

Certification Record

CUSTOMER	CLASS	FILE
Omron Electronics LLC One Commerce Dr Schaumburg, IL, 60173 USA	3211-07 INDUSTRIAL CONTROL EQUIPMENT-Miscellaneous Apparatus	034815-0-000
Refer to Class Description for program details		

- Relays, Types 1051-US, 1051-UA, open type and Types 1051P-US, 1051P-UA, open type with dust cover and octal plug base, single-pole, double throw contacts, 2A resistive, 120V ac or 28V dc, coils 24V dc max.
- Relays, Type G2E, open type with dust cover, single-pole double throw contacts, max ratings: 0.5A, 125V ac, 1A, 28V dc, coils 1.5 to 24V dc.
- Relays, Type G2K, open type with dust cover, single-pole double throw contacts, max ratings - without Suffix "3" 0.5A (res.), 120V ac, 1A, 28V dc, with Suffix "3", 3A (res.), 120V ac, 3A, 28V dc, with Suffix "182P" or "187P", 0.5A, 120V ac, 1A (res.), 28V dc, with Suffix "112P" or "117P", 3A, 120V ac, 3A (res.), 28V dc, coils 48V dc max.
- Relays, Type G2S (with suffixes), open type with dust cover, sealed or unsealed, 1 pole, single or double throw contacts, max ratings as follows: 250V ac, 3A, 120V ac, 5A, 28V dc, 5A (resistive), TV2 coils, 3 to 24 dc max.
- Relays, Type G4K with suffixes, open type with dust cover, spst, spdt, contact ratings 3A max, 120V ac or 250V ac, 3A max, 28V dc (resistive), coils, 24V dc max.
- Relays, Type G2V (with suffixes), open type with dust cover, 2-pole, double throw contacts, max ratings as follows: 120V ac, 0.5A, 30V dc, 1.5A (resistive), coils, 3 to 48V dc max.
- Relays, Type G2VN, open type with dust cover, dpdt contacts, ratings: 0.5A, 120V ac, 1.5A, 30V dc, coils 48V dc max.
- Relays, Type G2VE, open type with dust cover, dpdt contacts, ratings: 3A, 120V ac, 30V dc (resistive), coils 5 through 24V dc max.
- Relays, Type G2U Series, open type with dust cover, 1 pole, single or double throw contacts, max ratings: 5A, 120V ac, 5A, 28V dc, (TV-1, G2U-112P Series only), coil 48V dc max.
- Relays, Type G4C (with suffixes), open type with dust cover, single-pole, double throw contacts, max contact ratings; standard type: 120V ac, 5A (resistive), 250V ac, 3A, 28V dc, 5A (resistive), TV2; cross bar type: 120V ac, 1A (resistive), 0.5A, 28V dc, 1A (resistive); coils 5 to 24V dc, with Suffixes "V", "M" and "US": 2A, 120V ac, 2A (resistive), 28V dc coils 5V to 24V dc.
- Relays, Type G4D (with suffixes), open type, with dust cover, 2-pole, single and double throw contacts, max ratings as follows: 250V ac, 28V dc, 5A (resistive), TV2, with Suffix "AP", 250V ac, 28V dc, 3A (resistive), Cat No G4D-212P-11, 3A (res), 250V ac, 28V dc, pilot duty rating code C300, coils 5 to 24V dc max.
- Relays, Type G4SE (with suffixes), open type, with dust cover, single-pole, single or double throw contacts, max ratings 10A, 125V ac, 10A, 30V dc (resistive), coils 3 to 48V dc.
- Relays, Type G4H Series, open type with dust cover, spdt or spst, rated 3A, 250V ac (gen), 5A, 120V ac (gen), 5A, 28V dc (res); coils 5 to 24V dc.
- Relays, Type G4S Series, open type with dust cover, 1-pole single or double throw, max ratings for silver cadmium oxide or silver tin alloy contact: 10A, 120V ac, 10A resistive, 28V dc, for silver contact: 1A, 120V ac, 1A resistive, 28V dc; for silver copper alloy contact, 3A, 120V ac, 3A (resistive), 28V dc; coil 3 to 48V dc.
- Relays, Type G4U (with suffixes), open type with dust cover, 1-pole, single-or double-throw

contacts, coils 3 to 24V dc max; max contact ratings as follows:

Type	Suffixes	Pos VII	VIII	28V dc	30V dc	120V ac	250V ac	277V ac
G4U	Blank	Blank	Blank	2A(res)	-	2A	-	-
	Blank	or -L	or -L	5A(res)	-	5A	-	-
	or -FD	-X or -XI	-X or -XI	5A (res)	-	5A	3A	-
	Blank	-XI	-XI					
	or -FD							
G4U-1	-	-	-	-	2A (res)	2A	0.5A	0.8A
G4U-1A	-	-	-	2A (res)	-	2A	-	-
G4U-1-E	-	-	-	-	5A (res)	5A	1.2A	2A

- Relays, Type G4Z (with suffixes), open type, with dust cover, 2 pole, single throw contacts, max ratings as follows: 120V ac, 3A; 30V dc, 3A (resistive), coil, 48V dc max.
- Relays, Types G5L and G5LE (with suffixes), open type with dust cover, 1 pole, single or double throw contacts, coils 3 through 48V dc, max ratings as follows:

Designation	Contacts	30V dc	120V ac	125V ac	250V ac	277V ac
G5L..., -AP, -N.O. or N.C. AP3		5A (res)	TV-3	5A+ (70C) 10A	5A	-
G5L..., -ASI, N.O. N.C. -ASB		5A (res) 5A (res)	TV-5	-	5A 5A	-
G5LE..., -AP, -AP3	NO	8A(res)	1/6hp# TV-3,5FLA 30LRA 4FLA,4LRA* 200WT (105°C)	10A* 1/3hp+(70°C) 1/2hp* 1.6A*, 4FLA,4LRA* 200WT (105°C)	10A	6A*
	NC		13A Res* (85°C)			
	NO & NC	-	1/10hp# 2FLA,4LRA* (105°C)	125VAPD* (105C) 12A res 30,000 cycles)	-	-
G5LE...-ASI -ASB	NO	8A(res)	1/3hp,TV5 TV-3,5FLA, 30LRA 4FLA,4LRA* 200WT (105°C)	10A 1/2hp* 1.6A*, 4FLA,4LRA* 200WT (105°C)		
	NC	8A(res)	13A Res* (85°C)		10A	
	NO & NC	-	1/8hp, 1/10hp# 2FLA,4LRA* 125VAPD* (105°C)	125VAPD* (105C) 12A Res (30,000 cycles)		
				5A+(70°C)		

G5L-117P- T130-PS G5LE-1- ACD	NO & NC	-	125VAPD* 6LRA,6FLA 120Vac (85°C) 100,000 cycles	125VAPD* (105C) 5A+(70°C) 1/2hp*	-	-
	NO		12A res, (30,000 cycles) 125VAPD* TV-3,5FLA, 30LRA 4FLA,4LRA* (105°C) 13A Res* (85°C) 1/10hp#, 2FLA 4LRA*(105° C)	1.6A*, 200WT		

- Relays, Type G5U with suffixes, open type with dust cover, spst or spdt, contacts rated 2A, 250V ac or 2A (resistive), 30V dc, coil 6 to 24V dc.
- Relays, Type LC1, open type with dust cover, single pole, double-throw contact, max resistive ratings 120V ac, 28V dc, without Suffixes E, CE or CL, with dc coil 3A with ac coil 1.5A, with Suffix E or CE, dc coil, 5A, TV2 (relay with Suffix E only), ac coil 3A, with Suffix CL, dc coil only 1A.
- Relays, Type LC1M series, open type with dust cover, single pole, single or double throw contacts, rated 10A, 120V ac or 10A resistive, 24V dc or N.O. TV-5 for coils 3 to 24V dc and 5A, 120V ac or 5A resistive, 24V dc for coils 100 to 120V ac.
- Relays, Type LC1N (with suffixes), open type with dust cover, 1-pole, single and double throw contacts, max ratings as follows: with Suffix -10-TV5 or -10-TV3, 120V ac, 10A; 24V dc, 10A (resistive); TV5 or TV3, with Suffix -10, 120V ac, 10A; 24V dc, 10A (resistive), with Suffix -05, 120V ac, 5A; 24V dc, 5A (resistive), coils, 3 to 24V dc max.
- Relays, Type LC2N, open type with dust cover, 2-pole, double-throw contacts, max resistive ratings 120V ac, 28V dc without Suffix "E" or "CB", 2A, with Suffix "E", 3A, with Suffix CB, 1A, coil 28V dc max.
- Relays, Type MH (with suffixes), open type with dust cover, 2, 4 or 6 pole, double throw contacts, max ratings: with Suffix "05", 125V ac, 28V dc, 5A (resistive) with Suffix "Z" or without Suffix "Z" "05", 125V ac, 28V dc, 2A (resistive), coils 1.5 to 110V dc, 1.5 to 15,000 ohms.
- Relays, Type MHE, open type with dust cover, with Suffixes 2-, 4 or 6 pole, double throw contacts, 5A max, 120V ac max, 0.5A max, 100V dc max (see Note No 4).
- Sockets, Type PM, 120V ac max, 5A max.
- Relays, Type G8P(with suffixes), open type with or without dust cover, 1-pole, single or double throw contacts. Coils 5 to 110V dc.

I. Contact Material: Silver Cadmium Oxide (suffix blank)

Rating	Ambient °C	Endurance Cycles
a. Contact Form: SPST (N.O.)		
28V dc, 20A, resistive	40	6,000
120V ac, 20A, resistive	70	100,000
125V ac, 20A	40	100,000

125V ac, 20FLA, 96LRA	40	100,000
120V ac, 20A ballast (2400W)	40	6,000
240V ac, 20A, resistive	70	100,000
240V ac, 20A resistive	105	100,000
240V ac, 20A	70	100,000
240V ac, 30A	40	50,000
250V ac, 30A	40	30,000
250V ac, 30A resistive	40	100,000
250V ac, 12FLA, 72LRA	40	100,000
277V ac, 30A	40	100,000
277Vac, 20A ballast	40	6,000
125V ac, 1 Hp	40	1,000
120V ac, 1 HP	70	30,000
250V ac, 1 HP	40	1,000
250V ac, 2 HP	40	1,000
120/240V ac, 1A pilot duty	70	100,000
120/240V ac, A300 pilot duty	40	6,000
277V ac, 12A	40	6,000
120V ac, 15 tungsten	40	6,000
250V ac, 5A (1250W) tungsten	40	6,000
120V ac, 40LRA, 20FLA	85	100,000
240V ac, 20LRA, 10FLA	85	100,000
240V ac, 25A resistive	105	6,000

b. Contact Form: SPST (N.C.)

28V dc, 10A resistive	40	6,000
125V ac, 15A	40	6,000
240V ac, 10A	70	100,000
250V ac, 10A	40	6,000
250V ac, 15A	40	6,000
277V ac, 6A	40	6,000
277V ac, 30A	40	50,000
125V ac, ¼ Hp	40	1,000
120V ac, 1 Hp	70	30,000
250V ac, ¼ HP	40	1,000
120/240V ac, 1 A pilot duty	70	100,000
250V ac, 3A (750W) tungsten	40	6,000
120V ac, 40LRA, 20FLA	85	100,000
240V ac, 15LRA, 7.5FLA	85	100,000

Rating

Ambient °C

Endurance Cycles

c. Contact Form: SPDT (N.O./N.C.)

28V dc, 20A/10A resistive	40	6,000
120V ac, 20A resistive (N.O. only)	70	100,000
240V ac, 20A/10A	70	100,000
240V ac, 20A/15A	40	6,000

240V ac, 15A resistive (N.O. only)	105	100,000
240V ac, 20A resistive (N.O. only)	70	100,000
240V ac, 20A/15A resistive	105	100,000
277V ac, 12A/6A	40	6,000
120V ac, 1/1 HP	70	30,000
125V ac, ½/ ½ HP	40	100,000
125V ac, ½ Hp (N.O. only)	40	100,000
277V ac, 30A/30A	40	100,000/50,000
125V ac, 1¼ HP	40	1,000
250V ac, 2½ HP	40	1,000
120/240V ac, 1A/1A pilot duty	70	100,000
120V ac, B150/B150, pilot duty	40	100,000
250V ac, 5A/3A tungsten	40	6,000
277V ac, 6A/3A tungsten	40	6,000
120V ac, 30LRA, 15FLA/30LRA, 15FLA	50	30,000
120V ac, 40LRA, 20Fla/30LRA, 15FLA	85	100,000
240V ac, 20LRA, 10FLA/15LRA, 7.5FLA	85	100,000

II. CONTACT MATERIAL: Silver Tin Alloy (suffix "FD")

a. Contact Form: SPST (N.O.)

Rating	Ambient C	Endurance Cycles
28V dc, 20A, resistive	40	6,000
28V dc, 30A resistive	40	6,000
120V ac, 20A resistive	70	100,000
125V ac, 20A	40	100,000
240V ac, 30A	40	50,000
240V ac, 20A resistive	70	100,000
250V ac, 30A	40	30,000
277V ac, 12A	60	6,000
125V ac, 1 HP	40	1,000
250V ac, 1 HP	40	1,000
250V ac, 2 Hp	40	1,000
125V ac, 20FLA, 96LRA	40	100,000
120/240V ac, A300 pilot duty	40	6,000
250V ac, 5A (1250W) tungsten	40	6,000
120V ac, 15A (1800W) tungsten	40	6,000
277V ac, 6A ballast	40	6,000
120V ac, 20A ballast	40	6,000
277V ac, 20A ballast	40	6,000

b. Contact Form: SPST (N.C.)

28V dc, 10A resistive	40	6,000
125V ac, 15A	40	6,000
250V ac, 10A	40	6,000
250V ac, 15A	40	6,000
277V ac, 6A	40	6,000
125V ac, ¼ Hp	40	1,000
250V ac, ¼ Hp	40	1,000
250V ac, 3A (750W) tungsten	40	6,000

c. Contact Form: SPDT (N.O./N.C)

28V dc, 20A/10A resistive	40	6,000
240V ac, 20A/15A	40	6,000
277V ac, 12A/6A	40	6,000
277V ac, 30A/20A resistive	40	100,000/30,000
Carry current only – 30A		
120V ac, 20A resistive (NO only)	70	100,000
240V ac, 20A resistive (NO only)	70	100,000
125V ac, ½/½ Hp	40	100,000
125V ac, 1/¼ Hp	40	1,000
250V ac, 2/½ Hp	40	1,000
120V ac, B150/B150 pilot duty	40	100,000
250V ac, 5A/3A tungsten	40	6,000
277V ac, 6A/3A ballast	40	6,000

CONTACT MATERIAL: Silver (suffix "Ag")

a. Contact Form: SPST (N.O.)

Rating	Ambient °C	Endurance Cycles
28V dc, 15A resistive	40	6,000
125V ac, 15A	40	6,000
250V ac, 5A tungsten	40	6,000
250V ac, 10A	40	6,000

Dust cover, Cat No R99-C01G8P for Type G8P relays without dust cover.

- Relays, open type with dust cover, Series G5JS with suffixes, 1-pole, single throw contact. Coil rated 12 through 24 V dc, Maximum contact ratings as follows:

Configuration	Contact Rating		Test Conditions	
	30V dc	250V ac	Temperature	Operations
N.O.	16A, res	16A	85°C	30,000

Notes:

1. The type designations of the relays, except Type 1051, are followed by suffix numbers and letters denoting contact rating, followed by Suffix US or UA and may be followed by additional suffix letters and numbers denoting coil rating, e.g. LC1-100-V-CB-C-E-JT-UA-AC6.
2. Types LC1M, 1051 and G4SE relays (when applied in circuits above 51V) are for use only in circuits where the power is limited by a transformer, rectifier, voltage divider or similar device (overload devices and fuses are excluded) and where the short circuit limit is 1500VA, or less and where a fire hazard will not result from a short circuit.
3. Open type relays are Certified, as components, for use only in other Certified equipment where the suitability of the combination is determined by Canadian Standards Association.
4. Characters *, + or # indicate electrical rating have been endurance tested for 100,000, 50,000 or 30,000 operations respectively.
3. Type G8P Relays - Suffix letters and numbers added to type designation to form catalogue numbers and indicate number of poles, contact arrangement, dust cover, terminal type, contact material, insulation class, etc.
4. Letters T, b and character * and ++ indicate max Tungsten, ballast load in amps and electrical rating have been endurance tested for 100,000 and 50,000 operations respectively.
5. Open type devices are Certified as components for use only in other Certified equipment where the suitability of the combination is to be determined by the Canadian Standards

Association.

6. ** indicates 100,000 cycles of endurance.

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