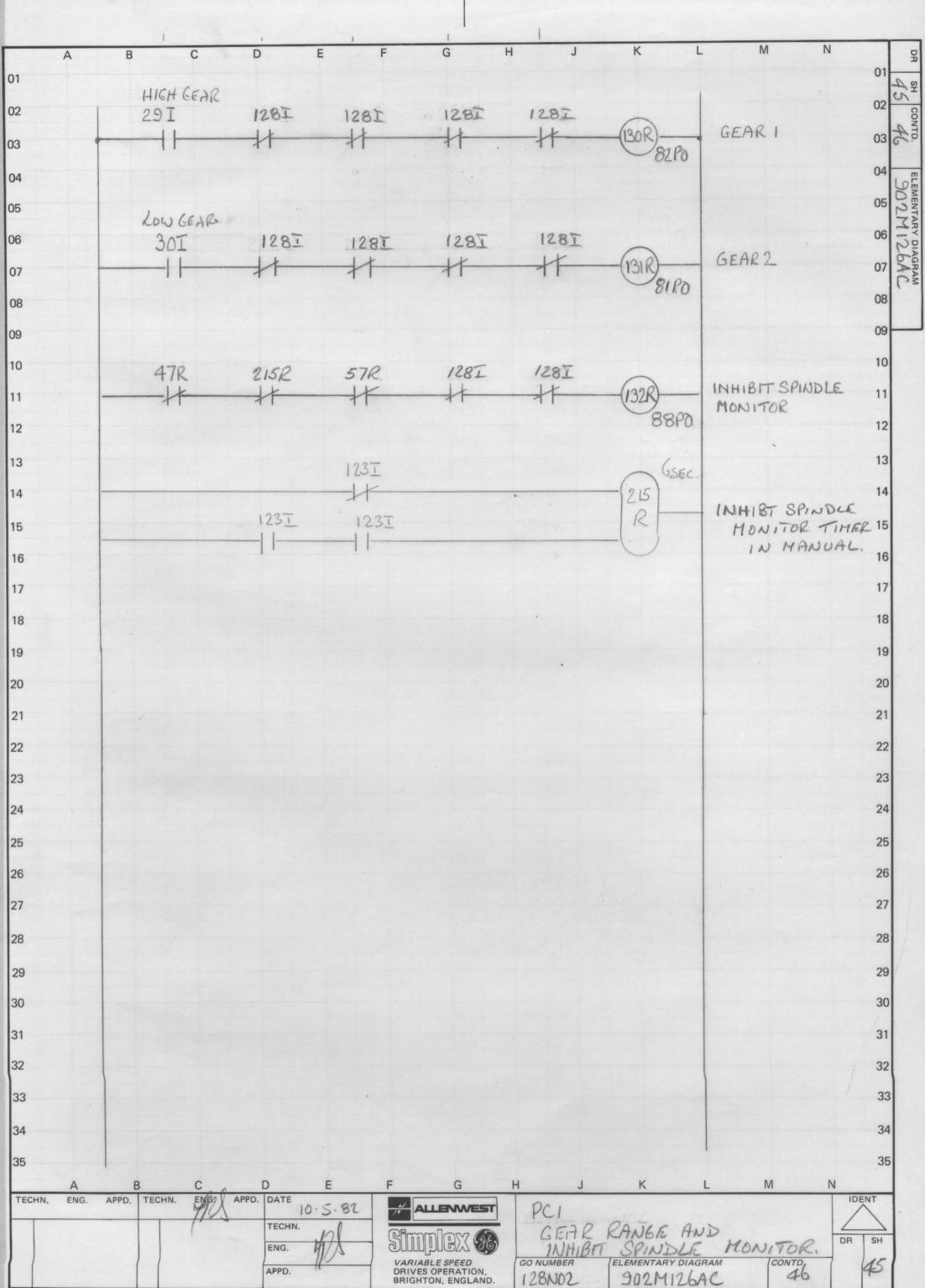


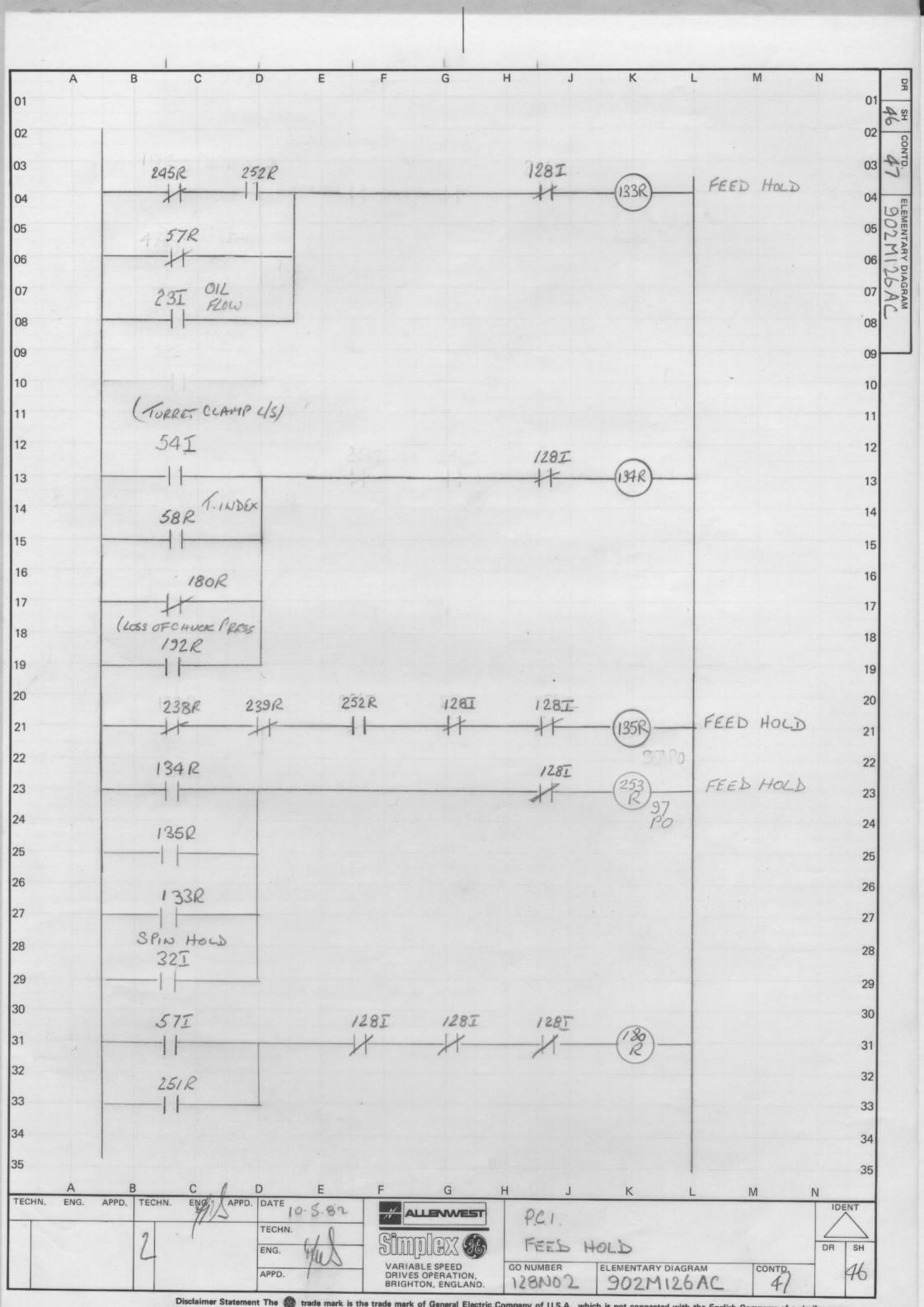


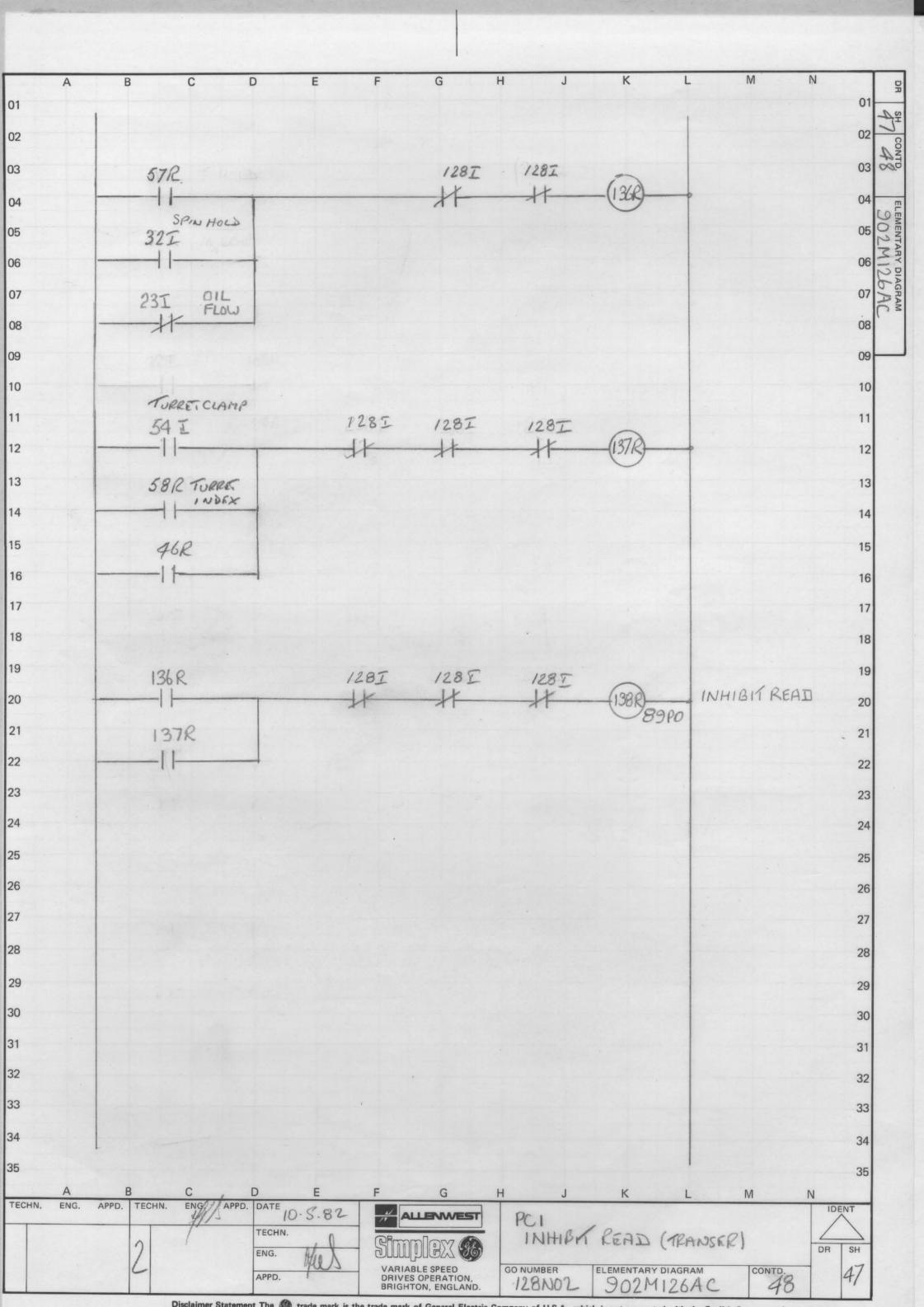


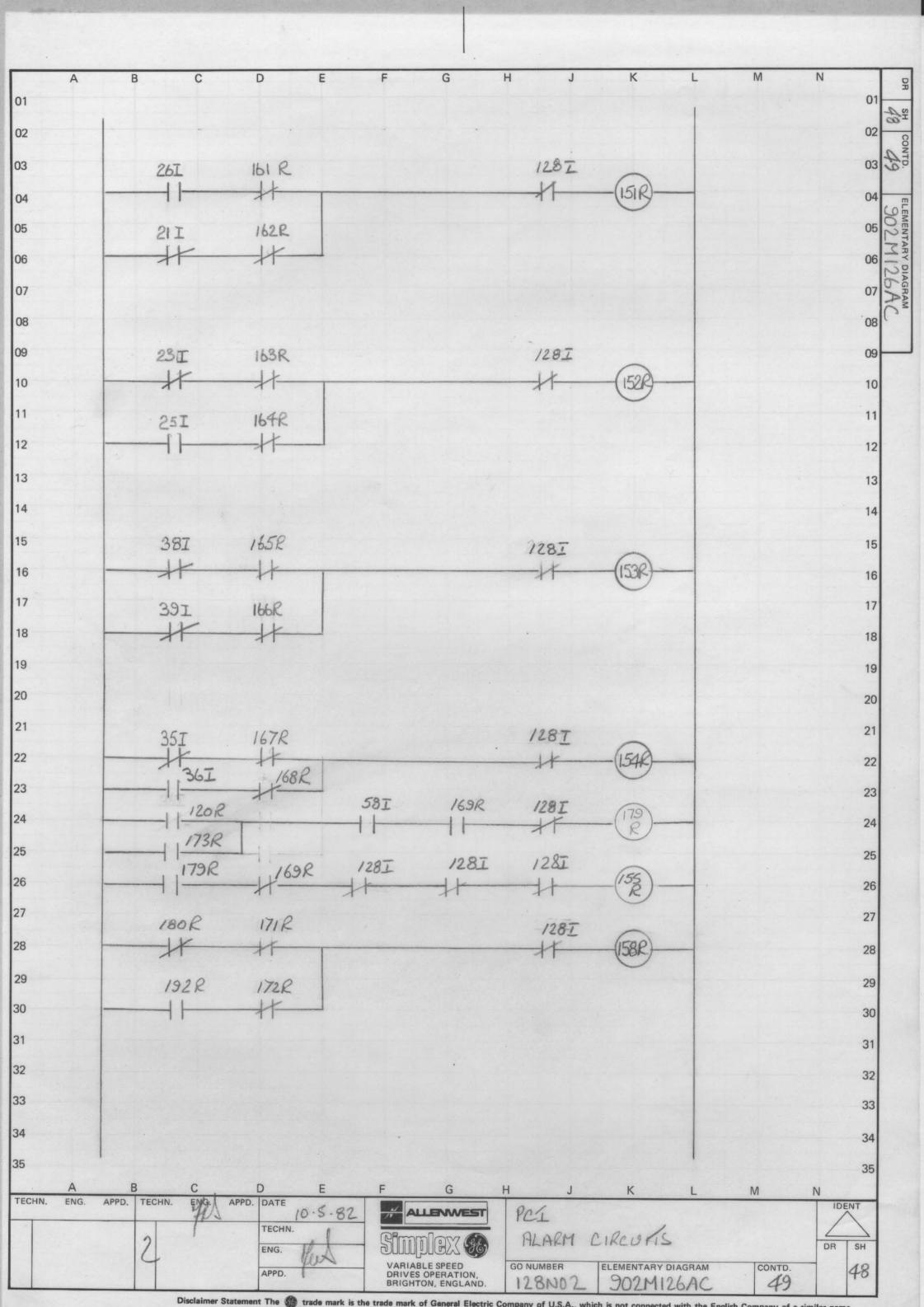


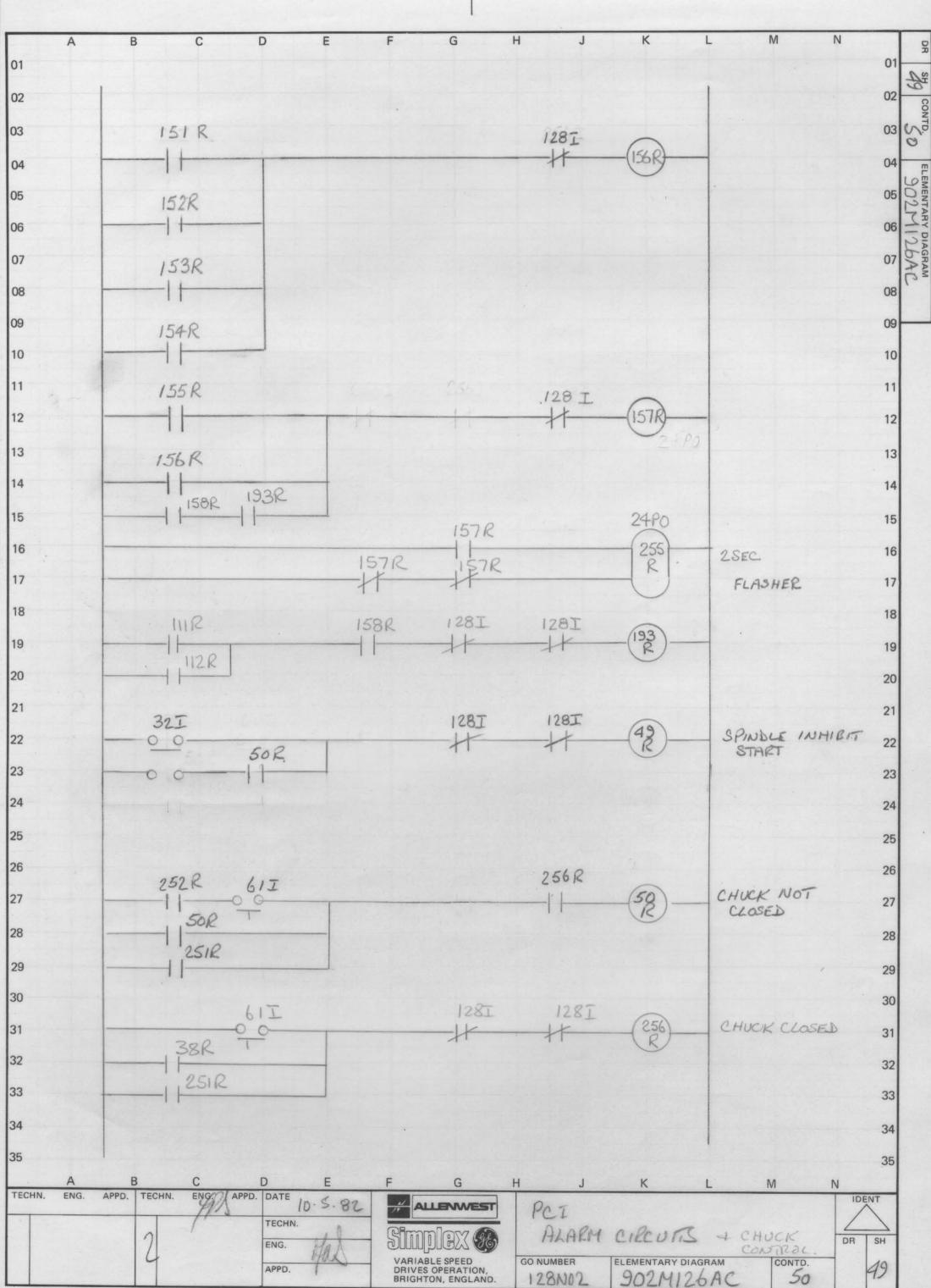


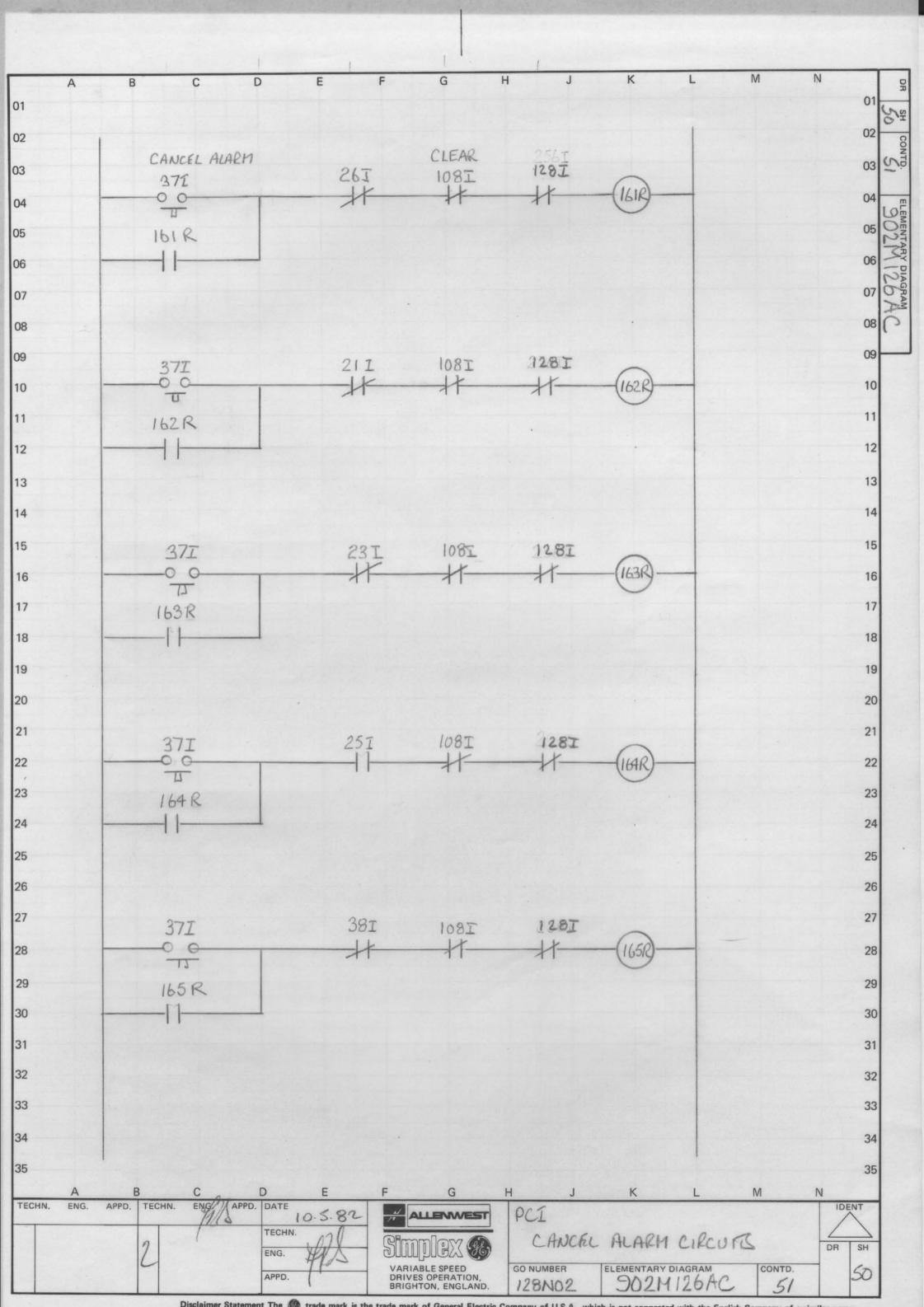


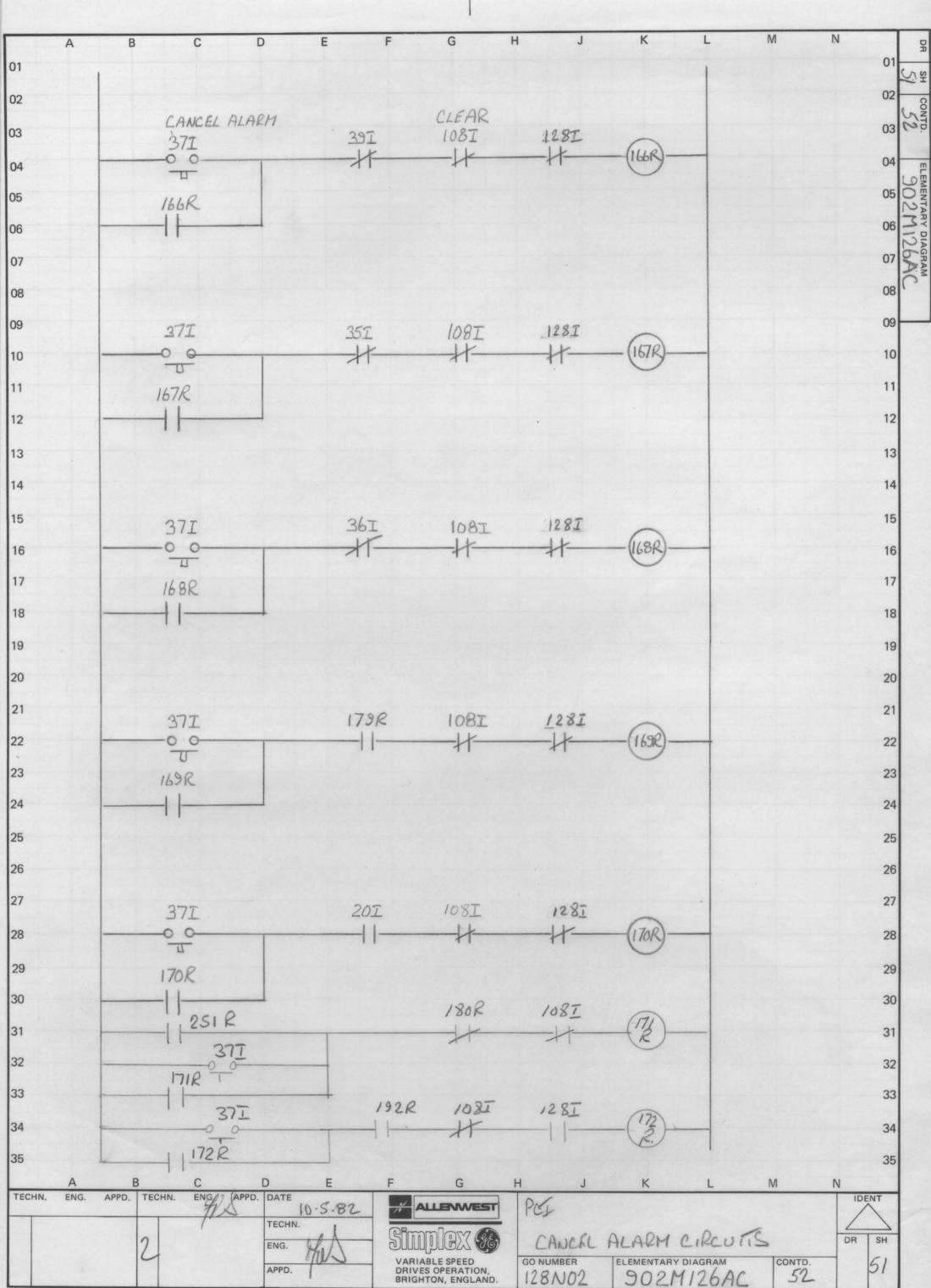


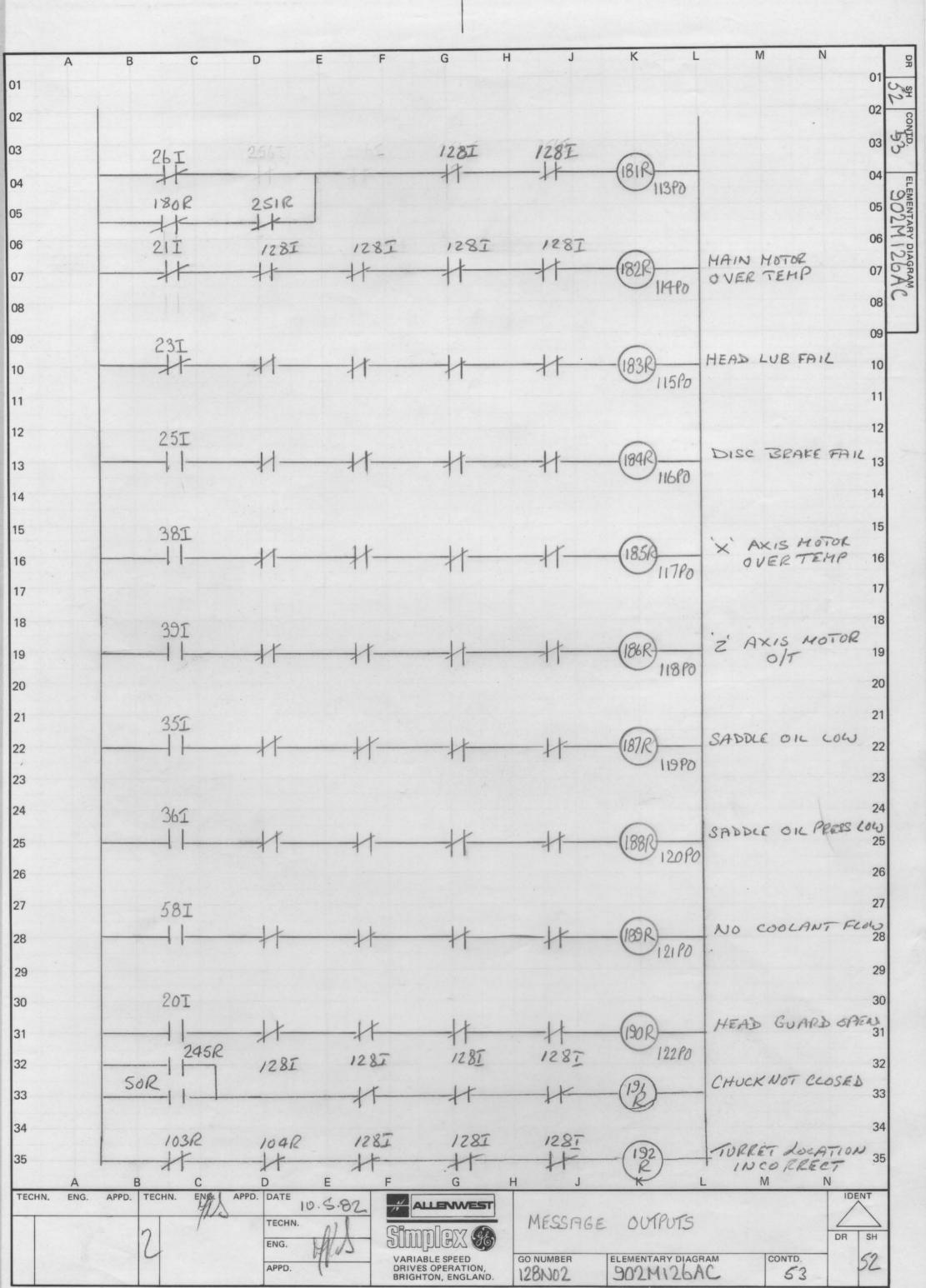


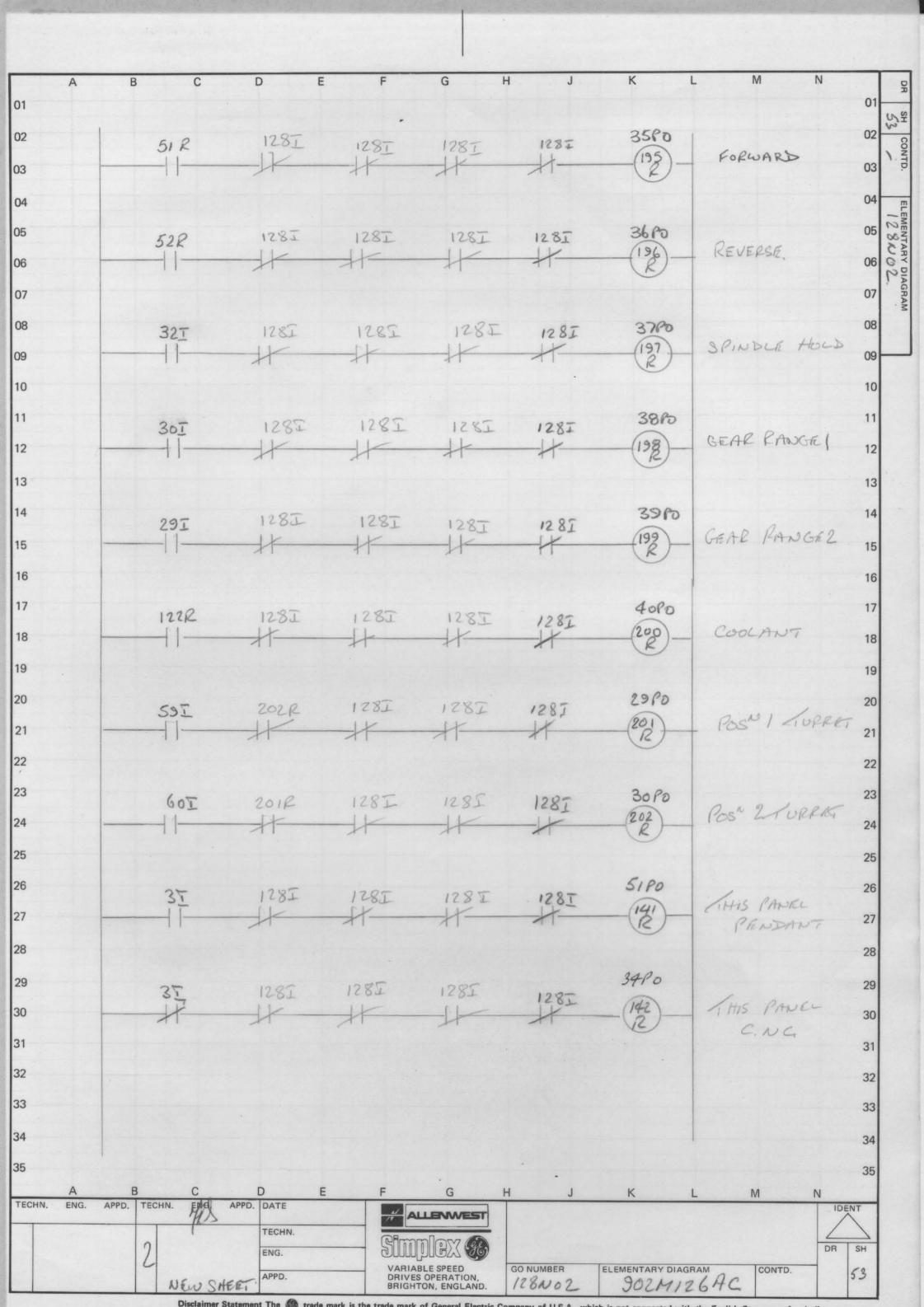










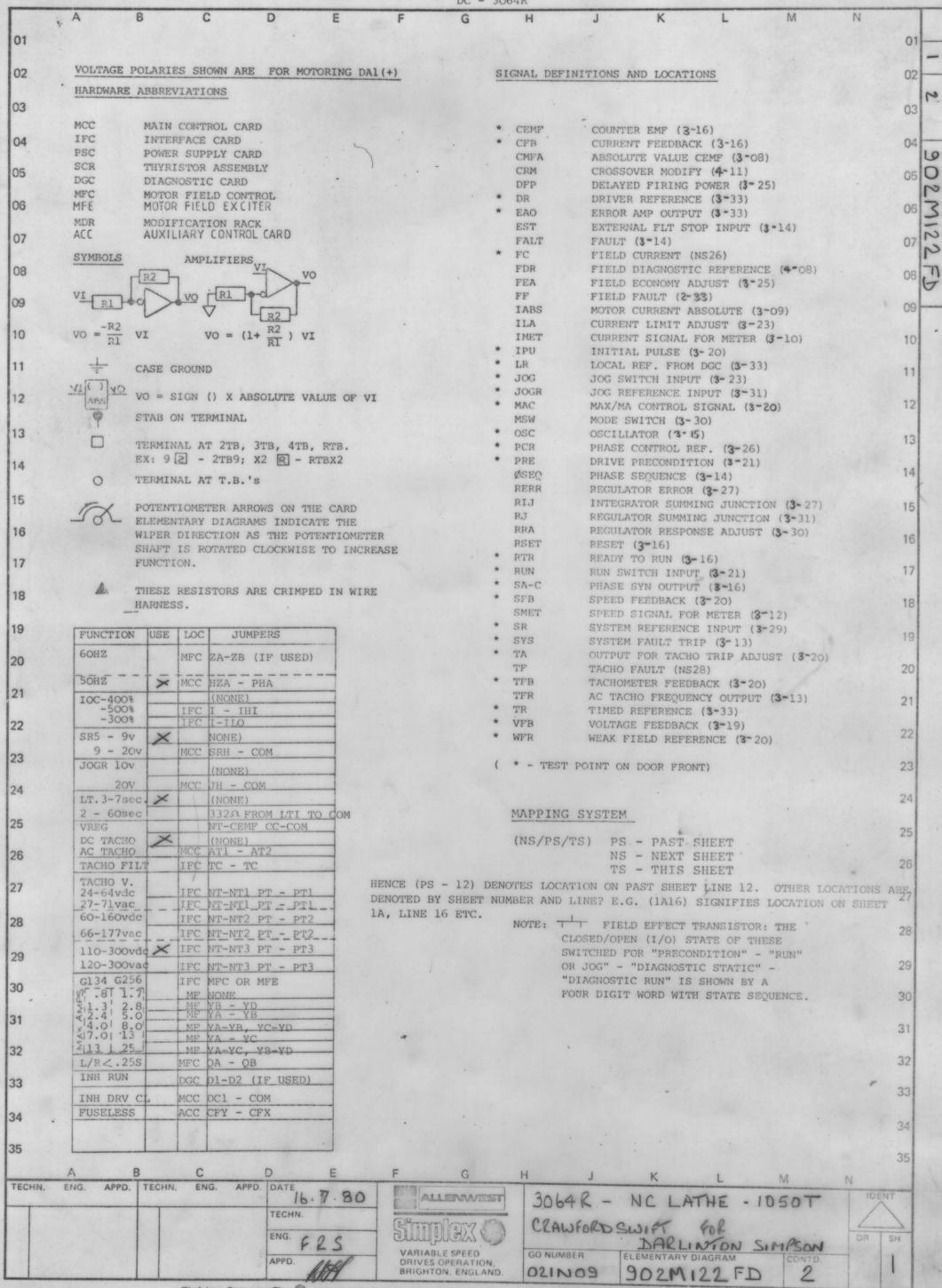


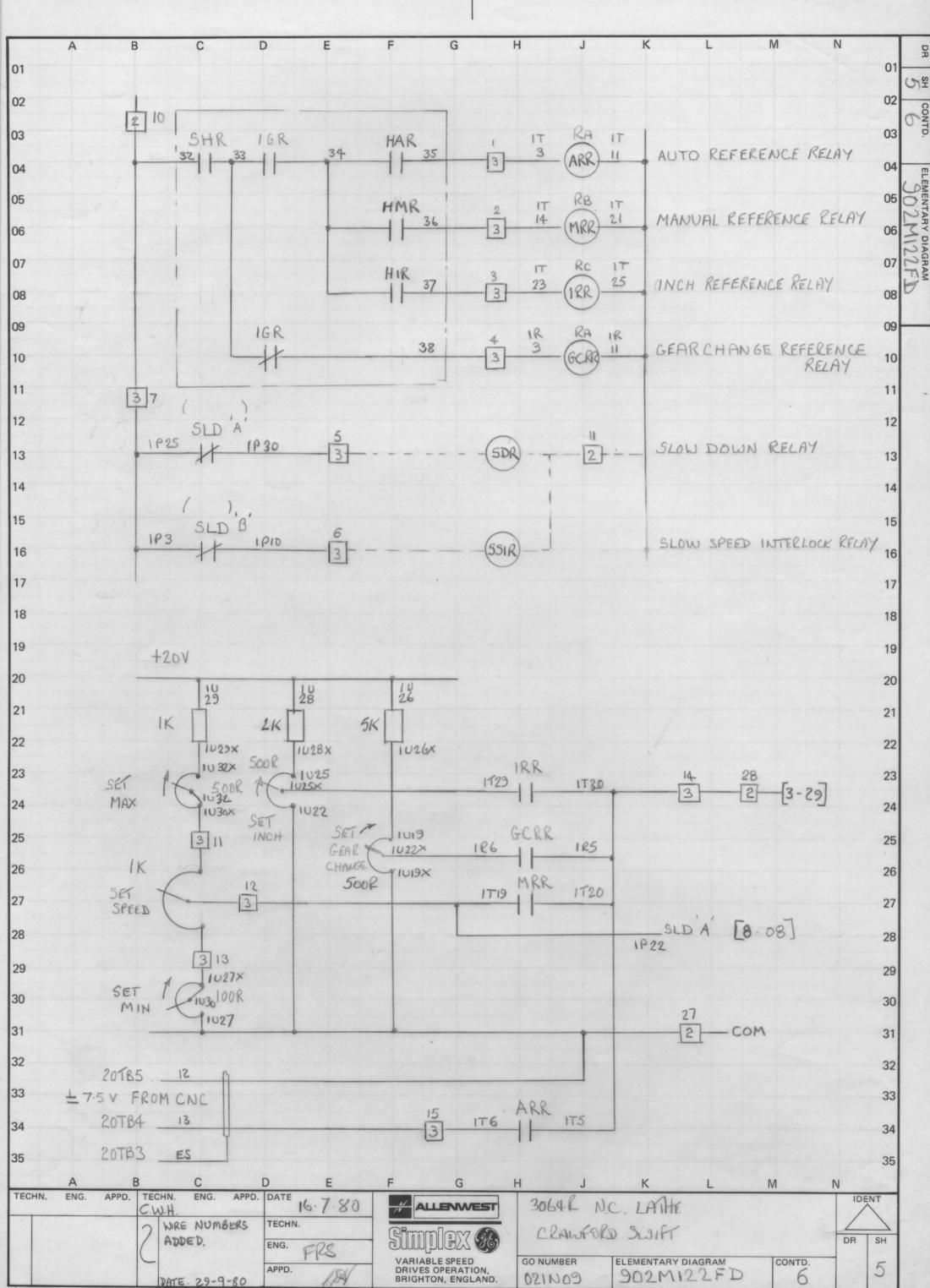
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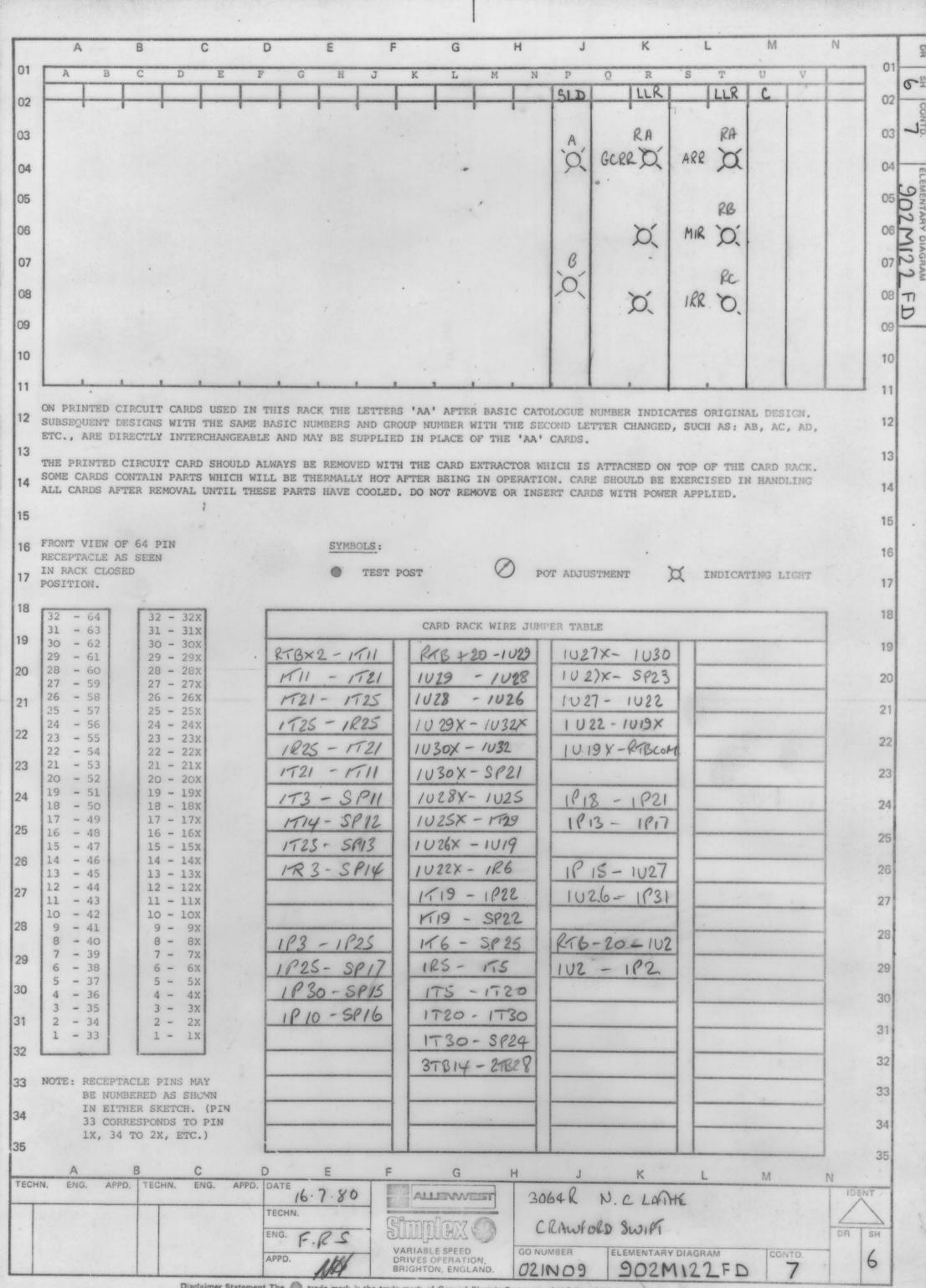
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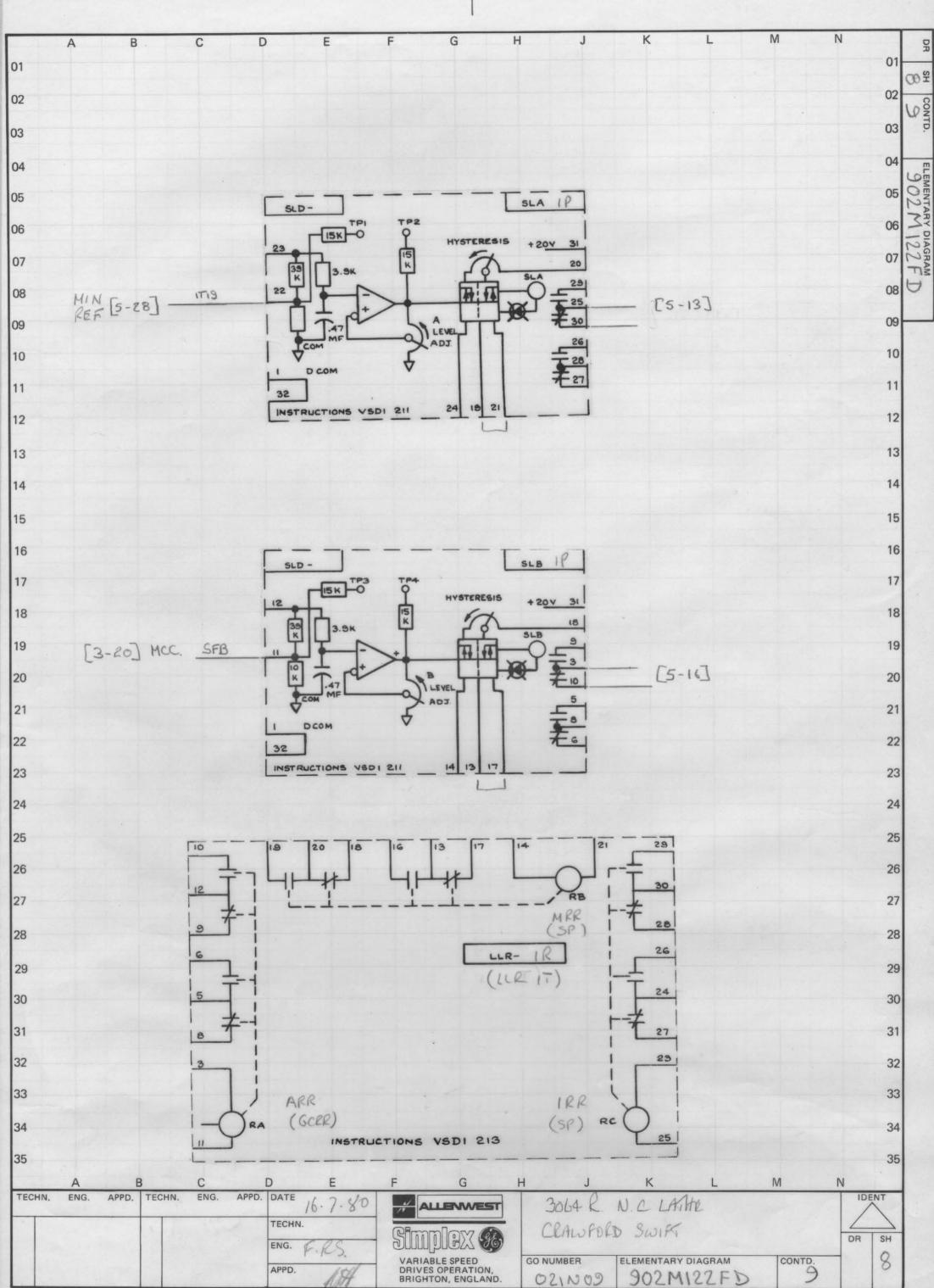
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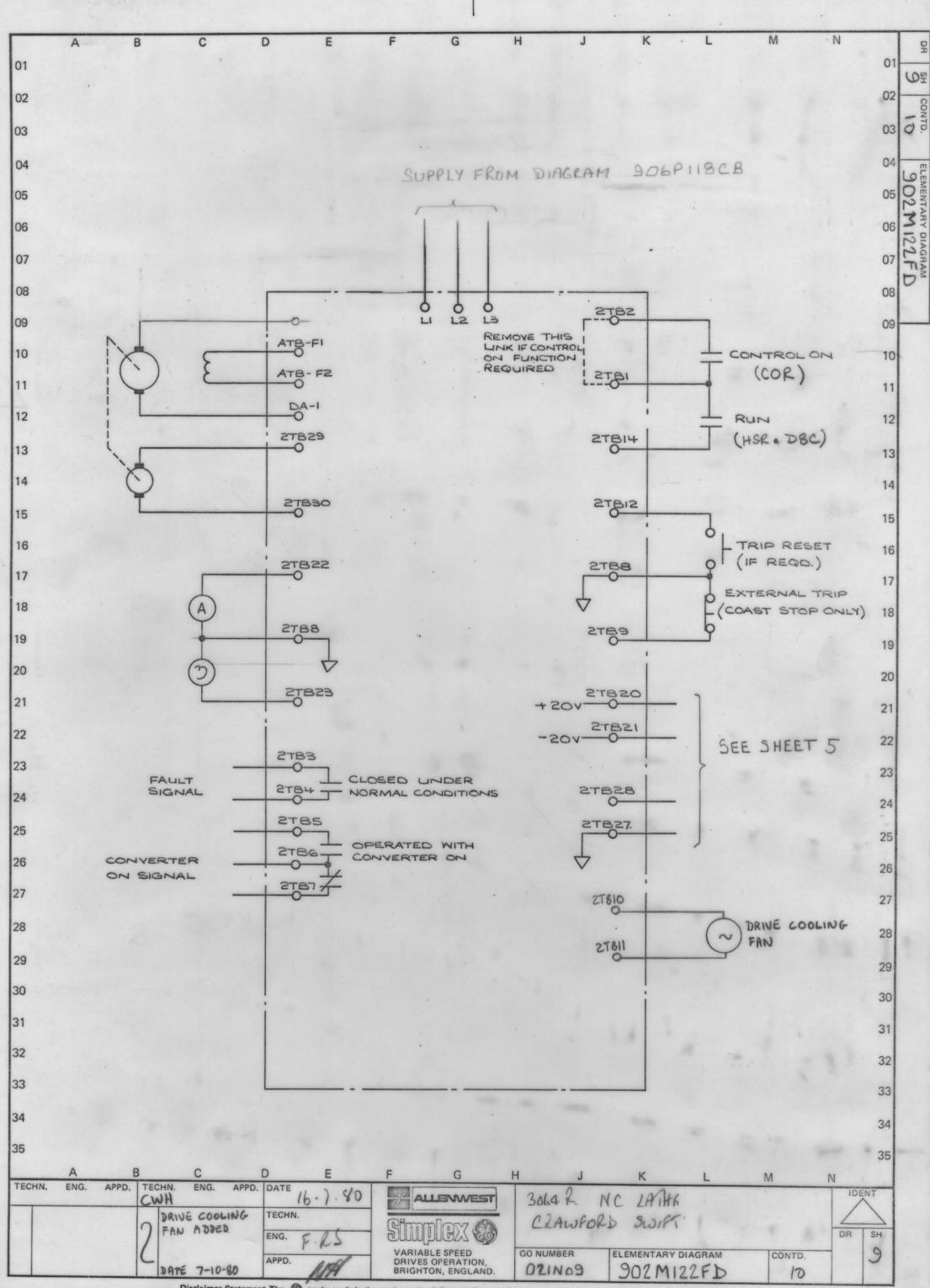
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