

»» Features

⊖ High rating miniature PCB Relay. ⊖ AC & DC coil are both available. ⊖

UL/CUL and VDE approved.

⊖ 17A 277VAC SPDT. ⊖ Low profile 15.7mm and high insulation system Class F.

⊖ High CTI 250 material & New Glow Wire Approved.

(E version) ⊖ Special version for inrush rating application is available.



(888-IR type) ⊖ Comply with RoHS-Directive



2002/95/EC. Type List

⊖Standard Type

Terminal style	Contact form	UL Insulation system approval	Designation (provided with)		
			Flux tight	Sealed type	Sealed type washable
PCB terminal	1A (SPNO)	F	888-1AC-F-C	888-1AC-F-V	888-1AC-F-S
			888-1AH-F-C	888-1AH-F-V	888-1AH-F-S
	1C (SPDT)	F	888-1CC-F-C	888-1CC-F-V	888-1CC-F-S
			888-1CH-F-C	888-1CH-F-V	888-1CH-F-S
	2A (DPNO)	F	888-2AC-F-C	888-2AC-F-V	888-2AC-F-S
			888-2AH-F-C	888-2AH-F-V	888-2AH-F-S
	2C (DPDT)	F	888-2CC-F-C	888-2CC-F-V	888-2CC-F-S
			888-2CH-F-C	888-2CH-F-V	888-2CH-F-S

⊖High Sensitivity Type (N) / Ultra-Sensitivity Type (N1)

PCB terminal	1A (SPNO)	F	888N-1AC-F-C	888N-1AC-F-V	888N-1AC-F-S	
			888N1-1AC-F-C	888N1-1AC-F-V	888N1-1AC-F-S	
			888N-1AH-F-C	888N-1AH-F-V	888N-1AH-F-S	
			888N1-1AH-F-C	888N1-1AH-F-V	888N1-1AH-F-S	
	1C (SPDT)	F	888N-1CC-F-C	888N-1CC-F-V	888N-1CC-F-S	
			888N1-1CC-F-C	888N1-1CC-F-V	888N1-1CC-F-S	
			888N-1CH-F-C	888N-1CH-F-V	888N-1CH-F-S	
			888N1-1CH-F-C	888N1-1CH-F-V	888N1-1CH-F-S	
			F	888N-2AC-F-C	888N-2AC-F-V	888N-2AC-F-S

	2A (DPNO)		888N-2AH-F-C	888N-2AH-F-V	888N-2AH-F-S
	2C (DPDT)	F	888N-2CC-F-C	888N-2CC-F-V	888N-2CC-F-S
			888N-2CH-F-C	888N-2CH-F-V	888N-2CH-F-S

High Power Type

PCB terminal	1A (SPNO)	F	888H-1AC-F-C	888H-1AC-F-V	888H-1AC-F-S
			888H-1AH-F-C	888H-1AH-F-V	888H-1AH-F-S
	1C (SPDT)	F	888H-1CC-F-C	888H-1CC-F-V	888H-1CC-F-S
			888H-1CH-F-C	888H-1CH-F-V	888H-1CH-F-S

High Power Type High Sensitivity Type

PCB terminal	1A (SPNO)	F	888HN-1AC-F-C	888HN-1AC-F-V	888HN-1AC-F-S
			888HN-1AH-F-C	888HN-1AH-F-V	888HN-1AH-F-S
	1C (SPDT)	F	888HN-1CC-F-C	888HN-1CC-F-V	888HN-1CC-F-S
			888HN-1CH-F-C	888HN-1CH-F-V	888HN-1CH-F-S

Note K888A Special footprint 5.0mm pinning version can be selected

Inrush Type (only for 0.53W)

PCB terminal	1A (SPNO)	F	888H-1AH-F-C IR	888H-1AH-F-V IR	888H-1AH-F-S IR
	1C (DPDT)		888H-1CH-F-C IR	888H-1CH-F-V IR	888H-1CH-F-S IR

Ordering Information

888 - 1C C - - C
 1 2 3 4 5 6 7 8

Tungsten Lamp	NO:1500W 240VAC 30,000 ops. (Inrush 110A)
Halogen Lamp	NO:1500W 240VAC 30,000 ops. (Inrush 110A)

- Basic series designation
- 1. 888 -- Standard type
(1P - Terminal pitch 3.5mm)
- 2. Blank -- Standard type and special terminal pitch
(2P - Terminal pitch 5.0mm)
- A -- High power type (only for 1P type)
- H -- Standard type
(DC: 0.53 W) (AC: 0.75 VA)
- 3. Blank -- High sensitivity type (0.40 W)
- N -- Ultra-sensitivity type (0.25 W)
- N1 (only for 1P type)
- Single pole normally open
- 4. 1A 1B -- Single pole normally closed -
- 1C - Single pole double throw
- 2A -- Double pole normally open
- 2B 2C -- Double pole normally closed
- Double pole double throw
- 5. C
- CA -- Contact material AgNi
- H -- Contact material AgNi + Au
- HA -- Contact material AgSnO
- Contact material AgSnO+ Au
- 6. BlankF
- 7. CV -- Standard type
- S -- Class F
- 8. Blank -- Flux tight
- IR -- Sealed type
- Sealed type washable
- E -- Standard type
- 888 Inrush type (only for HE1A/1C type)
- CTI 250V

»»»Contact Rating

Type	1P			2P
	888E888N	888N1	888HE888HN	888E888N
Rated load (resistive)	12A 240VAC	10A 240VAC	16A 240VAC	8A 240VAC
Max. switching current	12A	10A	17A	8A
Max. switching voltage	277VAC	277VAC	277VAC	277VAC
Max. switching capacity	2880VA	2400VA	4080VA	1920VA

⊖ Inrush type

Coil Rating (DC)

⊖ Standard Type

Rated voltage (V)	Rated current p10 % at 23 °C (mA)	Coil resistance p10 % 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
3	176	17	150 % of rated voltage	75 % of rated voltage	10 % of rated voltage	approx. 0.53W
5	106	47				
6	88	68				
9	59	153				
12	44	272				
15	35	425				

18	29	611				
24	22	1,087				
36	15	2,445				
48	11	4,347				

6 High Sensitivity Type (N)

Rated voltage (V)	Rated current p10 % at 23°C (mA)	Coil resistance p10 % 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
3	133	22.5	150 % of rated voltage	70 % of rated voltage	10 % of rated voltage	approx. 0.40W
5	80	62				
6	67	90				
9	44	203				
12	33	360				
18	23	771				
24	17	1,440				
36	11	3,240				
48	9	5,520				

6 Ultra-Sensitivity Type (N1)

Rated voltage (V)	Rated current p10 % at 23°C (mA)	Coil resistance p10 % 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
3	83	36	150 % of rated voltage	75 % of rated voltage	10 % of rated voltage	approx. 0.25W
5	50	100				
6	42	144				
9	28	324				
12	21	576				
18	14	1,296				
24	10	2,304				
36	7	5,184				

»»Coil Rating (AC)

Rated voltage (V)	Rated current p10% at 23°C (mA)	Coil resistance p10% 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
6	124	18.8	110 % of rated voltage	80 % of rated voltage	15 % of rated voltage	approx. 0.75VA
12	62.5	79.8				
24	31.2	334				
42	17.9	966				
48	15.5	1,340				
100/110	7.53	6,840				
110/120	6.8	7,360				
200/220	3.75	23,800				
220/240	3.4	27,400				

»» Specification

Contact material	AgNi / AgSnO alloy	
Contact resistance ⁽¹⁾	100mΩ Max. (1A(100mA for Au-plating contact)/6VDC by 4 pipes m7 meter)	
Operate time ⁽¹⁾	20ms Max.	
Release time ⁽¹⁾	10ms Max.	
Insulation resistance ⁽¹⁾	1000MΩ Min. (DC 500V)	
Dielectric strength ⁽¹⁾	Between open contact	: AC 1000V, 50/60Hz 1 min.
	Between contact and coil	: AC 5000V, 50/60Hz 1 min.
	Between contact circuits	: AC 3000V, 50/60Hz 1 min. (for 2P DC type) AC 2500V, 50/60Hz 1 min. (for 2P AC type)
Surge voltage withstand	Between contact and coil : 10KV (1.2X50)µS	
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	30,000,000 operations (frequency 72,000 operations /hr) 5,000,000 operations (for 2P AC type) (frequency 18,000 operations /hr)

	Electrical	100,000 operations (frequency 360 operations /hr)
Operating ambient temperature	DC coil	-40 ~+85°C (no freezing) ⁽²⁾
	AC coil	-40 ~+70°C (no freezing)
Weight	Approx. 10 g	

Note(1) initial value

(2) special version of high temperature 105°C can be selected.

Safety Approval

Certified	UL / CUL	VDE
File No.	E88991	40006746

Safety Approval Rating (VDE)

⊖ DC coil

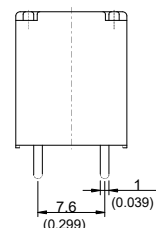
⊖ AC coil

888HE888HN	888E888NE888N1	888E888N	888H	888
	1P	2P		
17A 250VAC T105	12A 250VAC T105	12A 250VAC T85 10A 250VAC T105	17A 250VAC T85	1P: 12A 250VAC T85 2P: 10A 250VAC T85

Safety Approval Rating (UL/CUL)

888 (1P)		888 (2P)	888N1
CaCA	HaHA		
NO/NC: 17A 277VAC NO: 12A 30VDC 1HP 480VAC NC: 1/2HP 120/240/480VAC	NO/NC: 17A 277VAC NO: 1HP 120/240/480VAC! TV-8 NC: 12A 30VDC 1/2HP 120/240/480VAC	NO/NC: 12A 277VAC NO: 1/2HP 120/240VAC TV-5 (HaHA type only) NC: 1/3HP 120/240VAC	17A 277VAC 12A 30VDC

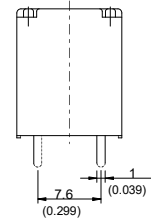
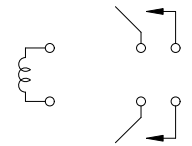
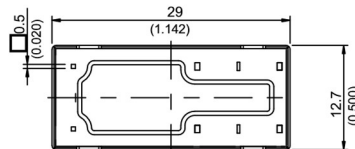
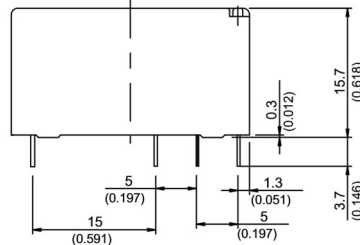
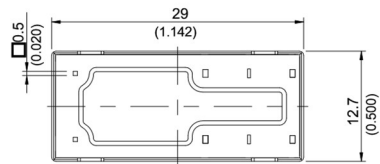
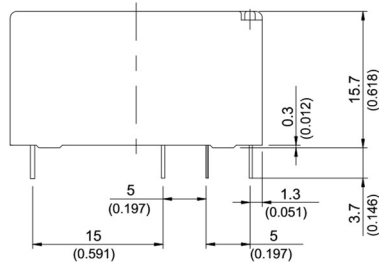
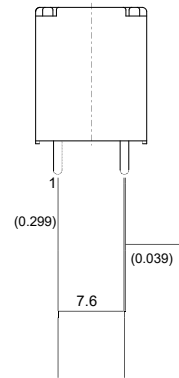
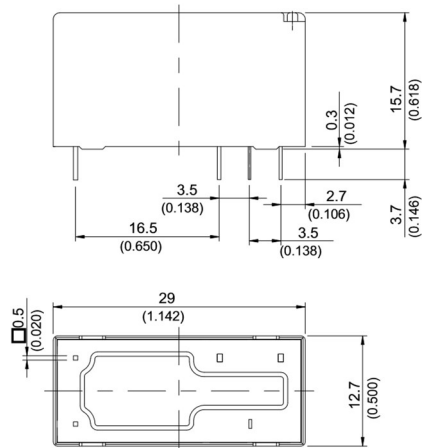
Outline Dimensions



⊖888 1P

6888H 1P

6888 2P

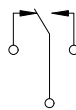


»» Wiring Diagram

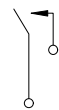
BOTTOM VIEW

6888

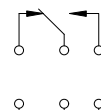
1C



1A



2C

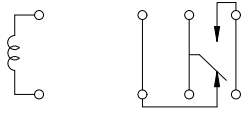


2A

6888H

1C

1A

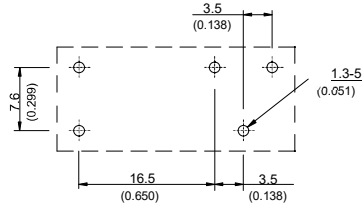


»» PC Board Layout

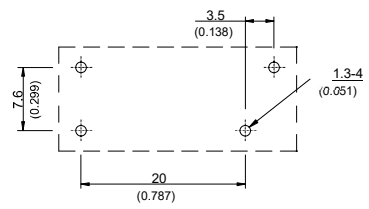
BOTTOM VIEW

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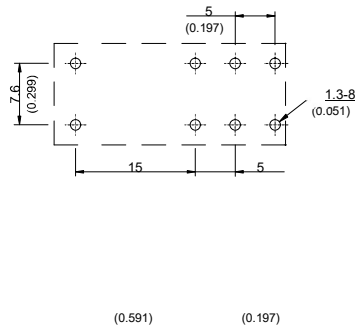
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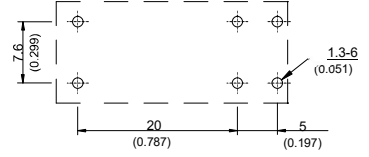
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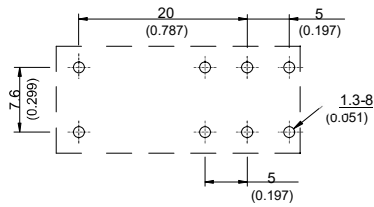
2C



2A

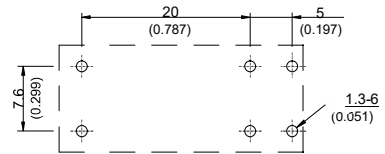


1C

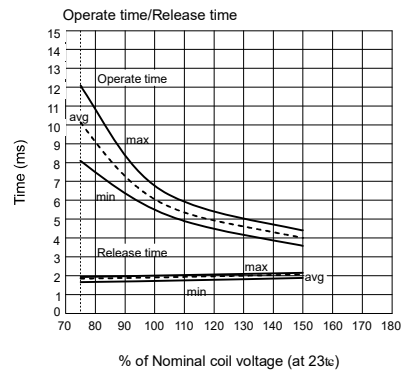
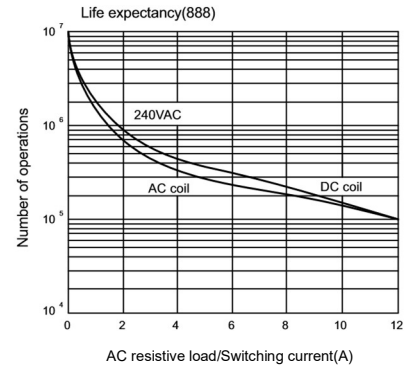
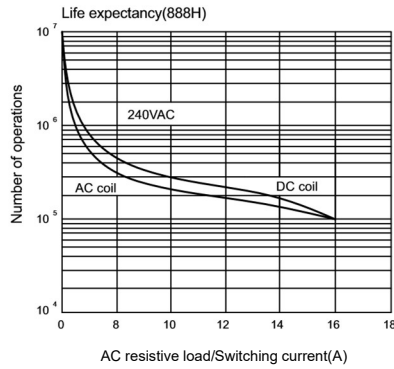
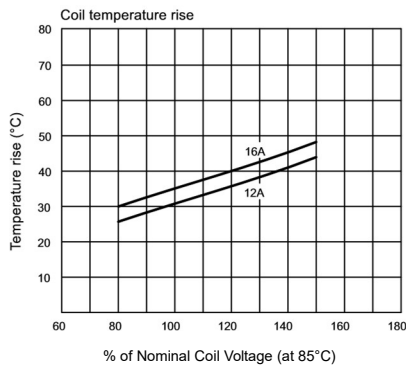
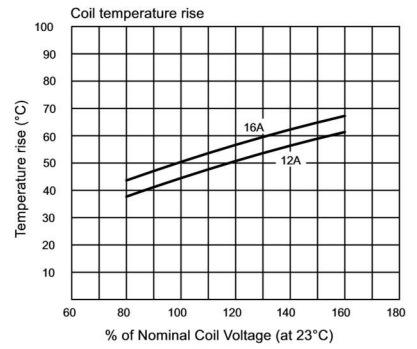
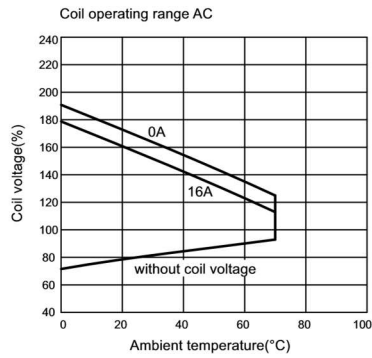
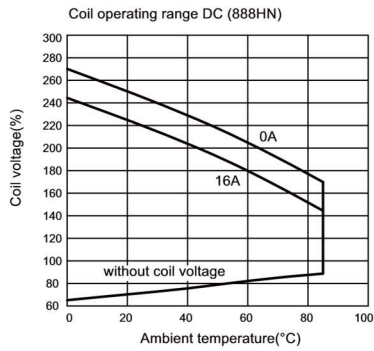


Б·888H

1A



Engineering Data



888 / 888H

