



- >>>> Features
  - Mini ISO high power automotive relay 30A/50A.
  - $\cdot$  High temperature endurance up to 125°C.
  - Optional SPNC, SPNO, SPDT, DPNO contact configurations.
  - $\cdot$  Optional to be equipped with protection diode or resistor.
  - Both available PCB terminal and quick connect terminal versions.
  - Available for plain cover type, skirted cover flanged cover, and weather proof versions.
  - $\cdot$  Tinned terminal is available on request.
  - Comply with RoHS-Directive 2002/95/EC, and ELV-Directive 2000/53/EC.
  - Sockets on request.

>>>>	Туре	List
------	------	------

Terminal	Contact	Enclosure style				
style	form	Dust cover	Flux tight	Sealed type washable		
	1A (SPNO)	896-1AH-D	896-1AH-C	896-1AH-S		
	TA (SPNO)	896H-1AH-D	896H-1AH-C	896H-1AH-S		
		896-1CH-D	896-1CH-C	896-1CH-S		
Socket terminal	1C (SPDT)	896H-1CH-D	896H-1CH-C	896H-1CH-S		
	2A (DPNO)	896-2AH-D	896-2AH-C	896-2AH-S		
		896H-2AH-D	896H-2AH-C	896H-2AH-S		
		896P-1AH-D	896P-1AH-C	896P-1AH-S		
	1A (SPNO)	896HP-1AH-D	896HP-1AH-C	896HP-1AH-S		
		896P-1CH-D	896P-1CH-C	896P-1CH-S		
PCB terminal	1C (SPDT)	896HP-1CH-D	896HP-1CH-C	896HP-1CH-S		
		896P-2AH-D	896P-2AH-C	896P-2AH-S		
	2A (DPNO)	896HP-2AH-D	896HP-2AH-C	896HP-2AH-S		

· ·	<b>C</b>	Enclosure style				
Terminal style	Contact form	Flanged cover ( dust cover)	Flanged cover (flux tight)			
	1A (SPNO)	896-1AH-D1	896-1AH-C1			
		896H-1AH-D1	896H-1AH-C1			
Contract to main all	1C (SPDT) 2A (DPNO)	896-1CH-D1	896-1CH-C1			
Socket terminal		896H-1CH-D1	896H-1CH-C1			
		896-2AH-D1	896-2AH-C1			
		896H-2AH-D1	896H-2AH-C1			



Terminal style	Contract	Enclosure style			
	Contact form	Steel bracket ( dust cover)	Steel bracket (flux tight)		
	1A (SPNO)	896-1AH-D1S	896-1AH-C1S		
	TA (SPNO)	896H-1AH-D1S	896H-1AH-C1S		
Socket terminal	1C (SPDT)	896-1CH-D1S	896-1CH-C1S		
SUCKEL LEITIIITAL		896H-1CH-D1S	896H-1CH-C1S		
		896-2AH-D1S	896-2AH-C1S		
	2A (DPNO)	896H-2AH-D1S	896H-2AH-C1S		

Terminal	Terminal Contact Designa		Enclosure style		
style		(provided with)	Steel bracket ( dust cover with shroud)	Steel bracket (dust cover with weather proof)	
Socket terminal	1C (SPDT)	Resistor	896H-1CH-D1SF-R1	896H-1CH-D1SW-R1	

### >>>> Ordering Information

89 1	6	H 2	Р 3	-	1CH 4	-	C 5	-	R1 6	-	Т 7	001 8	
1.	896	6 Basic series designation						D1S C1S			et (dust cover) et (flux tight)		
2.	Blank H	Standard High powe	<i>'</i>						S1S	Ste wa	eel brack ashable)	et (sealed type	vith
3.	Blank P	Socket ter PCB termi								sh Ste	roud)	et (dust cover v et (dust cover v roof)	
4.	1AH 1BH 1CH	Single pole material A Single pole material A Single pole	.gSnO e normal gSnO	lly clo	osed, cor	ntact		6.	Blank R1	Co		ype l with resistor 1 ,24V 2700	/2W for
	2AH	material A Double po material A	gSnO le doubl					7.	Blank T	Sp	andard t ecial req rminal	ype uirement for Tir	n plated
5.	D C S C1 D1 S1	Dust cover Flux tight Sealed typ Flanged co Flanged co Flanged co washable)	e washa over (flux over (dus over (sea	c tigh st co	ver)			8.	Blank 001 002	Со ро Со	sitive po il paralle	ype I with diode IN4 Ie on # 85 tern I with diode IN4 ole on # 85 ter	ninal 4007 the

### >>>> Contact Rating

Туре	896 1A	896 1B		896 1C	896 2A
Resistive load	40A 14VDC	40A 14VDC		NO : 40A 14VDC	2×15A 14VDC
Resistive load				NC : 30A 14VDC	
Туре	896H 1A	896H 1B		896H 1C	896H 2A
Desistive lead	50A 14VDC	40A 14VDC	NO :	50A 14VDC, 20A 28	/DC 2×30A 14VDC
Resistive load	20A 28VDC 15A 28VDC N		NC :	30A 14VDC, 15A 28\	/DC 2×10A 28VDC

### >>>> Coil Rating(DC)

Rated	Rated current	Coil resistance	Max. continuous	Pick up	Drop out	Power consumption
voltage	±10 % at 23ºC	±10 % at 23ºC	Voltage	voltage(Max)	voltage(Min)	at rated
(V)	(mA)	(Ω)	at 85°C <sup>(1)</sup>	at 23ºC	at 23ºC	voltage
12	133	90	120% of	65% of	10% of	
24	66.7	360	rated	rated	rated	approx. 1.6W
			voltage	voltage	voltage	

Notes: (1) Without switching the load.

### >>>> Specification

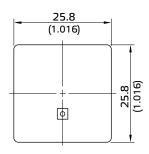
Contact material	AgSnO alloy	AgSnO alloy				
Contact voltage drop <sup>(1)</sup>	Typ. 50mV at 10A	Typ. 50mV at 10A				
Insulation resistance <sup>(1)</sup>	20MΩ Min. (DC 500V)	)				
Operate time <sup>(1)</sup>	20ms Max.					
Release time <sup>(1)</sup>	20ms Max.					
Dielectric strength <sup>(1)</sup>	Between open contac	t : AC 500V , 50/60Hz 1 min.				
	Between contact and coil : AC 500V , 50/60Hz 1 min.					
Vibration resistance	Operating extremes 10~55Hz , amplitude 2mm					
Shock resistance	Operating extremes	10G				
	Damage limits	100G				
	Mechanical	10,000,000 operations				
Life expectancy		(frequency 18,000 operations/hr)				
	Electrical	100,000 operations				
		(frequency 1,200 operations/hr)				
Temperature range	Operating	-40 $\sim$ +125°C (no freezing)				
Weight	Approx. 40 g					

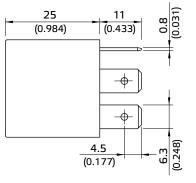
Note: (1) initial value

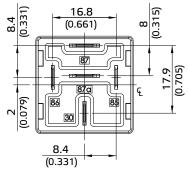


>>>> Outline Dimensions

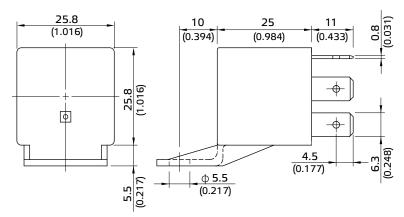
♦896,896H (C,D,S)

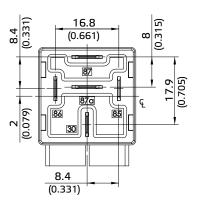




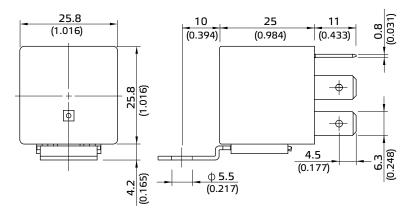


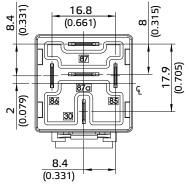
♦896,896H (C1,D1,S1)



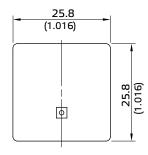


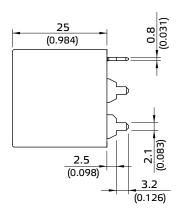
### ♦896,896H (C15,D15,S15)

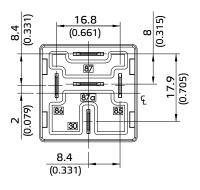




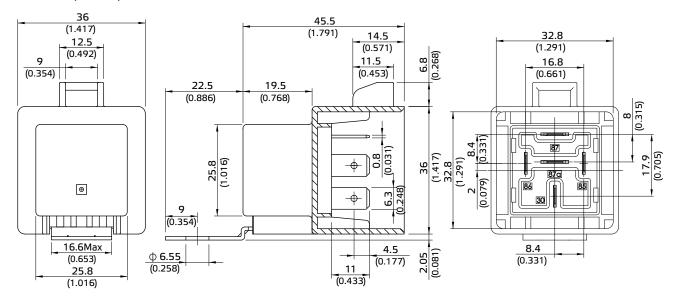




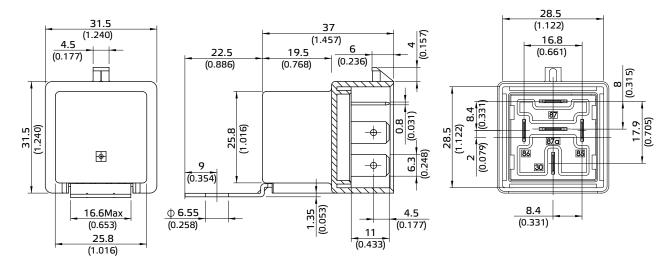




♦896H (D1SW)



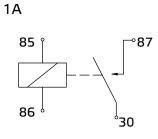
♦896H (D1SF)

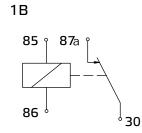


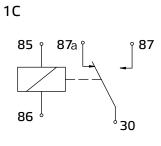


Wiring Diagram воттом view

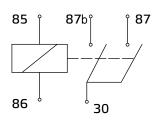
2A

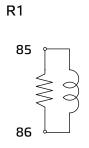


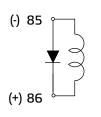




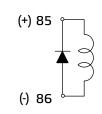
002



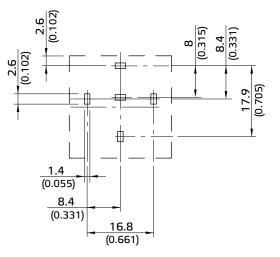




001

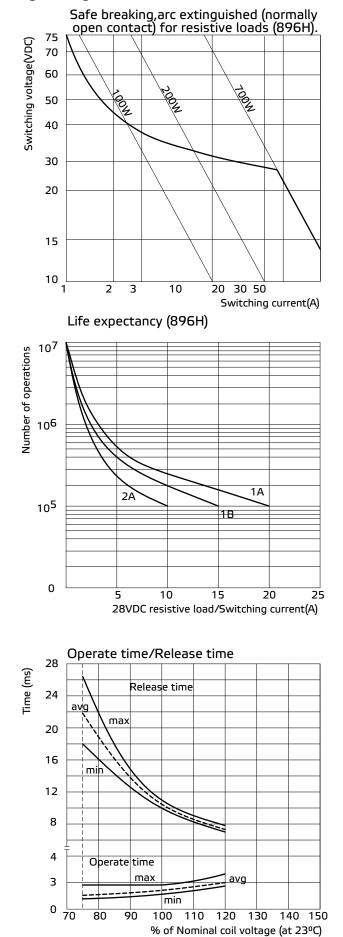


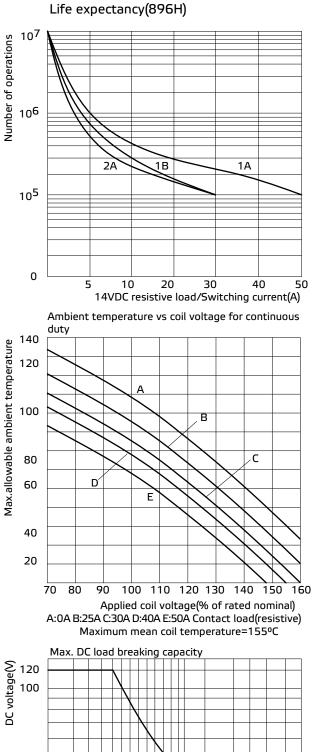
### >>>> PC Board Layout

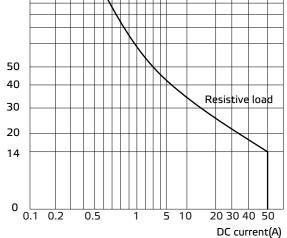


Song CHUAN

#### >>>> Engineering Data







### SERIES NO. 896H

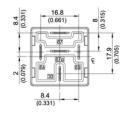
#### Series No. 896H

#### Features:

Contact Rating 50A High Temperature Version 4 Different Contact Arrangements Standardized Design for Plug-in Quick Connect Terminals and PCB Optional Mounting Bracket

#### Drawing/Terminal layout:

Relay photograph:





DESCRIPTIC	DN .	DETAILS	DESCRIPTION	DETAILS
Size(LxWxH terminals	) not including	25.8x25.8x25	Contact Configuration	1 FORM C TO 2 FORM A
Max.Allowab	ble Contact current	50A	Contact Rating Resistive load	50A/14VDC
Insulation S	ystem	None	Coil Voltage	DC: 12-24VDC
Coil Operati voltage	ng Power at nominal	DC: 1.6W	Expected mechanical life (min.)	1x10^7
Expected ele	ectrical life (min.)	1x10^5	Terminal type	Auto Relays
Dielectric St	rength AC Voltage- 1	minute		
Between op	en contact	500V	Between contact and coil	500V
Between cor	ntact circuits			
DATASHEET				
E 896H.pdf	1633 Kb			