PRODUCT SPECIFICATION						OMRON
For reference For Approval			Spe	c. No. :	OMI-G5SB-0300	(1/8) 6A
	١		Date of	issue :	Nov. 7 '03	
O 8 NOV 2003			Issued	Jula	Checked by Sujatmoko	Approved by Isman N.
COCUMENT CONTROL CE			PT. OMR	ON MA	NUFACTURING	OF INDONESIA
CUSTOMER :						·
PRODUCT NAME :	PCB POWE	R REL	AY			
TYPE :	G5SB-1A4					·
SPECIFICATION :	5,9,12 & 24\	/DC				
We have sent you this product After you confirm, we would like If not returned, we will judge th	ce you to retu	ırn a co	opy to our side. (date:)
		t Confi	rmation and / App			
(Filled by Sale	s)			(Filled	by End Customer)
Distribution	No. of copies	Rev.	Date of revision		Revision co	ntents

OMRON

(Sales)

(Customer)

The units and figures in brackets { } are for	or reference only	
	. [7].	o.: OMI-G5SB-03006 A (2 / 8)
1. Type 2. Structure Optional items are indicated by a check management of the control of the		VER RELAY
2.1. Outline drawing	Drawing No.:	0414015
2.2. Structure drawing	Drawing No.:	0414018
2.3. Contact structure		1A
2.4. Contact mechanism	Sin	gle Contact
2.5. Contact material	Surface material	Base material Ag alloy
2.6. Protective structure	√ Plastic sealed ☐ Fi	ux protection
3. Standards	·	
3.1. Authorized specifications	UL,	CSA, VDE
3.2. Applicable specifications	UL 508 CSA (C22.2 No. 14) IEC (255), VDE0435	File No. E41515 File No. LR31928 File No. 40003957
3.3. Conforming specifications	Electrical appliance and	material control law of JAPAN
4. Ratings		
4.1. Operating coil (1) Rated voltage & frequency	√ Refer to table 1.	(Initial values)
(2) Rated current	Setting current	mA ±10% (at V Hz)
(3) Coil resistance	Resetting current Setting resistance	
(4) Rated power consumption	Resetting resistance Approx. 400 mW	%
(5) Allowable range of voltage fluc	tuation: <u>90</u> to	110% of the rated voltage
4.2 Switching section		

(1) Rated load Resistive load 250VAC 5A (NO) 125VAC 3A (NO)

125VAC 3A (NO) 30VDC 5A (NO) 277 VAC 2A (NO) 50K ops 200K ops 100K ops

200 K ops

(Optional items are indicated by a check mark.	√) No.: OMI-G5SB-03006 A (3 / 8)
(2) Rated current(3) Maximum contact voltage(4) Maximum contact current	5_A ₂ A} AC_250 V DC_30_V Resistive load
	AC <u>5</u> A DC <u>5</u> A Inductive load AC <u>— A (P.f. = _ —)</u>
(5) Maximum switching capacity	C
(6) Minimum applicable load	DC W (L/R=ms) DC5
5. Performance (Initial values)	(λ 60 = 0.1 x 10 ⁻⁶) (Switching frequency:
,	A See I will be a see I will b
5.1. Contact resistance	
5.2. Operate voltage	☐ Setting voltageV max. V Refer to Table 1.
5.3. Release voltage	Resetting voltageV min.
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 (1) Between coil and contacts. (2) Between contacts of opposite poils. (3) Between contacts of the same poils. (4) Between set coil and reset coil. (5) Between coil / contact terminals non - charged metallic section (oolarity 1,000 Megaohm min. — Megaohm min. and exposed — Megaohm min.

(2) Malfunction

√ Set status

(When

Contacts must not open for $_{1}$ ms or longer after the relay is subjected to a shock of $_{100}$ m/s² in each direction for $_{3}$ times.

Energized)
Reset status

(When not

Contacts must not open for ____ ms or longer after the relay is subjected to a shock of ____ m/s² in each direction for ____ times.

Energized)

5.11. Terminal strength

When stress force of $1 \text{ kgf } \{ 9.8 \text{ N} \}$ is applied in the direction of the vertical axis for 10 seconds, there shall be no abnormality. Must be free from any abnormality after a bend stress of \pm 45° angle is applied to the terminal in a round trip. However, dimensional deformation of terminal caused by the force shall not be considered mechanical

damage.

No.: OMI-G5SB-03006 A

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5.12.		perature resistance										
	(1)	Heat resistance	When left at a temperature of 85 ± 2 °C for 16 hours, then at									
			a normal temperature / humidity for 2 hours, no abnormality in									
			structure and characteristic shall be observed.									
	(2)	Cold resistance	When left at a temperature of -55 ± 3 °C for 72 hours, then at									
	(-)		a normal temperature / humidity for 2 hours, no abnormality in									
			structure and characteristic shall be observed.									
			Structure and orial actoristic shall be observed.									
5.13.	Hum	nidity resistance	When left at a temperature of $\underline{40 \pm 2}$ °C and relative humidity of									
			90 to 95 % RH for 48 hours, then at a normal temperature /									
			humidity for 2 hours, no abnormality in structure and characteristic									
			shall be observed. However, the insulation resistance shall be									
			5 MegaOhm min.									
												
5.14.	Sold	lering Heat Resistance	After terminal is immersed in a molten solder of $\underline{260 \pm 5}$ °C									
			10 seconds, then left a normal temperature / humidity for									
			2 hours, no abnormality in structure and characteristic shall be									
			observed.									
5.15.	Life	endurance										
	(1)	Mechanical endurance	times min.									
			(no contact load, switching frequency :18,000_ times / h)									
	(2)	Electrical endurance	refer to point 4.2(1) times min. 1,800 times / h)									
	(_)	Licothoai chadranoc	(under rated load switching frequency:									
			diluci rated load switching inequency.									
6.	Stan	dard testing conditions:	The specification values in this document are based on the									
		V	following testing conditions, unless indicated otherwise.									
6.1.	Tem	perature	23 °C CONTROLLED COPY									
			No.:									
6.2.	Hum	nidity	65% RH 0.8 NOV 2003									
			CON 1									
7.	Envi	ronments	COLMENT CONTROL CENTRAL									
	(1)	Products shall not be expos	ed to corrosive gases such a hydrogen sulfide gas, or air									
		containing salt.										
	(2)	The storage site shall have	no visible dust.									
	(3)	Products shall not be expos	ed to direct sunlight.									
	(4)	•	eause dimensional deformation or quality deterioration shall be									
	. ,	applied.										
8.	Ope	rating conditions:	Products shall be used under the following conditions:									
8.1.	Tem	perature	√40 to70 °C									
			There shall be no ice formation or dew condensation.									

No.: OMI-G5SB-03006 A (6/8)

8.2. Humidity

5 to 95 %RH

8.3. Mounting direction

Free

- 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.
 - (4) No force or stress that can caused dimensional deformation or quality deterioration shall be applied.

9. Table 1 (Coil Ratings)

	515 . (55.	ago <u>,</u>							
	Rated	Rated	Coil	Operate	Release	Permissible	Power		
	Voltage Curre		Voltage Current		Resistance	ance Voltage Voltage		Voltage	Consumption
	(V)	(mA)	(Ω)	%	of Rated Volta	ge	(mW)		
	5	80	62.5						
	9	44.4	202.5	75 Max.	5 Min.	90 ~ 110	400 Approx.		
	12	33.3	360	75 IVIAN.	J WIIII.	30~110	400 Applox.		
	24	16.7	1440						

10. Change of indications

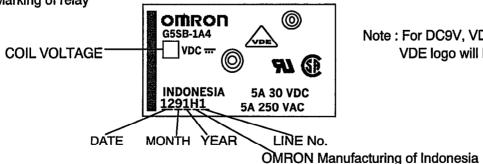
Specification other than the ratings, performance, structure and external dimensions and mounting dimension are subject to change.

- 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.

13. Marking of relay



Note: For DC9V, VDE still in progress
VDE logo will be put after get approval.

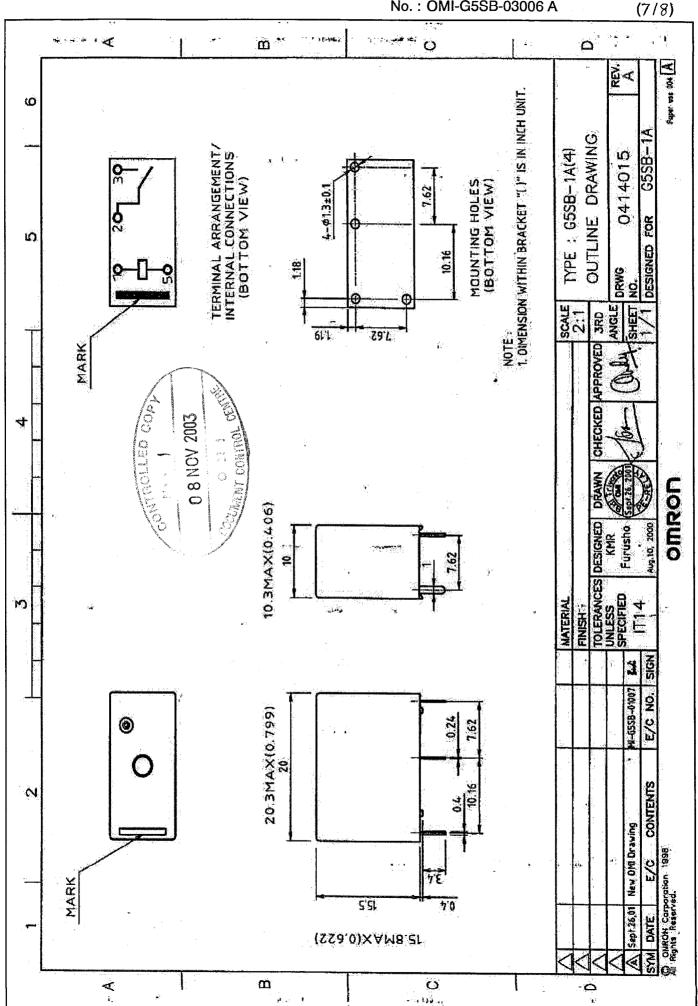
CONTROLLED COA

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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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<u>.</u>	MATERIAL NAME	POLYBUTYLENE TEREPHTHALATE	POLYBUTYLENE TEREPHTHALATE	POLYBUTYLENE TEREPHTHALATE	POLYBUTYLENE TEREPHTHALATE	SOFT MAGNETIC IRON PLATE	SOFT MAGNETIC IRON PLATE	SOFT MAGNETIC IRON BAR	COPPER ALLOY	COPPER ALLOY	COPPER ALLOY	SILVER ALLOY	SILVERALLOY	COPPER ALLOY	POLYURETHANE COPPER WIRE	EPOXY RESIN			APPLICATION	3	STRUCTURE DRAWING	DRWG 0414018	DESIGNED FOR 65SB-1A	Ager use 600 A
The state of the s	PARTS NAME	BASE	CASE	Toods	CARD	YOKE	ARMATURE	æ	HINGE SPRING	MOV. TERMINAL C	STA. TERMINAL A	MOV. CONTACT C	STA, CONTACT A	TERMINAL COIL	MAGNET WIRE			,#		SCALE	CHECKED APPROVED 3RD	ANGER STANGER		
*	2	*	~	m	4	ις.	۰	-	80	6	2	E	건	13	71	15	•				9 9 9	1	₹	
3.	***					C)		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	(6) (8) (7) (6)								35.		WATERA	ICES DESIGNED DRAWN	N-GSB-01008 E-2 SPECIFIED K-UDO ELL	100	COMROD
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