



»» Features

- ☐ Heavy duty 40A general purpose PCB Power Relay.
- ☐ Available for top faston, flux tight, sealed versions.
- ☐ UL Class F as standard.
- ☐ High CTI 250 material or product comply with IEC 60335-1 are available.
- ☐ Special design for UPS, power supply of high rating application.
- ☐ Complies with RoHS-Directive 2011/65/EU.

»» Type List

Terminal style	Contact form	Insulation system	Designation			
			Open type	Flux tight	Sealed type	Sealed type washable
PCB terminal	1A (SPNO)	F	832HA-1A-F	832HA-1A-F-C	832HA-1A-F-V	832HA-1A-F-S
	1B (SPNC)	F	832HA-1B-F	832HA-1B-F-C	832HA-1B-F-V	832HA-1B-F-S
	1C (SPDT)	F	832HA-1C-F	832HA-1C-F-C	832HA-1C-F-V	832HA-1C-F-S
WP (PCB terminal & Quick terminal)	1A (SPNO)	F	832HAWP-1A-F	832HAWP-1A-F-C	832HAWP-1A-F-V	832HAWP-1A-F-S
	1B (SPNC)	F	832HAWP-1B-F	832HAWP-1B-F-C	832HAWP-1B-F-V	832HAWP-1B-F-S
	1C (SPDT)	F	832HAWP-1C-F	832HAWP-1C-F-C	832HAWP-1C-F-V	832HAWP-1C-F-S

»» Ordering Information

832 HA ☐ - 1A - F - ☐ ☐
 1 2 3 4 5 6 7

- | | |
|---|---|
| <p>1. 832 -- Basic series designation</p> <p>2. HA -- High power type</p> <p>3. Blank -- PCB terminal
W -- Quick terminal
WP -- PCB terminal & Quick terminal</p> <p>4. 1A -- Single pole normally open
1B -- Single pole normally closed
1C -- Single pole double throw</p> <p>5. F -- Class F</p> | <p>6. Blank -- Open type
C -- Flux tight
V -- Sealed type
S -- Sealed type washable
C1 -- With flanged cover
S1 -- Sealed type washable with flanged cover</p> <p>7. ☐ -- Coil voltage (please refer to the coil rating data for the availability)</p> |
|---|---|

»» Contact Rating

Resistive load	NO: 40A 240VAC ; NC: 40A 240VAC
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»» Coil Rating (DC)

Rated voltage (V)	Rated current ±10 % at 23°C (mA)	Coil resistance ±10 % at 23°C (Ω)	Max. continuous voltage at 70°C	Pick up voltage(Max.) at 23°C	Drop out voltage(Min.) at 23°C	Power consumption at rated voltage
5	185	27	110 % of rated voltage	80 % of rated voltage	10 % of rated voltage	approx. 0.93W
6	150	40				
12	77	155				
24	36	660				
48	18	2560				

832HA

»» Specification

Contact material	AgSnO alloy	
Contact resistance ⁽¹⁾	50mΩ Max. (at 1A/6VDC by 4-wire resistance measurement)	
Operate time ⁽¹⁾	15 ms Max.	
Release time ⁽¹⁾	10 ms Max.	
Insulation resistance ⁽¹⁾	1000 MΩ Min. (DC 500V)	
Surge voltage withstand	Between contact and coil : 6KV 1.2X50μS	
Dielectric strength ⁽¹⁾	Between open contact	: AC 1500V , 50/60Hz 1min.
	Between contact and coil	: AC 2500V , 50/60Hz 1min.
Vibration resistance	Operating extremes	10 ~ 55Hz , amplitude 1.5 mm
	Damage limits	10 ~ 55Hz , amplitude 1.5 mm
Shock resistance	Operating extremes	10G
	Damage limits	100G
Life expectancy	Mechanical	2,000,000 operations (frequency 18,000 operations/hr)
	Electrical	NO:30,000 operations NC:10,000 operations (frequency 900 operations/hr)
Operating ambient temperature	-55 ~ +70°C (no freezing)	
Weight	Approx. 22 g (open type), 27g (with cover), 36g (WP) , 38g (W)	

Note : (1) Initial value. Operate and release time excluding contact bounce.

»» Safety Approval

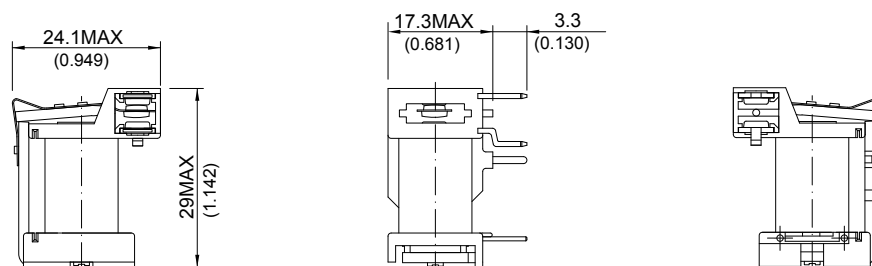
Certified	UL / CUL
File No.	E88991

»» Safety Approval Rating

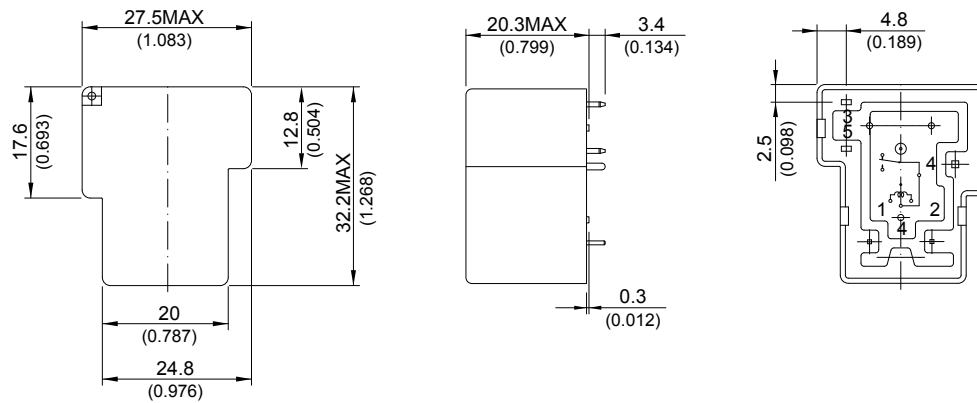
UL / CUL
NO: 40A 277VAC
NC: 40A 277VAC

»» Outline Dimensions

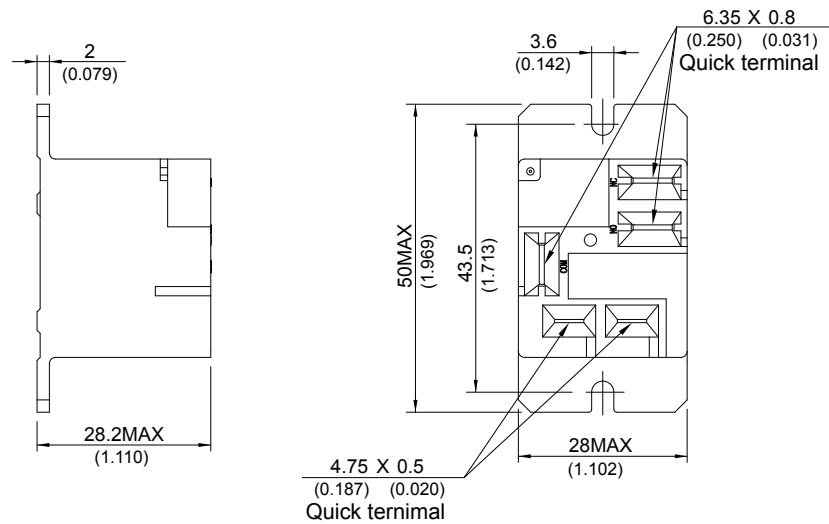
◆832HA(OPEN)



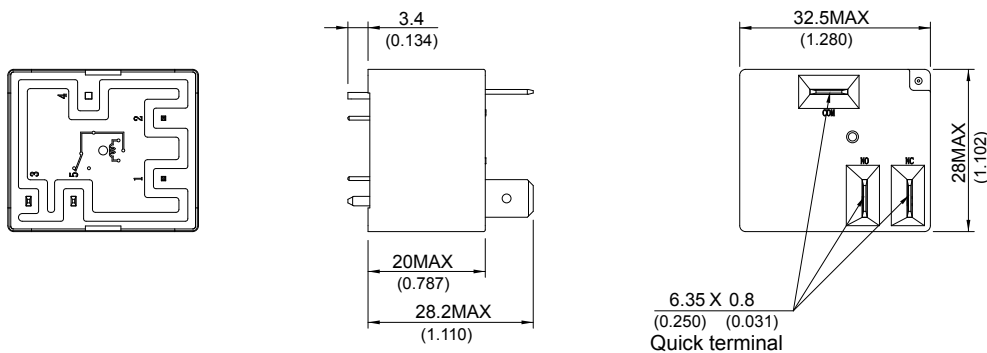
◆832HA



◆832HAW



◆832HAWP



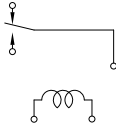
TOLERANCE:
 LESS THAN: 1(0.039) ±0.1(0.004)
 5(0.197) ±0.3(0.012)
 20(0.787) ±0.5(0.020)
 MORE THAN: 20(0.787) ±1(0.039)

832HA

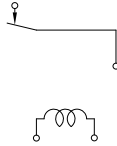
Wiring Diagram

BOTTOM VIEW

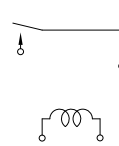
1C



1B



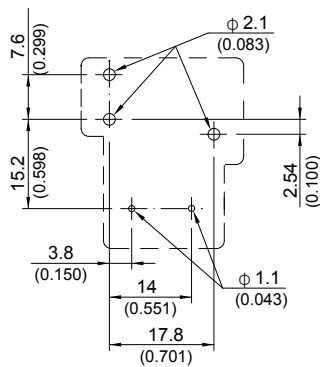
1A



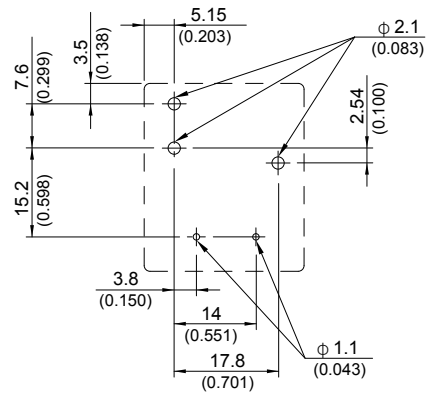
PC Board Layout

BOTTOM VIEW

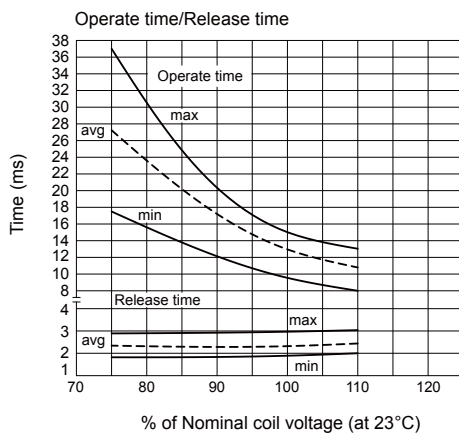
◆832HA



◆832HAWP



Engineering Data



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Song Chuan:

[832HAWP-1A-F-S-12VDC](#) [832HAW-1A-F-C1-12VDC](#) [832HA-1A-F-S-12VDC](#) [832HAW-1C-F-S1-12VDC](#) [832HA-1B-F-C-24VDC](#) [832HA-1B-F-48VDC](#) [832HA-1C-F-C-12VDC](#) [832HA-1C-F-C-B-24VDC](#) [832HA-1C-F-C-24VDC](#) [832HAW-1A-F-C-12VDC](#) [832HA-1C-F-S-48VDC](#) [832HA-1B-24VDC](#)