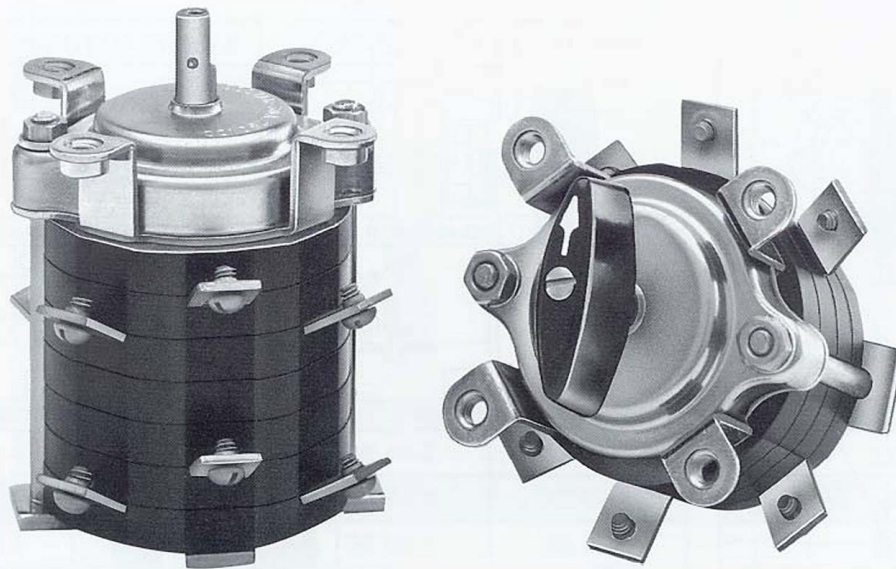


# SNAP-ACTION POWER SWITCHES

- 30 AMPERES MAX., 600 VAC
- CLOSED CONSTRUCTION
- SNAP ACTION
- MULTIPLE POLES
- 1, 2, 3 AND 4-WAY CIRCUITS
- SCREW TERMINATIONS

**STANDARD AND CUSTOM ASSEMBLIES FOR  
INDUSTRIAL CONTROL APPLICATIONS**



**Spectrum Industries**

461 Boston Street - Unit E6, Topsfield, MA 01983 | (978) 887-2020



## Spectrum Industries

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### SNAP-ACTION ROTARY SWITCH, 30 AMPERE

#### General:

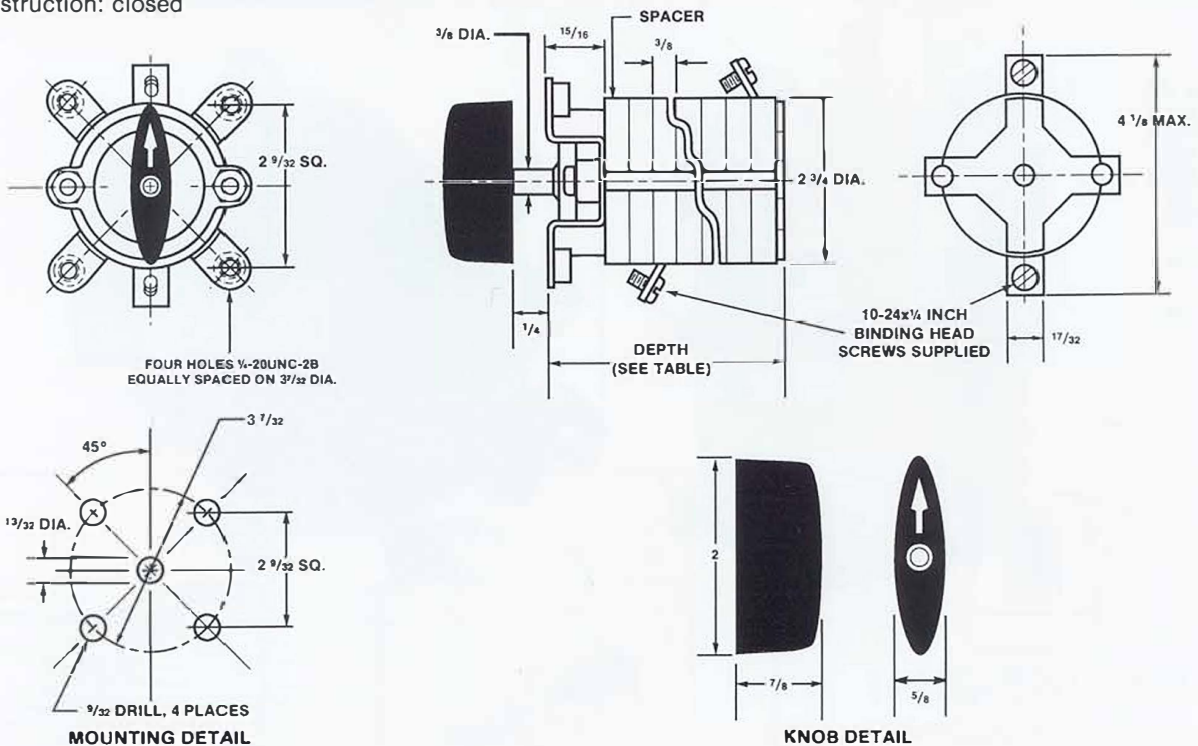
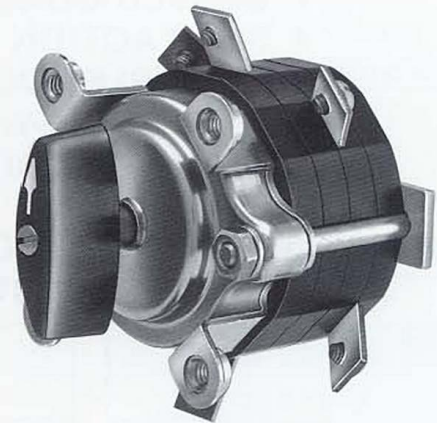
Meets requirements for 10 to 30 ampere switching of resistive loads to .75 power factor at voltages to 480V AC and 250V DC resistive loads.

#### Electrical:

- Voltages: 480V AC, 250V DC
- Current carrying capacity: 45 amperes
- Current switching capacity: Up to 30 amperes
- Dielectric withstanding voltage: 2500V rms, initial
- Contact resistance: 10 milliohms maximum, (4 milliohms average initially)
- Insulation resistance: 1000 megohms, initial

#### Mechanical:

- Poles: 1 to 12, depending on circuit
- Positions: 2, 3, or 4
- Contacts: BBM (break-before-make, non-shorting) or MBB (make-before-break, shorting)
- Indexing: 90° snap-action, less than 15 millisecond transit time
- Rotational life, mechanical: 30,000 operations
- Rotational torque: 9-18 pound inches depending on poles and circuit
- Terminals: screw type lug, hardware supplied
- Construction: closed



#### Materials and Finishes:

- Stators: thermoset plastic, UL 94V0
- Rotor contacts: phosphor bronze, dual wiping
- Stationary contacts: copper with integral screw terminal
- Exterior metal: steel, zinc plated with chromate
- Terminal hardware: unplated brass pan head screw
- Knob: black thermoset plastic bar type with pointer

#### Approximate Weights

Single pole and section: 1.1 pounds  
Additional section: .25 pound

- Mounting hardware: supplied, 4 each 3/4" long truss head screws
- Knob: supplied with hardware

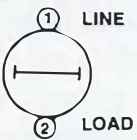


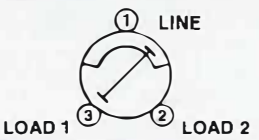
# Spectrum Industries

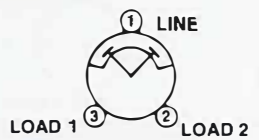
461 Boston Street - Unit E6, Topsfield, MA 01983 | (978) 887-2020

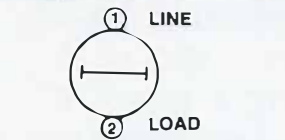
## SNAP-ACTION ROTARY SWITCH, 30 AMPERE

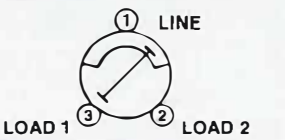
CIRCUIT DIAGRAMS (SINGLE POLE SWITCHES SHOWN, SHAFT END)

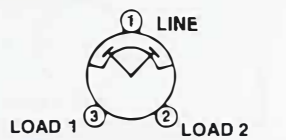
|             |                                                                                   |                                                                                   |                                                                                   |  |
|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|
| DESCRIPTION | CKT.A                                                                             | SINGLE THROW                                                                      |                                                                                   |  |
|             |  |                                                                                   |                                                                                   |  |
|             | NUMBER OF POSITIONS                                                               |                                                                                   |                                                                                   |  |
|             |  |  |  |  |
| POLES       | PART NUMBER                                                                       |                                                                                   |                                                                                   |  |
| 1           | 3A 01-4                                                                           | 3A 01-2                                                                           | 3A 01-2A                                                                          |  |
| 2           | 3A 02-4                                                                           | 3A 02-2                                                                           | 3A 02-2A                                                                          |  |
| 3           | 3A 03-4                                                                           | 3A 03-2                                                                           | 3A 03-2A                                                                          |  |
| 4           | 3A 04-4                                                                           | 3A 04-2                                                                           | 3A 04-2A                                                                          |  |

|                                                                                   |                                                                                   |                                                                                    |  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--|
| CKT.B                                                                             | DOUBLE THROW                                                                      |                                                                                    |  |
|  |                                                                                   |                                                                                    |  |
| NUMBER OF POSITIONS                                                               |                                                                                   |                                                                                    |  |
|  |  |  |  |
| PART NUMBER                                                                       |                                                                                   |                                                                                    |  |
| 3B 01-4                                                                           | 3B 01-2                                                                           | 3B 01-2A                                                                           |  |
| 3B 02-4                                                                           | 3B 02-2                                                                           | 3B 02-2A                                                                           |  |
| 3B 03-4                                                                           | 3B 03-2                                                                           | 3B 03-2A                                                                           |  |
| 3B 04-4                                                                           | 3B 04-2                                                                           | 3B 04-2A                                                                           |  |

|                                                                                     |              |  |  |
|-------------------------------------------------------------------------------------|--------------|--|--|
| CKT.C                                                                               | DOUBLE THROW |  |  |
|  |              |  |  |
| NUMBER OF POSITIONS                                                                 |              |  |  |
|  |              |  |  |
| PART NUMBER                                                                         |              |  |  |
| 3C 01-3                                                                             |              |  |  |
| 3C 02-3                                                                             |              |  |  |
| 3C 03-3                                                                             |              |  |  |
| 3C 04-3                                                                             |              |  |  |

|             |                                                                                     |                                                                                     |  |
|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
| DESCRIPTION | CKT.D                                                                               | DOUBLE THROW                                                                        |  |
|             |    |                                                                                     |  |
|             | NUMBER OF POSITIONS                                                                 |                                                                                     |  |
|             |  |  |  |
| POLES       | PART NUMBER                                                                         |                                                                                     |  |
| 1           | 3D 01-4                                                                             | 3D 01-3                                                                             |  |
| 2           | 3D 02-4                                                                             | 3D 02-3                                                                             |  |
| 3           | 3D 03-4                                                                             | 3D 03-3                                                                             |  |
| 4           | 3D 04-4                                                                             | 3D 04-3                                                                             |  |

|                                                                                     |                                                                                     |  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
| CKT.E                                                                               | TRIPLE THROW                                                                        |  |
|   |                                                                                     |  |
| NUMBER OF POSITIONS                                                                 |                                                                                     |  |
|  |  |  |
| PART NUMBER                                                                         |                                                                                     |  |
| 3E 01-4                                                                             | 3E 01-3                                                                             |  |
| 3E 02-4                                                                             | 3E 02-3                                                                             |  |
| 3E 03-4                                                                             | 3E 03-3                                                                             |  |
| 3E 04-4                                                                             | 3E 04-3                                                                             |  |

|                                                                                       |            |  |  |
|---------------------------------------------------------------------------------------|------------|--|--|
| CKT.F                                                                                 | FOUR THROW |  |  |
|    |            |  |  |
| NUMBER OF POSITIONS                                                                   |            |  |  |
|  |            |  |  |
| PART NUMBER                                                                           |            |  |  |
| 3F 01-4                                                                               |            |  |  |
| 3F 02-4                                                                               |            |  |  |
| 3F 03-4                                                                               |            |  |  |
| 3F 04-4                                                                               |            |  |  |

### PART NUMBER CODE

| SERIES | POLES | POSITIONS |
|--------|-------|-----------|
| 3      | D 03  | — 4       |

### CIRCUIT

EXAMPLE: SERIES 3, CIRCUIT D, 3 POLES,  
4 POSITIONS  
(MAXIMUM POLES: 8)

| POLES | DEPTH (INCHES)<br>CKT. ABC/DEF | TORQUE (LB.-IN.)<br>CKT. ABC/DEF | WEIGHT (LBS.)<br>CKT. ABC/DEF |
|-------|--------------------------------|----------------------------------|-------------------------------|
| 1     | 1.88/2.25                      | 9                                | 1.0/1.2                       |
| 2     | 2.25/3.00                      | 9                                | 1.2/1.6                       |
| 3     | 2.63/3.75                      | 9                                | 1.4/2.0                       |
| 4     | 3.00/4.50                      | 9                                | 1.6/2.4                       |

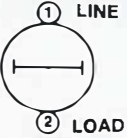
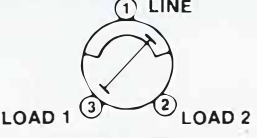
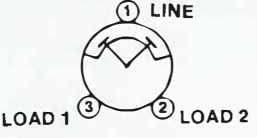
(CONSULT FACTORY FOR > 4 POLES)



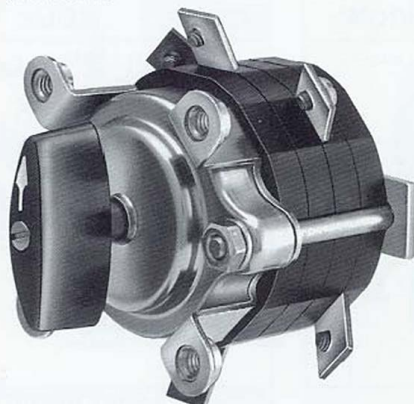
## Spectrum Industries

461 Boston Street - Unit E6, Topsfield, MA 01983 | (978) 887-2020

### SPRING-RETURN ROTARY SWITCH, 30 AMPERE

| DESCRIPTION | CKT.A                                                                             | SINGLE THROW | CKT.B                                                                             | DOUBLE THROW | CKT.C                                                                               | DOUBLE THROW |
|-------------|-----------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--------------|
|             |  |              |  |              |  |              |
|             | NUMBER OF POSITIONS                                                               |              | NUMBER OF POSITIONS                                                               |              | NUMBER OF POSITIONS                                                                 |              |
|             |  |              |  |              |  |              |
| POLES       | PART NUMBER                                                                       |              | PART NUMBER                                                                       |              | PART NUMBER                                                                         |              |
| 1           | 3A 01-2 SR                                                                        |              | 3B 01-2 SR                                                                        |              | 3C 01-3 SR                                                                          |              |
| 2           | 3A 02-2 SR                                                                        |              | 3B 02-2 SR                                                                        |              | 3C 02-3 SR                                                                          |              |
| 3           | 3A 03-2 SR                                                                        |              | 3B 03-2 SR                                                                        |              | 3C 03-3 SR                                                                          |              |
| 4           | 3A 04-2 SR                                                                        |              | 3B 04-2 SR                                                                        |              | 3C 04-3 SR                                                                          |              |

**NOTE:** SPRING-RETURN SWITCHES ARE DIRECT DRIVE, SPEED OF BLADE ROTATION IS OPERATOR DEPENDENT.



| POLES | DEPTH<br>(INCHES) | TORQUE<br>(LB.-IN.) | WEIGHT<br>(LBS.) |
|-------|-------------------|---------------------|------------------|
|       | CKT.<br>ABC       | CKT.<br>A/BC        | CKT.<br>ABC      |
| 1     | 1.88              | 9/9                 | 1.0              |
| 2     | 2.25              | 9/9                 | 1.2              |
| 3     | 2.63              | 9/12                | 1.4              |
| 4     | 3.25              | 12/18               | 1.6              |

(CONSULT FACTORY FOR > 4 POLES)