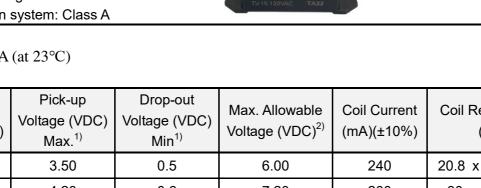
TEXE_ELL

Miniature High Power Relay

Features

- 30A switching capability
- 70A withstands inrush current
- TV-15 (at 120VAC) available
- 1 Form A configuration
- UL insulation system: Class A



1. COIL DATA (at 23°C)

Nominal Voltage (VDC)	Pick-up Voltage (VDC) Max. ¹⁾	Drop-out Voltage (VDC) Min ¹⁾	Max. Allowable Voltage (VDC) ²⁾	Coil Current (mA)(±10%)	Coil Resistance (Ω)	Coil Power (mW)
5	3.50	0.5	6.00	240	20.8 x (1±10%)	
6	4.20	0.6	7.20	200	30 x (1±10%)	
9	6.30	0.9	10.8	133	67.5 x (1±10%)	•
12	8.40	1.2	14.4	100	120 x (1±10%)	Approx. 1200
24	16.8	2.4	28.8	50	480 x (1±10%)	1200
48	33.6	4.8	57.6	25	1920 x (1±10%)	
60	42.0	6.0	72.0	20	3000 x (1±10%)	

Notes: 1) The data shown above are initial values.

2) The maximum allowable voltage refers to the maximum voltage which relay coil could endure in a short period of time.

2. CONTACT DATA

Contact Arrangement		1 Form A		
Contact Resistance ¹⁾		100mΩ max. (at 1A 6VDC)		
Contact Material		AgSnO ₂		
Contact Ratings (Resistive load)		30A 250VAC		
Max. Switching Voltage		277VAC		
Max. Switching Current		30A		
Max. Switching Power		7500VA		
Life Expectancy	Electrical	6,000 operations (at 30A 250VAC) 50,000 operations (at 23A cosØ=1 250VAC)		
	Mechanical	5,000,000 operations		

Notes: 1) The data shown above are initial values.







3. CHARACTERISTICS

Insulation Resistance		1000MΩ (at 500VDC)	
Dielectric Strength	Open Contacts	1200VAC 1min	
	Coil and Contacts	4000VAC 1min	
Operate Time (at nominal voltage)		20ms max.	
Release Time (at nominal voltage)		5ms max.	
Temperature Range		-40℃ ~ 70℃	
Shock Resistance	Functional	196m/s ²	
	Destructive	980m/s ²	
Vibration Resistance		10 ~ 55Hz 1.5mm DA	
Humidity		5 ~ 85% RH	
Termination		PCB, QC	
Construction		Dust protected	
Weight		Approx. 55g	
Outline Dimension (L x W x H)		35.2 x 32.2 x 24.0mm	

Notes: 1) The data shown above are initial values.

2) Please find coil temperature curve in the characteristic curves below.

4. SAFETY APPROVAL RATINGS

Safety Standard	Contact Form	Contact Rating	
		30A 250VAC	
UL/cUL	1 Form A	2HP 125VAC/250VAC	
		TV-15 120VAC	

5. ORDERING INFORMATION

SHP 11 - D12 Q ① ② ③ ④		
① Relay Model	SHP	
② Contact Arrangement	11: 1 Form A (SPST-NO)	
③ Coil Voltage	D5=5VDC, D6=6VDC, D9=9VDC, D12=12VDC, D24=24VDC, D48=48VDC, D60=60VDC	
④ Termination Form	Nil: PCB S: Quick-connected	

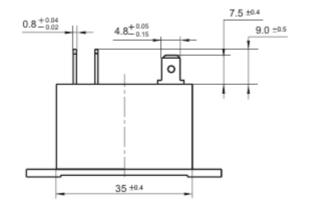
Notes: Please don't weld directly on terminal of quick-connected type.

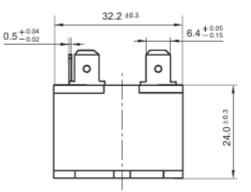


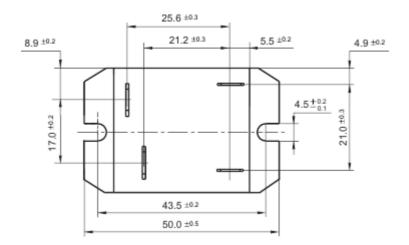
5. DIMENSIONS (Unit: mm)

Outline Dimensions

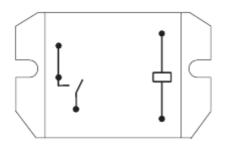
QC type







Wiring Diagram (Bottom View)



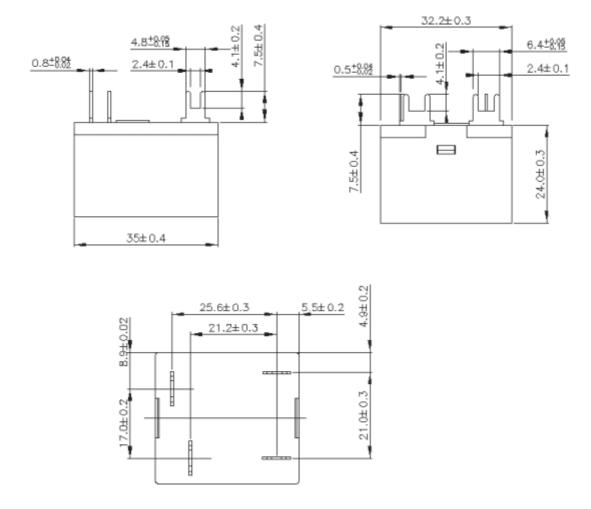
PCB Layout (Bottom View)

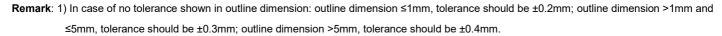


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PCB type

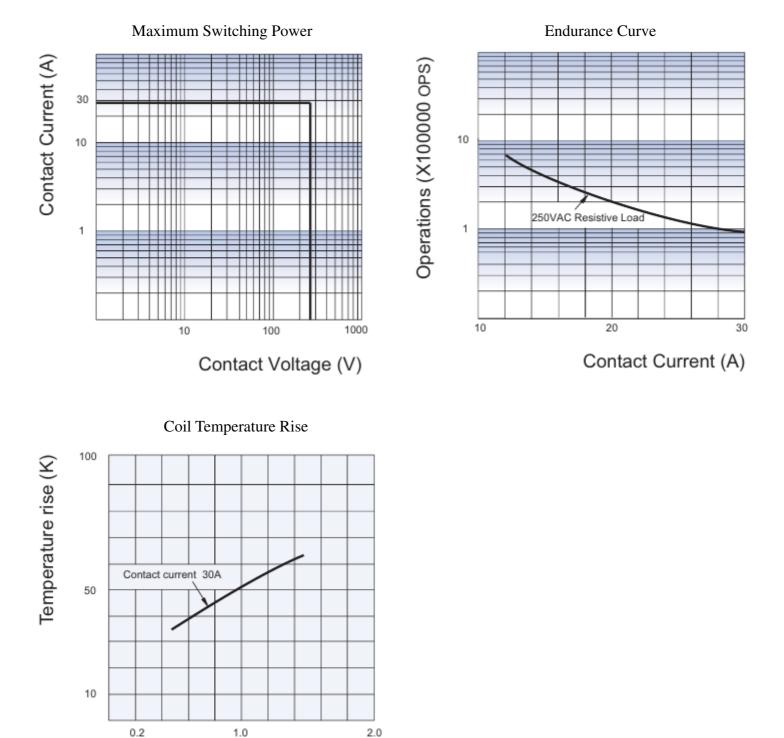




2) The tolerance without indicating for PCB layout is always ±0.1mm



6. CHARACTERISTIC CURVES



Coil Power (W)

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