## 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.
INSTANTANEOUS OVER CURRENT RELAY UR
inch relay
INCH FORWARD RELAY
INCH REVERSE RELAY

## SYMBOLS

- SCREENED LEADS
- TWISTED LEADS
- TERMINAL BOARD JUMPER

| $M$ | - MOUNTED IN MOTOR |
| :--- | :--- |
| $R$ | - REMOTE MOUNTED DEVICE |
| RS | - DEVICES IN OPERATOR STATION |

LIMIT SWITCH
AC LINE CONTACTOR OR STARTER DC LOOP CONTACTOR MOTOR OPERATED RHEOSTAT MOTOR THERMAL SWITCH
OVERLOAD
POTENTIOMETER
PILOT LIGHT
PUSHBUTTON
REVERSE CONTACTOR OR RELAY
RESISTOR
COIL SUPPRESSION
(AMMETER) SHUNT
SBLBETOR SWITCH
TACH INDICATOR
TACH GENERATOR
TIMING RELAY
UNDERVOLTAGE RELAY
VOLTMETER
VOLTAGE SENSING RELAY

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 AA, RA, BA ETC.

## DRIVER/REGULATOR,OPERATING TABLE <br> (LIFT BLANK FOR MULTIPLE DRIVES )

LINE FREQUENCY

* 60 Hz 50 Hz

SYSTEM REFERENCE
$20 \mathrm{~V} \quad 10 \mathrm{~V} \sqrt{3 \mathrm{~V}}$

DRIVER CURRENT LIMIT
$\qquad$ LINEAR TIMING 0 SEC $0.5-3$ SEC 3-30SEC $\qquad$ 30- SEC
$\qquad$
AUXILIARY PRESET REF DIRECTION FWD REV EXTERNAL

REGULATING LOOP
VOLTAGE $\qquad$ DC TACH AC TACH $\qquad$
$\qquad$
TACHOMETER VOLTAGE
$43-62 \mathrm{VDC}, 26-48 \mathrm{VAC} \quad 60-115 \mathrm{VDC}, 47-85 \mathrm{VAC}$
$100-200 \mathrm{VDC}, 82-152 \mathrm{VAC} \quad 180-380 \mathrm{VDC}, 151-275 \mathrm{VAC}$

REGULATOR COMPENSATION RESPONSE CURRENT LIMIT NONE LOAD $\qquad$ NORMAL LOW $\qquad$
TOP SPEED/BASE SPEED
 .6-1.8 3.0-3.3 3.3-3.7

DRIVER/REGULATOR INCLUDES INSTRUMENT FUNCTION $\qquad$ DIAGNOSTIC FUNCTION N

SEEMAIN SCMEMATV SOGPIOGRA FOR FULL DETAIL OF AEAOSTDCK DRIVE.

* THEMACHINE WILL BE FOR GOHZ OPERATION BUT WILL BE

TESTED AT CUSTOMERS SITE OM SOHZ SEE DR/REG MOOELLIST
FOR LINKS ADJUSTMENT.


CONT. OH SH. NO.
ELEMENTARY DIAGRAM NOTES
BDC3OGER 100 HP. DRIVE
FOR NfC CONTROLEE LATHE







| 0 | BDC 3O64R |
| :--- | :--- | :--- |
| FOR 1O5OT |  |





















































ON 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: 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.

SYMBOLS:


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

TEST POSTPOT ADJUSTMENT
0 Indicating licit


|  | A | B |  | C |  | D E | F | G | H | J | K | L | M | N |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TECHN. | ENG. | APPD. | TECHN. | ENG. | APPD. | DATE 16.7 .80 |  | Auswnemt | $3064 R$ N.C LASTE |  |  |  |  |  |  |
|  |  |  |  |  |  | TECHN. | Stumplian <br> VARIABLE SPEED DRIVES OPERATION, BR:GHTON, ENGLAND. |  | CRAWFOLD SWIFT. |  |  |  |  |  |  |
|  |  |  |  |  |  | Eng. F.RS |  |  | DA | SH |
|  |  |  |  |  |  | APPD. |  |  |  |  |  | $\begin{array}{r} \text { ELEMEN } \\ 90 \end{array}$ | $2$ |  |


|  | A | B |  | C |  | D E | F | G | H | J | K | L | M | N |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TECHN. | ENG. | APPD. | TECHN. | ENG. | APPD. | DATE 16.7 .80 |  | Auswnemt | $3064 R$ N.C LASTE |  |  |  |  |  |  |
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|  |  |  |  |  |  | Eng. F.RS |  |  | DA | SH |
|  |  |  |  |  |  | APPD. |  |  |  |  |  | $\begin{array}{r} \text { ELEMEN } \\ 90 \end{array}$ | $2$ |  |



VARIABLE SPEED DRIVES OPERATION. BRIGHTON, ENGLAND.

3064 R N.C LANHE

GO NUMEER ELEMENTARY DIAGRAM

M

















