

# U36D Series

**U36D SERIES**  
Engineering Bulletin Mar 07



- **Large Can**
- **Screw Terminals**
- **High Ripple**
- **Up to 550VDC  
Rated Voltage**
- **Dimensions in  
Inches**
- **RoHS Compliant**
- **+85°C  
Maximum  
Temperature**



The U36D series is ideal for inverter applications requiring high ripple current capabilities. With a voltage range through 550 volts, the number of capacitors in series can be reduced. The U36D capacitors offer very large capacitance of up to 2.2F and a maximum operating temperature of +85°C. These capacitors are available with a variety of high current English or Metric thread terminals. Mounting options available are a three-footed clamp or bottom stud. (A special order two-footed clamp is also available for selected diameters.) All case size dimensions are based on inches. Custom designs are available upon request.

## Summary of Specifications

- **Screw terminals:** high and low post, English and Metric thread.
- **Capacitance range:** 68 $\mu$ F to 2.2F.
- **Voltage range:** 6.3 to 550VDC.
- **Category temperature range:** -40°C to +85°C.
- **Leakage current:** 0.02CV( $\mu$ A) or 5mA, whichever is smaller, after 5 minutes at +25°C.
- **Standard capacitance tolerance:**  $\pm$ 20%
- **Nominal case size (D  $\times$  L):** D = 35mm (1.375") to 89mm (3.500"); L = 41mm (1.625") to 220mm (8.625").
- **Rated lifetime:** 2,000 hours at +85°C with rated ripple current applied.

**U36D**  
**LARGE CAN 85°C**

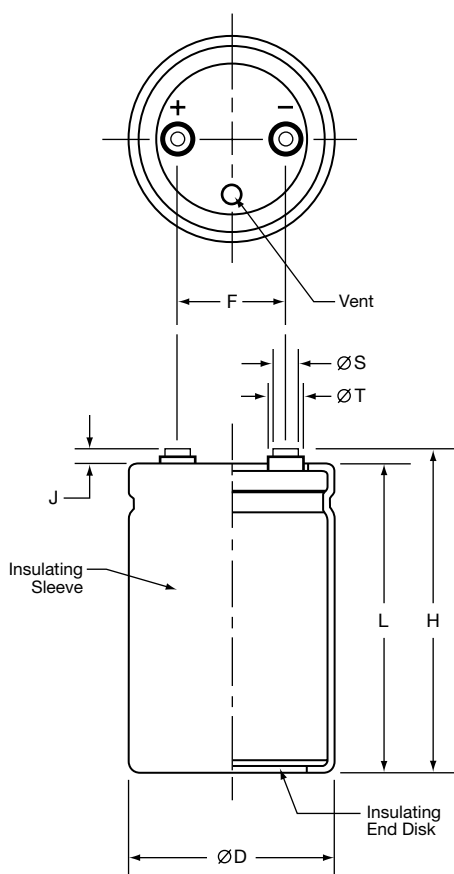
## U36D Specifications - Screw Terminals

| Item                             | Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |       |       |       |      |      |      |      |      |       |       |      |      |     |     |     |     |     |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|-------|-------|------|------|------|------|------|-------|-------|------|------|-----|-----|-----|-----|-----|
| Category Temperature Range       | − 40 to +85°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |       |       |       |      |      |      |      |      |       |       |      |      |     |     |     |     |     |
| Rated Voltage Range              | 6.3 to 550VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |       |       |       |      |      |      |      |      |       |       |      |      |     |     |     |     |     |
| Capacitance Range                | 68μF to 2.2F at +25°C, 120Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |       |       |       |      |      |      |      |      |       |       |      |      |     |     |     |     |     |
| Capacitance Tolerance            | ±20% (M) at +25°C, 120Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |       |       |       |      |      |      |      |      |       |       |      |      |     |     |     |     |     |
| Leakage Current                  | I = 0.02CV (μA) or 5mA, whichever is smaller, after 5 minutes at +25°C.<br>Where I = Max. leakage current (μA), C = Nominal capacitance (μF) and V = Rated voltage (V)                                                                                                                                                                                                                                                                                                           |         |       |       |       |      |      |      |      |      |       |       |      |      |     |     |     |     |     |
| Rated Ripple Current Multipliers | Ambient Temperature (°C) <table><tr><td>≤ +55°C</td><td>+65°C</td><td>+75°C</td><td>+85°C</td></tr><tr><td>2.39</td><td>2.22</td><td>1.67</td><td>1.00</td></tr></table><br>Frequency (Hz) <table><tr><td>50Hz</td><td>120Hz</td><td>300Hz</td><td>1kHz</td><td>3kHz</td></tr><tr><td>0.8</td><td>1.0</td><td>1.1</td><td>1.3</td><td>1.4</td></tr></table>                                                                                                                      | ≤ +55°C | +65°C | +75°C | +85°C | 2.39 | 2.22 | 1.67 | 1.00 | 50Hz | 120Hz | 300Hz | 1kHz | 3kHz | 0.8 | 1.0 | 1.1 | 1.3 | 1.4 |
| ≤ +55°C                          | +65°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | +75°C   | +85°C |       |       |      |      |      |      |      |       |       |      |      |     |     |     |     |     |
| 2.39                             | 2.22                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.67    | 1.00  |       |       |      |      |      |      |      |       |       |      |      |     |     |     |     |     |
| 50Hz                             | 120Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 300Hz   | 1kHz  | 3kHz  |       |      |      |      |      |      |       |       |      |      |     |     |     |     |     |
| 0.8                              | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.1     | 1.3   | 1.4   |       |      |      |      |      |      |       |       |      |      |     |     |     |     |     |
| Endurance<br>(Load Life)         | The following specifications shall be satisfied when the capacitors are restored to +25°C after subjecting them to DC voltage for 2,000 hours at +85°C with the rated ripple current applied. The sum of the DC voltage and peak AC voltage must not exceed the full rated voltage of the capacitors.<br><br>Capacitance change: ≤ 20% from initial measurement<br>ESR change : ≤ 300% of initial specified limit<br>Leakage current : ≤ initial specified limit                 |         |       |       |       |      |      |      |      |      |       |       |      |      |     |     |     |     |     |
| Shelf Life                       | The following specifications shall be satisfied when the capacitors are restored to +25°C after exposing them for 500 hours at +85°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements.<br><br>Capacitance change: ≤ 20% from initial measurement<br>ESR change : ≤ 300% of initial specified limit<br>Leakage current : ≤ initial specified limit |         |       |       |       |      |      |      |      |      |       |       |      |      |     |     |     |     |     |

## Diagram of Dimensions - Screw Terminals

### Large Can/Screw Terminals

Unit: inches (mm)



### Case Dimensions

| Case Size Code                                              | ØD<br>+0.080 (2.0) | L<br>±0.040 (1.0)                                                                                                              | F<br>±0.010 (0.25) |
|-------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------|
| A41<br>A54<br>A67<br>A79<br>A92<br>AA5<br>AB7<br>AD0<br>AE3 | 1.375 (35.0)       | 1.625 (41)<br>2.125 (54)<br>2.625 (67)<br>3.125 (79)<br>3.625 (92)<br>4.125 (105)<br>4.625 (117)<br>5.125 (130)<br>5.625 (143) | 0.500 (12.7)       |
| C48<br>C54<br>C67<br>C79<br>C92<br>CA5<br>CB7<br>CD0<br>CE3 | 2.000 (50.8)       | 1.875 (48)<br>2.125 (54)<br>2.625 (67)<br>3.125 (79)<br>3.625 (92)<br>4.125 (105)<br>4.625 (117)<br>5.125 (130)<br>5.625 (143) | 0.875 (22.2)       |
| D79<br>DA5<br>DB7<br>DD0<br>DE3                             | 2.500 (63.5)       | 3.125 (79)<br>4.125 (105)<br>4.625 (117)<br>5.125 (130)<br>5.625 (143)                                                         | 1.125 (28.6)       |
| E79<br>E92<br>EA5<br>EB7<br>ED0<br>EE3<br>EN0               | 3.000 (76.2)       | 3.125 (79)<br>3.625 (92)<br>4.125 (105)<br>4.625 (117)<br>5.125 (130)<br>5.625 (143)<br>8.625 (220)                            | 1.250 (31.8)       |
| FA5<br>FB7<br>FD0<br>FE3                                    | 3.500 (89.0)       | 4.125 (105)<br>4.625 (117)<br>5.125 (130)<br>5.625 (143)                                                                       | 1.250 (31.8)       |

### Terminal Specifications

| Terminal Code | Available Case Diameter |                             | Thread Size    | Minimum Thread Depth | J<br>±0.020 (0.5) | H<br>±0.080 (2.0) | ØS<br>±0.010 (0.25) | ØT<br>±0.010 (0.25) |
|---------------|-------------------------|-----------------------------|----------------|----------------------|-------------------|-------------------|---------------------|---------------------|
|               | ØD Code                 | ØD inches (mm)              |                |                      |                   |                   |                     |                     |
| HP            | C-E                     | 1.375 – 3.000 (35.0 – 76.2) | 10 - 32 NF-2B  | 0.375 (9.5)          | 0.250 (6.4)       | L + J             | 0.313 (8.0)         | 0.438 (11.1)        |
| LP            | C-E                     | 1.375 – 3.000 (35.0 – 76.2) | 10 - 32 NF-2B  | 0.219 (5.6)          | 0.063 (1.6)       | L + J             | 0.313 (8.0)         | —                   |
| HL            | C-E                     | 1.375 – 3.000 (35.0 – 76.2) | M5x0.8-6H      | 0.375 (9.5)          | 0.250 (6.4)       | L + J             | 0.313 (8.0)         | 0.438 (11.1)        |
| ML            | C-E                     | 1.375 – 3.000 (35.0 – 76.2) | M5x0.8-6H      | 0.219 (5.6)          | 0.063 (1.6)       | L + J             | 0.313 (8.0)         | 0.438 (11.1)        |
| CD            | D-E                     | 2.500 – 3.000 (63.5 – 76.2) | M5x0.8-6H      | 0.335 (8.5)          | 0.200 (5.0)       | L + J             | 0.512 (13.0)        | 0.740 (18.8)        |
| CP            | D-F                     | 2.500 – 3.500 (63.5 – 89.0) | 1/4 - 28 NF-2B | 0.344 (8.7)          | 0.093 (2.4)       | L + J             | 0.689 (17.5)        | —                   |
| CH            | D-F                     | 2.500 – 3.500 (63.5 – 89.0) | 1/4 - 28 NF-2B | 0.468 (11.9)         | 0.250 (6.4)       | L + J             | 0.689 (17.5)        | —                   |
| CA            | D-F                     | 2.500 – 3.500 (63.5 – 89.0) | M6x1-6H        | 0.344 (8.7)          | 0.093 (2.4)       | L + J             | 0.689 (17.5)        | —                   |
| CS            | D-F                     | 2.500 – 3.500 (63.5 – 89.0) | M6x1-6H        | 0.468 (11.9)         | 0.250 (6.4)       | L + J             | 0.689 (17.5)        | —                   |

## Mounting Hardware - Screw Terminals

### Type C: Three-Footed Clamp

Unit: mm (inches)



Clamp: Zinc with silver trivalent chromate post treatment.  
Hardware: Screw, washer and hexagon nut included with each clamp.

### Type C: Clamp Dimensions

| Mounting Code | Case ØD      | A<br>±1.0 (0.040) | B<br>±1.0 (0.040) | G<br>±1.0 (0.040) | J<br>±0.5 (0.020) | K<br>±0.5 (0.020) | R<br>±1.0 (0.040) | S<br>±1.0 (0.040) | T<br>±0.5 (0.020) |
|---------------|--------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| See Note      | 35.0 (1.375) | —                 | —                 | —                 | —                 | —                 | —                 | —                 | —                 |
| C             | 50.8 (2.000) | 31.8 (1.250)      | 36.5 (1.437)      | 13.3 (0.524)      | 4.5 (0.177)       | 7.1 (0.280)       | 19.1 (0.751)      | 9.5 (0.374)       | 0.8 (0.032)       |
| C             | 63.5 (2.500) | 38.1 (1.500)      | 42.9 (1.689)      | 13.3 (0.524)      | 4.5 (0.177)       | 7.1 (0.280)       | 19.1 (0.751)      | 9.5 (0.374)       | 0.8 (0.032)       |
| C             | 76.2 (3.000) | 44.5 (1.750)      | 49.2 (1.937)      | 13.3 (0.524)      | 4.5 (0.177)       | 7.1 (0.280)       | 19.1 (0.751)      | 9.5 (0.374)       | 1.0 (0.040)       |
| C             | 89.0 (3.500) | 50.8 (2.000)      | 56.5 (2.224)      | 16.0 (0.630)      | 4.5 (0.177)       | 8.0 (0.313)       | 21.0 (0.827)      | 9.0 (0.354)       | 1.0 (0.040)       |

Note: Type B two-footed clamp available upon request for Ø35, Ø50.8, Ø63.5 and Ø76.2. Consult UCC for specifications.

### Type S: Stud Mounting

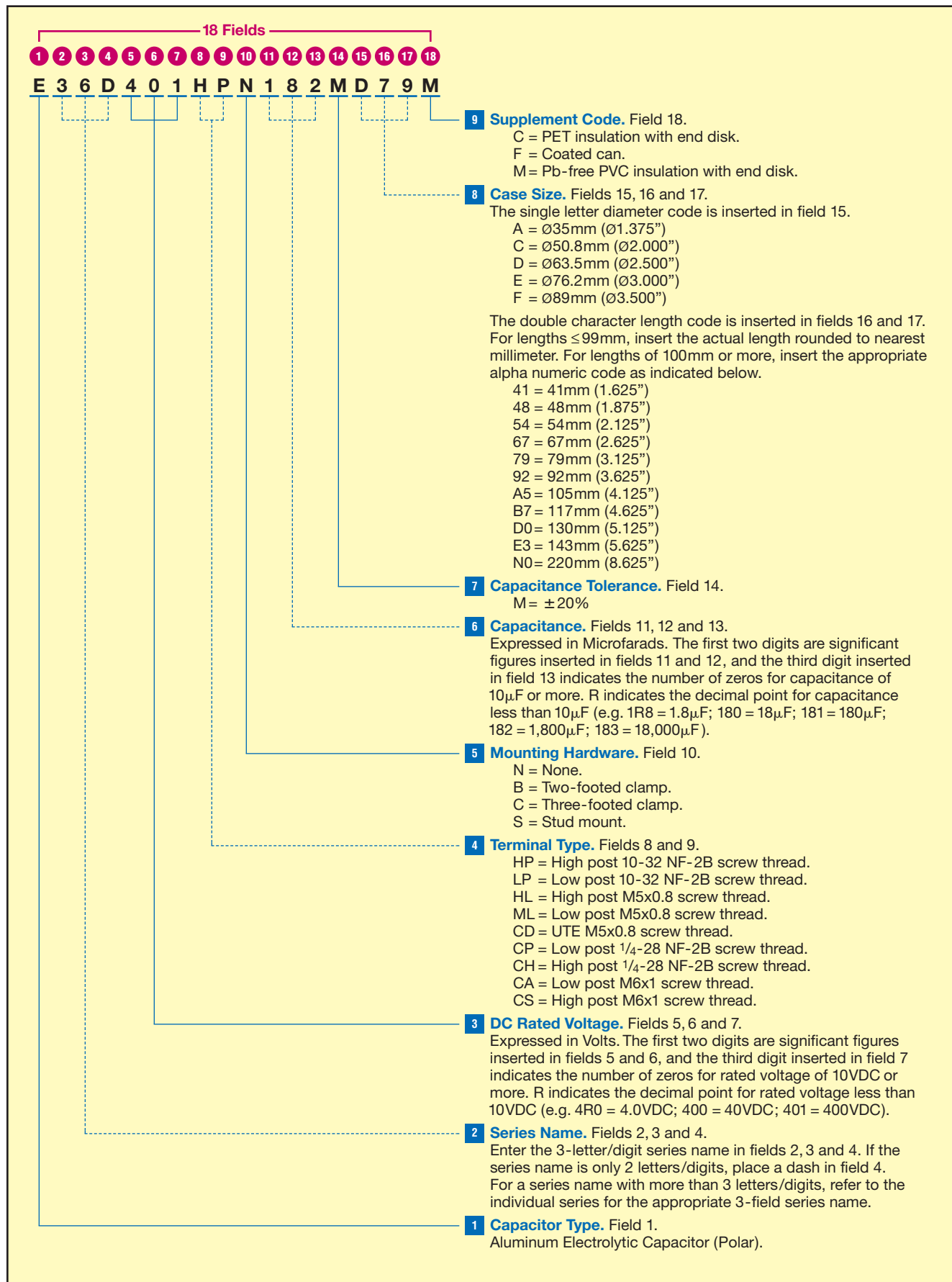


### Type S: Stud Mounting Dimensions

| Mounting Code | P<br>±1.0 (0.040) | T<br>Thread Size | M<br>±1.0 (0.040) | N<br>±1.0 (0.040) | ØK<br>±2.0 (0.080) | ØQ<br>±1.0 (0.040) | R<br>±1.0 (0.040) |
|---------------|-------------------|------------------|-------------------|-------------------|--------------------|--------------------|-------------------|
| S             | 16.0 (0.630)      | M12              | 19.0 (0.748)      | 18.0 (0.709)      | 30.0 (1.181)       | 22.0 (0.866)       | 1.40 (0.055)      |

## Part Numbering System for U36D Series

When ordering, always specify complete 18-field global part number.



## Standard Voltage Ratings - Screw Terminals

| Rated Voltage (WVDC)               | Capacitance (µF) | Global Part Number† | Nominal Case Size* D × L (inches) | Case Size Code | Maximum ESR (mΩ) at +25°C, 120Hz | Rated Ripple Current (A rms) at +85°C, 120Hz |
|------------------------------------|------------------|---------------------|-----------------------------------|----------------|----------------------------------|----------------------------------------------|
| <b>6.3 Volts<br/>8 Volts Surge</b> | 39,000           | E36D6R3HPN393MA41M  | 1.375 × 1.625                     | A41            | 42.7                             | 4.48                                         |
|                                    | 68,000           | E36D6R3HPN683MA54M  | 1.375 × 2.125                     | A54            | 25.5                             | 6.35                                         |
|                                    | 120,000          | E36D6R3HPN124MA79M  | 1.375 × 3.125                     | A79            | 15.4                             | 9.47                                         |
|                                    | 180,000          | E36D6R3HPN184MAA5M  | 1.375 × 4.125                     | AA5            | 11.2                             | 11.10                                        |
|                                    | 220,000          | E36D6R3HPN224MAB7M  | 1.375 × 4.625                     | AB7            | 9.8                              | 12.55                                        |
|                                    | 270,000          | E36D6R3HPN274MAE3M  | 1.375 × 5.625                     | AE3            | 8.4                              | 15.27                                        |
|                                    | 120,000          | E36D6R3HPN124MC54M  | 2.000 × 2.125                     | C54            | 16.9                             | 7.72                                         |
|                                    | 220,000          | E36D6R3HPN224MC67M  | 2.000 × 2.625                     | C67            | 9.1                              | 10.85                                        |
|                                    | 270,000          | E36D6R3HPN274MC79M  | 2.000 × 3.125                     | C79            | 8.8                              | 12.60                                        |
|                                    | 390,000          | E36D6R3HPN394MC92M  | 2.000 × 3.625                     | C92            | 7.5                              | 15.71                                        |
|                                    | 470,000          | E36D6R3HPN474MCB7M  | 2.000 × 4.625                     | CB7            | 5.8                              | 17.95                                        |
|                                    | 560,000          | E36D6R3HPN564MCD0M  | 2.000 × 5.125                     | CD0            | 5.2                              | 19.94                                        |
|                                    | 680,000          | E36D6R3HPN684MCE3M  | 2.000 × 5.625                     | CE3            | 5.0                              | 22.31                                        |
|                                    | 470,000          | E36D6R3HPN474MD79M  | 2.500 × 3.125                     | D79            | 8.9                              | 15.39                                        |
|                                    | 680,000          | E36D6R3HPN684MDA5M  | 2.500 × 4.125                     | DA5            | 6.5                              | 20.69                                        |
|                                    | 820,000          | E36D6R3HPN824MDB7M  | 2.500 × 4.625                     | DB7            | 5.8                              | 21.02                                        |
|                                    | 1,000,000        | E36D6R3HPN105MDE3M  | 2.500 × 5.625                     | DE3            | 4.9                              | 24.55                                        |
|                                    | 680,000          | E36D6R3HPN684ME79M  | 3.000 × 3.125                     | E79            | 10.0                             | 17.32                                        |
|                                    | 820,000          | E36D6R3HPN824ME92M  | 3.000 × 3.625                     | E92            | 8.6                              | 19.55                                        |
|                                    | 1,000,000        | E36D6R3HPN105MEA5M  | 3.000 × 4.125                     | EA5            | 7.5                              | 22.10                                        |
|                                    | 1,200,000        | E36D6R3HPN125MEB7M  | 3.000 × 4.625                     | EB7            | 6.8                              | 24.59                                        |
|                                    | 1,500,000        | E36D6R3HPN155MEE3M  | 3.000 × 5.625                     | EE3            | 5.6                              | 29.17                                        |
|                                    | 2,200,000        | E36D6R3HPN225MEN0M  | 3.000 × 8.625                     | EN0            | 3.9                              | 41.67                                        |
| <b>10 Volts<br/>13 Volts Surge</b> | 33,000           | E36D100HPN333MA41M  | 1.375 × 1.625                     | A41            | 40.9                             | 3.65                                         |
|                                    | 56,000           | E36D100HPN563MA54M  | 1.375 × 2.125                     | A54            | 25.0                             | 4.99                                         |
|                                    | 82,000           | E36D100HPN823MA67M  | 1.375 × 2.625                     | A67            | 18.0                             | 6.44                                         |
|                                    | 100,000          | E36D100HPN104MA79M  | 1.375 × 3.125                     | A79            | 15.0                             | 7.65                                         |
|                                    | 120,000          | E36D100HPN124MA92M  | 1.375 × 3.625                     | A92            | 12.9                             | 8.45                                         |
|                                    | 150,000          | E36D100HPN154MAA5M  | 1.375 × 4.125                     | AA5            | 10.9                             | 10.03                                        |
|                                    | 180,000          | E36D100HPN184MAB7M  | 1.375 × 4.625                     | AB7            | 10.6                             | 11.24                                        |
|                                    | 220,000          | E36D100HPN224MAE3M  | 1.375 × 5.625                     | AE3            | 8.3                              | 12.71                                        |
|                                    | 82,000           | E36D100HPN823MC48M  | 2.000 × 1.875                     | C48            | 21.0                             | 6.36                                         |
|                                    | 100,000          | E36D100HPN104MC54M  | 2.000 × 2.125                     | C54            | 16.6                             | 7.37                                         |
|                                    | 150,000          | E36D100HPN154MC67M  | 2.000 × 2.625                     | C67            | 11.5                             | 9.18                                         |
|                                    | 220,000          | E36D100HPN224MC79M  | 2.000 × 3.125                     | C79            | 8.8                              | 11.93                                        |
|                                    | 270,000          | E36D100HPN274MC92M  | 2.000 × 3.625                     | C92            | 7.4                              | 13.07                                        |
|                                    | 330,000          | E36D100HPN334MCA5M  | 2.000 × 4.125                     | CA5            | 6.4                              | 15.32                                        |
|                                    | 390,000          | E36D100HPN394MCB7M  | 2.000 × 4.625                     | CB7            | 5.7                              | 16.35                                        |
|                                    | 470,000          | E36D100HPN474MCE3M  | 2.000 × 5.625                     | CE3            | 4.9                              | 19.08                                        |
|                                    | 330,000          | E36D100HPN334MD79M  | 2.500 × 3.125                     | D79            | 8.7                              | 12.77                                        |
|                                    | 560,000          | E36D100HPN564MDA5M  | 2.500 × 4.125                     | DA5            | 6.3                              | 18.77                                        |
|                                    | 680,000          | E36D100HPN684MDB7M  | 2.500 × 4.625                     | DB7            | 5.7                              | 19.14                                        |
|                                    | 820,000          | E36D100HPN824MDE3M  | 2.500 × 5.625                     | DE3            | 4.9                              | 20.73                                        |
|                                    | 680,000          | E36D100HPN684ME92M  | 3.000 × 3.625                     | E92            | 8.9                              | 18.43                                        |
|                                    | 820,000          | E36D100HPN824MEA5M  | 3.000 × 4.125                     | EA5            | 7.7                              | 21.39                                        |
|                                    | 1,000,000        | E36D100HPN105MED0M  | 3.000 × 5.125                     | ED0            | 6.0                              | 23.50                                        |
|                                    | 1,200,000        | E36D100HPN125MEE3M  | 3.000 × 5.625                     | EE3            | 5.7                              | 26.84                                        |
|                                    | 1,800,000        | E36D100HPN185MEN0M  | 3.000 × 8.625                     | EN0            | 4.0                              | 37.69                                        |
| <b>16 Volts<br/>20 Volts Surge</b> | 22,000           | E36D160HPN223MA41M  | 1.375 × 1.625                     | A41            | 44.2                             | 3.16                                         |
|                                    | 39,000           | E36D160HPN393MA54M  | 1.375 × 2.125                     | A54            | 26.1                             | 4.50                                         |
|                                    | 56,000           | E36D160HPN563MA67M  | 1.375 × 2.625                     | A67            | 19.0                             | 5.63                                         |
|                                    | 68,000           | E36D160HPN683MA79M  | 1.375 × 3.125                     | A79            | 15.8                             | 6.68                                         |
|                                    | 82,000           | E36D160HPN823MA92M  | 1.375 × 3.625                     | A92            | 13.5                             | 7.86                                         |
|                                    | 100,000          | E36D160HPN104MAA5M  | 1.375 × 4.125                     | AA5            | 11.6                             | 9.23                                         |
|                                    | 120,000          | E36D160HPN124MAB7M  | 1.375 × 4.625                     | AB7            | 10.2                             | 10.33                                        |
|                                    | 150,000          | E36D160HPN154MAE3M  | 1.375 × 5.625                     | AE3            | 8.7                              | 12.69                                        |
|                                    | 56,000           | E36D160HPN563MC48M  | 2.000 × 1.875                     | C48            | 21.7                             | 5.51                                         |
|                                    | 68,000           | E36D160HPN683MC54M  | 2.000 × 2.125                     | C54            | 17.2                             | 6.37                                         |

†For terminal, mounting and construction options, refer to the part numbering system for descriptions and codes.

\*Refer to diagram of dimensions for detailed case size specifications.

## Standard Voltage Ratings - Screw Terminals

| Rated Voltage (WVDC) | Capacitance (μF) | Global Part Number† | Nominal Case Size* D × L (inches) | Case Size Code | Maximum ESR (mΩ) at +25°C, 120Hz | Rated Ripple Current (A rms) at +85°C, 120Hz |
|----------------------|------------------|---------------------|-----------------------------------|----------------|----------------------------------|----------------------------------------------|
|----------------------|------------------|---------------------|-----------------------------------|----------------|----------------------------------|----------------------------------------------|

|                                    |           |                    |               |     |      |       |
|------------------------------------|-----------|--------------------|---------------|-----|------|-------|
| <b>16 Volts<br/>20 Volts Surge</b> | 120,000   | E36D160HPN124MC54M | 2.000 × 2.625 | C54 | 12.2 | 9.00  |
|                                    | 150,000   | E36D160HPN154MC67M | 2.000 × 3.125 | C67 | 9.2  | 10.79 |
|                                    | 220,000   | E36D160HPN224MC92M | 2.000 × 3.625 | C92 | 6.7  | 13.19 |
|                                    | 270,000   | E36D160HPN274MCB7M | 2.000 × 4.625 | CB7 | 5.9  | 15.71 |
|                                    | 330,000   | E36D160HPN334MCE3M | 2.000 × 5.625 | CE3 | 5.1  | 19.03 |
|                                    | 220,000   | E36D160HPN224MD79M | 2.500 × 3.125 | D79 | 8.7  | 12.59 |
|                                    | 390,000   | E36D160HPN394MDA5M | 2.500 × 4.125 | DA5 | 6.3  | 18.91 |
|                                    | 470,000   | E36D160HPN474MDB7M | 2.500 × 4.625 | DB7 | 5.7  | 20.24 |
|                                    | 560,000   | E36D160HPN564MDE3M | 2.500 × 5.625 | DE3 | 4.9  | 24.15 |
|                                    | 470,000   | E36D160HPN474ME92M | 3.000 × 3.625 | E92 | 8.7  | 19.11 |
|                                    | 560,000   | E36D160HPN564MEA5M | 3.000 × 4.125 | EA5 | 7.5  | 22.05 |
|                                    | 680,000   | E36D160HPN684MEB7M | 3.000 × 4.625 | EB7 | 6.3  | 22.91 |
|                                    | 820,000   | E36D160HPN824MEE3M | 3.000 × 5.625 | EE3 | 5.6  | 25.28 |
|                                    | 1,200,000 | E36D160HPN125MEN0M | 3.000 × 8.625 | EN0 | 3.9  | 34.52 |

|                                    |         |                    |               |     |      |       |
|------------------------------------|---------|--------------------|---------------|-----|------|-------|
| <b>25 Volts<br/>32 Volts Surge</b> | 15,000  | E36D250HPN153MA41M | 1.375 × 1.625 | A41 | 44.0 | 3.05  |
|                                    | 27,000  | E36D250HPN273MA54M | 1.375 × 2.125 | A54 | 25.7 | 4.38  |
|                                    | 39,000  | E36D250HPN393MA67M | 1.375 × 2.625 | A67 | 18.7 | 5.50  |
|                                    | 47,000  | E36D250HPN473MA79M | 1.375 × 3.125 | A79 | 15.7 | 6.49  |
|                                    | 56,000  | E36D250HPN563MA92M | 1.375 × 3.625 | A92 | 13.5 | 7.60  |
|                                    | 68,000  | E36D250HPN683MAA5M | 1.375 × 4.125 | AA5 | 11.6 | 8.89  |
|                                    | 82,000  | E36D250HPN823MAB7M | 1.375 × 4.625 | AB7 | 10.2 | 9.99  |
|                                    | 100,000 | E36D250HPN104MAE3M | 1.375 × 5.625 | AE3 | 8.8  | 12.12 |
|                                    | 39,000  | E36D250HPN393MC48M | 2.000 × 1.875 | C48 | 21.7 | 5.66  |
|                                    | 47,000  | E36D250HPN473MC54M | 2.000 × 2.125 | C54 | 17.2 | 6.52  |
|                                    | 82,000  | E36D250HPN823MC67M | 2.000 × 2.625 | C67 | 12.2 | 9.15  |
|                                    | 100,000 | E36D250HPN104MC79M | 2.000 × 3.125 | C79 | 9.2  | 10.84 |
|                                    | 150,000 | E36D250HPN154MCA5M | 2.000 × 4.125 | CA5 | 6.7  | 13.66 |
|                                    | 180,000 | E36D250HPN184MCB7M | 2.000 × 4.625 | CB7 | 5.9  | 15.71 |
|                                    | 220,000 | E36D250HPN224MCE3M | 2.000 × 5.625 | CE3 | 5.1  | 19.03 |
|                                    | 180,000 | E36D250HPN184MD79M | 2.500 × 3.125 | D79 | 8.7  | 13.34 |
|                                    | 270,000 | E36D250HPN274MDA5M | 2.500 × 4.125 | DA5 | 6.3  | 18.44 |
|                                    | 330,000 | E36D250HPN334MDB7M | 2.500 × 4.625 | DB7 | 5.7  | 20.39 |
|                                    | 390,000 | E36D250HPN394MDE3M | 2.500 × 5.625 | DE3 | 5.0  | 24.24 |
|                                    | 330,000 | E36D250HPN334ME92M | 3.000 × 3.625 | E92 | 8.2  | 19.61 |
|                                    | 390,000 | E36D250HPN394MEA5M | 3.000 × 4.125 | EA5 | 7.8  | 22.54 |
|                                    | 470,000 | E36D250HPN474MEB7M | 3.000 × 4.625 | EB7 | 6.4  | 24.52 |
|                                    | 560,000 | E36D250HPN564MEE3M | 3.000 × 5.625 | EE3 | 5.7  | 26.73 |
|                                    | 820,000 | E36D250HPN824MEN0M | 3.000 × 8.625 | EN0 | 3.9  | 38.03 |

|                                    |         |                    |               |     |      |       |
|------------------------------------|---------|--------------------|---------------|-----|------|-------|
| <b>35 Volts<br/>44 Volts Surge</b> | 10,000  | E36D350HPN103MA41M | 1.375 × 1.625 | A41 | 47.1 | 2.57  |
|                                    | 18,000  | E36D350HPN103MA54M | 1.375 × 2.125 | A54 | 27.4 | 3.70  |
|                                    | 27,000  | E36D350HPN103MA67M | 1.375 × 2.625 | A67 | 19.3 | 4.73  |
|                                    | 33,000  | E36D350HPN103MA79M | 1.375 × 3.125 | A79 | 16.1 | 5.63  |
|                                    | 39,000  | E36D350HPN103MA92M | 1.375 × 3.625 | A92 | 13.9 | 6.56  |
|                                    | 47,000  | E36D350HPN103MAA5M | 1.375 × 4.125 | AA5 | 12.0 | 7.65  |
|                                    | 56,000  | E36D350HPN103MAB7M | 1.375 × 4.625 | AB7 | 10.6 | 8.54  |
|                                    | 68,000  | E36D350HPN103MAD0M | 1.375 × 5.125 | AD0 | 10.3 | 9.89  |
|                                    | 22,000  | E36D350HPN223MC48M | 2.000 × 1.875 | C48 | 22.4 | 4.32  |
|                                    | 33,000  | E36D350HPN333MC54M | 2.000 × 2.125 | C54 | 17.7 | 5.55  |
|                                    | 56,000  | E36D350HPN563MC67M | 2.000 × 2.625 | C67 | 12.5 | 7.68  |
|                                    | 68,000  | E36D350HPN683MC79M | 2.000 × 3.125 | C79 | 9.5  | 9.08  |
|                                    | 100,000 | E36D350HPN104MC92M | 2.000 × 3.625 | C92 | 8.0  | 11.09 |
|                                    | 120,000 | E36D350HPN124MCB7M | 2.000 × 4.625 | CB7 | 6.1  | 12.83 |
|                                    | 150,000 | E36D350HPN154MCE3M | 2.000 × 5.625 | CE3 | 5.9  | 15.04 |
|                                    | 120,000 | E36D350HPN124MD79M | 2.500 × 3.125 | D79 | 9.1  | 11.34 |
|                                    | 180,000 | E36D350HPN184MDA5M | 2.500 × 4.125 | DA5 | 6.7  | 15.68 |
|                                    | 220,000 | E36D350HPN224MDB7M | 2.500 × 4.625 | DB7 | 5.8  | 18.17 |
|                                    | 270,000 | E36D350HPN274MDE3M | 2.500 × 5.625 | DE3 | 5.0  | 22.01 |

† For terminal, mounting and construction options, refer to the part numbering system for descriptions and codes.

\* Refer to diagram of dimensions for detailed case size specifications.

## Standard Voltage Ratings - Screw Terminals

| Rated Voltage (WVDC)               | Capacitance (µF) | Global Part Number† | Nominal Case Size* D × L (inches) | Case Size Code | Maximum ESR (mΩ) at +25°C, 120Hz | Rated Ripple Current (A rms) at +85°C, 120Hz |
|------------------------------------|------------------|---------------------|-----------------------------------|----------------|----------------------------------|----------------------------------------------|
| <b>35 Volts<br/>44 Volts Surge</b> | 220,000          | E36D350HPN224ME92M  | 3.000 × 3.625                     | E92            | 8.9                              | 16.73                                        |
|                                    | 270,000          | E36D350HPN274MEA5M  | 3.000 × 4.125                     | EA5            | 7.8                              | 19.58                                        |
|                                    | 330,000          | E36D350HPN334MED0M  | 3.000 × 5.125                     | ED0            | 6.0                              | 22.72                                        |
|                                    | 390,000          | E36D350HPN394MEE3M  | 3.000 × 5.625                     | EE3            | 5.7                              | 24.75                                        |
|                                    | 560,000          | E36D350HPN564MEN0M  | 3.000 × 8.625                     | EN0            | 3.9                              | 35.94                                        |
| <b>50 Volts<br/>63 Volts Surge</b> | 6,800            | E36D500HPN682MA41M  | 1.375 × 1.625                     | A41            | 48.8                             | 3.10                                         |
|                                    | 12,000           | E36D500HPN123MA54M  | 1.375 × 2.125                     | A54            | 28.7                             | 4.34                                         |
|                                    | 18,000           | E36D500HPN183MA67M  | 1.375 × 2.625                     | A67            | 22.8                             | 5.40                                         |
|                                    | 22,000           | E36D500HPN223MA79M  | 1.375 × 3.125                     | A79            | 16.8                             | 6.39                                         |
|                                    | 27,000           | E36D500HPN273MA92M  | 1.375 × 3.625                     | A92            | 14.2                             | 7.47                                         |
|                                    | 33,000           | E36D500HPN333MAA5M  | 1.375 × 4.125                     | AA5            | 12.1                             | 8.57                                         |
|                                    | 39,000           | E36D500HPN393MAB7M  | 1.375 × 4.625                     | AB7            | 11.8                             | 9.34                                         |
|                                    | 47,000           | E36D500HPN473MAE3M  | 1.375 × 5.625                     | AE3            | 9.3                              | 11.03                                        |
|                                    | 15,000           | E36D500HPN153MC48M  | 2.000 × 1.875                     | C48            | 25.4                             | 5.13                                         |
|                                    | 22,000           | E36D500HPN223MC54M  | 2.000 × 2.125                     | C54            | 18.4                             | 6.42                                         |
|                                    | 33,000           | E36D500HPN333MC67M  | 2.000 × 2.625                     | C67            | 12.8                             | 8.20                                         |
|                                    | 47,000           | E36D500HPN473MC79M  | 2.000 × 3.125                     | C79            | 9.7                              | 10.09                                        |
|                                    | 56,000           | E36D500HPN563MC92M  | 2.000 × 3.625                     | C92            | 8.3                              | 11.90                                        |
|                                    | 68,000           | E36D500HPN683MCA5M  | 2.000 × 4.125                     | CA5            | 7.1                              | 13.36                                        |
|                                    | 82,000           | E36D500HPN823MCB7M  | 2.000 × 4.625                     | CB7            | 6.3                              | 15.20                                        |
|                                    | 100,000          | E36D500HPN104MCE3M  | 2.000 × 5.625                     | CE3            | 5.4                              | 17.99                                        |
|                                    | 68,000           | E36D500HPN683MD79M  | 2.500 × 3.125                     | D79            | 9.0                              | 12.06                                        |
|                                    | 120,000          | E36D500HPN124MDA5M  | 2.500 × 4.125                     | DA5            | 6.6                              | 15.71                                        |
|                                    | 150,000          | E36D500HPN154MDB7M  | 2.500 × 4.625                     | DB7            | 5.9                              | 17.81                                        |
|                                    | 180,000          | E36D500HPN184MDE3M  | 2.500 × 5.625                     | DE3            | 5.0                              | 20.74                                        |
|                                    | 120,000          | E36D500HPN124ME92M  | 3.000 × 3.625                     | E92            | 8.3                              | 14.86                                        |
|                                    | 150,000          | E36D500HPN154MEA5M  | 3.000 × 4.125                     | EA5            | 7.3                              | 16.74                                        |
|                                    | 180,000          | E36D500HPN184MEB7M  | 3.000 × 4.625                     | EB7            | 6.6                              | 18.42                                        |
|                                    | 220,000          | E36D500HPN224MED0M  | 3.000 × 5.125                     | ED0            | 6.2                              | 20.04                                        |
|                                    | 390,000          | E36D500HPN394MEN0M  | 3.000 × 8.625                     | EN0            | 4.0                              | 31.15                                        |
| <b>63 Volts<br/>79 Volts Surge</b> | 4,700            | E36D630HPN472MA41M  | 1.375 × 1.625                     | A41            | 52.8                             | 2.99                                         |
|                                    | 8,200            | E36D630HPN472MA54M  | 1.375 × 2.125                     | A54            | 31.2                             | 4.17                                         |
|                                    | 12,000           | E36D630HPN472MA67M  | 1.375 × 2.625                     | A67            | 22.2                             | 5.17                                         |
|                                    | 15,000           | E36D630HPN472MA79M  | 1.375 × 3.125                     | A79            | 18.2                             | 6.15                                         |
|                                    | 18,000           | E36D630HPN472MA92M  | 1.375 × 3.625                     | A92            | 15.5                             | 7.14                                         |
|                                    | 22,000           | E36D630HPN472MAA5M  | 1.375 × 4.125                     | AA5            | 13.2                             | 8.22                                         |
|                                    | 27,000           | E36D630HPN472MAD0M  | 1.375 × 5.125                     | AD0            | 11.1                             | 9.64                                         |
|                                    | 33,000           | E36D630HPN472MAE3M  | 1.375 × 5.625                     | AE3            | 9.7                              | 10.75                                        |
|                                    | 12,000           | E36D630HPN123MC48M  | 2.000 × 1.875                     | C48            | 25.2                             | 5.24                                         |
|                                    | 15,000           | E36D630HPN153MC54M  | 2.000 × 2.125                     | C54            | 19.8                             | 6.21                                         |
|                                    | 22,000           | E36D630HPN223MC67M  | 2.000 × 2.625                     | C67            | 13.8                             | 7.91                                         |
|                                    | 33,000           | E36D630HPN333MC79M  | 2.000 × 3.125                     | C79            | 11.2                             | 9.85                                         |
|                                    | 39,000           | E36D630HPN393MC92M  | 2.000 × 3.625                     | C92            | 8.7                              | 11.62                                        |
|                                    | 47,000           | E36D630HPN473MCA5M  | 2.000 × 4.125                     | CA5            | 7.5                              | 13.01                                        |
|                                    | 56,000           | E36D630HPN563MCB7M  | 2.000 × 4.625                     | CB7            | 6.7                              | 14.74                                        |
|                                    | 68,000           | E36D630HPN683MCE3M  | 2.000 × 5.625                     | CE3            | 5.7                              | 17.51                                        |
|                                    | 47,000           | E36D630HPN473MD79M  | 2.500 × 3.125                     | D79            | 9.3                              | 11.86                                        |
|                                    | 82,000           | E36D630HPN823MDA5M  | 2.500 × 4.125                     | DA5            | 6.8                              | 15.60                                        |
|                                    | 100,000          | E36D630HPN104MDB7M  | 2.500 × 4.625                     | DB7            | 6.0                              | 17.66                                        |
|                                    | 120,000          | E36D630HPN124MDE3M  | 2.500 × 5.625                     | DE3            | 5.2                              | 20.55                                        |
|                                    | 100,000          | E36D630HPN104ME92M  | 3.000 × 3.625                     | E92            | 9.1                              | 14.20                                        |
|                                    | 120,000          | E36D630HPN124MEA5M  | 3.000 × 4.125                     | EA5            | 7.9                              | 16.10                                        |
|                                    | 150,000          | E36D630HPN154MED0M  | 3.000 × 5.125                     | ED0            | 6.2                              | 19.88                                        |
|                                    | 180,000          | E36D630HPN184MEE3M  | 3.000 × 5.625                     | EE3            | 5.9                              | 21.42                                        |
|                                    | 270,000          | E36D630HPN274MEN0M  | 3.000 × 8.625                     | EN0            | 4.1                              | 31.94                                        |

†For terminal, mounting and construction options, refer to the part numbering system for descriptions and codes.

\* Refer to diagram of dimensions for detailed case size specifications.

## Standard Voltage Ratings - Screw Terminals

| Rated Voltage (WVDC) | Capacitance (µF) | Global Part Number† | Nominal Case Size* D × L (inches) | Case Size Code | Maximum ESR (mΩ) at +25°C, 120Hz | Rated Ripple Current (A rms) at +85°C, 120Hz |
|----------------------|------------------|---------------------|-----------------------------------|----------------|----------------------------------|----------------------------------------------|
|----------------------|------------------|---------------------|-----------------------------------|----------------|----------------------------------|----------------------------------------------|

|                                     |         |                    |               |     |      |       |
|-------------------------------------|---------|--------------------|---------------|-----|------|-------|
| <b>80 Volts<br/>100 Volts Surge</b> | 2,700   | E36D800HPN272MA41M | 1.375 × 1.625 | A41 | 61.9 | 2.77  |
|                                     | 4,700   | E36D800HPN472MA54M | 1.375 × 2.125 | A54 | 36.4 | 3.87  |
|                                     | 5,600   | E36D800HPN562MA67M | 1.375 × 2.625 | A67 | 30.0 | 4.44  |
|                                     | 8,200   | E36D800HPN822MA79M | 1.375 × 3.125 | A79 | 21.7 | 5.65  |
|                                     | 10,000  | E36D800HPN103MA92M | 1.375 × 3.625 | A92 | 18.2 | 6.60  |
|                                     | 12,000  | E36D800HPN123MAA5M | 1.375 × 4.125 | AA5 | 15.6 | 7.56  |
|                                     | 15,000  | E36D800HPN153MAD0M | 1.375 × 5.125 | AD0 | 12.9 | 8.93  |
|                                     | 18,000  | E36D800HPN183MAE3M | 1.375 × 5.625 | AE3 | 12.8 | 9.99  |
|                                     | 5,600   | E36D800HPN562MC48M | 2.000 × 1.875 | C48 | 32.5 | 4.62  |
|                                     | 8,200   | E36D800HPN822MC54M | 2.000 × 2.125 | C54 | 23.2 | 5.59  |
|                                     | 12,000  | E36D800HPN123MC67M | 2.000 × 2.625 | C67 | 16.1 | 7.32  |
|                                     | 18,000  | E36D800HPN183MC79M | 2.000 × 3.125 | C79 | 13.0 | 9.22  |
|                                     | 22,000  | E36D800HPN223MC92M | 2.000 × 3.625 | C92 | 9.8  | 10.95 |
|                                     | 27,000  | E36D800HPN273MCA5M | 2.000 × 4.125 | CA5 | 9.8  | 12.39 |
|                                     | 33,000  | E36D800HPN333MCB7M | 2.000 × 4.625 | CB7 | 8.0  | 14.12 |
|                                     | 39,000  | E36D800HPN393MCE3M | 2.000 × 5.625 | CE3 | 6.3  | 16.65 |
|                                     | 27,000  | E36D800HPN273MD79M | 2.500 × 3.125 | D79 | 10.1 | 11.34 |
|                                     | 39,000  | E36D800HPN393MDA5M | 2.500 × 4.125 | DA5 | 7.4  | 15.07 |
|                                     | 56,000  | E36D800HPN563MDD0M | 2.500 × 5.125 | DD0 | 5.9  | 18.51 |
|                                     | 47,000  | E36D800HPN473ME92M | 3.000 × 3.625 | E92 | 8.7  | 14.52 |
|                                     | 56,000  | E36D800HPN563MEA5M | 3.000 × 4.125 | EA5 | 7.5  | 16.51 |
|                                     | 68,000  | E36D800HPN683MEB7M | 3.000 × 4.625 | EB7 | 6.7  | 18.28 |
|                                     | 82,000  | E36D800HPN823MED0M | 3.000 × 5.125 | ED0 | 6.2  | 19.88 |
|                                     | 100,000 | E36D800HPN104MEE3M | 3.000 × 5.625 | EE3 | 5.5  | 21.42 |
|                                     | 120,000 | E36D800HPN124MEN0M | 3.000 × 8.625 | EN0 | 4.1  | 31.53 |

|                                      |        |                    |               |     |      |       |
|--------------------------------------|--------|--------------------|---------------|-----|------|-------|
| <b>100 Volts<br/>125 Volts Surge</b> | 1,800  | E36D101HPN182MA41M | 1.375 × 1.625 | A41 | 72.1 | 2.57  |
|                                      | 2,700  | E36D101HPN272MA54M | 1.375 × 2.125 | A54 | 47.5 | 3.39  |
|                                      | 3,900  | E36D101HPN392MA67M | 1.375 × 2.625 | A67 | 33.6 | 4.21  |
|                                      | 4,700  | E36D101HPN472MA79M | 1.375 × 3.125 | A79 | 28.1 | 4.97  |
|                                      | 5,600  | E36D101HPN562MA92M | 1.375 × 3.625 | A92 | 23.6 | 6.22  |
|                                      | 8,200  | E36D101HPN822MAB7M | 1.375 × 4.625 | AB7 | 17.2 | 7.39  |
|                                      | 10,000 | E36D101HPN103MAD0M | 1.375 × 5.125 | AD0 | 14.7 | 8.41  |
|                                      | 3,900  | E36D101HPN392MC48M | 2.000 × 1.875 | C48 | 36.4 | 4.38  |
|                                      | 5,600  | E36D101HPN562MC54M | 2.000 × 2.125 | C54 | 26.2 | 5.41  |
|                                      | 8,200  | E36D101HPN822MC67M | 2.000 × 2.625 | C67 | 18.2 | 6.92  |
|                                      | 10,000 | E36D101HPN103MC79M | 2.000 × 3.125 | C79 | 14.8 | 8.23  |
|                                      | 15,000 | E36D101HPN153MC92M | 2.000 × 3.625 | C92 | 12.5 | 10.38 |
|                                      | 18,000 | E36D101HPN183MCB7M | 2.000 × 4.625 | CB7 | 9.0  | 12.65 |
|                                      | 22,000 | E36D101HPN223MCD0M | 2.000 × 5.125 | CD0 | 7.8  | 14.15 |
|                                      | 27,000 | E36D101HPN273MCE3M | 2.000 × 5.625 | CE3 | 7.6  | 15.91 |
|                                      | 18,000 | E36D101HPN183MD79M | 2.500 × 3.125 | D79 | 11.2 | 10.83 |
|                                      | 27,000 | E36D101HPN273MDA5M | 2.500 × 4.125 | DA5 | 8.0  | 14.41 |
|                                      | 33,000 | E36D101HPN333MDB7M | 2.500 × 4.625 | DB7 | 7.1  | 16.47 |
|                                      | 39,000 | E36D101HPN393MDE3M | 2.500 × 5.625 | DE3 | 6.0  | 19.15 |
|                                      | 33,000 | E36D101HPN333ME92M | 3.000 × 3.625 | E92 | 9.3  | 14.05 |
|                                      | 39,000 | E36D101HPN393MEA5M | 3.000 × 4.125 | EA5 | 8.0  | 16.00 |
|                                      | 47,000 | E36D101HPN473MEB7M | 3.000 × 4.625 | EB7 | 7.2  | 17.65 |
|                                      | 56,000 | E36D101HPN563MED0M | 3.000 × 5.125 | ED0 | 6.6  | 19.42 |
|                                      | 82,000 | E36D101HPN823MEN0M | 3.000 × 8.625 | EN0 | 4.3  | 30.41 |

|                                      |       |                    |               |     |       |      |
|--------------------------------------|-------|--------------------|---------------|-----|-------|------|
| <b>160 Volts<br/>200 Volts Surge</b> | 820   | E36D161HPN821MA41M | 1.375 × 1.625 | A41 | 202.0 | 1.95 |
|                                      | 1,500 | E36D161HPN152MA54M | 1.375 × 2.125 | A54 | 110.0 | 2.83 |
|                                      | 2,200 | E36D161HPN222MA67M | 1.375 × 2.625 | A67 | 76.9  | 3.57 |
|                                      | 2,700 | E36D161HPN272MA79M | 1.375 × 3.125 | A79 | 57.4  | 4.26 |
|                                      | 3,300 | E36D161HPN332MA92M | 1.375 × 3.625 | A92 | 51.1  | 5.05 |
|                                      | 3,900 | E36D161HPN392MAA5M | 1.375 × 4.125 | AA5 | 43.6  | 5.83 |
|                                      | 4,700 | E36D161HPN472MAB7M | 1.375 × 4.625 | AB7 | 36.7  | 6.55 |
|                                      | 5,600 | E36D161HPN562MAE3M | 1.375 × 5.625 | AE3 | 31.0  | 7.85 |

† For terminal, mounting and construction options, refer to the part numbering system for descriptions and codes.

\* Refer to diagram of dimensions for detailed case size specifications.

## Standard Voltage Ratings - Screw Terminals

| Rated Voltage (WVDC)                 | Capacitance (μF) | Global Part Number† | Nominal Case Size* D × L (inches) | Case Size Code | Maximum ESR (mΩ) at +25°C, 120Hz | Rated Ripple Current (A rms) at +85°C, 120Hz |
|--------------------------------------|------------------|---------------------|-----------------------------------|----------------|----------------------------------|----------------------------------------------|
| <b>160 Volts<br/>200 Volts Surge</b> | 2,200            | E36D161HPN222MC48M  | 2.000 × 1.875                     | C48            | 80.9                             | 3.86                                         |
|                                      | 2,700            | E36D161HPN272MC54M  | 2.000 × 2.125                     | C54            | 64.7                             | 4.49                                         |
|                                      | 3,900            | E36D161HPN392MC67M  | 2.000 × 2.625                     | C67            | 44.7                             | 5.73                                         |
|                                      | 5,600            | E36D161HPN562MC79M  | 2.000 × 3.125                     | C79            | 31.8                             | 7.37                                         |
|                                      | 8,200            | E36D161HPN822MC92M  | 2.000 × 3.625                     | C92            | 22.4                             | 9.53                                         |
|                                      | 10,000           | E36D161HPN103MCB7M  | 2.000 × 4.625                     | CB7            | 18.4                             | 11.71                                        |
|                                      | 12,000           | E36D161HPN123MCD0M  | 2.000 × 5.125                     | CD0            | 15.9                             | 13.46                                        |
|                                      | 10,000           | E36D161HPN103MD79M  | 2.500 × 3.125                     | D79            | 21.5                             | 11.23                                        |
|                                      | 15,000           | E36D161HPN153MDA5M  | 2.500 × 4.125                     | DA5            | 14.9                             | 15.52                                        |
|                                      | 18,000           | E36D161HPN183MDB7M  | 2.500 × 4.625                     | DB7            | 12.5                             | 17.82                                        |
|                                      | 22,000           | E36D161HPN223MDE3M  | 2.500 × 5.625                     | DE3            | 10.6                             | 21.54                                        |
|                                      | 18,000           | E36D161HPN183ME92M  | 3.000 × 3.625                     | E92            | 15.2                             | 17.74                                        |
|                                      | 22,000           | E36D161HPN223MEA5M  | 3.000 × 4.125                     | EA5            | 12.9                             | 20.73                                        |
|                                      | 27,000           | E36D161HPN273MED0M  | 3.000 × 5.125                     | ED0            | 10.3                             | 25.17                                        |
|                                      | 33,000           | E36D161HPN333MEE3M  | 3.000 × 5.625                     | EE3            | 9.2                              | 29.02                                        |
|                                      | 47,000           | E36D161HPN473MEN0M  | 3.000 × 8.625                     | EN0            | 6.7                              | 41.98                                        |
| <b>200 Volts<br/>250 Volts Surge</b> | 680              | E36D201HPN681MA41M  | 1.375 × 1.625                     | A41            | 205.0                            | 1.78                                         |
|                                      | 1,000            | E36D201HPN102MA54M  | 1.375 × 2.125                     | A54            | 137.0                            | 2.31                                         |
|                                      | 1,500            | E36D201HPN152MA67M  | 1.375 × 2.625                     | A67            | 92.0                             | 2.95                                         |
|                                      | 1,800            | E36D201HPN182MA79M  | 1.375 × 3.125                     | A79            | 76.6                             | 3.48                                         |
|                                      | 2,200            | E36D201HPN222MA92M  | 1.375 × 3.625                     | A92            | 63.0                             | 4.12                                         |
|                                      | 2,700            | E36D201HPN272MAA5M  | 1.375 × 4.125                     | AA5            | 51.8                             | 4.85                                         |
|                                      | 3,300            | E36D201HPN332MAB7M  | 1.375 × 4.625                     | AB7            | 43.0                             | 5.49                                         |
|                                      | 3,900            | E36D201HPN392MAD0M  | 1.375 × 5.125                     | AD0            | 36.8                             | 6.27                                         |
|                                      | 1,500            | E36D201HPN152MC48M  | 2.000 × 1.875                     | C48            | 97.1                             | 3.19                                         |
|                                      | 2,200            | E36D201HPN222MC54M  | 2.000 × 2.125                     | C54            | 67.0                             | 4.05                                         |
|                                      | 3,300            | E36D201HPN332MC67M  | 2.000 × 2.625                     | C67            | 44.8                             | 5.27                                         |
|                                      | 3,900            | E36D201HPN392MC79M  | 2.000 × 3.125                     | C79            | 37.4                             | 6.15                                         |
|                                      | 5,600            | E36D201HPN562MC92M  | 2.000 × 3.625                     | C92            | 26.6                             | 7.87                                         |
|                                      | 8,200            | E36D201HPN822MCB7M  | 2.000 × 4.625                     | CB7            | 18.9                             | 10.60                                        |
|                                      | 10,000           | E36D201HPN103MCE3M  | 2.000 × 5.625                     | CE3            | 15.7                             | 12.83                                        |
|                                      | 6,800            | E36D201HPN682MD79M  | 2.500 × 3.125                     | D79            | 24.9                             | 9.26                                         |
|                                      | 10,000           | E36D201HPN103MDA5M  | 2.500 × 4.125                     | DA5            | 17.3                             | 12.67                                        |
|                                      | 12,000           | E36D201HPN123MDB7M  | 2.500 × 4.625                     | DB7            | 14.5                             | 14.55                                        |
|                                      | 15,000           | E36D201HPN153MDE3M  | 2.500 × 5.625                     | DE3            | 12.1                             | 17.79                                        |
|                                      | 12,000           | E36D201HPN123ME92M  | 3.000 × 3.625                     | E92            | 17.0                             | 14.49                                        |
|                                      | 15,000           | E36D201HPN153MEA5M  | 3.000 × 4.125                     | EA5            | 14.3                             | 17.12                                        |
|                                      | 18,000           | E36D201HPN183MEB7M  | 3.000 × 4.625                     | EB7            | 12.4                             | 19.64                                        |
|                                      | 22,000           | E36D201HPN223MED0M  | 3.000 × 5.125                     | ED0            | 10.8                             | 22.72                                        |
|                                      | 33,000           | E36D201HPN333MEN0M  | 3.000 × 8.625                     | EN0            | 7.3                              | 35.17                                        |
| <b>250 Volts<br/>300 Volts Surge</b> | 470              | E36D251HPN471MA41M  | 1.375 × 1.625                     | A41            | 271.2                            | 1.48                                         |
|                                      | 820              | E36D251HPN821MA54M  | 1.375 × 2.125                     | A54            | 154.3                            | 2.09                                         |
|                                      | 1,200            | E36D251HPN122MA67M  | 1.375 × 2.625                     | A67            | 105.8                            | 2.64                                         |
|                                      | 1,500            | E36D251HPN152MA79M  | 1.375 × 3.125                     | A79            | 84.7                             | 3.18                                         |
|                                      | 1,800            | E36D251HPN182MA92M  | 1.375 × 3.625                     | A92            | 70.8                             | 3.73                                         |
|                                      | 2,200            | E36D251HPN222MAA5M  | 1.375 × 4.125                     | AA5            | 58.4                             | 4.38                                         |
|                                      | 2,700            | E36D251HPN272MAD0M  | 1.375 × 5.125                     | AD0            | 47.8                             | 5.21                                         |
|                                      | 3,300            | E36D251HPN332MAE3M  | 1.375 × 5.625                     | AE3            | 39.8                             | 6.03                                         |
|                                      | 1,200            | E36D251HPN122MC48M  | 2.000 × 1.875                     | C48            | 111.5                            | 2.85                                         |
|                                      | 1,500            | E36D251HPN152MC54M  | 2.000 × 2.125                     | C54            | 87.9                             | 3.34                                         |
|                                      | 2,200            | E36D251HPN222MC67M  | 2.000 × 2.625                     | C67            | 59.8                             | 4.31                                         |
|                                      | 3,300            | E36D251HPN332MC79M  | 2.000 × 3.125                     | C79            | 40.8                             | 5.66                                         |
|                                      | 3,900            | E36D251HPN392MC92M  | 2.000 × 3.625                     | C92            | 34.4                             | 6.57                                         |
|                                      | 4,700            | E36D251HPN472MCA5M  | 2.000 × 4.125                     | CA5            | 28.8                             | 7.65                                         |
|                                      | 5,600            | E36D251HPN562MCB7M  | 2.000 × 4.625                     | CB7            | 24.5                             | 8.76                                         |
|                                      | 6,800            | E36D251HPN682MCE3M  | 2.000 × 5.625                     | CE3            | 20.3                             | 10.58                                        |
|                                      | 4,700            | E36D251HPN472MD79M  | 2.500 × 3.125                     | D79            | 31.0                             | 7.70                                         |
|                                      | 8,200            | E36D251HPN822MDA5M  | 2.500 × 4.125                     | DA5            | 19.2                             | 11.47                                        |

†For terminal, mounting and construction options, refer to the part numbering system for descriptions and codes.

\*Refer to diagram of dimensions for detailed case size specifications.

## Standard Voltage Ratings - Screw Terminals

| Rated Voltage (WVDC)         | Capacitance (µF) | Global Part Number† | Nominal Case Size* D × L (inches) | Case Size Code | Maximum ESR (mΩ) at +25°C, 120Hz | Rated Ripple Current (A rms) at +85°C, 120Hz |
|------------------------------|------------------|---------------------|-----------------------------------|----------------|----------------------------------|----------------------------------------------|
| 250 Volts<br>300 Volts Surge | 10,000           | E36D251HPN103MDB7M  | 2.500 × 4.625                     | DB7            | 18.4                             | 13.28                                        |
|                              | 12,000           | E36D251HPN123MDE3M  | 2.500 × 5.625                     | DE3            | 13.6                             | 15.91                                        |
|                              | 10,000           | E36D251HPN103ME92M  | 3.000 × 3.625                     | E92            | 18.8                             | 13.22                                        |
|                              | 12,000           | E36D251HPN123MEA5M  | 3.000 × 4.125                     | EA5            | 15.9                             | 15.31                                        |
|                              | 15,000           | E36D251HPN153MED0M  | 3.000 × 5.125                     | ED0            | 12.6                             | 18.76                                        |
|                              | 18,000           | E36D251HPN183MEE3M  | 3.000 × 5.625                     | EE3            | 11.2                             | 21.43                                        |
|                              | 27,000           | E36D251HPN273MEN0M  | 3.000 × 8.625                     | EN0            | 7.7                              | 31.82                                        |
| 315 Volts<br>365 Volts Surge | 390              | E36D3B1HPN391MA54M  | 1.375 × 2.125                     | A54            | 513.0                            | 1.44                                         |
|                              | 560              | E36D3B1HPN391MA67M  | 1.375 × 2.625                     | A67            | 356.0                            | 1.80                                         |
|                              | 820              | E36D3B1HPN821MA79M  | 1.375 × 3.125                     | A79            | 243.0                            | 2.35                                         |
|                              | 1,000            | E36D3B1HPN102MA92M  | 1.375 × 3.625                     | A92            | 200.0                            | 2.78                                         |
|                              | 1,200            | E36D3B1HPN122MAB7M  | 1.375 × 4.625                     | AB7            | 166.0                            | 3.31                                         |
|                              | 1,500            | E36D3B1HPN152MAD0M  | 1.375 × 5.125                     | AD0            | 133.0                            | 3.89                                         |
|                              | 560              | E36D3B1HPN561MC48M  | 2.000 × 1.875                     | C48            | 366.0                            | 1.95                                         |
|                              | 820              | E36D3B1HPN821MC54M  | 2.000 × 2.125                     | C54            | 248.0                            | 2.47                                         |
|                              | 1,200            | E36D3B1HPN122MC67M  | 2.000 × 2.625                     | C67            | 168.0                            | 3.18                                         |
|                              | 1,500            | E36D3B1HPN152MC79M  | 2.000 × 3.125                     | C79            | 134.0                            | 3.81                                         |
|                              | 2,200            | E36D3B1HPN222MC92M  | 2.000 × 3.625                     | C92            | 92.0                             | 4.94                                         |
|                              | 2,700            | E36D3B1HPN272MCB7M  | 2.000 × 4.625                     | CB7            | 74.9                             | 6.09                                         |
|                              | 3,300            | E36D3B1HPN332MCD0M  | 2.000 × 5.125                     | CD0            | 61.8                             | 7.06                                         |
|                              | 3,900            | E36D3B1HPN392MCE3M  | 2.000 × 5.625                     | CE3            | 52.5                             | 8.01                                         |
|                              | 2,700            | E36D3B1HPN272MD79M  | 2.500 × 3.125                     | D79            | 77.5                             | 5.83                                         |
|                              | 3,900            | E36D3B1HPN392MDA5M  | 2.500 × 4.125                     | DA5            | 53.8                             | 7.91                                         |
|                              | 4,700            | E36D3B1HPN472MDB7M  | 2.500 × 4.625                     | DB7            | 44.7                             | 9.11                                         |
|                              | 5,600            | E36D3B1HPN562MDD0M  | 2.500 × 5.125                     | DD0            | 38.1                             | 10.41                                        |
|                              | 4,700            | E36D3B1HPN472ME92M  | 3.000 × 3.625                     | E92            | 46.8                             | 9.07                                         |
|                              | 5,600            | E36D3B1HPN562MEA5M  | 3.000 × 4.125                     | EA5            | 39.4                             | 10.46                                        |
|                              | 6,800            | E36D3B1HPN682MEB7M  | 3.000 × 4.625                     | EB7            | 32.9                             | 12.07                                        |
|                              | 8,200            | E36D3B1HPN822MED0M  | 3.000 × 5.125                     | ED0            | 27.8                             | 13.87                                        |
|                              | 15,000           | E36D3B1HPN153MEN0M  | 3.000 × 8.625                     | EN0            | 15.9                             | 23.71                                        |
| 350 Volts<br>400 Volts Surge | 220              | E36D351HPN221MA41M  | 1.375 × 1.625                     | A41            | 887.0                            | 1.17                                         |
|                              | 330              | E36D351HPN331MA54M  | 1.375 × 2.125                     | A54            | 545.0                            | 1.53                                         |
|                              | 470              | E36D351HPN471MA67M  | 1.375 × 2.625                     | A67            | 379.0                            | 1.91                                         |
|                              | 680              | E36D351HPN681MA79M  | 1.375 × 3.125                     | A79            | 262.0                            | 2.47                                         |
|                              | 820              | E36D351HPN821MA92M  | 1.375 × 3.625                     | A92            | 217.0                            | 2.91                                         |
|                              | 1,000            | E36D351HPN102MAA5M  | 1.375 × 4.125                     | AA5            | 178.0                            | 3.41                                         |
|                              | 1,200            | E36D351HPN122MAD0M  | 1.375 × 5.125                     | AD0            | 148.0                            | 4.01                                         |
|                              | 470              | E36D351HPN471MC48M  | 2.000 × 1.875                     | C48            | 390.0                            | 2.06                                         |
|                              | 680              | E36D351HPN681MC54M  | 2.000 × 2.125                     | C54            | 267.0                            | 2.60                                         |
|                              | 1,000            | E36D351HPN102MC67M  | 2.000 × 2.625                     | C67            | 180.0                            | 3.35                                         |
|                              | 1,200            | E36D351HPN122MC79M  | 2.000 × 3.125                     | C79            | 149.0                            | 3.94                                         |
|                              | 1,800            | E36D351HPN182MC92M  | 2.000 × 3.625                     | C92            | 100.0                            | 5.15                                         |
|                              | 2,200            | E36D351HPN222MCA5M  | 2.000 × 4.125                     | CA5            | 82.5                             | 6.04                                         |
|                              | 2,700            | E36D351HPN272MCB7M  | 2.000 × 4.625                     | CB7            | 67.3                             | 7.03                                         |
|                              | 3,300            | E36D351HPN332MCE3M  | 2.000 × 5.625                     | CE3            | 55.3                             | 8.51                                         |
|                              | 2,200            | E36D351HPN222MD79M  | 2.500 × 3.125                     | D79            | 84.5                             | 6.08                                         |
|                              | 3,300            | E36D351HPN332MDA5M  | 2.500 × 4.125                     | DA5            | 56.6                             | 8.40                                         |
|                              | 3,900            | E36D351HPN392MDB7M  | 2.500 × 4.625                     | DB7            | 47.9                             | 9.58                                         |
|                              | 4,700            | E36D351HPN472MDD0M  | 2.500 × 5.125                     | DD0            | 40.4                             | 11.02                                        |
|                              | 3,900            | E36D351HPN392ME92M  | 3.000 × 3.625                     | E92            | 49.9                             | 9.54                                         |
|                              | 4,700            | E36D351HPN472MEA5M  | 3.000 × 4.125                     | EA5            | 41.7                             | 11.06                                        |
|                              | 5,600            | E36D351HPN562MEB7M  | 3.000 × 4.625                     | EB7            | 35.3                             | 12.65                                        |
|                              | 6,800            | E36D351HPN682MED0M  | 3.000 × 5.125                     | ED0            | 29.6                             | 14.59                                        |
|                              | 8,200            | E36D351HPN822MEE3M  | 3.000 × 5.625                     | EE3            | 25.1                             | 16.70                                        |
|                              | 12,000           | E36D351HPN123MEN0M  | 3.000 × 8.625                     | EN0            | 17.4                             | 24.49                                        |
|                              | 6,800            | E36D351LLN682MFA5M  | 3.500 × 4.125                     | FA5            | 32.0                             | 11.39                                        |
|                              | 8,200            | E36D351LLN822MFB7M  | 3.500 × 4.625                     | FB7            | 27.0                             | 12.88                                        |
|                              | 10,000           | E36D351LLN103MFE3M  | 3.500 × 5.625                     | FE3            | 23.0                             | 15.17                                        |

† For terminal, mounting and construction options, refer to the part numbering system for descriptions and codes.

\* Refer to diagram of dimensions for detailed case size specifications.

## Standard Voltage Ratings - Screw Terminals

| Rated Voltage (WVDC)         | Capacitance (μF) | Global Part Number† | Nominal Case Size* D × L (inches) | Case Size Code | Maximum ESR (mΩ) at +25°C, 120Hz | Rated Ripple Current (A rms) at +85°C, 120Hz |
|------------------------------|------------------|---------------------|-----------------------------------|----------------|----------------------------------|----------------------------------------------|
| 400 Volts<br>450 Volts Surge | 180              | E36D401HPN181MA41M  | 1.375 × 1.625                     | A41            | 921.0                            | 1.06                                         |
|                              | 330              | E36D401HPN331MA54M  | 1.375 × 2.125                     | A54            | 495.0                            | 1.53                                         |
|                              | 390              | E36D401HPN391MA67M  | 1.375 × 2.625                     | A67            | 416.0                            | 1.74                                         |
|                              | 560              | E36D401HPN561MA79M  | 1.375 × 3.125                     | A79            | 289.0                            | 2.24                                         |
|                              | 680              | E36D401HPN681MA92M  | 1.375 × 3.625                     | A92            | 238.0                            | 2.65                                         |
|                              | 820              | E36D401HPN821MAA5M  | 1.375 × 4.125                     | AA5            | 197.0                            | 3.09                                         |
|                              | 1,000            | E36D401HPN102MAB7M  | 1.375 × 4.625                     | AB7            | 162.0                            | 3.49                                         |
|                              | 1,200            | E36D401HPN122MAE3M  | 1.375 × 5.625                     | AE3            | 135.0                            | 4.20                                         |
|                              | 390              | E36D401HPN391MC48M  | 2.000 × 1.875                     | C48            | 416.0                            | 1.88                                         |
|                              | 560              | E36D401HPN561MC54M  | 2.000 × 2.125                     | C54            | 295.0                            | 2.36                                         |
|                              | 820              | E36D401HPN821MC67M  | 2.000 × 2.625                     | C67            | 200.0                            | 3.04                                         |
|                              | 1,200            | E36D401HPN122MC79M  | 2.000 × 3.125                     | C79            | 137.0                            | 3.94                                         |
|                              | 1,500            | E36D401HPN152MC92M  | 2.000 × 3.625                     | C92            | 109.0                            | 4.71                                         |
|                              | 1,800            | E36D401HPN182MCA5M  | 2.000 × 4.125                     | CA5            | 91.5                             | 5.47                                         |
|                              | 2,200            | E36D401HPN222MCB7M  | 2.000 × 4.625                     | CB7            | 75.0                             | 6.34                                         |
|                              | 2,700            | E36D401HPN272MCE3M  | 2.000 × 5.625                     | CE3            | 61.3                             | 7.70                                         |
|                              | 1,800            | E36D401HPN182MD79M  | 2.500 × 3.125                     | D79            | 93.5                             | 5.50                                         |
|                              | 2,700            | E36D401HPN272MDA5M  | 2.500 × 4.125                     | DA5            | 62.6                             | 7.60                                         |
|                              | 3,900            | E36D401HPN392MDB7M  | 2.500 × 4.625                     | DB7            | 44.2                             | 9.58                                         |
|                              | 4,700            | E36D401HPN472MDE3M  | 2.500 × 5.625                     | DE3            | 37.0                             | 11.50                                        |
|                              | 3,900            | E36D401HPN392ME92M  | 3.000 × 3.625                     | E92            | 46.5                             | 9.54                                         |
|                              | 4,700            | E36D401HPN472MEA5M  | 3.000 × 4.125                     | EA5            | 38.8                             | 11.06                                        |
|                              | 5,600            | E36D401HPN562MED0M  | 3.000 × 5.125                     | ED0            | 32.3                             | 13.24                                        |
|                              | 6,800            | E36D401HPN682MEE3M  | 3.000 × 5.625                     | EE3            | 27.1                             | 15.21                                        |
|                              | 10,000           | E36D401HPN103MEN0M  | 3.000 × 8.625                     | EN0            | 18.7                             | 22.36                                        |
|                              | 5,600            | E36D401LLN562MFA5M  | 3.500 × 4.125                     | FA5            | 37.0                             | 10.59                                        |
|                              | 6,800            | E36D401LLN682MFB7M  | 3.500 × 4.625                     | FB7            | 31.0                             | 12.02                                        |
|                              | 8,200            | E36D401LLN822MFD0M  | 3.500 × 5.125                     | FD0            | 26.0                             | 13.82                                        |
| 450 Volts<br>500 Volts Surge | 150              | E36D451HPN151MA41M  | 1.375 × 1.625                     | A41            | 1,687.8                          | 0.96                                         |
|                              | 270              | E36D451HPN271MA54M  | 1.375 × 2.125                     | A54            | 923.3                            | 1.39                                         |
|                              | 330              | E36D451HPN331MA67M  | 1.375 × 2.625                     | A67            | 749.9                            | 1.60                                         |
|                              | 470              | E36D451HPN471MA79M  | 1.375 × 3.125                     | A79            | 525.5                            | 2.05                                         |
|                              | 560              | E36D451HPN561MA92M  | 1.375 × 3.625                     | A92            | 440.3                            | 2.40                                         |
|                              | 680              | E36D451HPN681MAA5M  | 1.375 × 4.125                     | AA5            | 362.5                            | 2.81                                         |
|                              | 820              | E36D451HPN821MAB7M  | 1.375 × 4.625                     | AB7            | 300.7                            | 3.16                                         |
|                              | 1,000            | E36D451HPN102MAE3M  | 1.375 × 5.625                     | AE3            | 246.6                            | 3.83                                         |
|                              | 330              | E36D451HPN331MC48M  | 2.000 × 1.875                     | C48            | 653.4                            | 1.73                                         |
|                              | 470              | E36D451HPN471MC54M  | 2.000 × 2.125                     | C54            | 535.9                            | 2.16                                         |
|                              | 680              | E36D451HPN681MC67M  | 2.000 × 2.625                     | C67            | 366.8                            | 2.76                                         |
|                              | 1,000            | E36D451HPN102MC79M  | 2.000 × 3.125                     | C79            | 249.0                            | 3.60                                         |
|                              | 1,200            | E36D451HPN122MC92M  | 2.000 × 3.625                     | C92            | 207.1                            | 4.21                                         |
|                              | 1,500            | E36D451HPN152MCA5M  | 2.000 × 4.125                     | CA5            | 165.8                            | 4.99                                         |
|                              | 1,800            | E36D451HPN182MCB7M  | 2.000 × 4.625                     | CB7            | 138.3                            | 5.74                                         |
|                              | 2,200            | E36D451HPN222MCE3M  | 2.000 × 5.625                     | CE3            | 113.2                            | 6.95                                         |
|                              | 1,500            | E36D451HPN152MD79M  | 2.500 × 3.125                     | D79            | 168.2                            | 5.02                                         |
|                              | 2,200            | E36D451HPN222MDA5M  | 2.500 × 4.125                     | DA5            | 114.5                            | 6.86                                         |
|                              | 2,700            | E36D451HPN272MDB7M  | 2.500 × 4.625                     | DB7            | 93.7                             | 7.97                                         |
|                              | 3,300            | E36D451HPN332MDD0M  | 2.500 × 5.125                     | DD0            | 77.1                             | 9.23                                         |
|                              | 3,900            | E36D451HPN392MDE3M  | 2.500 × 5.625                     | DE3            | 65.6                             | 10.47                                        |
|                              | 2,700            | E36D451HPN272ME92M  | 3.000 × 3.625                     | E92            | 95.6                             | 7.93                                         |
|                              | 3,900            | E36D451HPN392MEA5M  | 3.000 × 4.125                     | EA5            | 78.4                             | 10.08                                        |
|                              | 4,700            | E36D451HPN472MED0M  | 3.000 × 5.125                     | ED0            | 55.7                             | 12.13                                        |
|                              | 5,600            | E36D451HPN562MEE3M  | 3.000 × 5.625                     | EE3            | 47.2                             | 13.80                                        |
|                              | 8,200            | E36D451HPN822MEN0M  | 3.000 × 8.625                     | EN0            | 32.4                             | 20.25                                        |
|                              | 4,700            | E36D451LLN472MFA5M  | 3.500 × 4.125                     | FA5            | 67.0                             | 7.87                                         |
|                              | 5,600            | E36D451LLN562MFB7M  | 3.500 × 4.625                     | FB7            | 56.0                             | 8.94                                         |
|                              | 6,800            | E36D451LLN682MFD0M  | 3.500 × 5.125                     | FD0            | 47.0                             | 10.28                                        |

†For terminal, mounting and construction options, refer to the part numbering system for descriptions and codes.

\*Refer to diagram of dimensions for detailed case size specifications.

## Standard Voltage Ratings - Screw Terminals

| Rated Voltage (WVDC)         | Capacitance (μF) | Global Part Number† | Nominal Case Size* D × L (inches) | Case Size Code | Maximum ESR (mΩ) at +25°C, 120Hz | Rated Ripple Current (A rms) at +85°C, 120Hz |
|------------------------------|------------------|---------------------|-----------------------------------|----------------|----------------------------------|----------------------------------------------|
| 500 Volts<br>550 Volts Surge | 100              | E36D501HPN101MA41M  | 1.375 × 1.625                     | A41            | 3,918.0                          | 0.60                                         |
|                              | 180              | E36D501HPN181MA54M  | 1.375 × 2.125                     | A54            | 2,141.0                          | 0.87                                         |
|                              | 220              | E36D501HPN221MA67M  | 1.375 × 2.625                     | A67            | 1,739.0                          | 1.00                                         |
|                              | 330              | E36D501HPN331MA79M  | 1.375 × 3.125                     | A79            | 1,155.0                          | 1.32                                         |
|                              | 390              | E36D501HPN391MA92M  | 1.375 × 3.625                     | A92            | 975.0                            | 1.54                                         |
|                              | 470              | E36D501HPN471MAA5M  | 1.375 × 4.125                     | AA5            | 808.0                            | 1.79                                         |
|                              | 560              | E36D501HPN561MAB7M  | 1.375 × 4.625                     | AB7            | 677.0                            | 2.00                                         |
|                              | 680              | E36D501HPN681MAE3M  | 1.375 × 5.625                     | AE3            | 557.0                            | 2.42                                         |
|                              | 220              | E36D501HPN221MC48M  | 2.000 × 1.875                     | C48            | 1,453.0                          | 1.08                                         |
|                              | 330              | E36D501HPN331MC54M  | 2.000 × 2.125                     | C54            | 1,177.0                          | 1.39                                         |
|                              | 470              | E36D501HPN471MC67M  | 2.000 × 2.625                     | C67            | 817.0                            | 1.76                                         |
|                              | 680              | E36D501HPN681MC79M  | 2.000 × 3.125                     | C79            | 563.0                            | 2.27                                         |
|                              | 820              | E36D501HPN821MC92M  | 2.000 × 3.625                     | C92            | 465.0                            | 2.67                                         |
|                              | 1,000            | E36D501HPN102MCA5M  | 2.000 × 4.125                     | CA5            | 381.0                            | 3.12                                         |
|                              | 1,200            | E36D501HPN122MCB7M  | 2.000 × 4.625                     | CB7            | 317.0                            | 3.59                                         |
|                              | 1,500            | E36D501HPN152MCE3M  | 2.000 × 5.625                     | CE3            | 253.0                            | 4.40                                         |
|                              | 1,000            | E36D501HPN102MD79M  | 2.500 × 3.125                     | D79            | 320.0                            | 3.14                                         |
|                              | 1,500            | E36D501HPN152MDA5M  | 2.500 × 4.125                     | DA5            | 213.0                            | 4.35                                         |
|                              | 2,200            | E36D501HPN222MDB7M  | 2.500 × 4.625                     | DB7            | 212.0                            | 5.52                                         |
|                              | 2,200            | E36D501HPN222ME92M  | 3.000 × 3.625                     | E92            | 175.0                            | 5.49                                         |
|                              | 2,700            | E36D501HPN272MEB7M  | 3.000 × 4.625                     | EB7            | 142.0                            | 6.74                                         |
|                              | 3,900            | E36D501HPN392MEE3M  | 3.000 × 5.625                     | EE3            | 99.0                             | 8.83                                         |
|                              | 5,600            | E36D501HPN562MEN0M  | 3.000 × 8.625                     | EN0            | 69.0                             | 12.83                                        |
|                              | 3,900            | E36D501LLN392MFA5M  | 3.500 × 4.125                     | FA5            | 131.0                            | 5.63                                         |
|                              | 4,700            | E36D501LLN472MFB7M  | 3.500 × 4.625                     | FB7            | 109.0                            | 6.62                                         |
|                              | 5,600            | E36D501LLN562MFD0M  | 3.500 × 5.125                     | FD0            | 92.0                             | 7.35                                         |
|                              | 6,800            | E36D501LLN682MFE3M  | 3.500 × 5.625                     | FE3            | 76.0                             | 8.35                                         |
| 550 Volts<br>600 Volts Surge | 68               | E36D551HPN680MA41M  | 1.375 × 1.625                     | A41            | 3,997.0                          | 0.50                                         |
|                              | 120              | E36D551HPN121MA54M  | 1.375 × 2.125                     | A54            | 2,227.0                          | 0.71                                         |
|                              | 150              | E36D551HPN151MA67M  | 1.375 × 2.625                     | A67            | 1,769.0                          | 0.83                                         |
|                              | 220              | E36D551HPN221MA79M  | 1.375 × 3.125                     | A79            | 1,202.0                          | 1.08                                         |
|                              | 270              | E36D551HPN271MA92M  | 1.375 × 3.625                     | A92            | 977.0                            | 1.28                                         |
|                              | 330              | E36D551HPN331MAB7M  | 1.375 × 4.625                     | AB7            | 797.0                            | 1.54                                         |
|                              | 390              | E36D551HPN391MAD0M  | 1.375 × 5.125                     | AD0            | 674.0                            | 1.75                                         |
|                              | 470              | E36D551HPN471MAE3M  | 1.375 × 5.625                     | AE3            | 559.0                            | 2.01                                         |
|                              | 220              | E36D551HPN221MC54M  | 2.000 × 2.125                     | C54            | 1,224.0                          | 1.13                                         |
|                              | 330              | E36D551HPN331MC67M  | 2.000 × 2.625                     | C67            | 808.0                            | 1.48                                         |
|                              | 470              | E36D551HPN471MC79M  | 2.000 × 3.125                     | C79            | 565.0                            | 1.89                                         |
|                              | 560              | E36D551HPN561MC92M  | 2.000 × 3.625                     | C92            | 472.0                            | 2.21                                         |
|                              | 680              | E36D551HPN681MCA5M  | 2.000 × 4.125                     | CA5            | 388.0                            | 2.58                                         |
|                              | 820              | E36D551HPN821MCB7M  | 2.000 × 4.625                     | CB7            | 322.0                            | 2.97                                         |
|                              | 1,000            | E36D551HPN102MCE3M  | 2.000 × 5.625                     | CE3            | 263.0                            | 3.59                                         |
|                              | 680              | E36D551HPN681MD79M  | 2.500 × 3.125                     | D79            | 391.0                            | 2.59                                         |
|                              | 1,000            | E36D551HPN102MDA5M  | 2.500 × 4.125                     | DA5            | 265.0                            | 3.89                                         |
|                              | 1,200            | E36D551HPN122MDB7M  | 2.500 × 4.625                     | DB7            | 220.0                            | 4.56                                         |
|                              | 1,500            | E36D551HPN152MDE3M  | 2.500 × 5.625                     | DE3            | 176.0                            | 5.46                                         |
|                              | 1,200            | E36D551HPN122ME92M  | 3.000 × 3.625                     | E92            | 222.0                            | 4.06                                         |
|                              | 1,500            | E36D551HPN152MEA5M  | 3.000 × 4.125                     | EA5            | 178.0                            | 4.79                                         |
|                              | 1,800            | E36D551HPN182MEB7M  | 3.000 × 4.625                     | EB7            | 148.0                            | 5.50                                         |
|                              | 2,200            | E36D551HPN222MED0M  | 3.000 × 5.125                     | ED0            | 121.0                            | 6.36                                         |
|                              | 3,900            | E36D551HPN392MEN0M  | 3.000 × 8.625                     | EN0            | 69.0                             | 10.71                                        |
|                              | 1,800            | E36D551LLN182MFA5M  | 3.500 × 4.125                     | FA5            | 159.0                            | 5.11                                         |
|                              | 2,200            | E36D551LLN222MFB7M  | 3.500 × 4.625                     | FB7            | 130.0                            | 6.06                                         |
|                              | 2,700            | E36D551LLN272MFD0M  | 3.500 × 5.125                     | FD0            | 107.0                            | 6.81                                         |
|                              | 3,300            | E36D551LLN332MFE3M  | 3.500 × 5.625                     | FE3            | 88.0                             | 7.76                                         |

† For terminal, mounting and construction options, refer to the part numbering system for descriptions and codes.

\* Refer to diagram of dimensions for detailed case size specifications.