

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	TL	TACHO INDICATOR
FS	FUSE	TG	TACHO GENERATOR
PC 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

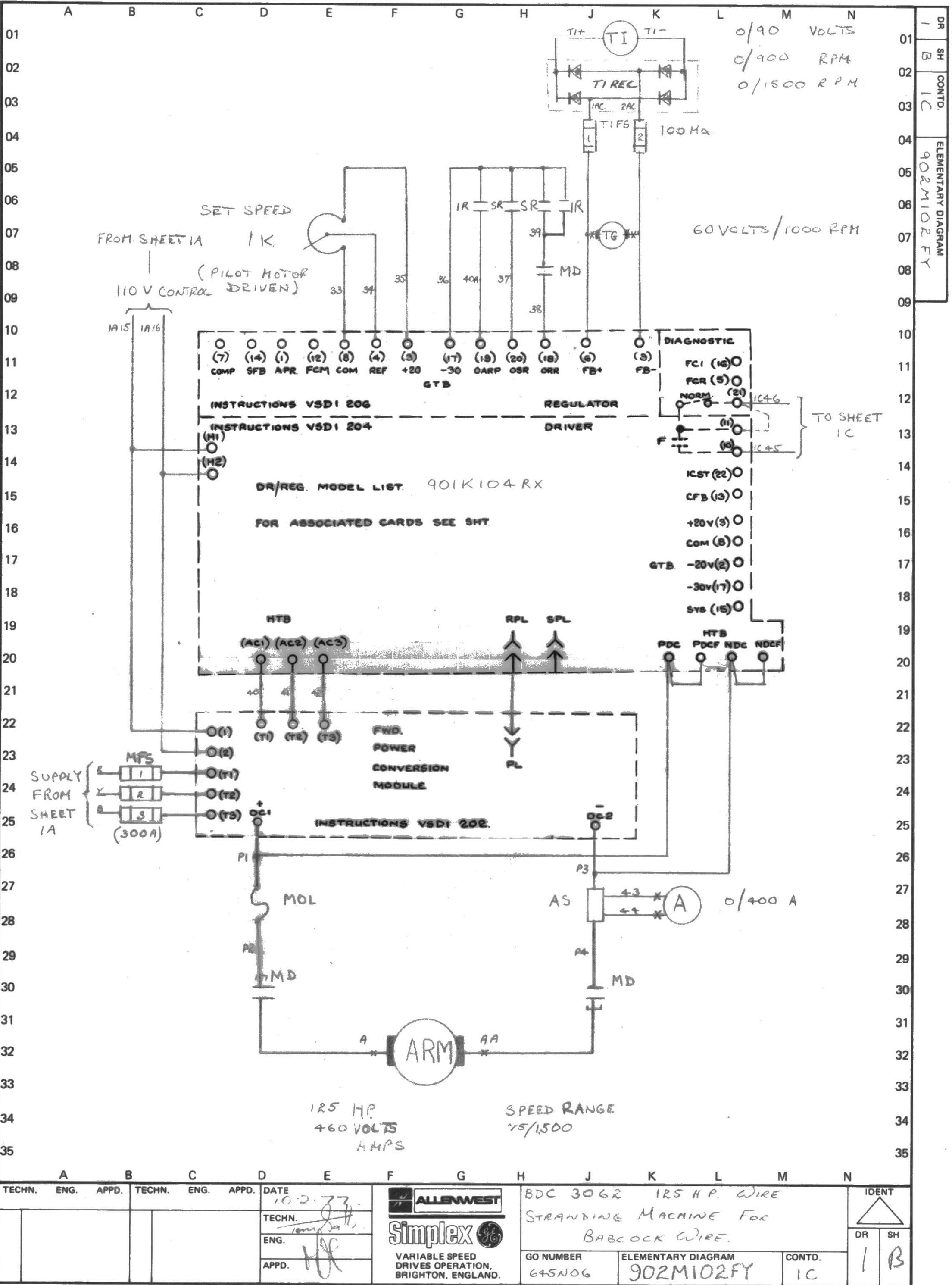
	- SCREENED LEADS
	- TWISTED LEADS
	- TERMINAL BOARD JUMPER
	- MOUNTED IN MOTOR
	- REMOTE MOUNTED DEVICE
	- DEVICES IN OPERATOR STATION

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)

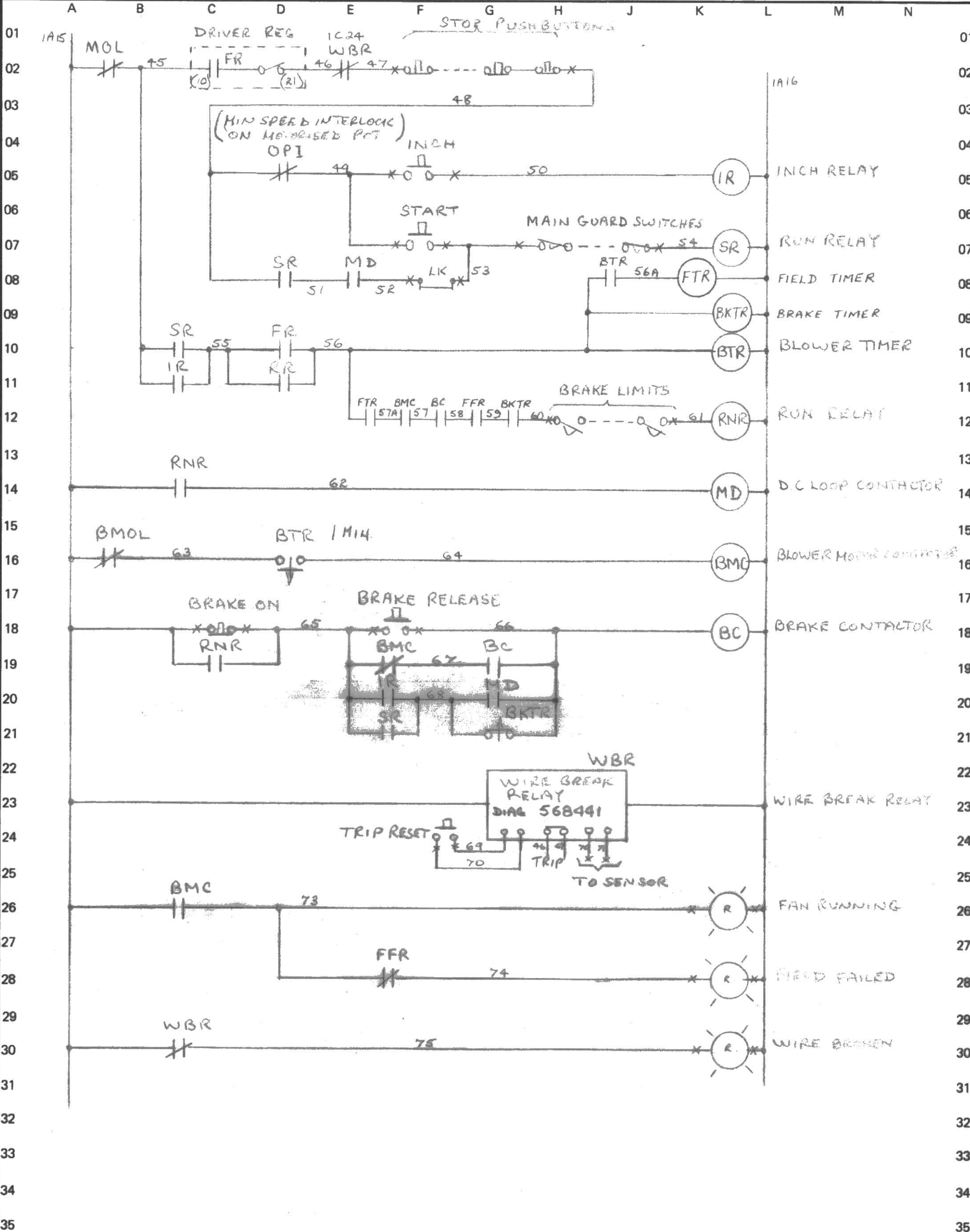
LINE FREQUENCY 60HZ 50HZ ☒	DRIVER CURRENT LIMIT NONE 0-75HP 75HP ☒	REGULATING LOOP VOLTAGE CURRENT DC TACH AC TACH ☒
SYSTEM REFERENCE 20V 10V 3V ☒	LINEAR TIMING 0 SEC 0.5-3SEC 3-30SEC 30- SEC ☒	TACHOMETER VOLTAGE 43-62 VDC, 26-48 VAC 60-115 VDC, 47-85VAC 100-200VDC, 82-152VAC 180-380VDC, 151-275VAC ☒
AUXILIARY PRESET REFERENCE NONE TIMED UNTIMED ☒	AUXILIARY PRESET REF DIRECTION FWD REV EXTERNAL ☒	REGULATOR COMPENSATION NONE LOAD ☒
SEE SYSTEM ELEMENTARY FOR ADDITIONAL REGULATOR CIRCUITRY ☒	RESPONSE NORMAL LOW ☒	CURRENT LIMIT 150% ☒
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 ☒
LOGIC RELAY CARD ☒		



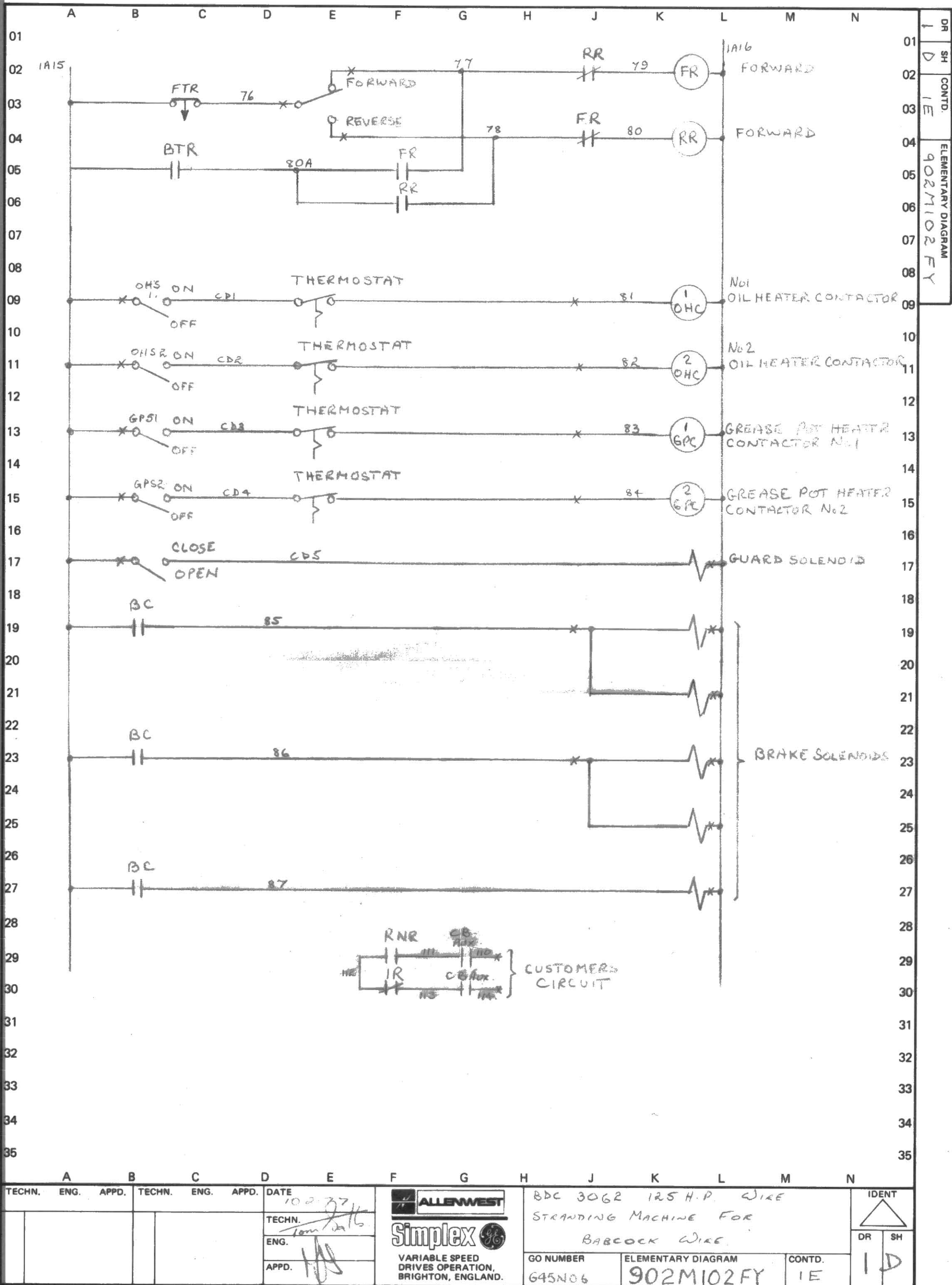
DR SH CONTD. ELEMENTARY DIAGRAM
1 B 1 C 902M102FY

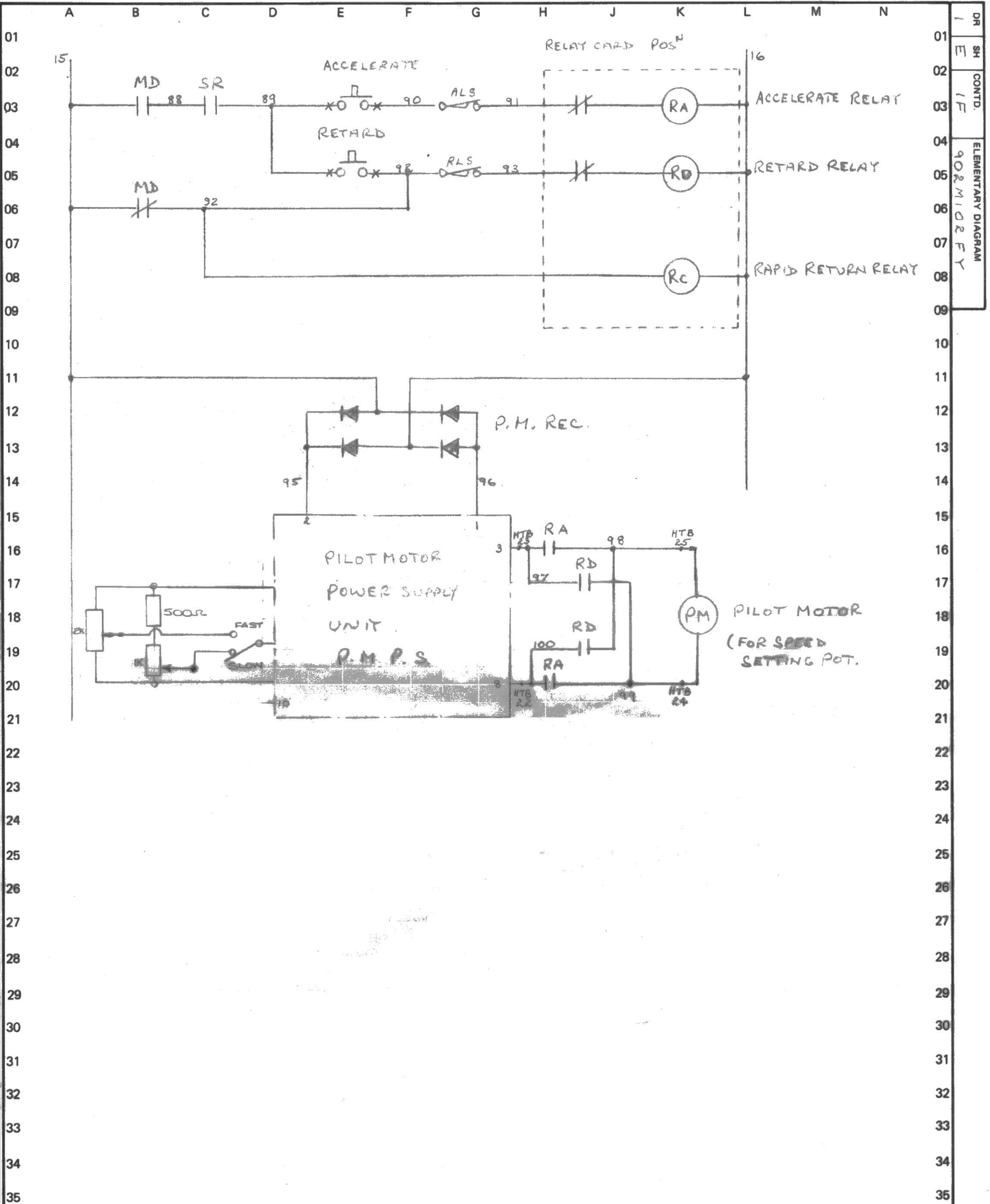
TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	TECHN.	ENG.	APPD.	GO NUMBER	ELEMENTARY DIAGRAM	CONTD.	IDENT
						10-2-77				645N06	902M102FY	1 C	1 B
							Simplex			BDC 3062 125 H.P. WIRE STRANDING MACHINE FOR BABCOCK WIRE.			
							VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.						

DR SH CONTD. ID ELEMENTARY DIAGRAM 902M102FY

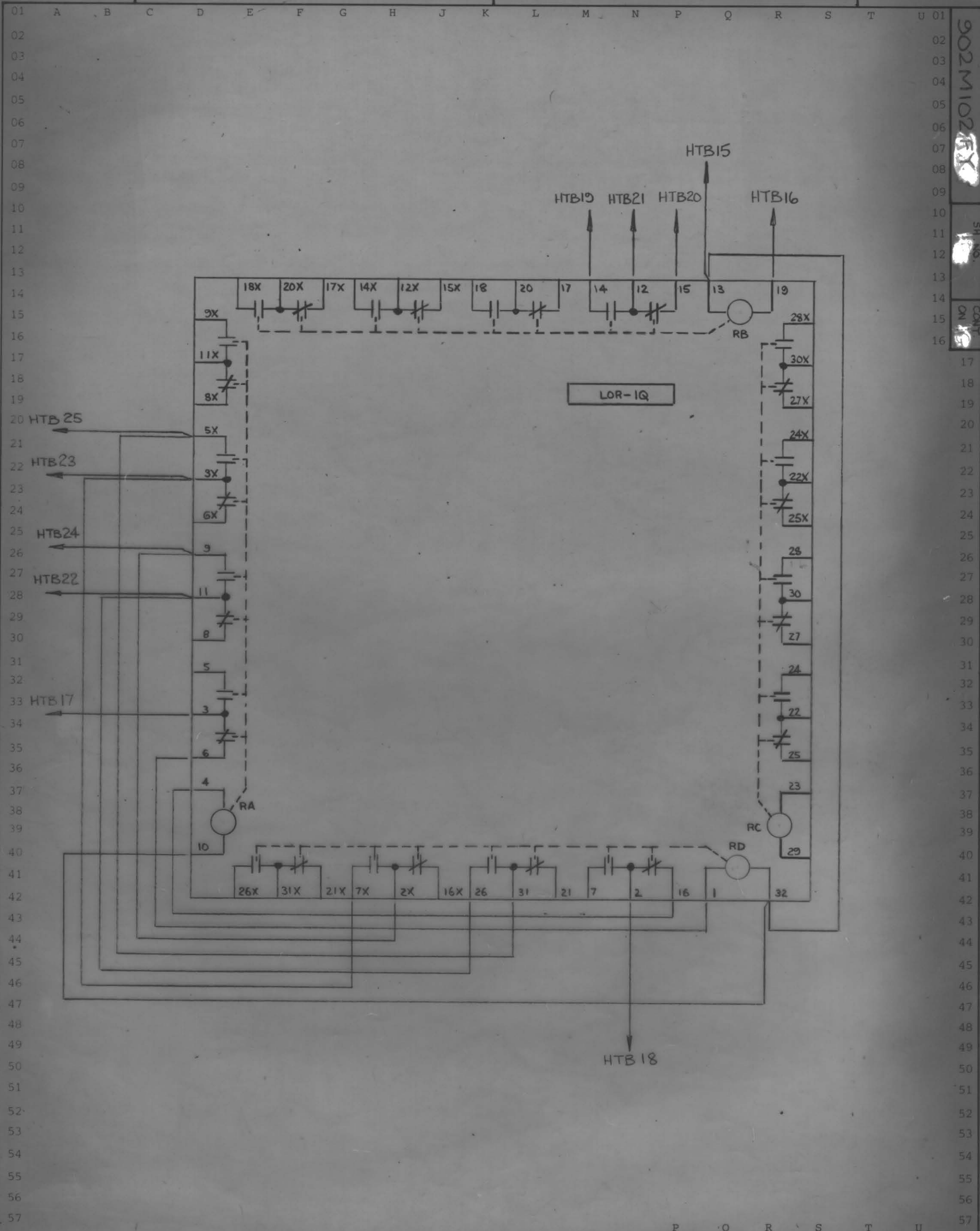


TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	 VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.			BDC 3062 125 H.P. WIRE STRANDING MACHINE FOR BABCOCK WIRE			IDENT DR SH 1 C	
						10-2-77				GO NUMBER	ELEMENTARY DIAGRAM	CONTD.		
										645N06	902M102FY	ID		





TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	BDC 3062 125 H P WIRE STRANDING MACHINE FOR BABCOCK WIRE.			IDENT	
						10.2.77				DR SH	
						TECHN.	Simplex			1 E	
						ENG.	VARIABLE SPEED DRIVES OPERATION. BRIGHTON, ENGLAND.				
						APPD.	GO NUMBER			ELEMENTARY DIAGRAM	
							645N06			902M102FY	
							CONTD.			1 F	



A B C D E F G H J K L M N										P	Q	R	S	T	U	
DATE 01/12/75										CONT ON SL 16		SH. NO. 115		ELEMENTARY DIAGRAM		
ISSUED DJW										BDC 3062		902M102FX				
APPD. 4/73										VARIABLE SPEED DRIVES OPERATION		AUXILIARY RELAY CONTROL				
FIRST MADE FOR 645V06										BRIGHTON, ENGLAND		BAABCOCK WIRE				

Front view
From plug side

ELEMENTARY DIAGRAM
 902M102FY
 R/REGULATOR LAYOUT
 125 H.P. WIRE
 MACHINE FOR
 OCK WIRE

[illegible]

32X--32
31X--31
30X--30
29X--29
28X--28
27X--27
26X--26
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24X--24
23X--23
22X--22
21X--21
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12X--12
11X--11
10X--10
9X--9
8X--8
7X--7
6X--6
5X--5
4X--4
3X--3
2X--2
1X--1

INDICATING LIGHT

