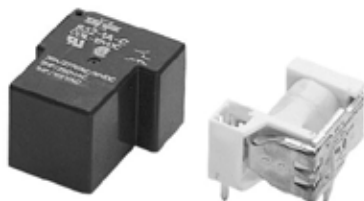


»» Features

- ☐ Heavy duty 30A general purpose power relays.
- ☐ UL/CUL (UL 508 & 873), VDE safety approval.
- ☐ Optional for open frame, dust cover, sealed type and with and without quick terminal on top, etc.
- ☐ High insulation type & high dielectric strength type available.
- ☐ Contact gap to 2.0mm, high dielectric strength 4000Vrms.
- ☐ UL class F insulation.
- ☐ Ideal for HVAC, UPS & power supply, home appliances.



»» Type List

◆832

Terminal style	Contact form	Insulation system	Designation			
			Open type	Flux tight	Sealed type	Sealed type washable
PCB terminal	1A (SPNO)	—	832-1A	832-1A-C	832-1A-V	832-1A-S
			832-1AC	832-1AC-C	832-1AC-V	832-1AC-S
	1B (SPNC)	—	832-1B	832-1B-C	832-1B-V	832-1B-S
			832-1BC	832-1BC-C	832-1BC-V	832-1BC-S
	1C (SPDT)	—	832-1C	832-1C-C	832-1C-V	832-1C-S
			832-1CC	832-1CC-C	832-1CC-V	832-1CC-S
	1A (SPNO)	F	832-1A-F	832-1A-F-C	832-1A-F-V	832-1A-F-S
			832-1AC-F	832-1AC-F-C	832-1AC-F-V	832-1AC-F-S
	1B (SPNC)	F	832-1B-F	832-1B-F-C	832-1B-F-V	832-1B-F-S
			832-1BC-F	832-1BC-F-C	832-1BC-F-V	832-1BC-F-S
	1C (SPDT)	F	832-1C-F	832-1C-F-C	832-1C-F-V	832-1C-F-S
			832-1CC-F	832-1CC-F-C	832-1CC-F-V	832-1CC-F-S

◆832A

PCB terminal	1A (SPNO)	—	832A-1A	832A-1A-C	832A-1A-V	832A-1A-S
			832A-1AC	832A-1AC-C	832A-1AC-V	832A-1AC-S
	1B (SPNC)	—	832A-1B	832A-1B-C	832A-1B-V	832A-1B-S
			832A-1BC	832A-1BC-C	832A-1BC-V	832A-1BC-S
	1C (SPDT)	—	832A-1C	832A-1C-C	832A-1C-V	832A-1C-S
			832A-1CC	832A-1CC-C	832A-1CC-V	832A-1CC-S
	1A (SPNO)	F	832A-1A-F	832A-1A-F-C	832A-1A-F-V	832A-1A-F-S
			832A-1AC-F	832A-1AC-F-C	832A-1AC-F-V	832A-1AC-F-S
	1B (SPNC)	F	832A-1B-F	832A-1B-F-C	832A-1B-F-V	832A-1B-F-S
			832A-1BC-F	832A-1BC-F-C	832A-1BC-F-V	832A-1BC-F-S
	1C (SPDT)	F	832A-1C-F	832A-1C-F-C	832A-1C-F-V	832A-1C-F-S
			832A-1CC-F	832A-1CC-F-C	832A-1CC-F-V	832A-1CC-F-S

◆ 832AW

Terminal style	Contact form	Insulation system	Designation	
			Flanged cover	Sealed flanged cover
W (Quick connect terminal)	1A (SPNO)	----	832AW-1A-C1	832AW-1A-S1
			832AW-1AC-C1	832AW-1AC-S1
	1B (SPNC)	----	832AW-1B-C1	832AW-1B-S1
			832AW-1BC-C1	832AW-1BC-S1
	1C (SPDT)	----	832AW-1C-C1	832AW-1C-S1
			832AW-1CC-C1	832AW-1CC-S1
	1A (SPNO)	F	832AW-1A-F-C1	832AW-1A-F-S1
			832AW-1AC-F-C1	832AW-1AC-F-S1
	1B (SPNC)	F	832AW-1B-F-C1	832AW-1B-F-S1
			832AW-1BC-F-C1	832AW-1BC-F-S1
	1C (SPDT)	F	832AW-1C-F-C1	832AW-1C-F-S1
			832AW-1CC-F-C1	832AW-1CC-F-S1

◆ 832AWP

Terminal style	Contact form	Insulation system	Designation		
			Flux tight	Sealed type	Sealed type washable
WP (PCB terminal & Quick connect terminal)	1A (SPNO)	----	832AWP-1A-C	832AWP-1A-V	832AWP-1A-S
			832AWP-1AC-C	832AWP-1AC-V	832AWP-1AC-S
	1B (SPNC)	----	832AWP-1B-C	832AWP-1B-V	832AWP-1B-S
			832AWP-1BC-C	832AWP-1BC-V	832AWP-1BC-S
	1C (SPDT)	----	832AWP-1C-C	832AWP-1C-V	832AWP-1C-S
			832AWP-1CC-C	832AWP-1CC-V	832AWP-1CC-S
	1A (SPNO)	F	832AWP-1A-F-C	832AWP-1A-F-V	832AWP-1A-F-S
			832AWP-1AC-F-C	832AWP-1AC-F-V	832AWP-1AC-F-S
	1B (SPNC)	F	832AWP-1B-F-C	832AWP-1B-F-V	832AWP-1B-F-S
			832AWP-1BC-F-C	832AWP-1BC-F-V	832AWP-1BC-F-S
	1C (SPDT)	F	832AWP-1C-F-C	832AWP-1C-F-V	832AWP-1C-F-S
			832AWP-1CC-F-C	832AWP-1CC-F-V	832AWP-1CC-F-S

◆ 832AWP (Cover with shroud)

Terminal style	Contact form	Insulation system	Designation	
			Flux tight (with shroud)	Sealed type washable (with shroud)
WP (PCB terminal & Quick connect terminal)	1A (SPNO)	----	832AWP-1A-CF	832AWP-1A-SF
			832AWP-1AC-CF	832AWP-1AC-SF
	1B (SPNC)	----	832AWP-1B-CF	832AWP-1B-SF
			832AWP-1BC-CF	832AWP-1BC-SF
	1C (SPDT)	----	832AWP-1C-CF	832AWP-1C-SF
			832AWP-1CC-CF	832AWP-1CC-SF

WP (PCB terminal & Quick connect terminal)	1A (SPNO)	F	832AWP-1A-F-CF	832AWP-1A-F-SF
			832AWP-1AC-F-CF	832AWP-1AC-F-SF
	1B (SPNC)	F	832AWP-1B-F-CF	832AWP-1B-F-SF
			832AWP-1BC-F-CF	832AWP-1BC-F-SF
	1C (SPDT)	F	832AWP-1C-F-CF	832AWP-1C-F-SF
			832AWP-1CC-F-CF	832AWP-1CC-F-SF

◆ 832A Enlarge Contact Gap Type

Terminal style	Contact form	Special feature	Designation		
			Flux tight	Sealed type	Sealed type washable
PCB terminal	1A (SPNO)	—	832A-1A-C-H	832A-1A-V-H	832A-1A-S-H
	1A (SPNO)	High dielectric strength type	832A-1A-C-BH	832A-1A-V-BH	832A-1A-S-BH

»» Ordering Information

832 A WP - 1C - F - C - B
1 2 3 4 5 6 7

- | | |
|--|---|
| <p>1. 832 -- Basic series designation</p> <p>2. Blank -- General type (provided with 2 common terminals)
A -- Different type (provided with 1 common terminal)</p> <p>3. Blank -- PCB terminal
W -- Quick connect terminal
WP -- PCB terminal & quick connect Terminal</p> <p>4. 1A -- Single pole normally open (AgSnO contacts)
1B -- Single pole normally closed (AgSnO contacts)
1C -- Single pole double throw (AgSnO contacts)
1AC -- Single pole normally open (AgNi contacts)
1BC -- Single pole normally closed (AgNi contacts)
1CC -- Single pole double throw (AgNi contacts)</p> | <p>5. Blank -- Standard type
F -- Class F</p> <p>6. Blank -- Open type
C -- Flux tight
D -- Dust cover
V -- Sealed type
S -- Sealed type washable
C1 -- With flanged cover
S1 -- Sealed type washable with flanged cover
CF -- Flux tight with shroud
SF -- Sealed type washable with shroud</p> <p>7. Blank -- Standard type
B -- With Insulation Barrier
BH -- With Insulation Barrier and 2 mm Contact gap (for SPNO type only)
H -- 2 mm contact gap (for SPNO type only)</p> |
|--|---|

»» Contact Rating

Load type	1A	1B	1C	
			NO	NC
Resistive load	30A/240VAC	15A/240VAC	20A/240VAC	10A/240VAC
	20A/30VDC		20A/30VDC	10A/30VDC

◆ 832A ENLARGE CONTACT GAP TYPE

Resistive load	20A 250VAC
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»» Coil Rating (DC)

Rated voltage (V)	Rated current $\pm 10\%$ at 23° C (mA)	Coil resistance $\pm 10\%$ at 23° C (Ω)	Max. continuous voltage at 85° C	Pick up voltage(Max) at 23° C	Drop out voltage(Min) at 23° C	Power consumption at rated voltage
5	185	27	130 % of rated voltage	75 % of rated voltage	10 % of rated voltage	approx. 0.93W
6	150	40				
9	93	97				
12	77	155				
24	36	660				
48	18	2560				
110	8	13450				

»» Coil Rating (DC) [832A Enlarge Contact Gap Type]

Rated voltage (V)	Rated current $\pm 10\%$ at 23° C (mA)	Coil resistance $\pm 10\%$ at 23° C (Ω)	Max. continuous voltage at 85° C	Pick up voltage (Max) at 23° C	Drop out voltage(Min) at 23° C	Power consumption at rated voltage
6	183	32.7	130 % of rated voltage	80 % of rated voltage	10 % rated voltage	approx. 1.1W
9	122	73.6				
12	92.3	130				
24	46	524				

»» Specification

Contact material	AgSnO / AgNi alloy		
Contact gap	2.0 mm Min. (for 832A enlarge contact gap type)		
Contact resistance ⁽¹⁾	50 m Ω Max.		
Operate time ⁽¹⁾	15 ms Max.		
	20 ms Max. (for 832A enlarge contact gap type)		
Release time ⁽¹⁾	10 ms Max.		
	5 ms Max. (for 832A enlarge contact gap type)		
Insulation resistance ⁽¹⁾	1000 M Ω Min. (DC 500V)		
	100 M Ω Min. (DC 500V) (for 832A enlarge contact gap type)		
Surge voltage withstand	Between contact and coil : 6KV 1.2X50 μ S (for 832A)		
Dielectric strength ⁽¹⁾	Between open contact : 1500Vrms 50/60Hz 1min.		
	Between contact and coil : 1500Vrms 50/60Hz 1min. : 2500Vrms 50/60Hz 1min (for 832A) High dielectric strength type : 4000Vrms 50/60Hz 1 min.		
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	20G	

Life expectancy	Mechanical	10,000,000 operations (frequency 18,000 operations/hr) 832A enlarge contact gap type : 5,000,000 operations (frequency 18,000 operations/hr)
	Electrical	100,000 operations (frequency 1,200 operations/hr) 832A enlarge contact gap type : 20,000 operations for 20A/250VAC 100,000 operations for 10A/250VAC (frequency 900 operations/hr)
Operating ambient temperature	-55 ~ +85° C (no freezing)	
Weight	Approx. 22 g (open type) 、 27g (832A) 36g (832AWP) 、 38g (832AW)	

Note : (1) initial value

»» Safety Approval

Certified	UL / CUL	CSA/CUS	VDE
File No.	E88991	1429333	6615

»» Safety Approval Rating (UL/CUL 、 CSA/CUS)

Contact material (AgSnO)		Contact material (AgNi)	
NO	NC	NO	NC
30A 277VAC 20A 30VDC 2HP 250VAC 1HP 125VAC 30 FLA, 80LRA 240VAC 16 FLA, 96LRA 250VAC TV-5	30A 250VAC 15A 277VAC 15A 30VDC 1/2HP ,4.9FLA 250VAC 1/4HP ,5.8FLA 125VAC 12 FLA, 33LRA 250VAC	30A 277VAC 24A 240VAC	30A 277VAC 24A 240VAC

»» Safety Approval Rating (VDE)

1A	1B	1C
30A 250VAC	20A 250VAC	20A 250VAC

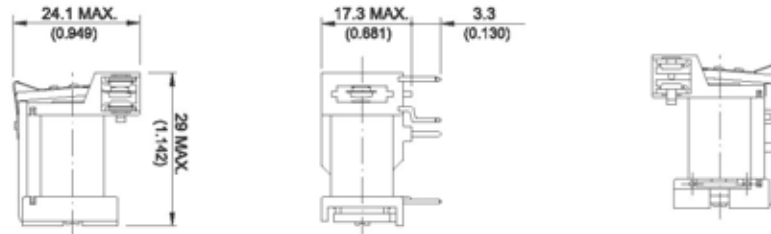
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◆ 832A ENLARGE CONTACT GAP TYPE

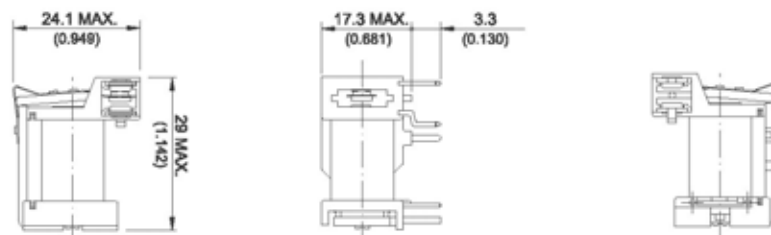
UL / CUL 、 CSA/CUS	VDE
30A 277VAC 30A 28VDC 1HP,8FLA 250VAC	30A 250VAC

Outline Dimensions

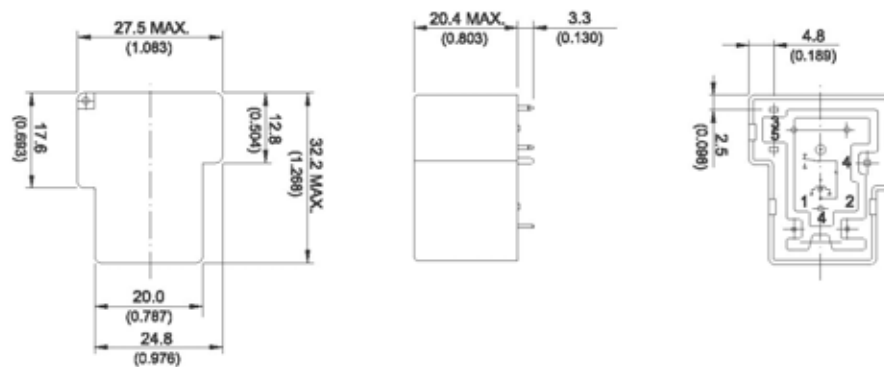
◆832A (OPEN)



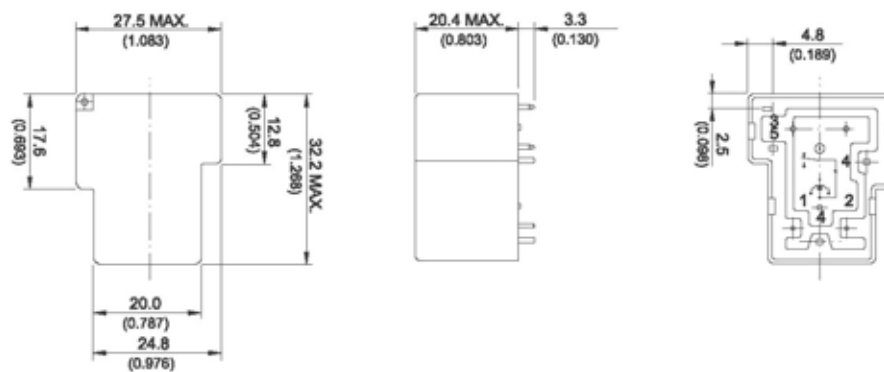
◆832 (OPEN)



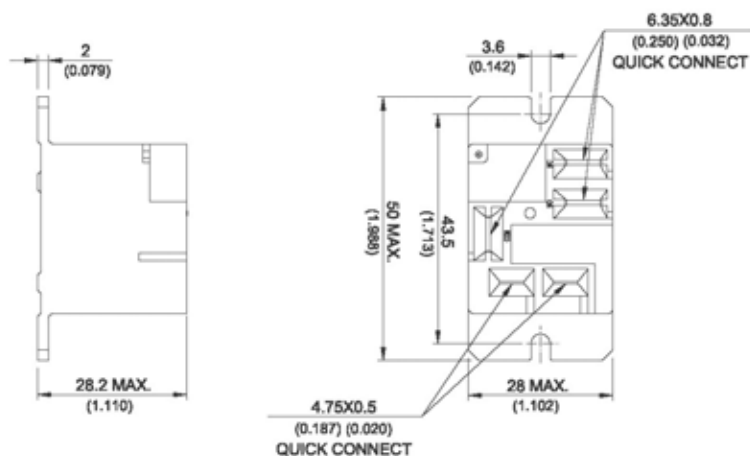
◆832A (-C,-D,-S)



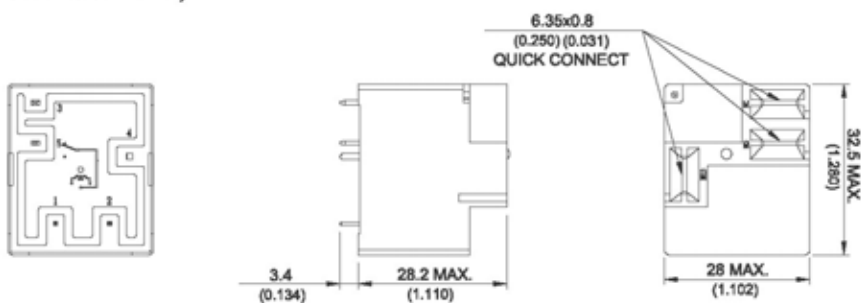
◆832 (-C,-D,-S)



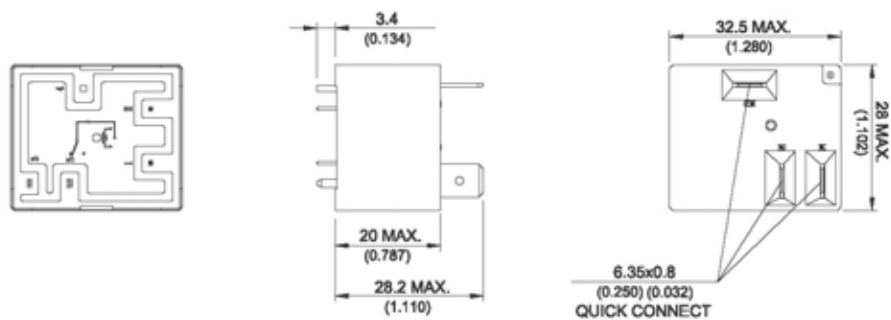
◆832AW



◆832AWP (Cover with shroud)



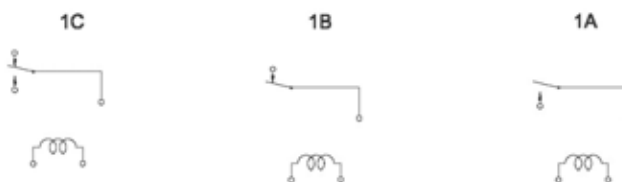
◆832AWP



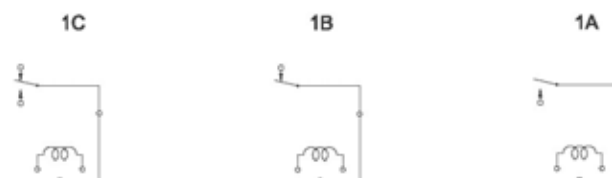
»» Wiring Diagram

BOTTOM VIEW

◆832A



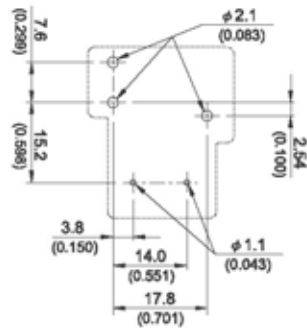
◆832



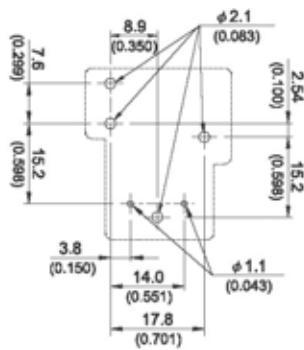
»» PC BOARD LAYOUT

BOTTOM VIEW

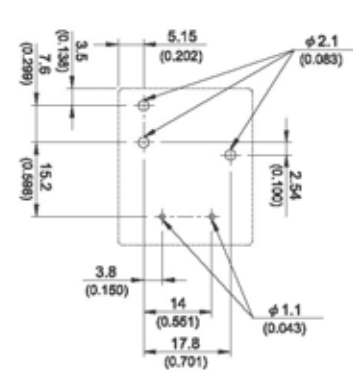
◆832A



◆832



◆832AWP



»» Engineering Data

