## Purposes with Various Models A Power Relay for a Variety of

# Contact Form Coil Enclosure Classification Ordering Information -

mounting) (upper bracket			DC			-	-
Quick connect	General-purpose	Dnsealed	AC	T-A1-82D	G2R1-T	-	-
	Double-winding latching	Flux protection		G2RK-1A	G2RK-1	G2RK-2A	G2RK-2
	High-sensitivity	Flux protection	DC	H-A1-ASD	628-1-Н	H-AS-ASD	G2R-2-H
	High-capacity	Flux protection	AC/DC	G2R-1A-E	G2R-1-E	-	-
		Fully sealed		G2R-1AZ4	62R-124	-	-
	Bifurcated contact	Flux protection	DC	SA1-8SD	G2R-1Z	-	-
		Fully sealed		G2R-1A4	G2R-14	G2R-2A4	G2R-24
PCB terminal	General-purpose	Flux protection	AC/DC	A1-ASD	୯୨୫-ଏ	AS-ASD	୧-ଅଅର
		Ratings	Ratings	ON-T292	SPDT	DPST-NO	ррот
SPIO	uongouis	FILCIOSULE	1100				

Note: 1. When ordering, add the rated coil voltage to the model number.

Rated coil voltage

W 66.0 .xorqqA Power consumption 170% of rated voltage (at 23°C) egeflov .xeM 00 ၀၁ вЯ вЯ

## ■ Coil Ratings Specifications -

4: Fully sealed

5. Enclosure Ratings None: Flux protection

Z: Bifurcated

TOP⊡ :9noN A: □PDT A: ON-TSP

1. Relay Function None: Single-side stable

K: Double-winding latching

1 2 3 4 5 6 7 8 9

G2R -- ADC

PCB Power Relay – G2R

1: 1 pole 2: 2 poles

Model Number Legend

2. Number of Poles

Aone: Single

4. Contact Type

3. Contact Form

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Power consun	noitqr	Approx. 0.	1 0ð ts AV 6	T.0 .xonqqs) zH	H 00 ts AV	(z			
egstlov .xsM		140% of r	ated voltage	(3°C3°C) (31					
v əssələr feuM	oltage	.nim %0£	of rated vol	tage					
Must operate	voltage	.xsm %08	of rated vo	ltage					
(H) (ref. value)	NO enutermA	66.0	36. f	26.84	45	105	211	124	131
Soil inductance	Armature OFF	61.0	18.0	13.34	51	5.13	5.78	52	5.23
Soil resistance	6	02 T	260 2	4,600 ي	യ 00ട'9	20,200 2	25,000 2	26,850	30,000 2
	zH09	Am ð	Am	Am (ð.01)\9	Am č.V	Am (£.č) č.4	Am 1.4	Am 8.6	Am 8.£
Fated Current	Am T.4         Am T.2         Am Z.3         Am E.6         Am It         Am Z.34         Am E6 <b>sH02</b> Inem								
Rated voltage		12 VAC	54 VAC	2AV (011)/001	120 VAC	200/(220)/AC	220 VAC	230 AAC	240 AAC

Refer to Coil Ratings

8. Safety Standards None: UL/CSA/EN/SEV/TÜV

None: General-purpose

High-capacity High-sensitivity

SKVD: UL/CSA/EN/SEV/TÜV/SEMKO

Quick-connect (upper bracket mounting)

Po

9. Rated Coil Voltage

÷Н

7. Classification

6. Terminals None: Straight PCB

÷E

÷Т

v əssələr teul	oltage	15% min. of rate	15% min. of rated voltage								
lust operate	voltage	70% max. of rate	ed voltage								
l) (ref. value)	NO enutermA	65.0	0.55 2.29 8.55 27.71 93.2								
eonstoubni lio	Armature OFF	0.20	0.28 1.15 4.27 13.86 67.2								
oil resistance		۲۶ <del>۵</del>	Q 89	275 Q	1,100 Ω	4,170 ي	Q 098,81				
ated current	(zH09/09)	Am 901	Am S.88	Am	Am 8.1S	Am č.††	Am 6.3				
ated voltage		5 VDC	\DC								

266

- ROHS compliant
- SEV, SEMKO. Conforms to EN 61810-1, UL508, CSA22.2,
- broducts. Meets EN60335-1 requirements for household
- .m 8\mm 8 Clearance and creepage distance:
- Models with CTIS50 material available.
- .9ldslisvs available. High-sensitivity (360 mW) and high-capacity
- Double-winding latching type available.

Example: G2R-1A 12 VDC

Models with CTIS50 material are also available.
 Contact your OMRON representative for more details.

## Purposes with Various Models A Power Relay for a Variety of

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	Double-winding latching	Flux protection		G2RK-1A	G2RK-1	G2RK-2A	G2RK-2
	High-sensitivity	Flux protection	DC	H-A1-ASD	628-1-Н	H-AS-ASD	G2R-2-H
	High-capacity	Flux protection	AC/DC	G2R-1A-E	G2R-1-E	-	-
		Fully sealed		G2R-1AZ4	62R-124	-	-
	Bifurcated contact	Flux protection	DC	SA1-8SD	G2R-1Z	-	-
		Fully sealed		G2R-1A4	G2R-14	G2R-2A4	G2R-24
PCB terminal	General-purpose	Flux protection	AC/DC	A1-ASD	୯୨୫-ଏ	AS-ASD	୧-ଅଅର
		Ratings	Ratings	ON-T292	SPDT	DPST-NO	ррот
SPIO	uongouis	FILCIOSULE	1100				

Note: 1. When ordering, add the rated coil voltage to the model number.

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W 66.0 .xorqqA Power consumption 170% of rated voltage (at 23°C) egeflov .xeM 00 ၀၁ вЯ вЯ

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5. Enclosure Ratings None: Flux protection

Z: Bifurcated

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1 2 3 4 5 6 7 8 9

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1: 1 pole 2: 2 poles

Model Number Legend

2. Number of Poles

Aone: Single

4. Contact Type

3. Contact Form

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Power consun	noitqr	Approx. 0.	1 0ð ts AV 6	T.0 .xonqqs) zH	H 00 ts AV	(z			
egstlov .xsM		140% of r	ated voltage	(3°C3°C) (at 23°C)					
v əssələr feuM	oltage	.nim %0£	of rated vol	tage					
Must operate	voltage	.xsm %08	of rated vo	ltage					
(H) (ref. value)	NO enuterrnA	66.0	36. f	26.84	45	105	211	124	131
Soil inductance	Armature OFF	61.0	18.0	13.34	51	5.13	5.78	52	5.23
Soil resistance	6	02 T	260 2	4,600 ي	യ 00ട'9	20,200 2	25,000 2	26,850	30,000 2
	zH09	Am ð	Am	Am (ð.01)\9	Am č.V	Am (£.č) č.4	Am 1.4	Am 8.6	Am 8.£
Fated Current	Am T.4         Am T.2         Am Z.3         Am E.6         Am It         Am Z.34         Am E6 <b>sH02</b> Inem								
Rated voltage		12 VAC	54 VAC	2AV (011)/001	120 VAC	200/(220)/AC	220 VAC	230 AAC	240 AAC

Refer to Coil Ratings

8. Safety Standards None: UL/CSA/EN/SEV/TÜV

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High-capacity High-sensitivity

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Quick-connect (upper bracket mounting)

Po

9. Rated Coil Voltage

÷Н

7. Classification

6. Terminals None: Straight PCB

÷E

÷Т

v əssələr teul	oltage	15% min. of rate	15% min. of rated voltage								
lust operate	voltage	70% max. of rate	ed voltage								
l) (ref. value)	NO enutermA	65.0	0.55 2.29 8.55 27.71 93.2								
eonstoubni lio	Armature OFF	0.20	0.28 1.15 4.27 13.86 67.2								
oil resistance		۲۶ <del>۵</del>	Q 89	275 Q	1,100 Ω	4,170 ي	Q 098,81				
ated current	(zH09/09)	Am 901	Am S.88	Am	Am 8.1S	Am č.††	Am 6.3				
ated voltage		5 VDC	\DC								

266

- ROHS compliant
- SEV, SEMKO. Conforms to EN 61810-1, UL508, CSA22.2,
- broducts. Meets EN60335-1 requirements for household
- .m 8\mm 8 Clearance and creepage distance:
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- .9ldslisvs available. High-sensitivity (360 mW) and high-capacity
- Double-winding latching type available.

Example: G2R-1A 12 VDC

Models with CTIS50 material are also available.
 Contact your OMRON representative for more details.

# ■ Contact Ratings PCB/Flux Protection, Plug-in, Q

### sleA IsnimeT to -AbiuO

1.0 = 0.64 :level 9 .1 :etoN	x 10 <sup>-6</sup> /operation.					
(reference value)						
eter erilie	100 m 0 m 00 F		20// 3 to /m 01			
Max. switching power	2,500 VA, 300 W	,4V 878,1 W 081	,AV 035,1 W 031	,AV 005 W 09	,4,000 \A, 4,000 W	2,000 VA, 240 W
Max. switching current	A 01		A 3		A 91	
90 Max. switching voltage	380 APC, 125 VDC		380 AAC, 125 VD	С	380 AAC, 125 VD	С
Rated carry current	A 01		A ð		A 91	
Contact material	nIn2pA					
Bated Load	10 A at 250 VAC; 10 A at 30 VDC	7.5 A at 250 VAC; 5 A at 30 VDC	5 A at 250 VDC; 5 A at 30 VDC	2 A at 250 VDC; 3 A at 30 VDC	16 A at 250 VAC; 76 A at 30 VDC	8 A at 250 VDC; 8 A at 30 VDC
реот	Resistive load (r = peoo)	lnductive load (cosφ = 0.4; L/R = 7 ms)	Resistive load (r = peoo)	lnductive load (cosφ = 0.4; L/R = 7 ms)	Resistive load (f = qeoo)	lnductive load (cosφ = 0.4; (sm ۲ = Я\J
Number of poles	aloq t		2 poles		aloq t	
mətl	Gener	al-purpose, qui	ck-connect termi	leni	зэ-ивіН	pacity
			64			

00

### PCB/Flux Protection Relays

(reference value)							
Failure rate	JOV 8 ts Am f		ODV 3 ts Am 001		JOV 3 ts Am 01		
Max. switching power	,250 VA, 150 W	(AV 002 (AV 022 W 00		,AV 002 ,AV 021, W 06 W 031		45 M 550 VY;	
Max. switching current	A		Að		A £		
Max. switching voltage	380 VAC, 125 VD	80 AAC, 125 VDC		0	380 AAC, 125 VD	С	
Rated carry current	Að	Aa			Α£		
bsod bəfefi	5 A at 250 VAC; 5 A at 30 VDC	2 A at 250 VPC; 3 A at 30 VDC	5 A at 250 VPC; 5 A at 30 VDC	2 A at 250 VPC; 3 A at 30 VDC	3 A at 250 VPC; 3 A at 30 VDC	1 A at 250 VAC; 7 A at 350 VDC	
)	Resistive load (r = ∳zoc)	lnductive load (cosφ = 0.4; L/R = 7 ms)	Resistive load (r = peoo)	lnductive load (cosφ = 0.4; L/R = 7 ms)	Resistive load (f = qeoo)	lnductive load (cosφ = 0.4; L/R = 7 ms)	
Number of poles	aloq t	. əlod			2 poles		
mətl	Bifurcated	l contacts		əs-dgiH	nsitivity		

Note: P level:  $\lambda_{60} = 0.1 \times 10^{-6}$  /operation.

611

Pov

<b>vote: 1.</b> The rate current)	or ±10% (DC	coil resistance are m coil resistance)	bit resistance are measured at a coil temperature of 23°C with a tolerance of $^{15\%}/_{20\%}$ (AC rated pill resistance)										
Power consum	noitqr	Approx. 0.36 W											
egstlov .xsM		170% of rated voltag	ge (at 23°C)										
V əssələr feuM	oltage	15% min. of rated v	oltage										
Must operate /	voltage	70% max. of rated v	oltage										
(H) (ref. value)	NO enuterrnA	92.0	70.r	4.27	19.60	62.40							
Coil inductance	Armature OFF	76.0	0.53	2.14	08.7	31.20							
Coil resistance	(r. stoN sec)	20 2	100 ଫ	400 \	۲ (600 ئ	004,8							
Rated current (see Note. 1)	Am 7: \[												
Rated voltage		5 VDC	6 VDC	15 ADC	54 ADC	48 ADC							

Power consumption			Set coil: Approx. 85	dA :lioɔ təɛəЯ ;Wm 0	prox. 600 mW					
Max. voltage			140% of rated voltage (at 23°C)							
Must reset volta	ae		70% max. of rated v	oltage						
Must set voltage	e		70% max. of rated v	oltage						
	(H) (ref. value)	NO enutarria	900.0	600'0	9:036	0.148				
Coil inductance Armature OFF			0.003	900.0	810.0	620.0				
	Coil resistance		45 Ծ	09 <del>ت</del>	540 හ	<del>3</del> 096 ت				
Reset Coil	Rated current		Am 911	Am 00 t	Am 0g	Am 82				
	(H) (ref. value)	NO enuterrnA	0.146	0.208	68.0	3.43				
	Coil inductance	Armature OFF	£20'0	401.0	0.42	47.1				
	Coil resistance (see note 1.)			43.5 2	۵ 07 t	694 <del>0</del>				
Set Coil	Set Coil Rated current (see note 1.)			Am 861	Am	Am				
Rated voltage			ε ADC	9 ADC	15 ADC	54 ADC				

**Note: 1.** The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%. **2.** Operating characteristics are measured at a coil temperature of 23°C.

## PCB Power Relay – G2R

### Bigh-sensitivity Relays

 $\mathbf{2}.$  Operating characteristics are measured at a coil temperature of  $23^\circ \text{C}$ 

3. Depending on the type of relay, some relays do not have coil specifications. Contact your Omron representative for more details.

### Pouble-winding Latching Relays

# ■ Contact Ratings PCB/Flux Protection, Plug-in, Q

### sleA IsnimeT to -AbiuO

1.0 = 0.64 :level 9 .1 :etoN	x 10 <sup>-6</sup> /operation.					
(reference value)						
eter erilie	100 m 0 m 00 F		20// 3 to /m 01			
Max. switching power	2,500 VA, 300 W	,4V 878,1 W 081	,AV 035,1 W 031	,AV 005 W 09	,4,000 \A, 4,000 W	2,000 VA, 240 W
Max. switching current	A 01		A 3		A 91	
90 Max. switching voltage	380 APC, 125 VDC		380 AAC, 125 VD	С	380 AAC, 125 VD	С
Rated carry current	A 01		A ð		A 91	
Contact material	nIn2pA					
Bated Load	10 A at 250 VAC; 10 A at 30 VDC	7.5 A at 250 VAC; 5 A at 30 VDC	5 A at 250 VDC; 5 A at 30 VDC	2 A at 250 VDC; 3 A at 30 VDC	16 A at 250 VAC; 76 A at 30 VDC	8 A at 250 VDC; 8 A at 30 VDC
реот	Resistive load (r = peoo)	lnductive load (cosφ = 0.4; L/R = 7 ms)	Resistive load (r = peoo)	lnductive load (cosφ = 0.4; L/R = 7 ms)	Resistive load (f = qeoo)	lnductive load (cosφ = 0.4; (sm ۲ = Я\J
Number of poles	aloq t		2 poles		aloq t	
mətl	Gener	al-purpose, qui	ck-connect termi	leni	зэ-ивіН	pacity
			64			

00

### PCB/Flux Protection Relays

(reference value)							
Failure rate	JOV 8 ts Am f		ODV 3 ts Am 001		JOV 3 ts Am 01		
Max. switching power	,250 VA, 150 W	(AV 002 (AV 022 W 00		,AV 002 ,AV 021, W 06 W 031		45 M 550 VY;	
Max. switching current	A		Að		A £		
Max. switching voltage	380 VAC, 125 VD	80 AAC, 125 VDC		0	380 AAC, 125 VD	С	
Rated carry current	Að	Aa			Α£		
bsod bəfefi	5 A at 250 VAC; 5 A at 30 VDC	2 A at 250 VPC; 3 A at 30 VDC	5 A at 250 VPC; 5 A at 30 VDC	2 A at 250 VPC; 3 A at 30 VDC	3 A at 250 VPC; 3 A at 30 VDC	1 A at 250 VAC; 7 A at 350 VDC	
)	Resistive load (r = ∳zoc)	lnductive load (cosφ = 0.4; L/R = 7 ms)	Resistive load (r = peoo)	lnductive load (cosφ = 0.4; L/R = 7 ms)	Resistive load (f = qeoo)	lnductive load (cosφ = 0.4; L/R = 7 ms)	
Number of poles	aloq t	. əlod			2 poles		
mətl	Bifurcated	l contacts		əs-dgiH	nsitivity		

Note: P level:  $\lambda_{60} = 0.1 \times 10^{-6}$  /operation.

611

Pov

<b>Vote: 1.</b> The rate current)	or ±10% (DC	. and coil resistance are measured at a coil temperature of $23^\circ$ C with a tolerance of $^{+13\%}$ / $_{20\%}$ (AC rated (DC coil resistance)					
Power consum	noitqr	Approx. 0.36 W					
egstlov .xsM		170% of rated voltag	ge (at 23°C)				
V əssələr feuM	oltage	15% min. of rated v	oltage				
Must operate /	voltage	70% max. of rated v	oltage				
(H) (ref. value)	NO enuterrnA	92.0	70.r	4.27	19.60	62.40	
Coil inductance	Armature OFF	76.0	0.53	2.14	08.7	31.20	
Coil resistance	(r. stoN sec)	20 2	100 ଫ	400 \	۲ (600 ئ	004,8	
Rated current (see Note. 1)	(zH09/05)	Am 4.17	Am 09	Am 0£	Am Gt	Am č.T	
Rated voltage		5 VDC	6 VDC	15 ADC	54 ADC	48 ADC	

Power consump	noite		Set coil: Approx. 85	dA :lioɔ təɛəЯ ;Wm 0	prox. 600 mW	
Max. voltage			140% of rated volta	ge (at 23°C)		
Must reset volta	ge		70% max. of rated v	oltage		
Must set voltage	e		70% max. of rated v	oltage		
	(H) (ref. value)	NO enutamia	900.0	600'0	9:036	0.148
	Coil inductance	Armature OFF	0.003	900.0	810.0	620.0
	Coil resistance		45 Ծ	09 <del>ت</del>	540 හ	<del>3</del> 096 ت
Reset Coil	Rated current		Am 911	Am 00 t	Am 0g	Am 82
	(H) (ref. value)	NO enuterrnA	0.146	0.208	68.0	3.43
	Coil inductance	Armature OFF	£20°0	401.0	0.42	47.1
	Coil resistance	(.t eton ees)	30 ଫ	43.5 2	۵ 07 t	694 <del>0</del>
Set Coil	Rated current	(.t əton əəz)	Am 78t	Am 861	Am	Am
Rated voltage			ε ADC	9 ADC	15 ADC	54 ADC

**Note: 1.** The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%. **2.** Operating characteristics are measured at a coil temperature of 23°C.

## PCB Power Relay – G2R

### Bigh-sensitivity Relays

 $\mathbf{2}.$  Operating characteristics are measured at a coil temperature of  $23^\circ \text{C}$ 

3. Depending on the type of relay, some relays do not have coil specifications. Contact your Omron representative for more details.

### Pouble-winding Latching Relays

	9					
Failure rate (reference value)	JOV		10 mA at 5 VDC		JUV č ts Am ľ	
Max. switching power	240 W, 240 W	,400 VA, 120 W	,4V 000,1 W 021	,AV 375 W 37	,250 VA, 1,250 W	,AV 005 W 06
Max. switching current	A 8		4 Þ		A B	
Aax. switching voltage	380 AAC, 125 VD	C	380 APC, 125 VD	0	380 AAC, 125 VD	с
Rated carry current	A 8		4 Þ		A B	
bsod bətsR	8 A at 250 VPC; 3 A at 30 VDC	6 A at 250 VPC; 4 A at 30 VDC	4 A at 250 VPC; 4 A at 30 VDC	1.5 A at 250 VAC; 2.5 A at 30 VDC	5 A at 250 VPC; 5 A at 30 VDC	2 A at 250 VPC; 3 A at 30 VDC
рвод	Resistive load (r = peoc)	lnductive load (cosφ = 0.4; L/R = 7 ms)	Resistive load (f = qeoo)	Inductive load (cosφ = 0.4; L/R = 7 ms)	Resistive load (f = qeoo)	lnductive load (cosφ = 0.4; L/R = 7 ms)
Number of poles	əloq f		2 poles		əloq r	
ltem		General-purpose	(single contact)		Bifurcated	t contact

railure race (reference value)				
oton omilio7			30/13 10 10 01	
Max. switching power	W 031, AV 032,1	W 37 ,AV 378	W 06 ,AV 085	W 09 ,AV 375
Max. switching current	Αg		Αε	
epstlov pritching voltage	380 APC, 125 VDC		380 APC, 125 VDC	
Rated carry current	A 8		Aε	
	5 A at 30 VDC	2.5 A at 30 VDC	3 A at 30 VDC	2 A at 30 VDC
Bated Load	5 A at 250 VAC;	3.5 A at 250 VAC;	3 A at 250 VAC;	;DAV 05S 16 A 5.1
		(sm 7 = A\J		(sm 7 = Я\J
	(L = @200)	(cosp = 0.4;	(L = @soo)	(cosp = 0.4;
гоза	Bsol eviteiseR	Inductive load	Resistive load	Inductive load
Number of poles	d Ļ	aloq t		səlc

ІероМ	Description	Applicable socket
50 cm (ℓ) x 7.3 mm (ℓ): PFP-100N2 1 m (ℓ) x 7.3 mm (ℓ): PFP-100N2 1 m (ℓ) x 16 mm (ℓ): PFP-100N2	Mounting track	Track connecting socket
bEb⁻W	End plate	
S-q=q	Spacer	
Ь <b>ऽ</b> К-Ь•	Mounting plate	Back connecting socket
	2R-08A connecting sockets side by side	9 bus A20-929 Isrever finom of beaU*

### Mounting Track

thgieW

=ndurance

Shock resistance

Vibration resistance

Dielectric strength

oistance

uoitelus

Tracking Resistance (CTI)

egetlov bnstantiw esluqm

Max. operating frequency

mətl

PCB Power Relay – G2R

sulation resistance

Selease (reset) time

Operate (set) time

Contact resistance

Standard Relays Characteristics

Vibimud InsidmA

Ambient temperature

Note: See Dimensions for details on socket size.

Accessories (Order Separately)

Note: Values in the above table are initial values.

### Solder terminals A80-929 C2R-2-S(N)(D)(ND)(ND)(NDI) 62RF-08 P2R-08P, P2R-087P PCB terminals 2 poles 2020 2 (CSK-1A3-2) 2 (CSK-1A3-2) 5 (CSK-1A3-A20-929 Solder terminals P2R-05P, P2R-057P PCB terminals aloq f leboM Terminals Track/surface-mounting Socket Back-mounting Socket Number of poles Applicable Relay model Connecting Sockets

Approx. 17 g

Operating: 5% to 85%

Destruction: 1,000 m/s<sup>2</sup>

Operating: -40°C to 70°C (with no icing)

between contacts of same polarity

1,000 VAC, 50/60 Hz for 1 min

5,000 VAC, 50/60 Hz for 1 min

(DOV 006 fs) .nim QM 000, f

Mechanical: 18,000 operations/hr

Electrical: 1,800 operations/hr (under rated load)

1 Pole

C: 10 max.; DC: 5 ms max. (w/built-in diode: 20 max.)

.xsm 2m 02 (xsm 2m 001 :sqyt types-flight) .xsm 2m 02

V 271

10KN 1\*40hsec

xem em 81

Clearance (Typ) 9.3 mm

Creepage (Typ) 10.0 mm

Electrical:100,000 operations min. (at 1,800 operations/hr under rated load)

Destruction: 10 to 55 to 10 Hz, 0.75mm single amplitude (1.5mm double amplitude) Malfunction: 10 to 55 to 10 Hz, 0.75mm single amplitude (1.5mm double amplitude)

between contacts of same polarity 1,000 VAC, 50/60 Hz for 1 min

3,000 VAC, 50/60 Hz for 1 min

5,000 VAC, 50/60 Hz for 1 min

between coil and contacts\*;

between contacts of different polarity

2 Poles

Po

R

Mechanical: AC coil: 10,000,000 operations min.; DC coil: 20,000,000 operations min. (at 18,000 operations/hr)

Malfunction: 200 m/s<sup>2</sup> when energized; 100 m/s<sup>2</sup> when not energized

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## PCB Power Relay – G2R

### PCB/Fully Sealed Relays

Note: P level:  $\lambda_{60} = 0.1 \times 10^{-0}$ /operation.

### Latching Relays

**Note:** P level:  $\lambda_{60} = 0.1 \times 10^{-6}$  /operation.

	9					
Failure rate (reference value)	JOV		10 mA at 5 VDC		JUV č ts Am ľ	
Max. switching power	240 W, 240 W	,400 VA, 120 W	,4V 000,1 W 021	,AV 375 W 37	,250 VA, 1,250 W	,AV 005 W 06
Max. switching current	A 8		4 Þ		A B	
Aax. switching voltage	380 AAC, 125 VD	C	380 APC, 125 VD	0	380 AAC, 125 VD	с
Rated carry current	A 8		4 Þ		A B	
bsod bətsR	8 A at 250 VPC; 3 A at 30 VDC	6 A at 250 VPC; 4 A at 30 VDC	4 A at 250 VPC; 4 A at 30 VDC	1.5 A at 250 VAC; 2.5 A at 30 VDC	5 A at 250 VPC; 5 A at 30 VDC	2 A at 250 VPC; 3 A at 30 VDC
рвод	Resistive load (r = peoc)	lnductive load (cosφ = 0.4; L/R = 7 ms)	Resistive load (f = qeoo)	Inductive load (cosφ = 0.4; L/R = 7 ms)	Resistive load (f = qeoo)	lnductive load (cosφ = 0.4; L/R = 7 ms)
Number of poles	əloq f		2 poles		əloq r	
ltem		General-purpose	(single contact)		Bifurcated	t contact

railure race (reference value)				
oton omilio7			30/13 10 10 01	
Max. switching power	W 031, AV 032,1	W 37 ,AV 378	W 06 ,AV 087	W 09 ,AV 375
Max. switching current	Αg		Αε	
epstlov pritching voltage	380 APC, 125 VDC		380 APC, 125 VDC	
Rated carry current	A 8		Aε	
	5 A at 30 VDC	2.5 A at 30 VDC	3 A at 30 VDC	2 A at 30 VDC
Bated Load	5 A at 250 VAC;	3.5 A at 250 VAC;	3 A at 250 VAC;	;DAV 03S 16 A 3.1
		(sm 7 = A\J		(sm 7 = Я\J
	(L = @200)	(cosp = 0.4;	(L = @soo)	(cosp = 0.4;
гоза	Resistive load	Inductive load	Resistive load	Inductive load
Number of poles	d Ļ	aloq t		səlc

ІероМ	Description	Applicable socket
50 cm (ℓ) x 7.3 mm (ℓ): PFP-100N2 1 m (ℓ) x 7.3 mm (ℓ): PFP-100N2 1 m (ℓ) x 16 mm (ℓ): PFP-100N2	Mounting track	Track connecting socket
bEb⁻W	End plate	
S-q=q	Spacer	
Ь <b>ऽ</b> К-Ь•	Mounting plate	Back connecting socket
	2R-08A connecting sockets side by side	9 bus A20-929 Isrever finom of beaU*

### Mounting Track

thgieW

=ndurance

Shock resistance

Vibration resistance

Dielectric strength

oistance

uoitelus

Tracking Resistance (CTI)

egetlov bnstantiw esluqm

Max. operating frequency

mətl

PCB Power Relay – G2R

sulation resistance

Selease (reset) time

Operate (set) time

Contact resistance

Standard Relays Characteristics

Vibimud InsidmA

Ambient temperature

Note: See Dimensions for details on socket size.

Accessories (Order Separately)

Note: Values in the above table are initial values.

### Solder terminals A80-929 C2R-2-S(N)(D)(ND)(ND)(NDI) 62RF-08 P2R-08P, P2R-087P PCB terminals 2 poles A20-929 Solder terminals P2R-05P, P2R-057P PCB terminals aloq f leboM Terminals Track/surface-mounting Socket Back-mounting Socket Number of poles Applicable Relay model Connecting Sockets

Approx. 17 g

Operating: 5% to 85%

Destruction: 1,000 m/s<sup>2</sup>

Operating: -40°C to 70°C (with no icing)

between contacts of same polarity

1,000 VAC, 50/60 Hz for 1 min

5,000 VAC, 50/60 Hz for 1 min

(DOV 006 fs) .nim QM 000, f

Mechanical: 18,000 operations/hr

Electrical: 1,800 operations/hr (under rated load)

1 Pole

C: 10 max.; DC: 5 ms max. (w/built-in diode: 20 max.)

.xsm 2m 02 (xsm 2m 001 :sqyt types-flight) .xsm 2m 02

V 271

10KN 1\*40hsec

xem em 81

Clearance (Typ) 9.3 mm

Creepage (Typ) 10.0 mm

Electrical:100,000 operations min. (at 1,800 operations/hr under rated load)

Destruction: 10 to 55 to 10 Hz, 0.75mm single amplitude (1.5mm double amplitude) Malfunction: 10 to 55 to 10 Hz, 0.75mm single amplitude (1.5mm double amplitude)

between contacts of same polarity 1,000 VAC, 50/60 Hz for 1 min

3,000 VAC, 50/60 Hz for 1 min

5,000 VAC, 50/60 Hz for 1 min

between coil and contacts\*;

between contacts of different polarity

2 Poles

Po

R

Mechanical: AC coil: 10,000,000 operations min.; DC coil: 20,000,000 operations min. (at 18,000 operations/hr)

Malfunction: 200 m/s<sup>2</sup> when energized; 100 m/s<sup>2</sup> when not energized

121

## PCB Power Relay – G2R

### PCB/Fully Sealed Relays

Note: P level:  $\lambda_{60} = 0.1 \times 10^{-0}$ /operation.

### Latching Relays

**Note:** P level:  $\lambda_{60} = 0.1 \times 10^{-6}$  /operation.

# Approved Standards CSA 22.2 No.14 (File No. LR31928)

Contact ratings	Coil ratings	Contact form	leboM
10 A, 30 VDC (resistive) 10 A, 250 VBC (general use) TV-3 (NO contact only)	3 to 110 VDC 3 to 240 VDC	TOAS	558-1-1 558-1-2 558-1-H 558-14 558-1
		ON-1848	AF-AS: 4AF-AS: H-AF-AS: 2-AF-AS: 7-AF-AS: T-AF-AS:
16 A, 30 VDC (resistive, NO contact only) 16 A, 250 VAC (general use, NO contact only) TV-3 (NO contact only); (1/3 hp, 120 VAC For UL)		SPST-NO SPDT	3-R-1-E
5 A, 30 VDC (resistive) 5 A, 250 VDC (general use) TV-3 (NO contact only)		DPDT	35B-2-5 35B-2-H 35B-24 35B-2
		DPST-NO	AS-AS 4AS-AS: H-AS-AS: 2-AS-AS: 2-AS-AS:
10 A, 30 VDC (resistive) 10 A, 250 VAC (general use) 17-5/17-8 (NO contact only), (For UL)		ON-T292	ISA-A1-AS

н	25	E
	62	F

Yibimud traidmA	Operating: 5% to 85%	
Ambient temperature	Operating: -40°C to 70°C (with no icing)	
Endurance	Mechanical: 10,000,000 operations min (at 18,0 Electrical: 100,000 operations min. (at 1,800 op	000 operations/hr) berations/hr under rated load)
Shock resistance	Destruction: 1,000 m/s² (approx. 100G) Malfunction: Set: 500 m/s² (approx. 50G); 200 r Reset: 100 m/s² (approx. 10G)	m/s² (approx. 20G)
Vibration resistance	Destruction: 10 to 55 to 10 Hz, 0.75mm single a Malfunction: 10 to 55 to 10 Hz, 0.75mm single a Malfunction: 10 to 55 to 10 Hz, 0.75mm single a Malfunction and the second s	(əbutilqms əlduob mmč.t) əbutilqms (əbutilqms əlduob mmč.t) əbutilqms
Dielectric strength	5,000 VAC, 50/60 Hz for 1 min between coll and contacts"; 1,000 VAC, 50/60 Hz for 1 min 1,000 VAC, 50/60 Hz for 1 min 1,000 VAC, 50/60 Hz for 1 min	5,000 VAC, 50/60 Hz for 1 min petween coil and contacts"; 1,000 VAC, 50/60 Hz for 1 min a,000 VAC, 50/60 Hz for 1 min 1,000 VAC, 50/60 Hz for 1 min a,000 VAC, 50/60 Hz for 1 min between contacts of same pole between
Insulation resistance	1,000 MΩ min. (at 500 VDC)	
Max. operating frequency	Mechanical: 18,000 operations/hr (under rated loa Electrical: 1,800 operations/hr (under rated loa	(p)
Min. set/reset signal width	.xsm am 05	
9mit tezeR	.xsm am 02	
Set time	xem em 02	
Contact resistance	.xsm Ωm 0£	50 mΩ max.
ltem	1 Pole	2 Poles

Approx. 17 g (Quick-connect type: approx. 20g)

Note: Values in the above table are the initial values.

153

### PCB Power Relay -

Double-winding Latching Relays

152

**thgiaW** 

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# Approved Standards CSA 22.2 No.14 (File No. LR31928)

Contact ratings	Coil ratings	Contact form	leboM
10 A, 30 VDC (resistive) 10 A, 250 VBC (general use) TV-3 (NO contact only)	3 to 110 VDC 3 to 240 VDC	TOAS	558-1-1 558-1-2 558-1-H 558-14 558-1
		ON-1848	AF-AS: 4AF-AS: H-AF-AS: 2-AF-AS: 7-AF-AS: T-AF-AS:
16 A, 30 VDC (resistive, NO contact only) 16 A, 250 VAC (general use, NO contact only) TV-3 (NO contact only); (1/3 hp, 120 VAC For UL)		SPST-NO SPDT	3-R-1-E
5 A, 30 VDC (resistive) 5 A, 250 VDC (general use) TV-3 (NO contact only)		DPDT	35B-2-5 35B-2-H 35B-24 35B-2
		DPST-NO	AS-AS 4AS-AS: H-AS-AS: 2-AS-AS: 2-AS-AS:
10 A, 30 VDC (resistive) 10 A, 250 VAC (general use) 17-5/17-8 (NO contact only), (For UL)		ON-T292	ISA-A1-AS

н	25	E
	62	F

Yibimud tneidmA	Operating: 5% to 85%	
Ambient temperature	Operating: -40°C to 70°C (with no icing)	
Endurance	Mechanical: 10,000,000 operations min (at 18,0 Electrical: 100,000 operations min. (at 1,800 op	000 operations/hr) berations/hr under rated load)
Shock resistance	Destruction: 1,000 m/s² (approx. 100G) Malfunction: Set: 500 m/s² (approx. 50G); 200 r Reset: 100 m/s² (approx. 10G)	m/s² (approx. 20G)
Vibration resistance	Destruction: 10 to 55 to 10 Hz, 0.75mm single a Malfunction: 10 to 55 to 10 Hz, 0.75mm single a Malfunction: 10 to 55 to 10 Hz, 0.75mm single a Malfunction and the second s	(əbutilqms əlduob mmč.t) əbutilqms (əbutilqms əlduob mmč.t) əbutilqms
Dielectric strength	5,000 VAC, 50/60 Hz for 1 min between coll and contacts"; 1,000 VAC, 50/60 Hz for 1 min 1,000 VAC, 50/60 Hz for 1 min 1,000 VAC, 50/60 Hz for 1 min	5,000 VAC, 50/60 Hz for 1 min petween coil and contacts"; 1,000 VAC, 50/60 Hz for 1 min a,000 VAC, 50/60 Hz for 1 min 1,000 VAC, 50/60 Hz for 1 min a,000 VAC, 50/60 Hz for 1 min between contacts of same pole between
Insulation resistance	1,000 MΩ min. (at 500 VDC)	
Max. operating frequency	Mechanical: 18,000 operations/hr (under rated loa Electrical: 1,800 operations/hr (under rated loa	(p)
Min. set/reset signal width	.xsm am 05	
9mit tezeR	.xsm am 02	
Set time	xem em 02	
Contact resistance	.xsm Ωm 0£	50 mΩ max.
ltem	1 Pole	2 Poles

Approx. 17 g (Quick-connect type: approx. 20g)

Note: Values in the above table are the initial values.

153

### PCB Power Relay -

Double-winding Latching Relays

152

**thgiaW** 

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Contact ratings	Coil ratings	
16 A, 250 VAC1 (AgSnin contact) 16 A, 30 VDC1 (AgSnin contact) 5 A, 260 VAC3 10 A, 30 VDC1	3 to 110 VDC 3 to 240 VDC	
5 A, 30 VDC1 2 A, 380 VPC1 5 A, 30 VDC1		

ĺ	Contact ratings	Coil ratings	
	10/80 A, 250 VAC 3/100 A, 250 VAC 16/128 A, 250 VAC	3 to 110 VDC 3 to 240 VPC	
	5/40 ¥' 520 APC		

8 k, 250 VAC (cosq· = 0.4) 5 k, 250 VAC (cosq· = 1.0) 5 k, 30 VDC (cosq· = 0.4) 2.5 k, 250 VAC (cosq· = 0.4)		
10 A, 250 VAC (cosq= 1.0) 16 A, 250 VAC (cosq= 1.0) 16 A, 260 VAC (cosq= 1.0)	3 to 110 VDC, 6 VAC to 240 VAC (for Standard coil) 3 to 70 VDC (for K, U coil) 3 to 70 VDC (for H coil)	
Contact ratings	Coil ratings	

Contact ratings	Coil ratings	
10 A, 250 VAC (cosq = 1.0) 10 A, 30 VDC (0 ms) 16 A, 250 VAC (cosq = 1.0)	5, 6, 9, 12, 18, 24, 48, 60, 100, 110, 120, 12, 18, 24, 48, 50, 100/(110), 110, 120, 200/(220), 220, 230, 240 VAC	
5 A, 250 VDC (cosq =1.0) 5 A, 30 VDC (0 ms)	5, 6, 9, 12, 18, 24, 48, 60, 100, 110, 120, 12, 18, 24, 48, 50, 100/(110), 110, 120, 200/(220), 220, 230, 240 VAC	

152

(V) egettov gnidotiw2

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Pov

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(sm 7 = A/J)

DC

52R-12, G2R-1AZ

(V) settor printage (V)

C OF CZ

(V) sestiov printative

DC

(**†**•0 = \$\$03 noùi 🔿

DC inductive load (L/R = 7 ms)

evitoribai 24 .

DC resistive load

AC inductive load (4.0 = 0.4)

G2R-2-H, G2R-2A-H

Lesistive

OC inductive (2 ≥ 7 ms)

G2R-1-E, G2R-1A-E

00 A conditive load (4.0 = 0.4)

Switching voltage (V)

AC inductive load (coso = 0.4)

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G2RK-2A, G2RK-2

A

rent DBG

(V) substlov gnitching

DC

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(V) egatiov gnidotiw2

DC inductive load (L/R = 7 ms) resistive load

AC inductive load (4.0 = 6203)

G2R-1-H, G2R-1A-H, G2R-2, G2R-2A

(sm 7 = A\)

111111

.....

AC inductive load (4.0 = 0.4)

Flux Protection/Plug-in Relays G2R-1, G2R-1A, G2R-1-T, G2R-1A-T Maximum Switching Power

Engineering Data -

PCB Power Relay – G2R

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(V) egetlov gnidotiwg

OA |

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KC FC

05 D

G2RK-1A, G2RK-1

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# səjod 7 əloq i Contact form ΛIS

### **SEMKO**

Contact form 1 pole 2 poles
səloq f
2 poles

## (1-01818NB) VÜT

Contact form	
10-1 (NDE)	819 N3
	2 poles
	əloq r
Contact form	
,	

TV-3 (NO contact only) 5 A, 250 VDC (resistive) 5 A, 250 VAC (general use) 16 A, 30 VDC (resistive, NO contact only) 16 A, 250 VbC (general use, NO contact only) TV-3 (NO contact only) 10 A, 30 VDC (resistive) 10 A, 250 VAC (general use) TV-3 (NO contact only) Contact ratings

10 A, 250 VAC (general use) TV-8 (NO contact only); 1/4 hp, 125 VAC 10 A, 30 VDC (resistive)

154

səloq 9

əloq f

Contact ratings	Coil ratings	
16 A, 250 VAC1 (AgSnin contact) 16 A, 30 VDC1 (AgSnin contact) 5 A, 260 VAC3 10 A, 30 VDC1	3 to 110 VDC 3 to 240 VDC	
5 A, 30 VDC1 2 A, 380 VPC1 5 A, 30 VDC1		

ĺ	Contact ratings	Coil ratings	
	10/80 A, 250 VAC 3/100 A, 250 VAC 16/128 A, 250 VAC	3 to 110 VDC 3 to 240 VPC	
	5/40 ¥' 520 APC		

8 k, 250 VAC (cosq· = 0.4) 5 k, 250 VAC (cosq· = 1.0) 5 k, 30 VDC (cosq· = 0.4) 2.5 k, 250 VAC (cosq· = 0.4)		
10 A, 250 VAC (cosq= 1.0) 16 A, 250 VAC (cosq= 1.0) 16 A, 260 VAC (cosq= 1.0)	3 to 110 VDC, 6 VAC to 240 VAC (for Standard coil) 3 to 70 VDC (for K, U coil) 3 to 70 VDC (for H coil)	
Contact ratings	Coil ratings	

Contact ratings	Coil ratings	
10 A, 250 VAC (cosq = 1.0) 10 A, 30 VDC (0 ms) 16 A, 250 VAC (cosq = 1.0)	5, 6, 9, 12, 18, 24, 48, 60, 100, 110, 120, 12, 18, 24, 48, 50, 100/(110), 110, 120, 200/(220), 220, 230, 240 VAC	
5 A, 250 VDC (cosq =1.0) 5 A, 30 VDC (0 ms)	5, 6, 9, 12, 18, 24, 48, 60, 100, 110, 120, 12, 18, 24, 48, 50, 100/(110), 110, 120, 200/(220), 220, 230, 240 VAC	

152

(V) egettov gnidotiw2

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Pov

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(sm 7 = A/J)

DC

52R-12, G2R-1AZ

(V) settor printage (V)

C OF CZ

(V) sestiov printative

DC

(**†**•0 = \$\$03 noùi 🔿

DC inductive load (L/R = 7 ms)

evitoribai 24 .

DC resistive load

AC inductive load (4.0 = 0.4)

G2R-2-H, G2R-2A-H

Lesistive

OC inductive (2 ≥ 7 ms)

G2R-1-E, G2R-1A-E

00 A conditive load (4.0 = 0.4)

Switching voltage (V)

AC inductive load (coso = 0.4)

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G2RK-2A, G2RK-2

A

rent DBG

(V) substlov gnitching

DC

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(V) egatiov gnidotiw2

DC inductive load (L/R = 7 ms) resistive load

AC inductive load (4.0 = 6203)

G2R-1-H, G2R-1A-H, G2R-2, G2R-2A

(sm 7 = A\)

111111

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AC inductive load (4.0 = 0.4)

Flux Protection/Plug-in Relays G2R-1, G2R-1A, G2R-1-T, G2R-1A-T Maximum Switching Power

Engineering Data -

PCB Power Relay – G2R

00 bod orienter 00

(V) egetlov gnidotiwg

OA |

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KC FC

05 D

G2RK-1A, G2RK-1

01

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# səjod 7 əloq i Contact form ΛIS

### **SEMKO**

Contact form 1 pole 2 poles
solog f 2
2 poles

## (1-01818NB) VÜT

Contact form	
10-1 (NDE)	819 N3
	2 poles
	əloq r
Contact form	
,	

TV-3 (NO contact only) 5 A, 250 VDC (resistive) 5 A, 250 VAC (general use) 16 A, 30 VDC (resistive, NO contact only) 16 A, 250 VbC (general use, NO contact only) TV-3 (NO contact only) 10 A, 30 VDC (resistive) 10 A, 250 VAC (general use) TV-3 (NO contact only) Contact ratings

10 A, 250 VAC (general use) TV-8 (NO contact only); 1/4 hp, 125 VAC 10 A, 30 VDC (resistive)

154

səloq 9

əloq f



(A) trent (A)

-

(A) trenus grindstw2

01 8 9 1

(A) freent (A)

1.5 2

G2R-2-H, G2R-2A-H

6,000

000'S

000,01

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y current (A)





(A) trenus gridotive

юза (г/н =





(A) tnerrus gnidstiw2





127

(A) fremus grindstiwB



## Endurance











156



(A) trent (A)

-

(A) trenus grindstw2

01 8 9 1

(A) freent (A)

1.5 2

G2R-2-H, G2R-2A-H

6,000

000'S

000,01

ŝ

y current (A)





(A) trenus gridotive

юза (г/н =





(A) tnerrus gnidstiw2





127

(A) fremus grindstiwB



## Endurance











156





\*Average value

G.0-

.xsm 2.61 \*(0.51)

\*(0.51)

rage value I9VA\*

S.0 <sup>°</sup>

91.0

\*(6.82) \*(5.82)

9<sup>.0</sup>

91.0

Relays with PCB Terminals

1 C.C.

10

SPST-NO Relays G2R-1A4, G2R-1AZ4

SPDT Relays G2R-14, G2R-124

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Relays with PCB Terminals

PCB Power Relay – G2R

6.0

£.0



\_ . . \_ . . \_ . .



(Vo coil polarity)

0 s.7

÷1+

159

(1.2)

(7.5)

Eight, 1.3-dia. holes

ŀф · -&- -&















(Vo coil polarity)

(No coil polarity)

Tolerance: ±0.1

Bottom View) (Bottom View)

Four, 1.3-dia. Poles

Five, 1.3-dia.

(7.5)

3.5 3.5

Power

Relays

(7.5)

3.5













































∏ s<sup>.</sup>∠

+(L.S)

























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5 --- / --=3

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Terminal Arrangement/ Internal Connections (Bottom View)

, <u>↓</u>

G L L

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# - snoisnemiD

2. Orientation marks are indicated as follows:

Note: 1. All units are in millim etres unless otherwise indicated.



128

 $\oplus$ 





\*Average value

G.0-

.xsm 2.61 \*(0.51)

\*(0.51)

rage value I9VA\*

S.0 <sup>°</sup>

91.0

\*(6.82) \*(5.82)

9<sup>.0</sup>

91.0

Relays with PCB Terminals

1 C.C.

10

SPST-NO Relays G2R-1A4, G2R-1AZ4

SPDT Relays G2R-14, G2R-124

 $\oplus$ 

Relays with PCB Terminals

PCB Power Relay – G2R

6.0

£.0



\_ . . \_ . . \_ . .



(Vo coil polarity)

0 s.7

÷1+

159

(1.2)

(7.5)

Eight, 1.3-dia. holes

ŀф · -&- -&















(Vo coil polarity)

(No coil polarity)

Tolerance: ±0.1

Bottom View) (Bottom View)

Four, 1.3-dia. Poles

Five, 1.3-dia.

(7.5)

3.5 3.5

Power

Relays

(7.5)

3.5













































∏ s<sup>.</sup>∠

+(L.S)

























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ε**--**-

| ⊅ ■

5 --- / --=3

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Terminal Arrangement/ Internal Connections (Bottom View)

, <u>↓</u>

G L L

. . \_ . . \_ . . \_

















# - snoisnemiD

2. Orientation marks are indicated as follows:

Note: 1. All units are in millim etres unless otherwise indicated.



128

 $\oplus$ 



Average value

G.U

61.0

.xsm 92 \*(8.82)





take into account the circuit constant.

the relays. Consult OMRON for details.

When using this circuit, confirm the set and reset states and then There is no restriction on the mounting direction of each relay on the PCB.

thermal interference generated by the relays. This restriction may be ignored, however, depending on the operating conditions of the science formula for datails

The above minimum mounting space is necessary due to mutual

### 6uitnuoM ■ Precautions

T-A1-ASD

reiays as snown below. a minimum mounting space of 5 mm between the two juxtaposed When mounting a number of relays on a PCB, be sure to provide



.nim mm d

CAT. No. K013-E2-12A-X









(After confirming coil polarity, wire correctly.)

(After confirming coll polarity, wire correctly.) six, 1.3-dia. 5 , holes

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(After confirming coil polarity, wire correctly.)

.⊨\_0L\_→

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1 c'

++- (r.S)

П. G.7

G 8.7

(r.S)

(2.2)

(7.5)

Fight, 1.3-dia.

` Six, 1.3-dia.

. f. 3-dia.

(7.5)

(r.S) 🕂

(2.5)

Six, 1.3-dia.

2.5, 2.5

(No coil polarity)

\_\_\_\_\_

++(1.5)

Πs.

\_ - - - - - - - - -

]<sup>9</sup> ¶ <sup>2</sup>

7 3 4 4

(7.5)

3.5

Tolerance: ±0.1

(weiV mottoB)

seloH pnitnuoM

(After confirming coil polarity, wire correctly.)

(J.S)

131



เ-มหะอ SPDT Relays Double-winding Latching Relays with PCB Terminals





25.5 max (25.2)\* G2RK-1A SPST-NO Relays



25.5 max. (25.2)\*









Average value





130

Ŧ



Average value

G.U

61.0

.xsm 92 \*(8.82)





take into account the circuit constant.

the relays. Consult OMRON for details.

When using this circuit, confirm the set and reset states and then There is no restriction on the mounting direction of each relay on the PCB.

thermal interference generated by the relays. This restriction may be ignored, however, depending on the operating conditions of the science formula for datails

The above minimum mounting space is necessary due to mutual

### 6uitnuoM ■ Precautions

T-A1-ASD

reiays as snown below. a minimum mounting space of 5 mm between the two juxtaposed When mounting a number of relays on a PCB, be sure to provide



.nim mm d

CAT. No. K013-E2-12A-X









(After confirming coil polarity, wire correctly.)

(After confirming coll polarity, wire correctly.) six, 1.3-dia. 5 , holes

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(After confirming coil polarity, wire correctly.)

.⊨\_0L\_→

-ф

1 c'

++- (r.S)

П. G.7

G 8.7

(r.S)

(2.2)

(7.5)

Fight, 1.3-dia.

` Six, 1.3-dia.

. f. 3-dia.

(7.5)

(r.S) 🕂

(2.5)

Six, 1.3-dia.

2.5, 2.5

(No coil polarity)

\_\_\_\_\_

++(1.5)

Πs.

\_ - - - - - - - - -

]<sup>9</sup> ¶ <sup>2</sup>

7 3 4 4

(7.5)

3.5

Tolerance: ±0.1

(weiV mottoB)

seloH pnitnuoM

(After confirming coil polarity, wire correctly.)

(J.S)

131



เ-มหะอ SPDT Relays Double-winding Latching Relays with PCB Terminals





25.5 max (25.2)\* G2RK-1A SPST-NO Relays



25.5 max. (25.2)\*









Average value





130

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