

# 110E Series



## Features

- High duty sugar cube relay with 32A 277VAC.
- Contact gap can be greater than 2.1mm.
- Conforms to European photovoltaic standard IEC 62109-1.
- Coil holding voltage can be reduced to 55%V of the nominal coil voltage for saving energy.
- High performance PCB power relay for photovoltaic power generation systems (solar inverter), motor control, compressor control, home appliances.
- Complies with RoHS-Directive 2011/65/EU.



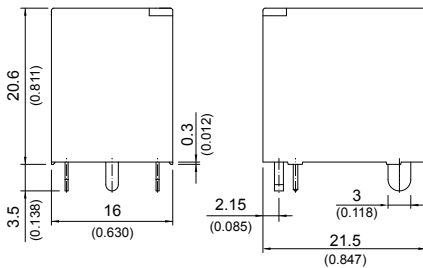
## Description

Contact rating (Resistive load)	32A 240VAC T85 ; ON 1s /OFF 9s ; 10,000 ops.	
Coil voltage	12~48VDC	
Power consumption	At rated voltage	: Approx. 2.8W
	At holding voltage	: Approx. 0.29W
Contact material	Ag alloy	
Contact gap	2.1mm Min.	
Contact resistance (1)	100mΩ Max. (1A/6VDC by 4 pipes mΩ meter)	
Operate time (1)	15ms Max.	
Release time (1)	10ms Max.	
Insulation resistance (1)	100MΩ Min. (DC 500V)	
Dielectric strength (1)	Between open contact	: AC 1000V, 50/60Hz 1 min.
	Between contact and coil	: AC 2500V, 50/60Hz 1 min.
		AC 4000V, 50/60Hz 1 min. (for 110BE)
Life expectancy (Mechanical)	100,000 ops. (frequency 9,000 operations/hr)	
Operating ambient temperature	-40~+85° C (no freezing)	
Weight	Approx. 15 g	

- ※ Note : (1) Initial value. Operate and release time excluding contact bounce.  
 (2) Consider the heat of PCB is necessary with actual application.  
 (3) Please contact Song Chuan for the detailed information.

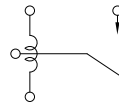
## Outline Dimensions

### ◆ 110E

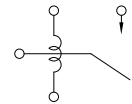


### ■ Wiring Diagram (bottom view)

#### ◆ 110E

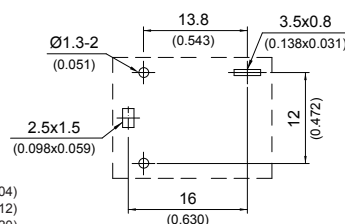


#### ◆ 110BE

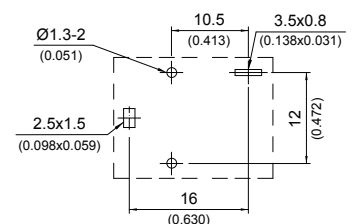


### ■ PC board layout (bottom view)

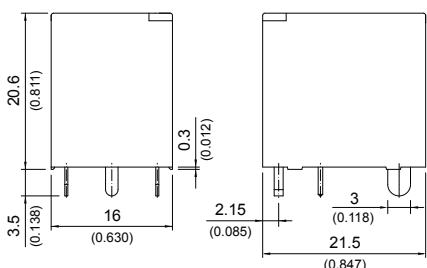
#### ◆ 110E



#### ◆ 110BE



### ◆ 110BE



TOLERANCE:  
 LESS THAN: 1(0.039) ±0.1(0.004)  
 5(0.197) ±0.3(0.012)  
 20(0.787) ±0.5(0.020)  
 MORE THAN: 20(0.787) ±1(0.039)

## Disclaimer

All technical performance data apply to the relay as such, specific conditions of the individual application are not considered. Please always check the suitability of the relay for your intended purpose. We do not assume any responsibility or liability for not complying herewith. We recommend to complete our questionnaire and to request our technical service. Any responsibility for the application of the product remains with the customer only. All specifications are subject to change without notification. All rights of Song Chuan are reserved.