

# D7 - SERIES

## SPECIFICATIONS AND ORDERING INFORMATION

47.62 mm DIAMETER 2.25 AMPS @ 28 VDC

The D7 Series, constructed with a dual-ball, hill and valley index, has increased the physical size of the switch conductors allowing for additional current carrying capabilities. Standard designs utilize glass epoxy or ceramic insulations, solder lug terminals, and 30° adjustable stop indexing.



### SPECIFICATIONS

#### ELECTRICAL

**Current and Voltage Rating:** Make and break resistive load 2.25 amps @ 28 VDC; 1.0 amp @ 115 VAC.

**Current Carrying Capacity:** 9 amps.

**Dielectric Strength:** 1,500 VAC between current carrying parts and ground.

**Contact Resistance:** Average initial 3 milliohms.

**Insulation Resistance:** Glass in excess of 750,000 megohms.  
Ceramic in excess of 1,000,000 megohms.

**Hardware:** Mounting nut and lockwasher are shipped assembled.

#### MECHANICAL

**Materials and Finishes:** All parts utilize non-corrosive materials as standard.

**Clips and Rotors:** Brass with silver plate as standard.

**Insulation:** Glass epoxy, or ceramic.

**Index:** Dual-ball, hill and valley design.

**Index Life:** 25,000 cycles minimum.

**Index Torque:** Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.

**Index Angles:** Positive 30° standard, 60° available.

**Index Stops:** Adjustable standard, fixed or continuous.

**Stop Strength:** 2.82 Nm minimum.

### STANDARD PART NUMBER

#### GLASS EPOXY INSULATION

#### SWITCHES - 30° INDEXING

ADJUSTABLE STOPS - SOLDER LUG TERMINALS - STOPS SET @ 2 POS.

| POLES | ACTIVE POSITIONS | POLES/SECTION | NO. OF SECTIONS | SHORTING | NON-SHORTING | FIG. * |
|-------|------------------|---------------|-----------------|----------|--------------|--------|
| 01    | 02-11            | 1             | 1               | D7G0111S | D7G0111N     | DA     |
| 02    | 02-11            | 1             | 2               | D7G0211S | D7G0211N     | DA     |
| 02    | 02-05            | 2             | 1               | D7G0205S | D7G0205N     | DH     |
| 03    | 02-11            | 1             | 3               | D7G0311S | D7G0311N     | DA     |
| 03    | 02-03            | 3             | 1               | D7G0303S | D7G0303N     | DM     |
| 04    | 02-11            | 1             | 4               | D7G0411S | D7G0411N     | DA     |
| 04    | 02-05            | 2             | 2               | D7G0405S | D7G0405N     | DH     |
| 05    | 02-11            | 1             | 5               | D7G0511S | D7G0511N     | DA     |
| 06    | 02-05            | 2             | 3               | D7G0605S | D7G0605N     | DH     |
| 06    | 02-03            | 3             | 2               | D7G0603S | D7G0603N     | DM     |
| 06    | 02-11            | 1             | 6               | D7G0611S | D7G0611N     | DA     |
| 08    | 02-05            | 2             | 4               | D7G0805S | D7G0805N     | DH     |
| 09    | 02-03            | 3             | 3               | D7G0903S | D7G0903N     | DM     |
| 10    | 02-05            | 2             | 5               | D7G1005S | D7G1005N     | DH     |

#### CERAMIC INSULATION

#### SWITCHES - 30° INDEXING

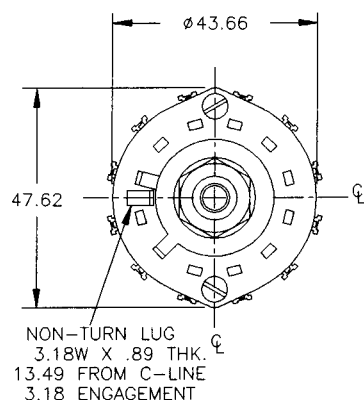
ADJUSTABLE STOPS - SOLDER LUG TERMINALS - STOPS SET @ 2 POS.

| POLES               | ACTIVE POSITIONS | POLES/SECTION | NO. OF SECTIONS | SHORTING | NON-SHORTING | FIG. * |
|---------------------|------------------|---------------|-----------------|----------|--------------|--------|
| 01                  | 02-11            | 1             | 1               | D7C0111S | D7C0111N     | DA     |
| 02                  | 02-11            | 1             | 2               | D7C0211S | D7C0211N     | DA     |
| 02                  | 02-05            | 2             | 1               | D7C0205S | D7C0205N     | DH     |
| 03                  | 02-11            | 1             | 3               | D7C0311S | D7C0311N     | DA     |
| 03                  | 02-03            | 3             | 1               | D7C0303S | D7C0303N     | DM     |
| 04                  | 02-05            | 2             | 2               | D7C0405S | D7C0405N     | DH     |
| 06                  | 02-05            | 2             | 3               | D7C0605S | D7C0605N     | DH     |
| 06                  | 02-03            | 3             | 2               | D7C0603S | D7C0603N     | DM     |
| <b>60° INDEXING</b> |                  |               |                 |          |              |        |
| 01                  | 02-06            | 1             | 1               | _____    | D7C0106N-60  | DK     |
| 02                  | 02-06            | 1             | 2               | _____    | D7C0206N-60  | DK     |
| 03                  | 02-06            | 1             | 3               | _____    | D7C0306N-60  | DK     |
| 04                  | 02-06            | 1             | 4               | _____    | D7C0406N-60  | DK     |
| 05                  | 02-06            | 1             | 5               | _____    | D7C0506N-60  | DK     |

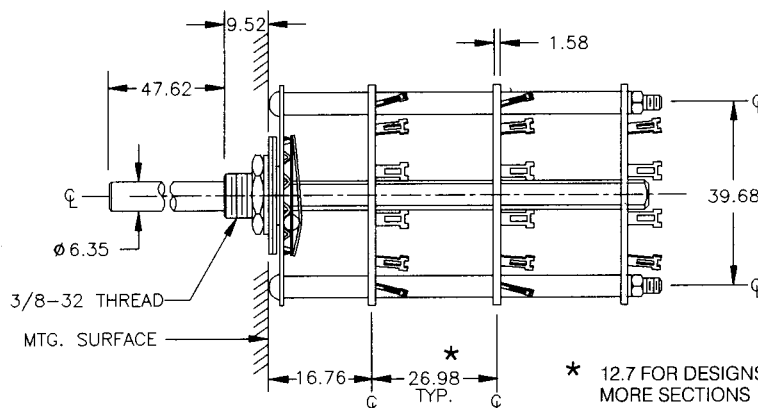
\* FIGURES ARE SHOWN ON PAGES 55 AND 56.

### DIMENSIONS

#### STANDARD CONSTRUCTION



#### D7G - GLASS EPOXY CONSTRUCTION



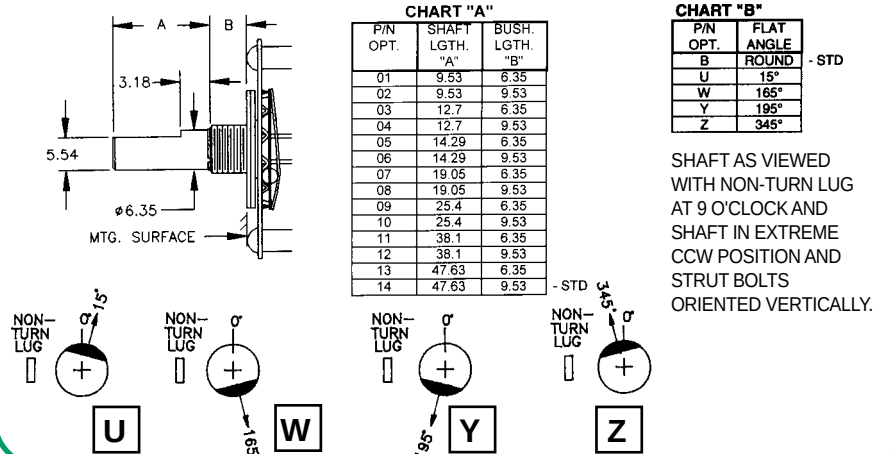
\* 12.7 FOR DESIGNS OF FIVE OR MORE SECTIONS

## How to Order Additional Options:

| 2 DIGIT SERIES | INSULATION TYPE          | TOTAL POLES | ACTIVE POSITIONS                 | CONTACT TYPE                     | INDEX ANGLE | STOP TYPE                          | SHAFT/ BUSHING | SHAFT FLAT    |
|----------------|--------------------------|-------------|----------------------------------|----------------------------------|-------------|------------------------------------|----------------|---------------|
| D7             | G - GLASS<br>C - CERAMIC | 01 - MIN.   | 12 - MAX @ 30°<br>06 - MAX @ 60° | S - SHORTING<br>N - NON-SHORTING | 30°<br>60°  | A - ADJ.<br>F - FIXED<br>C - CONT. | SEE CHART "A"  | SEE CHART "B" |

| CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS |          |                      |                      | ADDITIONAL OPTIONS   |                      |                      |                      |
|-------------------------------------------------------|----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <b>D</b>                                              | <b>7</b> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
|                                                       |          | (SPECIFY)            | (SPECIFY)            | (SPECIFY)            | (SPECIFY)            | (SPECIFY)            | (SPECIFY)            |

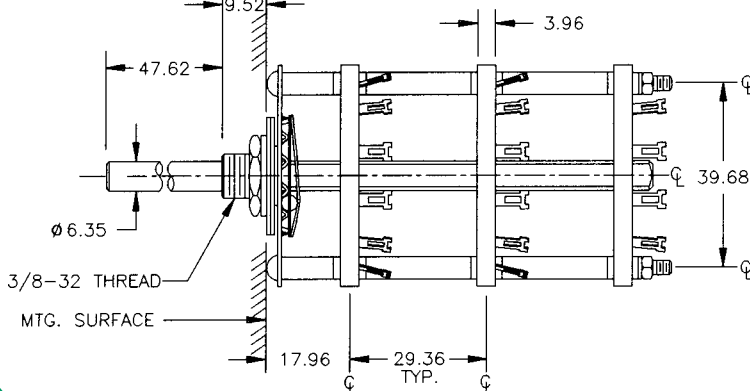
## SHAFT, BUSHING, AND FLAT OPTIONS



## INSULATION AND INDEX OPTIONS

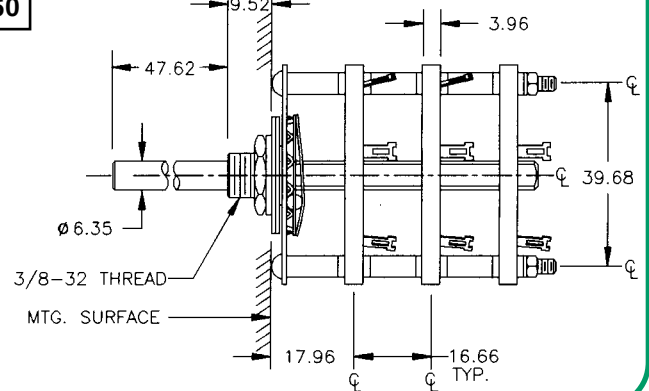
### D7C - CERAMIC CONSTRUCTION

30° INDEX



### D7C - CERAMIC INSULATION

60° INDEX



CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.

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