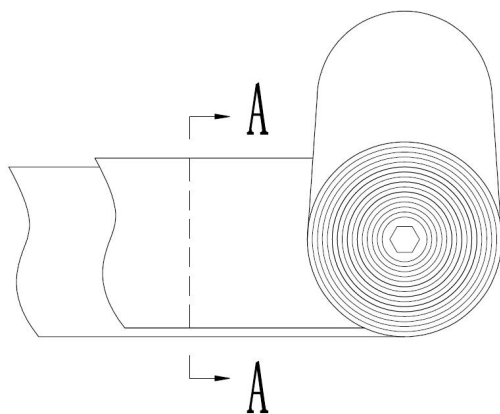


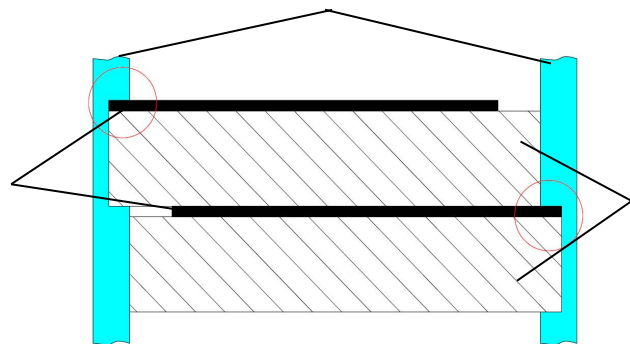
## Sheng Ye Oil Filled Capacitor

### Introduction:

Sheng Ye oil filled capacitor utilize high quality of metallized polypropylene film. Polypropylene films are the most energy efficient dielectric materials for continuous duty AC voltage applications. The films are metallized and wound into capacitor elements ( Two layers of film with opposite margin are wound together ). Then spray the metal to the two end of capacitor elements to connect layers and form the electrodes at each end. Please refer the pictures as below:

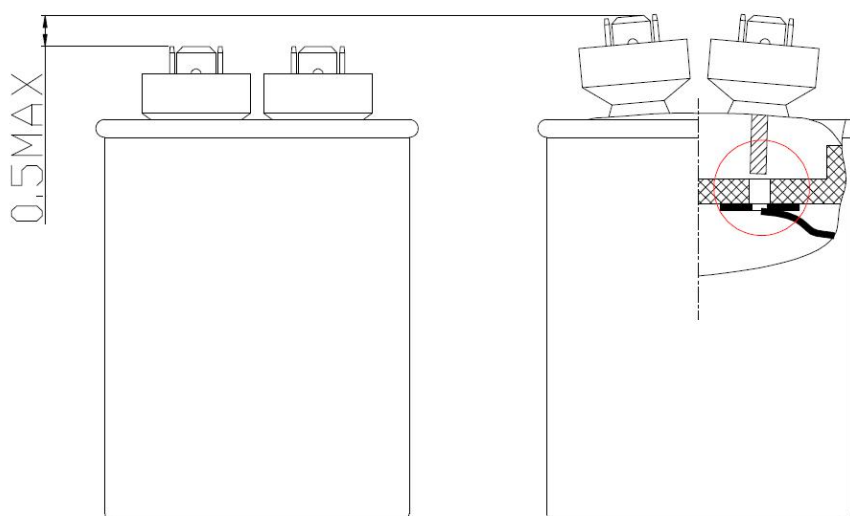


Metallized layer of film



Polypropylene Film

We use high molecular weight of mineral oil as filling material. This type of oil can protect capacitor elements from corrosion and have excellent heat dissipation property and stable molecular chain. It is one type of ideal filling material for oil filled capacitor. Our oil filled capacitor is equipped with a protection device or called internal interrupter under the top cover. The protective device will function and cause an open circuit when the element is broken down at the end of its life. The detail is illustrated as below. The protective device meets fault current testing according to UL810.



Normal Condition

Protective device activated

**Features:**

- . Long life expectation
- . High safety level
- . Low dissipation factor
- . Low temperature rise
- . Excellent self healing character
- . Low DPPM in field
- . Stable capacitance

**Storage Conditions:**

1. Do not store capacitor in corrosive conditions, like where acidic or alkali liquid, sulfide or similar substances are stored or present.
2. When storing the capacitor, please pack it well. Do not let dirty substance pasted on the capacitor, specially on the terminals, to prevent bad contact after assembling with other components.

**Operation conditions:**

1. The capacitor shall be used under rated temperature. Example: 40/70/21 means the minimum allowable temperature is -40°C and the maximum permissible temperature is +70 °C. Higher temperatures will cause the expectation life of capacitor shorter and may cause the protection device inoperable.
2. The capacitor shall be used under rated voltage. Higher voltage will cause the expectation life of capacitor shorter.
3. Please note the application of capacitor. Do not use a HVAC capacitor to UPS application or Light application or other application, vice versa. For example: for HVAC application the frequency is 50 or 60 Hz but for UPS application the frequency are multiples of 50 or 60 Hz. It will cause a higher than rated current through capacitor, resulting with more heat generating and gathering inside of capacitor very quickly. It may cause a catastrophic failure like rupture or fire to your equipment or system.

**Installation:**

1. The capacitor can be installed in any orientation.
2. After the capacitor is installed, at lease a 1/2 inch space shall be left between its terminal edge to the components against it.

**Maintenance:**

1. Do not try to repair or maintain the capacitor if one fails, please just replace it.
2. Remember to short circuit and discharge the capacitor before handling.

**Standard:**<UL810-2008> <IEC 60252-1:2011> <GB/T 3667.1-2005>

**Feature:**Low Dissipation,Low temperature rise ,Long service life,  
Excellent self-healing property,Stable capacitance,Inner explosion-proof device.

**Application:**Mainly as motor run capacitor for air conditioner,washing machine,dishwasher,fan ect.

## Technical Parameter:

Rate Voltage:450VAC

Overload Voltage:Be allowable to operate under 1.1Un

Tolerance:±5%

Overload current:Be allowable to operate under 1.3In

Dissipation factor:tg≤0.0025(100Hz)

Operation temperature:40/85/21

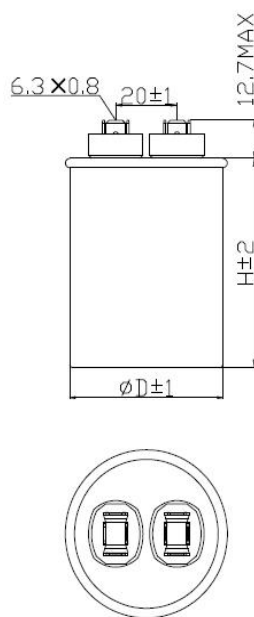
Class of operation:B (10000 h)

Safety Level:10000AFC,S2

Approval: UL、CQC、TUV

## Single Round capacitor dimension sheet (Class B)

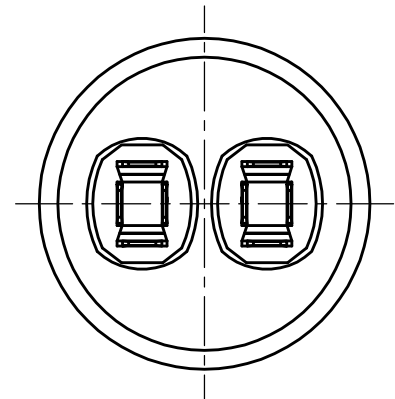
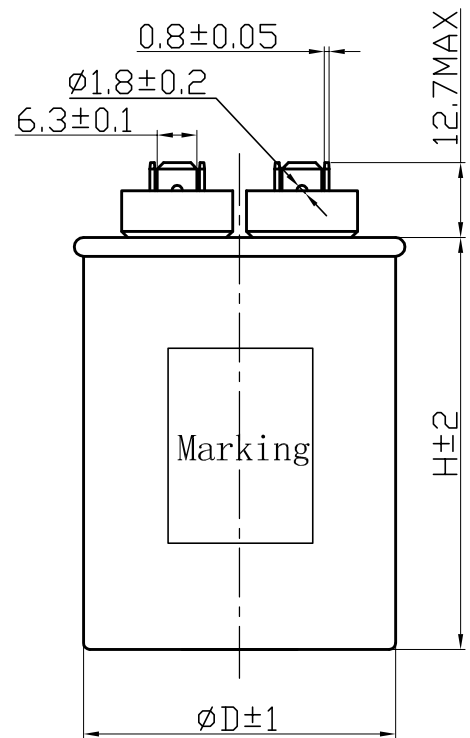
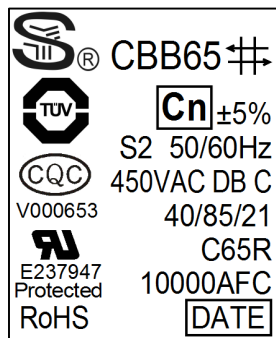
Voltage 450V		
capacitance	Size (mm)	
μF	D	H
20	50	70
25	50	70
30	50	80
35	50	80
40	50	90
45	50	100
50	50	100
55	50	105
60	50	110



Capacitor requires 12.7mm additional clearance around terminals for interrupter

Cn (μF)	Un (VAC)	D	H	CLIENT NUMBER
20	450	50	71	R65D450A20U0000
25	450	50	71	R65D450A25U0000
30	450	50	81	R65D450A30U0000
35	450	50	81	R65D450A35U0000
40	450	50	91	R65D450A40U0000
45	450	50	101	R65D450A45U0000
50	450	50	101	R65D450A50U0000
55	450	50	106	R65D450A55U0000
60	450	50	111	R65D450A60U0000

Label



Technology specification :

- 1.Capacitance tolerance:Cn±5%.
- 2.Rated voltage:450VAC.
- 3.Rated frequency:50/60Hz.
- 4.Dissipation factor:≤0.0025(at 100Hz).
- 5.Test voltage between terminals:1.5UnAC/5s.
- 6.Test voltage between terminals and case:2000VAC/2s.
- 7.Maximum permissible overvoltage:110% of the rated voltage.  
Maximum permissible overcurrent:130% of the rated current.

8.Reference standard: 《UL810-2008》 《IEC 60252-1:2013》 《GB/T 3667.1-2016》 .

9.Work temperature range:85℃.

10.Accord with RoHS,10000AFC,S2

11.Class of operation:C

Unit: mm

				Approved			SHENG YE ELECTRIC CO.,LTD	
				TORSAN T.				
				FAE Mgr./ES/2020-02-18				
Symbol	Amount	Zone	Doc.No.	Signature	Date	Product Drawing		
Design	Chen ChaoLin	20.02.14	Standard					
Drawing	Chen ChaoLin	20.02.14				Electronic Source		
Auditing	Chen WenJun	20.02.14						
Technics			Approved					
						Top Page1		Page 1
								Ver