OMRÓN

(Customer)

⟨Opti	onal items are indicated by a check r	nark. 🚺 )	No. : OMI-G5SB-08	3004 A (2 / 8)
1.	Туре		PCB POWER RELAY	
2.	Structure			
2.1	. Outline drawing	Drawing No.: _	9418932-7	
2.2	Structure drawing	Drawing No.: _	CONT	ROLLED COPY
2.3	Contact structure		17/	OCT 2008
2.4	Contact mechanism		Single Contact	T CONTROL CENTRE
2.5	Contact material	Surface material	Base mate	erial Ag alloy
2.6	Protective structure	Plastic seale	ed 🗹 Flux protection 🗌	
3.	Standards			
3.1.	Authorized specifications		UL, CSA, VDE	<del>.</del>
3.2.	Applicable specifications	UL 508 CSA (C22.2 No. IEC (255), VDEC		8
3.3.	Conforming specifications	Electrical ap	pliance and material control la	w of JAPAN
4.	Ratings	÷		
4.1.	Operating coil (1) Rated voltage & frequency	√ Refer to table	e 1. (Initial values)	Hz
	(2) Rated current	Setting curre	nt <u> </u>	x ± 10 % — Hz)
	;	Resetting cur	rrent <u> </u>	
	(3) Coil resistance	Setting resist	\	
	(4) Rated power consumption	Resetting res	<del></del>	<u> </u>
	(5) Allowable range of voltage fluctuation: 90 to 110 % of the rat			
4.2	Switching section (1) Rated load	Resistive load	250VAC 5A (NO) 125VAC 3A (NO) 30VDC 5A (NO)	50K ops 200K ops 100K ops

The units and figures in brackets { } are for reference only.

( Óptional items are indicated by a check mark.	√ ) No.: OMI-G5SB-08004 A (3 / 8)
(2) Rated current (3) Maximum contact voltage (4) Maximum contact current	5A AC250_V DC30V Resistive load
	AC <u>5</u> A DC <u>5</u> A  Inductive load AC <u>— A</u> (P.f. = <u>—</u> )  DC <u>— W</u>
(5) Maximum switching capacity	(L/R =ms)   Resistive load   AC1250
(6) Minimum applicable load	DC W (L/R= ms)  DC5 V 10 mA
	( P standard, reference value ) ( $\lambda 60 = 0.1 \times 10^{-6}$ ) ( Switching frequency : ) CONTROLLED CORY 2 0 OCT 2008
5. Performance (Initial values)	The second secon
5.1. Contact resistance	
	✓ Measured by the voltage drop method with 5 VDC 1 A
	Measured by
5.2. Operate voltage	Setting voltageV max.
	✓ Refer to Table 1.
5.3. Release voltage	Resetting voltageV min.
	✓ Refer to Table 1.
5.4. Operate time	Setting time 10 ms max. (operated with rated voltage)
5.5. Release time	Resetting time 5 ms max. (operated with rated voltage)
5.6. Insulation resistance	( √ 500 VDC  250 VDC )
(1) Between coil and contacts.	
(2) Between contacts of opposite po	larities Megaohm min.
(3) Between contacts of the same po	4 000 Manuschus meins
(4) Between set coil and reset coil.	Megaohm min.
(5) Between coil / contact terminals non - charged metallic section ( g	in the state of th
non - charged metanic section ( (	; : : : : : : : : : : : : : : : : : : :

( Optional items are indicated b	y a check mark. 🕡 )	No.: OMI-G5SB-08004 A (4 / 8)
(3) Between contacts (4) Between set coil a (5) Between coil / con	contact. of opposite polarities of the same polarity	mA, 50/60 Hz, 1 minute of application )  CONTROLLED COOP 4,000 VAC  VAC  2 0 OCT 2008 1,000 VAC  VAC  COMMENT CONTROL CENTROL  VAC  VAC
5.8. Temperature rise (1) Coil	45 (Ta 85°C) ma Voltage applied to coi Contact current :	1;
(2) Contact		hermometer method )  I: 100 % — Hz of the rated voltage.  5 A
5.9. Vibration resistance (1) Durability	( 1.50 mm double an	with a single amplitude of <u>0.75</u> mm  plitude) and frequency of <u>10 to 55 to 10</u> Hz ction for 2 hours, no abnormality in structure all be observed.
(2) Malfunction  √ Set status (When Energized)	( <u>1.50</u> mm double and is applied in each dire	with a single amplitude of <u>0.75</u> mm  plitude) and frequency of <u>10 to 55 to 10</u> Hz  ction for <u>1</u> cycle (5 minutes).  more than <u>1</u> ms shall be observed.
Reset status ( When not Energized )	( <u> </u>	with a single amplitude of mm iplitude) and frequency of Hz ction for cycle (5 minutes). more than ms shall be observed.
5.10. Shock resistance (1) Durability		abnormality in both the construction and e relay is subjected to a shock of _1,000 m/s² 3 _ times.
(2) Malfunction  √ Set status ( When Energized )		en for <u>1</u> ms or longer after the relay is subjected to so in each direction for <u>3</u> times.
Reset status ( When not Energized )		n forms or longer after the relay is subjected to in each direction fortimes.
5.11. Terminal strength	the vertical axis for Must be free from any applied to the terminal	1 kgf { 9.8 N } is applied in the direction of 10 seconds, there shall be no abnormality. abnormality after a bend stress of ± 45° angle is in a round trip. However, dimensional deformation the force shall not be considered mechanical

8.1. Temperature

Operating conditions:

70 °C to There shall be no ice formation or dew condensation.

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8.2. Humidity

5 to

8.3. Mounting direction

Free

95 %RH

## 8.4. Environments

- (1) Products shall not be used in a place exposed to corrosive gases such a hydrogen sulfide gas or air containing salt.
- (2) There shall be no visible dust.
- (3) Products shall not be exposed to direct sunlight.

  No force or stress that can caused dimensional deformation or quality deterioration shall be applied.

9. Table 1 (Coil Ratings)

Table I ( Con I tallingo )		1 1 101111190 )	[					
ſ	R	ated	Rated	Coil	Operate	Release	Permissible	Power
Voltage		Itage	Current Resistance	Resistance	Voltage	Voltage	Voltage	Consumption
١	(V)		(mA)	$(\Omega)$	%	of Rated Volta	ige	( mW )
ı		5	80	62.5	75 Max.	5 Min.	90 ~ 110	400 Approx.
1		9	44.4	202.5				
1	Ī	12	33.3	360				
		24	16.7	1440				

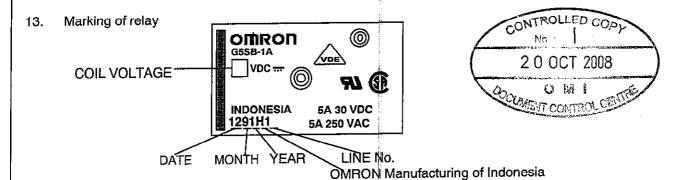
10. Change of indications

Specification other than the ratings, performance, structure and external dimensions and mounting dimension are subject to change.

- 11. Validity of specification sheet
  - 11.1 When no confirmation is received within one year of the issuing date of this specification sheet, this specification sheet will be invalidated.
- 11.2 This specification sheet is valid for 3 years after the date of receiving confirmation
- 12. Warranty period
- 12.1 Warranty period is one year from the date on which the products are delivered to the location designated by the customer.
- 12.2 Scope of warranty

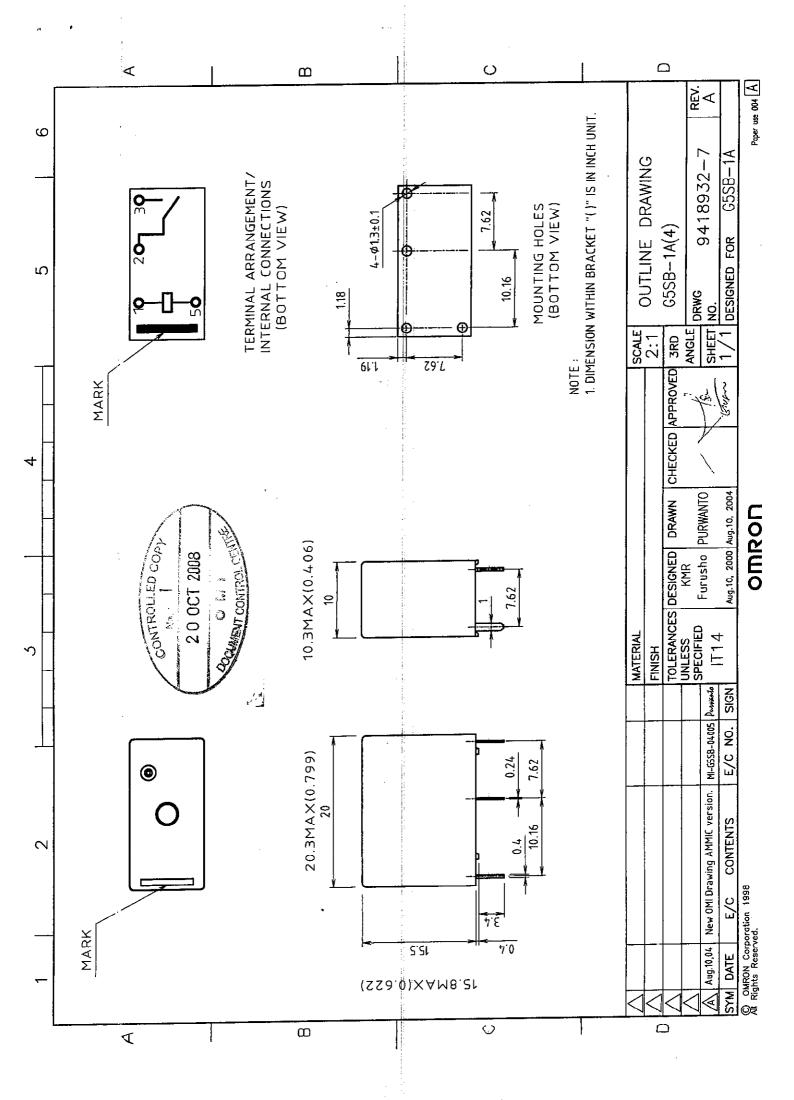
The warranty is limited only to repairs or replacement of defective parts, when Omron is responsible for the malfunctioning or defect that occurs during the warranty period.

The warranty applies only to individual products delivered by Omron. Therefore, the warranty does not cover any other damages induced by the malfunctioning of Omron products.



- 14. Handling cautions
- 14.1 Do not use ultrasonic cleaning, since it causes resonance inside the relay and can result in coil disconnection and contact sticking.
- 14.2 Do not drop products to avoid deterioration of the initial performance.





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