

**LSW** SERIES

Load Life : 105°C 3000 hours



**SPECIFICATIONS**

| Items                          | Characteristics   |            |     |     |     |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------|---|------------|-----|-----|-----|---------------|--------------------|-----------------------------------|--------------------|--|-----------------|------------------------------------|--|----|------|-----|-----|-----|-----|---------------|----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|----|------|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Category Temperature Range     | -40~+105°C  | -25~+105°C |     |     |     |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rated Voltage Range            | 10~100Vdc   | 160~400Vdc |     |     |     |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Capacitance Tolerance          | ±20% (20°C, 120Hz)  |            |     |     |     |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Leakage Current(MAX)           | I=0.02CV or 5mA whichever is smaller. (After 5 minutes application of rated voltage)<br>I=Leakage Current(μA)      C=Capacitance(μF)      V=Rated Voltage(Vdc)  |            |     |     |     |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dissipation Factor(MAX) (tanδ) | <table border="1"> <thead> <tr> <th>Vdc \ φD</th> <th>36</th> <th>51</th> <th>64</th> <th>77</th> <th>90</th> <th></th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.75</td> <td>1.0</td> <td>1.3</td> <td>1.5</td> <td>1.5</td> <td rowspan="6">(20°C, 120Hz)</td> </tr> <tr> <td>16</td> <td>0.6</td> <td>0.7</td> <td>0.8</td> <td>1.0</td> <td>1.0</td> </tr> <tr> <td>25</td> <td>0.4</td> <td>0.5</td> <td>0.7</td> <td>0.8</td> <td>0.8</td> </tr> <tr> <td>35</td> <td>0.3</td> <td>0.5</td> <td>0.6</td> <td>0.7</td> <td>0.7</td> </tr> <tr> <td>50</td> <td>0.25</td> <td>0.3</td> <td>0.5</td> <td>0.6</td> <td>0.6</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> |            |     |     |     |               | Vdc \ φD           | 36                                | 51                 | 64   | 77              | 90                                 |  | 10 | 0.75 | 1.0 | 1.3 | 1.5 | 1.5 | (20°C, 120Hz) | 16 | 0.6 | 0.7 | 0.8 | 1.0 | 1.0 | 25 | 0.4 | 0.5 | 0.7 | 0.8 | 0.8 | 35 | 0.3 | 0.5 | 0.6 | 0.7 | 0.7 | 50 | 0.25 | 0.3 | 0.5 | 0.6 | 0.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vdc \ φD                       | 36  | 51         | 64  | 77  | 90  |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                             | 0.75  | 1.0        | 1.3 | 1.5 | 1.5 | (20°C, 120Hz) |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16                             | 0.6   | 0.7        | 0.8 | 1.0 | 1.0 |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                             | 0.4   | 0.5        | 0.7 | 0.8 | 0.8 |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                             | 0.3   | 0.5        | 0.6 | 0.7 | 0.7 |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                             | 0.25  | 0.3        | 0.5 | 0.6 | 0.6 |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                |   |            |     |     |     |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                |   |            |     |     |     |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                |   |            |     |     |     |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                |   |            |     |     |     |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                |   |            |     |     |     |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                |   |            |     |     |     |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Endurance                      | <p>After applying rated voltage with rated ripple current for 3000 hours at 105°C, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±15% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 175% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>   |            |     |     |     |               | Capacitance Change | Within ±15% of the initial value. | Dissipation Factor | Not more than 175% of the specified value. | Leakage Current | Not more than the specified value. |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Capacitance Change             | Within ±15% of the initial value.   |            |     |     |     |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dissipation Factor             | Not more than 175% of the specified value.  |            |     |     |     |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Leakage Current                | Not more than the specified value.  |            |     |     |     |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shelf Life                     | <p>After storage for 500 hours with no voltage applied at 105°C, the capacitors shall be subjected to the voltage treatment in JIS C 5101-4 item 4.1 and shall be meet the following requirements.</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±15% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 150% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>   |            |     |     |     |               | Capacitance Change | Within ±15% of the initial value. | Dissipation Factor | Not more than 150% of the specified value. | Leakage Current | Not more than the specified value. |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Capacitance Change             | Within ±15% of the initial value.   |            |     |     |     |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dissipation Factor             | Not more than 150% of the specified value.  |            |     |     |     |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Leakage Current                | Not more than the specified value.  |            |     |     |     |               |                    |                                   |                    |  |                 |                                    |  |    |      |     |     |     |     |               |    |     |     |     |     |     |    |     |     |     |     |     |    |     |     |     |     |     |    |      |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**MULTIPLIER FOR RIPPLE CURRENT**

| Frequency (Hz) |            | 60(50) | 120(100) | 300  | 500  | 10k≤ |
|----------------|------------|--------|----------|------|------|------|
| Coefficient    | 10~50Vdc   | 0.80   | 1.00     | 1.03 | 1.04 | 1.08 |
|                | 63~100Vdc  | 0.80   | 1.00     | 1.04 | 1.05 | 1.10 |
|                | 160~400Vdc | 0.80   | 1.00     | 1.06 | 1.10 | 1.18 |

**PART NUMBER**



**DIMENSIONS**

(mm)

|        | φD | W1   | W2   | W3  | W4  | W5 | F    |
|--------|----|------|------|-----|-----|----|------|
| I type | 36 | 24.0 | 30.0 | 3.5 | 7.0 | 10 | 12.7 |
|        | 51 | 34.0 | 40.0 | 3.5 | 6.0 | 12 | 21.8 |
|        | 64 | 40.0 | 45.0 | 4.5 | 7.0 | 12 | 28.2 |
|        | 77 | 47.0 | 53.0 | 4.5 | 6.0 | 12 | 31.4 |
| Y type | 90 | 54.0 | 60.0 | 4.5 | 6.0 | 14 | 31.4 |
|        | 51 | 32.5 | 37.5 | 4.5 | 6.0 | 12 | 21.8 |
|        | 64 | 38.0 | 43.0 | 4.5 | 8.0 | 14 | 28.2 |
|        | 77 | 44.5 | 49.0 | 4.5 | 7.0 | 14 | 31.4 |
|        | 90 | 50.8 | 56.0 | 4.5 | 8.0 | 16 | 31.4 |

**◆STANDARD SIZE**

| Cap(μF) \ Vdc | 10     |      | 16     |      | 25     |       | 35     |       | 50     |       | 63     |        | 80     |        |     |  |
|---------------|--------|------|--------|------|--------|-------|--------|-------|--------|-------|--------|--------|--------|--------|-----|--|
| 3300          |        |      |        |      |        |       |        |       |        |       |        |        | 36×50  | 3.0    |     |  |
| 3900          |        |      |        |      |        |       |        |       |        |       |        |        | 36×63  | 3.3    |     |  |
| 4700          |        |      |        |      |        |       |        |       |        |       |        | 36×50  | 3.2    | 36×83  | 3.6 |  |
| 5600          |        |      |        |      |        |       |        |       |        |       |        | 36×63  | 3.5    | 36×83  | 3.9 |  |
| 6800          |        |      |        |      |        |       |        | 36×50 | 2.5    | 36×50 | 3.6    | 36×63  | 3.8    | 36×83  | 4.3 |  |
| 8200          |        |      |        |      |        |       |        | 36×50 | 2.8    | 36×63 | 3.9    | 36×83  | 4.3    | 36×98  | 5.1 |  |
| 10000         |        |      |        |      |        |       |        | 36×50 | 3.8    | 36×83 | 4.2    | 36×83  | 4.7    | 36×118 | 5.8 |  |
| 12000         |        |      |        |      |        |       |        | 36×63 | 4.3    | 36×83 | 5.0    | 36×98  | 5.6    | 51×83  | 7.0 |  |
| 15000         |        |      |        |      |        | 36×50 | 4.2    | 36×83 | 4.7    | 36×98 | 5.5    | 36×118 | 6.4    | 51×83  | 7.6 |  |
| 18000         |        |      |        |      |        | 36×63 | 4.6    | 36×83 | 5.1    | 36×98 | 5.7    | 51×83  | 7.5    | 51×98  | 7.7 |  |
| 22000         |        |      | 36×50  | 4.0  | 36×83  | 5.2   | 36×98  | 6.6   | 36×118 | 7.5   | 51×83  | 7.5    | 51×118 | 9.0    |     |  |
| 27000         | 36×50  | 4.4  | 36×63  | 5.0  | 36×83  | 5.4   | 36×118 | 6.7   | 51×83  | 7.5   | 51×98  | 8.7    | 64×99  | 10.1   |     |  |
| 33000         | 36×63  | 5.5  | 36×83  | 5.2  | 36×98  | 6.5   | 51×83  | 7.1   | 51×98  | 9.3   | 51×118 | 10.3   | 64×119 | 11.6   |     |  |
| 39000         | 36×63  | 6.0  | 36×83  | 5.8  | 36×98  | 7.5   | 51×83  | 8.4   | 51×98  | 9.4   | 64×99  | 11.2   | 64×139 | 13.5   |     |  |
| 47000         | 36×83  | 6.6  | 36×98  | 6.8  | 36×118 | 8.9   | 51×98  | 9.9   | 51×118 | 11.7  | 64×119 | 12.9   | 77×101 | 15.8   |     |  |
| 56000         | 36×83  | 7.5  | 36×98  | 6.9  | 51×83  | 10.0  | 51×98  | 10.3  | 64×99  | 12.4  | 64×139 | 15.2   | 77×121 | 17.0   |     |  |
| 68000         | 36×98  | 7.6  | 36×118 | 8.4  | 51×83  | 10.7  | 51×118 | 11.4  | 64×119 | 15.1  | 77×101 | 16.0   | 77×141 | 20.4   |     |  |
| 82000         | 36×118 | 9.0  | 51×83  | 8.4  | 51×98  | 12.0  | 64×99  | 12.5  | 77×101 | 15.5  | 77×121 | 17.7   | 77×151 | 21.5   |     |  |
| 100000        | 51×83  | 10.2 | 51×98  | 11.3 | 51×118 | 13.1  | 64×119 | 15.5  | 77×101 | 16.3  | 77×141 | 21.5   | 90×151 | 22.3   |     |  |
| 120000        | 51×83  | 11.0 | 51×98  | 11.4 | 64×99  | 13.7  | 77×101 | 15.5  | 77×121 | 19.1  | 90×141 | 22.4   |        |        |     |  |
| 150000        | 51×98  | 13.4 | 51×118 | 12.5 | 64×119 | 16.4  | 77×121 | 17.9  | 77×141 | 23.4  |        |        |        |        |     |  |
| 180000        | 51×118 | 14.0 | 64×99  | 14.2 | 77×101 | 16.7  | 77×141 | 20.0  | 90×141 | 23.7  |        |        |        |        |     |  |
| 220000        | 64×99  | 14.5 | 64×119 | 16.6 | 77×121 | 20.5  | 77×151 | 24.1  |        |       |        |        |        |        |     |  |
| 270000        | 64×119 | 16.0 | 77×101 | 17.5 | 77×141 | 21.3  | 90×141 | 26.5  |        |       |        |        |        |        |     |  |
| 330000        | 77×101 | 18.0 | 77×121 | 24.3 | 77×151 | 26.0  |        |       |        |       |        |        |        |        |     |  |
| 390000        | 77×101 | 19.5 | 77×141 | 25.2 | 90×141 | 27.2  |        |       |        |       |        |        |        |        |     |  |
| 470000        | 77×121 | 20.0 | 77×151 | 26.7 |        |       |        |       |        |       |        |        |        |        |     |  |
| 560000        | 77×141 | 24.1 | 90×141 | 29.1 |        |       |        |       |        |       |        |        |        |        |     |  |
| 680000        | 90×141 | 26.5 |        |      |        |       |        |       |        |       |        |        |        |        |     |  |

| Cap(μF) \ Vdc | 100    |      | 160    |      | 200    |       | 250    |       | 315    |       | 350    |       | 400    |       |     |  |  |
|---------------|--------|------|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-----|--|--|
| 220           |        |      |        |      |        |       |        |       |        |       | 36×50  | 0.9   | 36×50  | 1.0   |     |  |  |
| 270           |        |      |        |      |        |       |        |       |        | 36×50 | 1.0    | 36×50 | 1.0    | 36×63 | 1.0 |  |  |
| 330           |        |      |        |      |        |       |        |       |        | 36×50 | 1.2    | 36×63 | 1.2    | 36×63 | 1.2 |  |  |
| 390           |        |      |        |      |        |       |        |       |        | 36×63 | 1.3    | 36×83 | 1.3    | 36×83 | 1.4 |  |  |
| 470           |        |      |        |      |        |       | 36×50  | 1.3   | 36×83  | 1.5   | 36×83  | 1.5   | 36×98  | 1.5   |     |  |  |
| 560           |        |      |        |      |        | 36×50 | 1.4    | 36×63 | 1.6    | 36×83 | 1.6    | 36×98 | 1.7    | 36×98 | 1.7 |  |  |
| 680           |        |      |        |      |        | 36×50 | 1.5    | 36×83 | 1.7    | 36×98 | 1.9    | 36×98 | 1.9    | 51×83 | 2.3 |  |  |
| 820           |        |      | 36×50  | 1.4  | 36×83  | 1.9   | 36×83  | 1.9   | 36×118 | 2.2   | 36×118 | 2.1   | 51×98  | 2.4   |     |  |  |
| 1000          |        |      | 36×63  | 1.9  | 36×83  | 2.2   | 36×98  | 2.3   | 51×83  | 2.3   | 51×98  | 2.5   | 51×118 | 2.7   |     |  |  |
| 1200          |        |      | 36×83  | 2.3  | 36×83  | 2.3   | 36×98  | 2.4   | 51×98  | 2.7   | 51×98  | 2.7   | 51×118 | 3.0   |     |  |  |
| 1500          |        |      | 36×83  | 2.6  | 36×98  | 2.9   | 36×118 | 2.9   | 51×98  | 3.1   | 51×118 | 3.3   | 64×99  | 3.5   |     |  |  |
| 1800          |        |      | 36×83  | 2.6  | 36×98  | 2.9   | 36×118 | 3.0   | 51×118 | 3.6   | 64×99  | 3.8   | 64×119 | 3.6   |     |  |  |
| 2200          | 36×50  | 2.9  | 36×98  | 3.2  | 36×118 | 3.3   | 51×98  | 3.8   | 64×99  | 4.2   | 64×119 | 4.6   | 77×101 | 4.1   |     |  |  |
| 2700          | 36×63  | 3.4  | 36×118 | 3.2  | 51×83  | 3.8   | 51×118 | 4.5   | 64×119 | 4.3   | 77×101 | 4.6   | 77×121 | 4.8   |     |  |  |
| 3300          | 36×83  | 3.9  | 36×118 | 3.7  | 51×98  | 4.7   | 64×99  | 5.2   | 77×101 | 4.9   | 77×121 | 5.3   | 77×141 | 5.7   |     |  |  |
| 3900          | 36×83  | 4.2  | 51×98  | 4.3  | 51×118 | 5.4   | 64×119 | 5.2   | 77×121 | 5.8   | 77×141 | 6.2   | 90×141 | 6.7   |     |  |  |
| 4700          | 36×83  | 4.6  | 51×98  | 4.8  | 64×99  | 6.2   | 64×119 | 5.7   | 77×121 | 6.3   | 90×141 | 7.4   | 90×141 | 7.4   |     |  |  |
| 5600          | 36×98  | 4.9  | 51×118 | 5.5  | 64×99  | 6.3   | 77×101 | 6.4   | 77×141 | 7.3   | 90×141 | 8.1   |        |       |     |  |  |
| 6800          | 36×118 | 5.5  | 64×99  | 6.3  | 64×119 | 7.3   | 77×121 | 7.6   | 90×141 | 8.9   |        |       |        |       |     |  |  |
| 8200          | 51×83  | 6.2  | 64×119 | 7.1  | 77×101 | 8.5   | 77×141 | 8.3   |        |       |        |       |        |       |     |  |  |
| 10000         | 51×98  | 6.7  | 77×101 | 7.9  | 77×121 | 9.5   | 90×141 | 9.9   |        |       |        |       |        |       |     |  |  |
| 12000         | 51×98  | 7.3  | 77×121 | 9.0  | 77×141 | 10.5  | 90×141 | 10.8  |        |       |        |       |        |       |     |  |  |
| 15000         | 51×118 | 8.6  | 77×141 | 11.3 | 90×141 | 12.5  |        |       |        |       |        |       |        |       |     |  |  |
| 18000         | 64×99  | 8.9  | 90×141 | 13.0 | 90×141 | 13.3  |        |       |        |       |        |       |        |       |     |  |  |
| 22000         | 64×119 | 10.3 | 90×141 | 14.3 |        |       |        |       |        |       |        |       |        |       |     |  |  |
| 27000         | 64×139 | 12.1 |        |      |        |       |        |       |        |       |        |       |        |       |     |  |  |
| 33000         | 77×121 | 14.1 |        |      |        |       |        |       |        |       |        |       |        |       |     |  |  |
| 39000         | 77×141 | 16.5 |        |      |        |       |        |       |        |       |        |       |        |       |     |  |  |
| 47000         | 77×141 | 18.3 |        |      |        |       |        |       |        |       |        |       |        |       |     |  |  |
| 56000         | 90×141 | 19.2 |        |      |        |       |        |       |        |       |        |       |        |       |     |  |  |
| 68000         | 90×151 | 20.1 |        |      |        |       |        |       |        |       |        |       |        |       |     |  |  |

↑ Ripple Current (A r.m.s./120Hz, 105°C)  
 ↑ Case Size φD×L(mm)

**◆Tightening torque of bolt and Permissible current of terminal**

| Clamp Bolt | Recommended Tightening torque |
|------------|-------------------------------|
| M3         | 0.6 [N·m]                     |
| M4         | 1.3 [N·m]                     |

| Terminal | Recommended Tightening torque (Permissible Range) | Permissible Current of Terminal |
|----------|---|---------------------------------|
| M5       | 2.2(1.5~3.2) [N·m]                                | 60[A r.m.s.]                    |

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