# MOTOR CAPACITOR-CBB60

Suntan®

**ELECTRICAL APPARATUE USE METALLIZED FILM WITH PRECISELY QUALITY CONTROL**

# TS11

## FEATURES

- Low D.F. (dissipation factor), good self-healing character
- High I.R. (insulation resistance)
- High safety & high reliability
- Anti-Striking current, strong over-carrier capacity





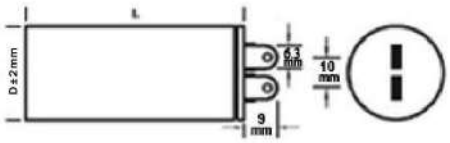
## SPECIFICATIONS

| | |
|---|---|
| OPERATING CONDITION | -40℃~+85℃ |
| CAPACITANCE RANGE | 1uF~100uF(TS11-10~21) |
| CAPACITANCE TOLERANCE | J(±5%)、K(±10%) |
| RATED VOLTAGE | 250V 450V (AC) |
| WITHSTAND VOLTAGE | |

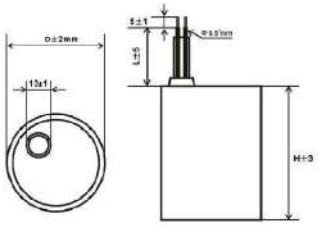
| Withstand voltage test | | | GB/T3667.1-2016 IEC/EN60252.1 |
|---|---|---|---|
| Test area | Test voltage | time | |
| T-T | rated voltage | 2s | |
| T-C | 2400VAC(If all shell made of insulating materials, without any test in this project) | / | |

| | |
|---|---|
| DISSIPATION FACTORY | ≤0.004 100Hz (TS11-10~21) |
| INSULATION RESISTANCE | ≥3000S |

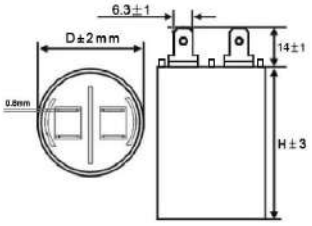
**TS11-10**



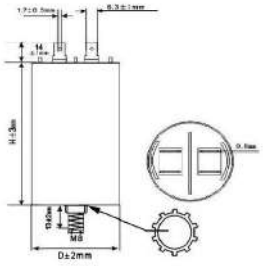

**TS11-11**



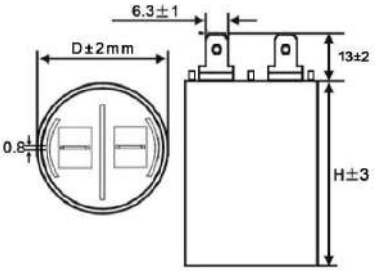

**TS11-12**



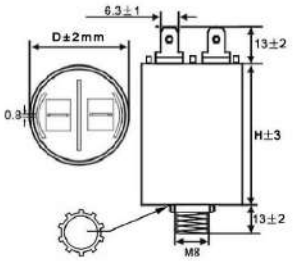

**TS11-13**



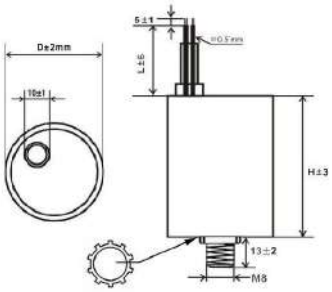

**TS11-14**



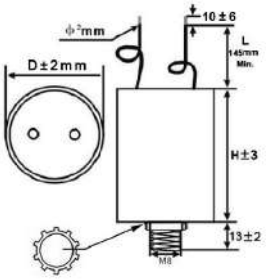

**TS11-15**



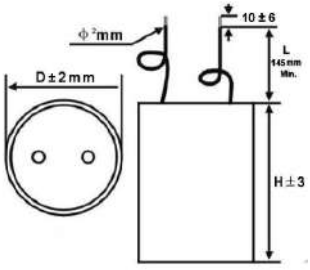

**TS11-16**



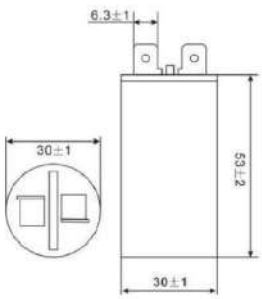

**TS11-17**



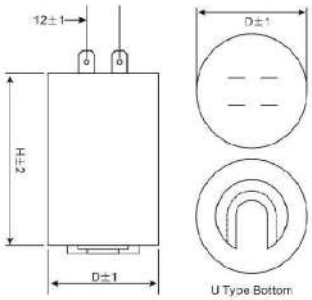

**TS11-18**



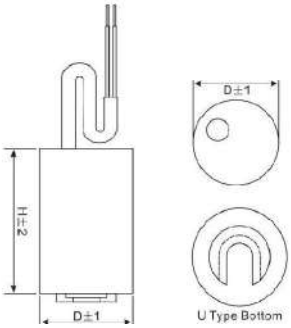

**TS11-19(only for D:30mm)**




**TS11-20**




**TS11-21**




Please visit our website to get more update data, those data & specification are subject to change without notice.


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**FEATURES**

- Low D.F. (dissipation factor), good self-healing character
- High I.R. (insulation resistance)
- High safety & high reliability
- Anti-Striking current, strong over-carrier capacity

**Dimensions (mm)**

| CAP | TS11-11 | | | | TS11-12 | | | | TS11-13 | | | | TS11-14 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 250VAC | | 450VAC | | 250VAC | | 450VAC | | 250VAC | | 450VAC | | 250VAC | | 450VAC | |
| uF | D | H | D | H | D | H | D | H | D | H | D | H | D | H | D | H |
| 1 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 |
| 1.5 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 |
| 2 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 |
| 2.5 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 57 | 30 | 57 | 30 | 50 | 30 | 50 |
| 3 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 57 | 30 | 57 | 30 | 50 | 30 | 50 |
| 3.5 | 30 | 50 | 30 | 60 | 30 | 50 | 30 | 60 | 30 | 57 | 30 | 57 | 30 | 50 | 30 | 60 |
| 3.75 | -- | -- | -- | -- | 30 | 50 | 30 | 60 | 30 | 57 | 30 | 57 | -- | -- | -- | -- |
| 4 | 30 | 50 | 30 | 60 | 30 | 50 | 30 | 60 | 30 | 57 | 30 | 57 | 30 | 50 | 30 | 60 |
| 4.5 | 30 | 50 | 30 | 60 | 30 | 50 | 30 | 60 | 30 | 57 | 30 | 57 | 30 | 50 | 30 | 60 |
| 4.7 | 30 | 50 | 30 | 60 | 30 | 50 | 30 | 60 | 30 | 57 | 35 | 65 | -- | -- | -- | -- |
| 5 | 30 | 50 | 30 | 60 | 30 | 50 | 30 | 60 | 30 | 57 | 35 | 65 | 30 | 50 | 30 | 60 |
| 6 | 30 | 50 | 35 | 60 | 30 | 50 | 35 | 60 | 30 | 57 | 35 | 65 | 30 | 50 | 35 | 60 |
| 6.3 | 30 | 50 | 35 | 60 | 30 | 50 | 35 | 60 | 30 | 57 | 35 | 65 | -- | -- | -- | -- |
| 7 | 30 | 60 | 35 | 60 | 30 | 60 | 35 | 60 | 30 | 57 | 35 | 65 | 30 | 50 | 35 | 60 |
| 8 | 30 | 60 | 35 | 70 | 30 | 60 | 35 | 70 | 30 | 57 | 40 | 70 | 30 | 60 | 35 | 60 |
| 9 | -- | -- | -- | -- | 30 | 60 | 40 | 70 | 30 | 57 | 40 | 70 | -- | -- | -- | -- |
| 10 | 30 | 60 | 40 | 70 | 30 | 60 | 40 | 70 | 30 | 57 | 40 | 70 | 30 | 60 | 35 | 70 |
| 11 | -- | -- | -- | -- | 30 | 60 | 40 | 70 | -- | -- | -- | -- | -- | -- | -- | -- |
| 12 | 30 | 60 | 40 | 70 | 30 | 60 | 40 | 70 | 35 | 65 | 40 | 70 | 30 | 60 | 40 | 70 |
| 12.5 | 30 | 60 | 40 | 70 | 30 | 60 | 40 | 70 | 35 | 65 | 40 | 70 | 30 | 60 | 40 | 70 |
| 13 | 35 | 60 | 40 | 70 | 35 | 60 | 40 | 70 | -- | -- | -- | -- | 35 | 60 | 40 | 70 |
| 14 | 35 | 60 | 40 | 70 | 35 | 60 | 40 | 70 | 35 | 65 | 40 | 70 | 35 | 60 | 40 | 70 |
| 15 | 35 | 60 | 40 | 70 | 35 | 60 | 40 | 70 | 35 | 65 | 40 | 70 | 35 | 60 | 40 | 70 |
| 16 | 35 | 60 | 45 | 70 | 35 | 60 | 45 | 70 | 35 | 65 | 40 | 70 | 35 | 60 | 45 | 70 |
| 18 | 35 | 70 | 45 | 70 | 35 | 70 | 45 | 70 | 35 | 65 | 40 | 95 | 35 | 70 | 45 | 70 |
| 20 | 35 | 70 | 45 | 70 | 35 | 70 | 45 | 70 | 35 | 65 | 40 | 95 | 35 | 70 | 45 | 70 |
| 22 | 35 | 70 | 40 | 90 | 35 | 70 | 40 | 90 | 40 | 70 | 40 | 95 | 35 | 70 | 40 | 90 |
| 24 | 35 | 70 | 40 | 90 | 35 | 70 | 40 | 90 | 40 | 70 | 40 | 95 | 35 | 70 | 40 | 90 |
| 25 | 35 | 70 | 45 | 90 | 35 | 70 | 45 | 90 | 40 | 70 | 45 | 95 | 35 | 70 | 45 | 90 |
| 30 | 40 | 70 | 45 | 90 | 40 | 70 | 45 | 90 | 40 | 70 | 45 | 95 | 40 | 70 | 45 | 90 |
| 31.5 | -- | -- | -- | -- | -- | -- | -- | -- | 40 | 95 | 45 | 95 | -- | -- | -- | -- |
| 35 | 45 | 70 | 45 | 90 | 45 | 70 | 45 | 90 | 40 | 95 | 45 | 95 | 45 | 70 | 45 | 90 |
| 40 | 40 | 90 | 50 | 90 | 40 | 90 | 50 | 90 | 40 | 95 | 50 | 106 | 40 | 90 | 50 | 90 |
| 45 | 45 | 90 | 50 | 90 | 45 | 90 | 50 | 90 | 45 | 95 | 50 | 106 | 45 | 90 | 50 | 90 |
| 50 | 45 | 90 | 50 | 100 | 45 | 90 | 50 | 100 | 45 | 95 | 50 | 106 | 45 | 90 | 50 | 100 |
| 55 | 50 | 90 | 50 | 120 | 50 | 90 | 50 | 120 | 45 | 95 | 50 | 116 | 50 | 90 | 50 | 120 |
| 60 | 50 | 90 | 50 | 120 | 50 | 90 | 50 | 120 | 45 | 95 | 50 | 116 | 50 | 90 | 50 | 120 |
| 65 | 50 | 90 | 55 | 120 | 50 | 90 | 55 | 120 | 45 | 95 | 55 | 120 | 50 | 90 | 55 | 120 |
| 70 | 50 | 100 | 55 | 120 | 50 | 100 | 55 | 120 | 50 | 106 | 55 | 120 | 50 | 100 | 55 | 120 |
| 75 | 50 | 100 | 60 | 120 | 50 | 100 | 60 | 120 | 50 | 106 | 60 | 120 | 50 | 100 | 60 | 120 |
| 80 | 50 | 100 | 60 | 120 | 50 | 100 | 60 | 120 | 50 | 106 | 60 | 120 | 50 | 100 | 60 | 120 |
| 85 | 50 | 120 | 60 | 120 | 50 | 120 | 60 | 120 | 50 | 116 | 60 | 120 | 50 | 120 | 60 | 120 |
| 90 | 50 | 120 | 60 | 120 | 50 | 120 | 60 | 120 | 50 | 116 | 60 | 120 | 50 | 120 | 60 | 120 |
| 100 | 50 | 120 | 65 | 130 | 50 | 120 | 65 | 130 | 50 | 116 | 65 | 130 | 50 | 120 | 65 | 130 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 250VAC | | 450VAC | | 250VAC | | 450VAC | | 250VAC | | 450VAC | | 250VAC | | 450VAC | |
| uF | D | H | D | H | D | H | D | H | D | H | D | H | D | H | D | H |
| 1 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 |
| 1.5 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 |
| 2 | 30 | 57 | 30 | 57 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 | 30 | 50 |
| 2.5 | 30 | 57 | 30 | 57 | 30 | 57 | 30 | 57 | 30 | 57 | 30 | 57 | 30 | 50 | 30 | 50 |
| 3 | 30 | 57 | 30 | 57 | 30 | 57 | 30 | 57 | 30 | 57 | 30 | 57 | 30 | 50 | 30 | 50 |
| 3.5 | 30 | 57 | 30 | 57 | 30 | 57 | 30 | 57 | 30 | 57 | 30 | 57 | 30 | 50 | 30 | 60 |
| 3.75 | 30 | 57 | 30 | 57 | -- | -- | -- | -- | 30 | 57 | 30 | 57 | 30 | 50 | 30 | 60 |
| 4 | 30 | 57 | 30 | 57 | 30 | 57 | 30 | 50 | 30 | 57 | 30 | 57 | 30 | 50 | 30 | 60 |
| 4.5 | 30 | 57 | 30 | 57 | 30 | 57 | 30 | 50 | 30 | 57 | 30 | 57 | 30 | 50 | 30 | 60 |
| 4.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 30 | 50 | 30 | 60 |
| 5 | 30 | 57 | 35 | 65 | 30 | 57 | 30 | 50 | 30 | 57 | 30 | 57 | 30 | 50 | 30 | 60 |
| 6 | 30 | 57 | 35 | 65 | 30 | 57 | 30 | 57 | 30 | 57 | 35 | 65 | 30 | 50 | 35 | 60 |
| 6.3 | 30 | 57 | 35 | 65 | 30 | 57 | 30 | 57 | 30 | 57 | 35 | 65 | 30 | 50 | 35 | 60 |
| 6.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 30 | 60 | 35 | 60 |
| 7 | 30 | 57 | 35 | 65 | 30 | 57 | 30 | 57 | 30 | 57 | 35 | 65 | 30 | 60 | 35 | 60 |
| 7.5 | -- | -- | -- | -- | 30 | 57 | 35 | 65 | -- | -- | -- | -- | -- | -- | -- | -- |
| 8 | 30 | 57 | 40 | 70 | 30 | 57 | 40 | 70 | 30 | 57 | 40 | 70 | 30 | 60 | 35 | 70 |
| 9 | 30 | 57 | 40 | 70 | 30 | 57 | 40 | 70 | -- | -- | -- | -- | 30 | 60 | 40 | 70 |
| 10 | 30 | 57 | 40 | 70 | 30 | 57 | 40 | 70 | 30 | 57 | 40 | 70 | 30 | 60 | 40 | 70 |
| 11 | 35 | 65 | 40 | 70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12 | 35 | 65 | 40 | 70 | 35 | 65 | 40 | 70 | 35 | 65 | 40 | 70 | 30 | 60 | 40 | 70 |
| 12.5 | 35 | 65 | 40 | 70 | 35 | 65 | 40 | 70 | 35 | 65 | 40 | 70 | 30 | 60 | 40 | 70 |
| 13 | -- | -- | -- | -- | 35 | 65 | 40 | 70 | -- | -- | -- | -- | -- | -- | -- | -- |
| 14 | 35 | 65 | 40 | 70 | 35 | 65 | 40 | 70 | 35 | 65 | 40 | 70 | 30 | 60 | 40 | 70 |
| 15 | 35 | 65 | 40 | 70 | 35 | 65 | 40 | 70 | 35 | 65 | 40 | 70 | 30 | 60 | 40 | 70 |
| 16 | 35 | 65 | 40 | 70 | 35 | 65 | 40 | 70 | 35 | 65 | 40 | 70 | 35 | 60 | 45 | 70 |
| 18 | 35 | 65 | 40 | 95 | 35 | 65 | 40 | 95 | 35 | 65 | 40 | 95 | 35 | 70 | 45 | 70 |
| 20 | 35 | 65 | 40 | 95 | 35 | 65 | 40 | 95 | 35 | 65 | 40 | 95 | 35 | 70 | 45 | 70 |
| 22 | 40 | 70 | 40 | 95 | 40 | 70 | 40 | 95 | 40 | 70 | 40 | 95 | 35 | 70 | 40 | 90 |
| 24 | 40 | 70 | 40 | 95 | 40 | 70 | 40 | 95 | 40 | 70 | 40 | 95 | 35 | 70 | 40 | 90 |
| 25 | 40 | 70 | 40 | 95 | 40 | 70 | 45 | 95 | 40 | 70 | 45 | 95 | 35 | 70 | 45 | 90 |
| 30 | 40 | 70 | 45 | 95 | 40 | 70 | 45 | 95 | 40 | 70 | 45 | 95 | 40 | 70 | 45 | 90 |
| 33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 45 | 70 | 45 | 90 |
| 35 | 40 | 95 | 45 | 95 | 40 | 95 | 45 | 95 | 40 | 95 | 45 | 95 | 45 | 70 | 45 | 90 |
| 40 | 40 | 95 | 50 | 106 | 40 | 95 | 50 | 106 | 40 | 95 | 50 | 106 | 40 | 90 | 50 | 90 |
| 45 | 40 | 95 | 50 | 106 | 45 | 95 | 50 | 106 | 45 | 95 | 50 | 106 | 45 | 90 | 50 | 90 |
| 50 | 45 | 95 | 50 | 106 | 40 | 95 | 50 | 106 | 45 | 95 | 50 | 106 | 45 | 90 | 50 | 100 |
| 55 | 45 | 95 | 50 | 116 | 45 | 95 | 50 | 116 | 45 | 95 | 50 | 116 | 50 | 90 | 50 | 120 |
| 60 | 45 | 95 | 50 | 116 | 45 | 95 | 50 | 116 | 45 | 95 | 50 | 116 | 50 | 90 | 50 | 120 |
| 65 | 45 | 95 | 55 | 120 | 45 | 95 | 55 | 120 | 45 | 95 | 55 | 120 | 50 | 90 | 55 | 120 |
| 70 | 50 | 106 | 55 | 120 | 50 | 106 | 55 | 120 | 50 | 106 | 55 | 120 | 50 | 100 | 55 | 120 |
| 75 | 50 | 106 | 60 | 120 | 50 | 106 | 60 | 120 | 50 | 106 | 60 | 120 | 50 | 100 | 60 | 120 |
| 80 | 50 | 106 | 60 | 120 | 50 | 106 | 60 | 120 | 50 | 106 | 60 | 120 | 50 | 100 | 60 | 120 |
| 85 | 50 | 116 | 60 | 120 | 50 | 116 | 60 | 120 | 50 | 116 | 60 | 120 | 50 | 120 | 60 | 120 |
| 90 | 50 | 116 | 60 | 120 | 50 | 116 | 60 | 120 | 50 | 116 | 60 | 120 | 50 | 120 | 60 | 120 |
| 100 | 50 | 116 | 65 | 130 | 50 | 116 | 65 | 130 | 50 | 116 | 65 | 130 | 50 | 120 | 65 | 130 |

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