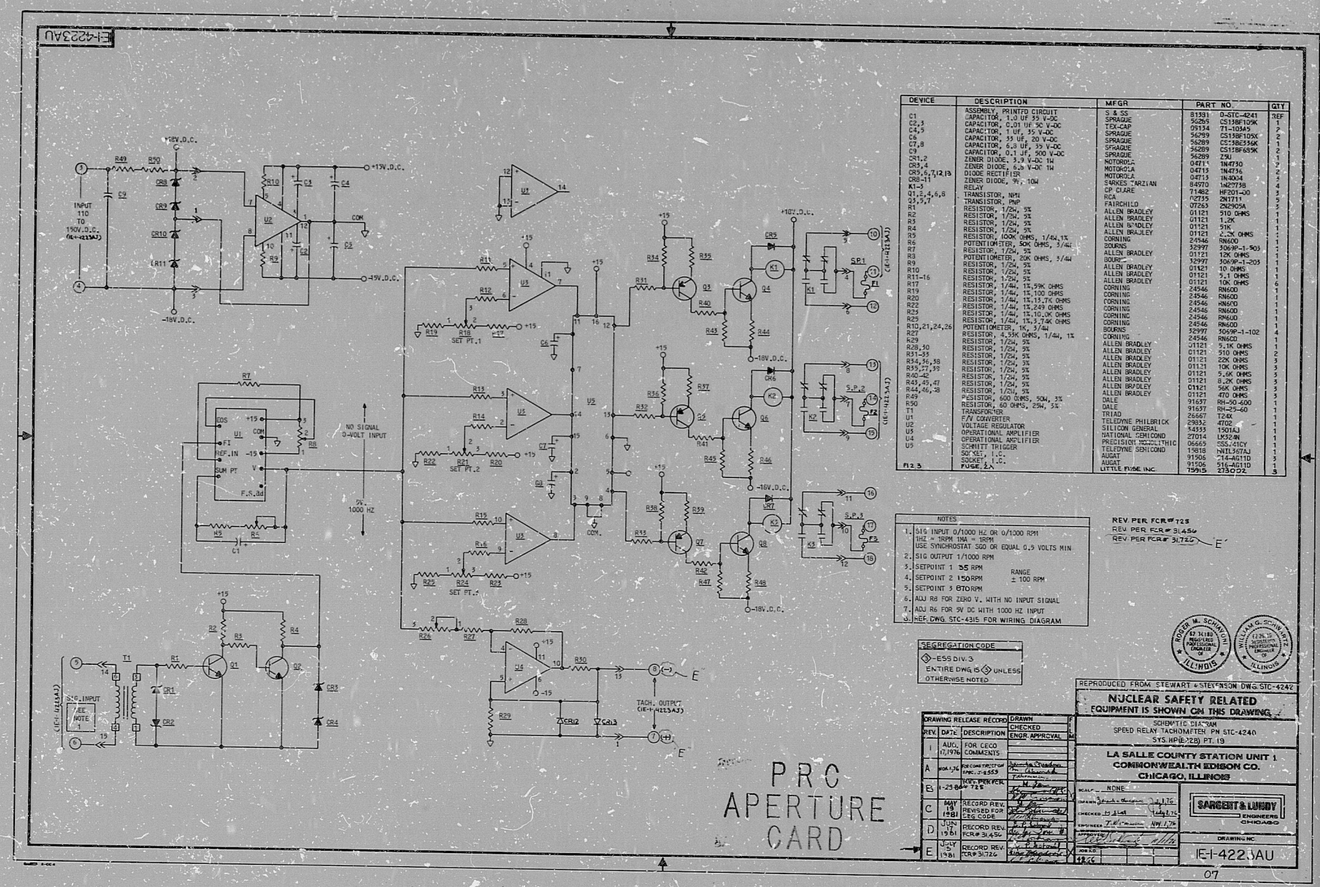



| DEVICE | DESCRIPTION | MFGR. | PART NO. | QTY |
|---|---|---|---|---|
| C1 | ASSEMBLY, PRINTED CIRCUIT | S & SS | 81331 0-STC-4241 | REF |
| C2,3 | CAPACITOR, 1.0 UF 35 V-DC | SPRAGUE | 56289 CS13BF105K | 1 |
| C4,5 | CAPACITOR, 1 UF, 35 V-DC | SPRAGUE | 35134 T1-10345 | 2 |
| C6 | CAPACITOR, 33 UF, 20 V-DC | SPRAGUE | 56289 CS13BF330G | 2 |
| C7,8 | CAPACITOR, 6.8 UF, 35 V-DC | SPRAGUE | 56289 CS13BC356K | 1 |
| C9 | CAPACITOR, 0.1 uf, 500 V-DC | SPRAGUE | 56289 CS11BF659K | 2 |
| CR1,2 | ZENER DIODE, 3.9 V-DC 1W | MOTOROLA | 56289 Z9J | 3 |
| CR3,4 | ZENER DIODE, 6.8 V-DC 1W | MOTOROLA | 04713 1N4750 | 2 |
| CR5,6,7,12,13 | DIODE RECTIFIER | MOTOROLA | 04713 1N4734 | 2 |
| CR8-11 | ZENER DIODE, 9V, 10W | MOTOROLA | 04713 1N4004 | 5 |
| K1-3 | RELAY | SWANES-MARIAN | 84970 142T738 | 4 |
| Q1,2,4,6,8 | TRANSISTOR, NPN | CP CLARE | 71462 HF201-00 | 5 |
| Q3,5,7 | TRANSISTOR, PNP | RCA | 02735 2N1711 | 3 |
| R1 | RESISTOR, 1/2W, 5% | FAIRCHILD | 07263 2N2905A | 1 |
| R2 | RESISTOR, 1/2W, 5% | ALLEN BRADLEY | 01121 510 OHMS | 1 |
| R3 | RESISTOR, 1/2W, 5% | ALLEN BRADLEY | 01121 1.0K | 1 |
| R4 | RESISTOR, 1/2W, 5% | ALLEN BRADLEY | 01121 51K | 1 |
| R5 | RESISTOR, 100K OHMS, 1/4W,1% | CORNING | 01121 4.7K OHMS | 1 |
| R6 | POTENTIOMETER, 50K OHMS, 3/4W | BOURNS | 24546 RN60D | 1 |
| R7 | RESISTOR, 1/2W, 5% | ALLEN BRADLEY | 32997 5041M-1-503 | 1 |
| R8 | POTENTIOMETER, 250K OHMS, 3/4W | BOURNS | 01121 10K OHMS | 1 |
| R9 | RESISTOR, 1/2W, 5% | ALLEN BRADLEY | 32997 5041M-1-203 | 1 |
| R10 | RESISTOR, 1/2W, 5% | ALLEN BRADLEY | 01121 10 OHMS | 1 |
| R11-16 | RESISTOR, 1/2W, 5% | ALLEN BRADLEY | 01121 5.1 OHMS | 6 |
| R17 | RESISTOR, 1/4W, 1%,49K OHMS | CORNING | 24546 RN60D | 1 |
| R19 | RESISTOR, 1/4W, 1%,100 OHMS | CORNING | 24546 RN60D | 1 |
| R20 | RESISTOR, 1/4W, 1%,13.7K OHMS | CORNING | 24546 RN60D | 1 |
| R22 | RESISTOR, 1/4W, 1%,249 OHMS | CORNING | 24546 RN60D | 1 |
| R23 | RESISTOR, 1/4W, 1%,10.0K OHMS | CORNING | 24546 RN60D | 1 |
| R25 | RESISTOR, 1/4W, 1%,3.9K OHMS | CORNING | 24546 RN60D | 1 |
| R10,21,24,26 | POTENTIOMETER, 1K, 3/4W | BOURNS | 32997 5041M-1-102 | 1 |
| R27 | RESISTOR, 4.53K OHMS, 1/4W, 1% | CORNING | 24546 RN60D | 1 |
| R29 | RESISTOR, 1/2W, 5% | ALLEN BRADLEY | 01121 5.1K OHMS | 1 |
| R28,30 | RESISTOR, 1/2W, 5% | ALLEN BRADLEY | 01121 510 OHMS | 2 |
| R31-33 | RESISTOR, 1/2W, 5% | ALLEN BRADLEY | 01121 22K OHMS | 3 |
| R34,36,38 | RESISTOR, 1/2W, 5% | ALLEN BRADLEY | 01121 10K OHMS | 3 |
| R35,37,39 | RESISTOR, 1/2W, 5% | ALLEN BRADLEY | 01121 5.6K OHMS | 3 |
| R40-42 | RESISTOR, 1/2W, 5% | ALLEN BRADLEY | 01121 8.2K OHMS | 3 |
| R43,45,47 | RESISTOR, 1/2W, 5% | ALLEN BRADLEY | 01121 56K OHMS | 3 |
| R44,46,48 | RESISTOR, 1/2W, 5% | ALLEN BRADLEY | 01121 470 OHMS | 3 |
| R49 | RESISTOR, 600 OHMS, 50W, 3% | DALE | 91697 RH-50-600 | 1 |
| R50 | RESISTOR, 60 OHMS, 25W, 3% | DALE | 91697 RH-25-60 | 1 |
| T1 | TRANSFORMER | TRIAD | 26667 T24X | 1 |
| U1 | F/V CONVERTER | TELEDYNE PHILBRICK | 29832 4702 | 1 |
| U2 | VOLTAGE REGULATOR | SILICON GENERAL | 14933 15014J | 1 |
| U3 | OPERATIONAL AMPLIFIER | NATIONAL SEMICOND | 27014 LM324N | 1 |
| U4 | OPERATIONAL AMPLIFIER | PRECISION MONOLITHIC | 06663 OP-41CY | 1 |
| U5 | SCHMITT TRIGGER | TELEDYNE SEMICOND | 19818 HA13637AJ | 1 |
| | 50" SET, I.C. | AMP | 91506 214-40110 | 3 |
| | DIODE, I.C. | AMP | 91506 516-40110 | 3 |
| F2,3 | FUSE, 2A | LITTLE FUSE INC. | 19905 273002 | 2 |

NOTES

1. SIG INPUT 0/1000 HZ OR 0/1000 RPM
   1HZ = 1RPM.1MA = 1RPM
   USE SYNCHROSTAT 500 OR EQUAL 0.5 VOLTS MIN
2. SIG OUTPUT 1/1000 RPM
3. SETPOINT 1 35 RPM
4. SETPOINT 2 150RPM — RANGE ± 100 RPM
5. SETPOINT 3 670RPM
6. ADJ R6 FOR 2500 V. WITH NO INPUT SIGNAL
7. ADJ R6 FOR 9V DC WITH 1000 HZ INPUT
8. REF. DWG. STC-4315 FOR WIRING DIAGRAM

SEGREGATION CODE

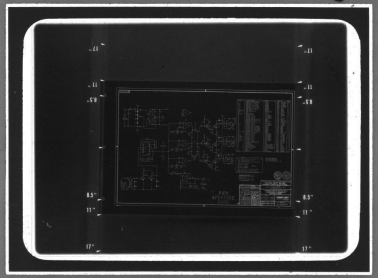
◇-E59 DIV.3
ENTIRE DWG IS ◇ UNLESS OTHERWISE NOTED

| DRAWING RELEASE RECORD | | | DRAWN | |
|---|---|---|---|---|
| REV. | DATE | DESCRIPTION | CHECKED | |
| | | | ENGR. APPROVAL | |
| I | AUG. 11/79 | FOR CECO COMMENTS | | |
| A | MAR 1/80 | RECOMPUTED PER FCR# 2653 | | |
| E1 | 6-25-80 | REV. PER FCR# 725 | | |
| C | MAY 15 1981 | RECORD REV. REVISED FOR CEG CODE | | |
| D | SEP 1 1981 | RECORD REV. FCR# 3145 | | |
| E | JULY 1981 | RECORD REV. FCR# 3726 | | |

SCALE: NONE
DRAWN: 11/15
CHECKED: 11/15
APPROVED: 11/15
DRAWING NO. IE-1-422.5AU

RIDS

8308260299



MMM 5824 — FILMSORT® Brand Aperture & Camera Cards and DUPLICARD® Brand Copy Cards — Product of 3M Company, St. Paul, Minn.