



# 832HA



## »» Features

- Heavy duty 40A general purpose PCB Power Relay.
- Available for top faston, flux tight, sealed versions.
- UL Class F as standard.
- Special design for UPS, power supply of high rating application.
- Comply with RoHS-Directive 2011/65/EU.

## »» Type List

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

## »» Ordering Information

$\frac{832}{1}$ 
 $\frac{HA}{2}$ 
 $\frac{WP}{3}$ 
- 
 $\frac{1C}{4}$ 
- 
 $\frac{F}{5}$ 
- 
 $\frac{C}{6}$ 
 $\frac{XXVDC}{7}$

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

## »» Contact Rating

Resistive load	NO: 40A 240VAC ; NC: 40A 240VAC
----------------	---------------------------------

## »» 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 <sup>(1)</sup>	50 mΩ Max.	
Operate time <sup>(1)</sup>	15 ms Max.	
Release time <sup>(1)</sup>	10 ms Max.	
Insulation resistance <sup>(1)</sup>	1000 MΩ Min. (DC 500V)	
Surge voltage withstand	Between contact and coil : 6KV 1.2X50μS	
Dielectric strength <sup>(1)</sup>	Between open contact	: 1500Vrms 50/60Hz 1min.
	Between contact and coil	: 2500Vrms 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

## »» Safety Approval

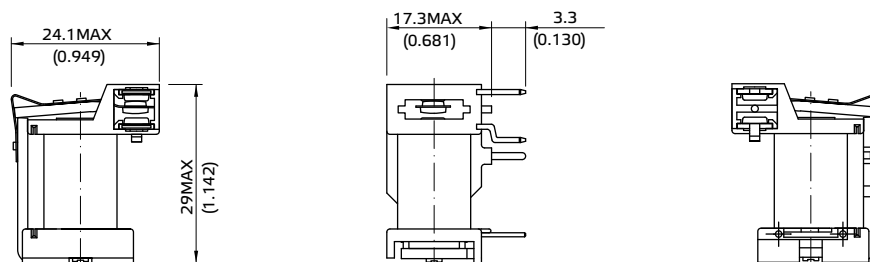
Certified	UL / CUL
File No.	E88991

## »» Safety Approval Rating

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

## »» Outline Dimensions

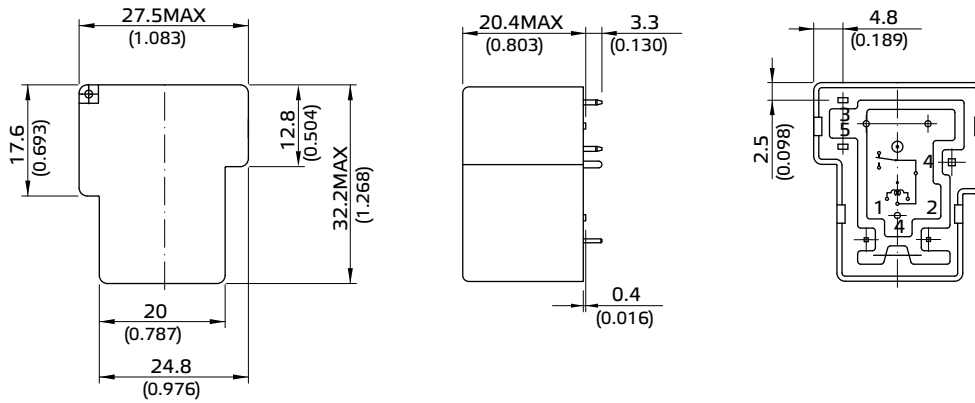
### ◆832HA(OPEN)



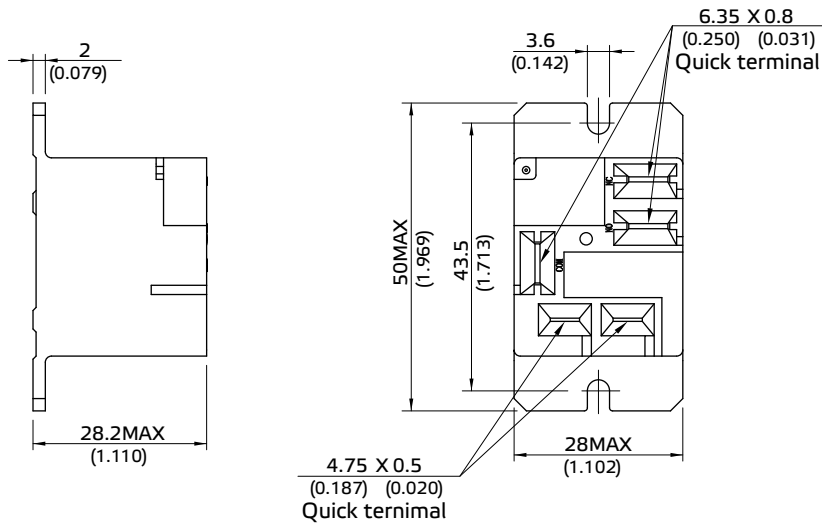


# 832HA

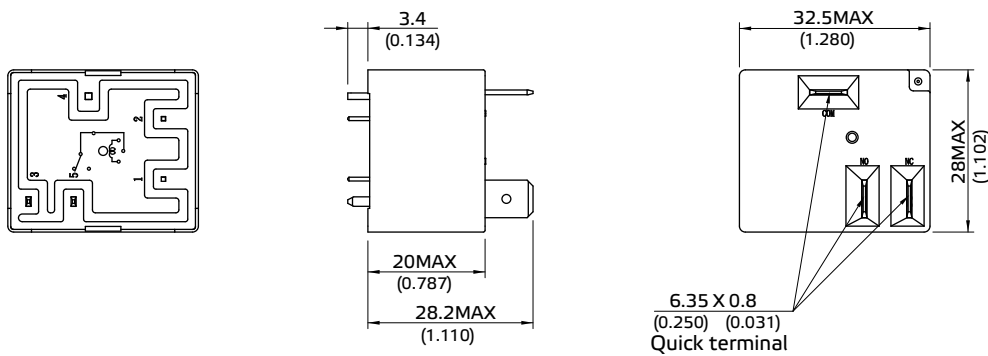
◆832HA



◆832HAW



◆832HAWP

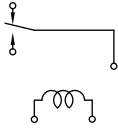


# 832HA

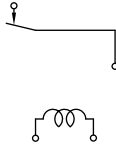


»» Wiring Diagram  
BOTTOM VIEW

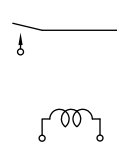
1C



1B

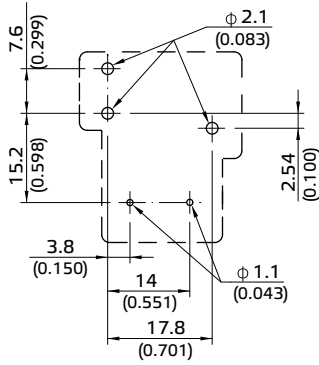


1A



»» PC Board Layout  
BOTTOM VIEW

◆832HA



◆832HAWP

