

For AC inductive loads, connect the load terminals of the SSR to a surge absorbet (variator). Protective Terminal

> s**+**+ voltage Input Input

> > ienimiel

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(Bottom View)

(L.Z)

The SSR for DC switching a surge can connect to a load regardless of the polarity of the positive and negative output terminals. Connection

Note: 1. TÜV marking is available with "-UTU" in place of "-US" on the part number.

2. G3M-205P(L)-VD is approved by UL, CSA and VDE.

312

54 ADC 15 ADC

9 ADC 54 ADC 15 ADC

5 VDC

(New) G3M-205PL

G3M-203PL

5 A at 100 to 240 VAC (DAV 4-05 of 37 ts A 3)

3 A at 100 to 240 VAC (DAV 462 of 37 ts A 2)

To convert millimetres into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527. ALL DIMENSIONS SHOWN ARE IN MILLIMETRES.

# C3KD-101FN/-X02FN C3K-102P□/-202P□ Note: All units are in millimeters unless otherwise indicated. - enoienemio Solid-State Relay - G3R/G3RD

🖛 .xem mmes ----

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.xem mmč h

## Precautions -



CAT. No. K059-E2-05

ləboM	Rated input	Rated output load	Indicator	Zero cross function	Input terminal	ation
	voltage	(bsol ruqruo eldsoilqqA)		~ ~ ~	L 00	
G3M-202P-US-4	207000 2 ADC	2 A at 100 to 240 VAC (2 A at 75 to 132 VAC)	٥N	səy	mm 80.č	otriac
	15 ADC	<i>,</i> ,				
	54 ADC					
G3M-203P-4	€ ADC	3 A at 100 to 240 VAC (3 A at 75 to 264 VAC)				
	15 ADC					
	54 ADC					
G3M-102PL-US-4	€ ADC	2 A at 100 to 120 VAC		٥N		
	15 ADC	(3AV 443 of 35 the A 8)				
	54 ADC					
G3M-202PL-US-4	e ADC	2 A at 100 to 240 VAC				
	15 ADC	(2AV 462 of 37 16 A 2)				
	54 ADC					
G3M-203PL-4	e ADC	3 A at 100 to 240 VAC				
	54 ADC	(3AV 462 of 37 fs A 8)				
Ğ3W-S08PL-4	e ADC	5 A at 100 to 240 VAC				
(waN)	15 ADC	(DAV 4432 of 37 16 A 3)				
	54 ADC					

Voltage levels		Jmpedance	erating voltage
Must release voltage	Must operate voltage		
1 VDC min.	4 VDC max.	300 び ∓20%	ADC
	9.6 VDC max.	800 び ∓20%	14'4 ADC
	19.2 VDC max.	1°6 איס ≠20%	0 28.8 VDC
		input versions.	-VDC, and 24-VDC i

	bsol əldsəilqqA		Rated voltage	leboM
lnrush current	Load current	egetiov bsol		
30 A (60 Hz, 1 cycle)	A 2 of 1.0	75 to 132 VAC	100 to 120 VAC	(1-) SU-10201-MED
		75 to 264 VAC	100 to 240 VAC	G3M-202P(L)-US (-4)
(9byc) t (5H 08) A ∂4	A £ of 1.0			G3M-203P(L) (-4)
	A 7 of 1.0			G3M-205P(L) (-4)



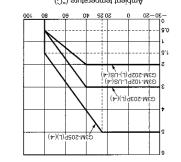
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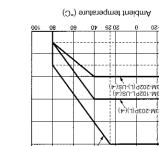
OMRON

### ∙чЭ ∎ oitain Solid-State Relay – G3M

3dpi9W	Approx. 15 g			₽ dprox. 25 g
tibimud tneidmA	Operating: 45% to 85%	%		
anutsraqmat traidmA		0°C (with no icing or cond 0°C (with no icing or con		
Shock resistance	s∖m 000,1 :noitonutlisM	5		
Vibration resistance	1 22 of 01 :notion:16M	utilqms elduob mm-∂.1 ,z⊦	əp	
Dielectric strength	2,000 VAC, 50/60 Hz	ior 1 min	2,500 VAC, 50/60 Hz for 1	uim
Insulation resistance	1,000 Ms2 min. (at 500	ADC)		
Leakage current	2 mA max. (at 100 VAC)	2 mA max. (at 100 5 mA max. (at 200 VAC)	() AV 002 ts) Am 8.1	
Output ON voltage drop	.xsm (2MA) V 8.1			
Release time	1/2 of load power sour	ce cycle + 1 ms max.		
Operate time	beol to 2\r) .xem em r	bower source cycle + 1 m	s max. for G3M-202P, G3M	-2036; G3M-205P)
məti	G3M-102PL-US (-4)	G3M-202P(L)-US (-4)	G3M-203P (L) (-4)	G3M-206P (L) (-4)

	•	Approved Standards
VÜT yd bevorqqA	ASD by CSA (Report No. LR35535)	Approved by UL (Report No. E64562)
G3M-202P(L)-UTU(-4) G3M-203P(L)-UTU(-4)	G3W-503b(F)(-4) G3W-505b(F)-N2(-4)	G3W-503Ь(Г)(-∢) G3W-503Ь(Г)-∩8(-∢)





(zm) əmit çniziçnən3 000'1 005 007 001 09 00 01, C3M-202P(L)-US(4) C3M-102PL-US(4)

Mon-repetitive Reduce the current to 1/2 or less if the G3M is in repetitive operation. Inrush Current Immunity

Load Current vs. Ambient Temperature

Engineering Data-

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# v əldaliava zi gnixham VÜT :ətoN Phototriac 5.08 mm nput termina pitch notation

# - snoitsoitioaq8

1nd	uj
Ratings	

0	Rated voltage
) o1 †	e ADC
9.6	15 ADC
19.2	54 ADC

3uq3uO Note: Each model has 5-VDC, 12-

ləboM	Rated input	Rated output load	Indicator	Zero cross function	Input terminal	ation
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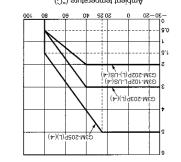
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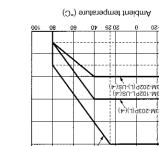
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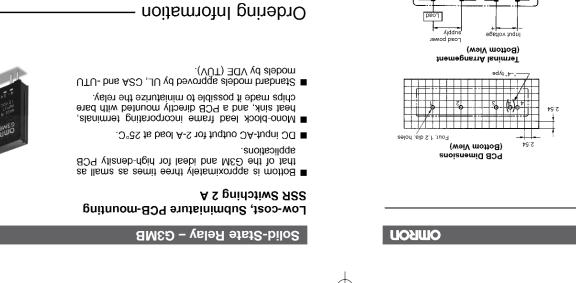
0	Rated voltage
) o1 †	e ADC
9.6	15 ADC
19.2	54 ADC

3uq3uO Note: Each model has 5-VDC, 12-

\*Input terminal pitch of 5.08 mm is also available.

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- Losol ---



Phototriac

lsolation

.tage absorption element. No overvoltage absorption element is built in. Therefore, if the G3M is connected to an inductive load, be sure to connect the overvol-

> .(80'G + 121+129.1

G3M-205P(L)(-4)

G3M-203P(L)(-4)

4

-40 max.

7.62±0.2 (5.08)\* 12.7±0.2 (5.08)\*

4±2

.xen u4-

G3M-102P-US(-4), G3M-202P(L)-US(-4)

191.01

591

.xem 8.7

.xem 6

L∓§

### Note: When ordering models conforming to TÜV, add "-UTU" to the model number.

Indicator

Recommended Operating Conditions					
.x6M	Standard	.niM	ltem		
Am 02	Am 01	Am č	Forward current		
۷۱		0	Aust release voltage		

### Specifications -

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Zero cross Tenction

### atings ∎

nput Resistor Contact					
Voltage levels		eonebeqmi	Operating voltage	Rated voltage	
Must release voltage	Must operate voltage				
1 VDC min.	4 VDC max.	440 び ∓20%	4 P P ADC	e ADC	
	.xem OOV 8.6	גנג ±20%	9.6 to 14.4 VDC	15 ADC	
	19.2 VDC max.	2.2 k⇔ ±20%	19.2 to 28.8 VDC	54 ADC	

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Snubbe r circuit

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Input resister

Note: Each model has 5-VDC, 12-VDC, and 24-VDC input versions.

321

4(-UTU) 63MB-202PLEG-

(-UTU) G3MB-202PL-4 (-UTU)

G3MB-202PL

("1111) G3WB-505E-4 (-010) G3WB-505E

Solid

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(010-) 33MB-202PEG-4

(UTU-)

(UTU-)

(UTU-

G3MB-102PL

leboM

**∆®**R

Omron

54 ADC

15 ADC

9 ADC

54 ADC

15 ADC

e ADC

54 ADC

15 ADC

9 ADC

Rated input voltage

(sted load voltage)

2 A at 100 to 240 VAC

(setiov beol beter

2 A at 100 to 120 VAC

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### Dimensions Solid-State Relay – G3M

Note: All units are in millimeters unless otherwise indicated.







To convert millimetres into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527. ALL DIMENSIONS SHOWN ARE IN MILLIMETRES.

CAT. No. K073-E2-04A

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 44532-2050
 G3NA 

 440B-2 DC5-24
 XF2J-0824-11A-R100
 G3NA-425B-2 DC5-24
 XF2J-0824-12A
 G8VA-1A4T-R01-DC12
 G8HE-1A7T-R-DC12
 XF2W 

 2415-1A
 XF2U-3015-3A
 G8V-RH-1A7T-R-DC12
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 M22CAT1
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 M7E-02DGN2
 M7E-08DRN2
 M7E-20DRN1
 M7E-HRN2
 M8PHWS
 D2HW-C233MR
 F03-02
 SUS316
 F150LTC20
 F3SJ-A0245P30

 F3STGRNSMC21M1J8
 F3UVHM
 MG2-US-AC24
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 MK2PNIAC240
 MK310E-DC24
 MKS2XTIN-11
 DC110

 MM4KPAC120NC
 MM4XPAC120
 G2Q-184P-V-DC5
 G2R-1114P-V-US-DC5
 G2R13SNDDC24
 G3SD-Z01P-PD-US
 DC24
 G3TA 

 DC12
 G2V-234P-US-DC48
 G3CA-8H-AC100/110/120
 G3PA-210B-US-DC24
 G3PE525B3NDC1224
 G3SD-Z01P-PD-US
 DC24
 G3TA 

 ODX02S
 DC24
 M2
 M3
 M2
 M2