# LARGE ALUMINUM ELECTROLYTIC CAPACITORS

NEW

## GL

Screw Terminal Type, Long Life Series

Long Life

- Screw terminal series in compact case sizes
- High reliability, long life guaranteed for 20000 hours load life at 85˚C
- Suited for use in industrial power supplies for inverters

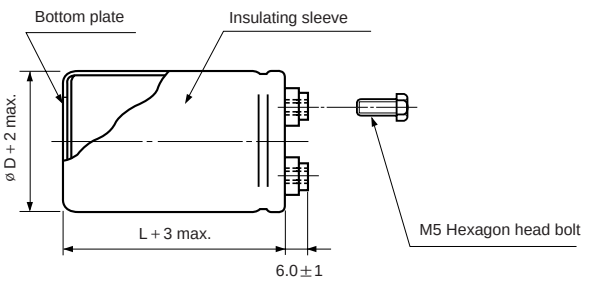
GF ⇨ GL (Long life)

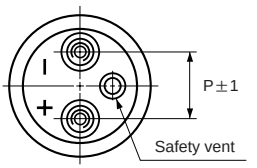


| Item | Characteristics |
|---|---|
| **Rated voltage** | 350 ~ 450V |
| **Operating temperature range** | -25 ~ +85˚C |
| **Leakage current** | I=3$\sqrt{CV}$ ($\mu$A) (after 5 minutes) |
| **Capacitance tolerance** | ±20% at 120Hz, 20˚C |
| **Dissipation factor max.** | 0.20 max. at 120Hz, 20˚C |
| **Load life (after application of the rated voltage for 20000 hours at 85˚C)** | Leakage current: Less than specified value<br>Capacitance change: Within ±20% of initial value<br>tan$\delta$: Less than 300% of specified value |
| **Shelf life (at 85˚C)** | After 1000 hours no load test, leakage current, capacitance and tan$\delta$ are same as load life value. |

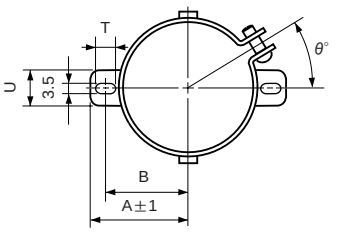
## DRAWING

Unit : mm

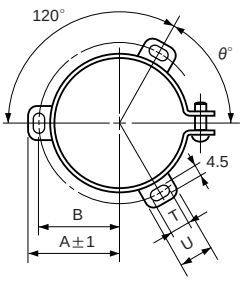



## TWO LEGS ANGLE




## THREE LEGS ANGLE




## TWO LEGS ANGLE SIZE TABLE

| ø D | B | A | T | U | θ° | P |
|---|---|---|---|---|---|---|
| **51** | 33.6 | 39.9 | 6 | 14 | 30 | 22 |
| **63.5** | 40.8 | 46.8 | 6 | 14 | 30 | 28.6 |

## THREE LEGS ANGLE SIZE TABLE

| ø D | B | A | T | U | θ° | P |
|---|---|---|---|---|---|---|
| **51** | 32.9 | 38.9 | 7 | 12 | 60 | 22 |
| **63.5** | 38.4 | 45.3 | 7 | 14 | 60 | 28.6 |
| **76.2** | 44.5 | 51.5 | 8 | 16 | 60 | 31.8 |
| **89** | 50.8 | 61 | 8 | 16 | 60 | 31.8 |

# GL series

## ● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

| WV / Item / μF | 350 | | | 400 | | | 450 | | |
|---|---|---|---|---|---|---|---|---|---|
| | ø D × L (mm) | Ripple current (A rms) | | ø D × L (mm) | Ripple current (A rms) | | ø D × L (mm) | Ripple current (A rms) | |
| | | 40°C 120Hz | 85°C 120Hz | | 40°C 120Hz | 85°C 120Hz | | 40°C 120Hz | 85°C 120Hz |
| 1500 | | | | | | | 51 × 110 | 13.4 | 6.1 |
| 1800 | | | | 51 × 110 | 14.6 | 6.6 | 51 × 130 | 15.7 | 7.1 |
| 2200 | 51 × 110 | 16.2 | 7.3 | 51 × 130 | 17.3 | 7.9 | 63.5 × 110 | 17.2 | 7.8 |
| 2700 | 51 × 130 | 19.2 | 8.7 | 63.5 × 110 | 19.0 | 8.7 | 63.5 × 130 | 20.3 | 9.2 |
| 3300 | 63.5 × 100 | 20.3 | 9.2 | 63.5 × 130 | 22.5 | 10.2 | 76.2 × 110 | 21.7 | 9.9 |
| 3900 | 63.5 × 110 | 22.9 | 10.4 | 76.2 × 100 | 22.7 | 10.3 | 76.2 × 130 | 25.1 | 11.4 |
| 4700 | 76.2 × 100 | 25.0 | 11.4 | 76.2 × 130 | 27.6 | 12.5 | 76.2 × 150 | 29.1 | 13.2 |
| 5600 | 76.2 × 110 | 28.2 | 12.8 | 76.2 × 150 | 31.8 | 14.5 | 76.2 × 160 | 32.7 | 14.8 |
| 6800 | 76.2 × 130 | 33.1 | 15.1 | 76.2 × 160 | 36.0 | 16.4 | 89 × 150 | 38.5 | 17.5 |
| 8200 | 76.2 × 150 | 39.5 | 18.0 | 89 × 150 | 42.3 | 19.2 | 89 × 160 | 43.4 | 19.7 |
| 10000 | 89 × 150 | 46.7 | 21.2 | 89 × 160 | 47.9 | 21.8 | | | |
| 12000 | 89 × 160 | 52.5 | 23.9 | | | | | | |

## ● PERMISSIBLE RIPPLE CURRENT MULTIPLIERS

| Frequency | 50Hz | 120Hz | 300Hz | 1kHz | 3kHz |
|---|---|---|---|---|---|
| Coefficient | 0.8 | 1.0 | 1.1 | 1.3 | 1.4 |