

C7-A2x

2 pole | changeover contact | faston

Main circuit

Available contact materials	AgNi for C7-A20 AgNi + 5 μ Au for C7-A28
Recommended minimum contact load	10 mA / 10 V for C7-A20 1 mA / 1 V for C7-A28
Maximum contact load AC	10 A / 250 V AC-1
Maximum contact load DC	10 A / 24 V DC-1
Rated current	10 A
Inrush current	30 A, 20 ms
AC load	2500 VA
DC load	fig. 3.
Mechanical endurance (cycles)	≥ 10 000 000
Electrical endurance at rated load AC-1 / DC-1 (cycles)	≥ 300 000 / ≥ 100 000

Control circuit

Nominal voltage	see table product references
Operating voltage range	$0.8 U_N \dots 1.1 U_N$
Pick-up voltage	$\leq 0.8 U_N$
Release voltage	$\geq 0.1 U_N$
Power consumption AC / DC	1.2 VA / 1 W

Coil table

Insulation

Test voltage open contact	1 kV / 1 min
Test voltage contact / contact	2.5 kV / 1 min
Test voltage contact / coil	2.5 kV / 1 min
Pollution degree	3
Overvoltage category	III
Insulation resistance at 500 V	≥ 1 GΩ

General data

Ambient temperature storage (no ice)	-40 ... 80 °C
Ambient temperature operation	-40 ... 60 °C
Pick-up time / bounce time	16 ms / ≤ 3 ms
Release time / bounce time	8 ms / ≤ 1 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	43 g
Housing material	PA / PC

Product references

Description	Type (x refers to contact material)	12	24	48	60	110	115	220	230
AC 50 Hz	C7-A2x/AC...V	✓	✓	✓			✓		✓
LED	C7-A2xX/AC...V	✓	✓	✓			✓		✓
DC	C7-A2x/DC...V	✓	✓	✓	✓	✓			✓
LED	C7-A2xX/DC...V	✓	✓	✓	✓	✓			✓
LED & Free wheeling diode	C7-A2xDX/DC...V		✓						
LED & Polarity & Free wheeling diode	C7-A2xFX/DC...V	✓	✓	✓	✓				✓
AC / DC bridge rectifier & LED	C7-A2xBX/UC...V	✓	✓	✓	✓				

AC relays also available as 60 Hz. Other voltages on request. Please contact support@comatreleco.com.

«...» List coil voltage to complete product references

Accessories

Socket	S7-C, S7-I/O, S7-P, S7-PI
Blanking plug	S9-NP (BAG 10 PCS)
Push only	S9-OP (BAG 10 PCS)



fig. 1. Wiring diagram

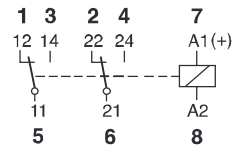


fig. 2. AC voltage endurance

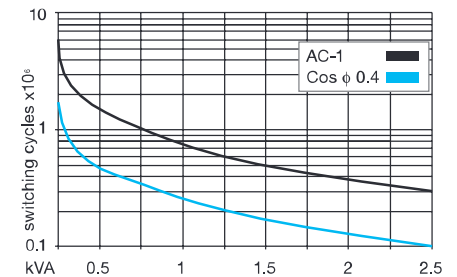


fig. 3. DC load limit curve

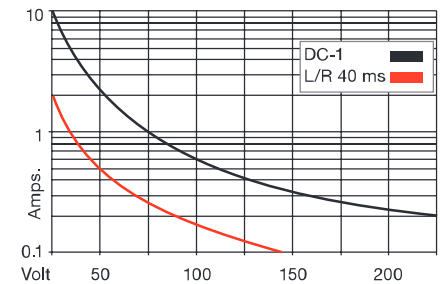
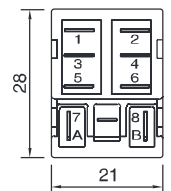


fig. 4. Dimension (mm)



C7-A10

1 pole | changeover contact | faston

Main circuit

Available contact materials	AgNi
Recommended minimum contact load	10 mA / 10 V
Maximum contact load AC	16 A / 250 V AC-1
Maximum contact load DC	16 A / 24 V DC-1
Rated current	16 A
Inrush current	40 A, 20 ms
AC load	4000 VA
DC load	fig. 3.
Mechanical endurance (cycles)	≥ 10 000 000
Electrical endurance at rated load AC-1 / DC-1 (cycles)	≥ 300 000 / ≥ 100 000

Control circuit

Nominal voltage	see table product references
Operating voltage range	0.8 U _N ... 1.1 U _N
Pick-up voltage	≤ 0.8 U _N
Release voltage	≥ 0.1 U _N
Power consumption AC / DC	1.2 VA / 1.3 W

Coil table

Insulation

Test voltage open contact	1 kV / 1 min
Test voltage contact / coil	2.5 kV / 1 min
Pollution degree	3
Overvoltage category	III
Insulation resistance at 500 V	≥ 1 GΩ

General data

Ambient temperature storage (no ice)	-40 ... 80 °C
Ambient temperature operation	-40 ... 60 °C
Pick-up time / bounce time	16 ms / ≤ 3 ms
Release time / bounce time	8 ms / ≤ 1 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	43 g
Housing material	PA / PC

Product references

Description	Type	12	24	48	60	110	115	220	230
AC 50 Hz									
LED	C7-A10X/AC...V	✓	✓	✓			✓		✓
DC									
LED	C7-A10X/DC...V	✓	✓	✓	✓	✓		✓	
LED & Free wheeling diode	C7-A10DX/DC...V		✓						
LED & Polarity & Free wheeling diode	C7-A10FX/DC...V	✓	✓	✓	✓			✓	

AC relays also available as 60 Hz. Other voltages on request. Please contact support@comatreleco.com.

«...» List coil voltage to complete product references

Accessories

Socket	S7-C, S7-I/O, S7-P, S7-PI
Blanking plug	S9-NP (BAG 10 PCS)
Push only	S9-OP (BAG 10 PCS)

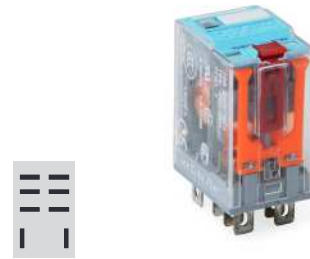


fig. 1. Wiring diagram

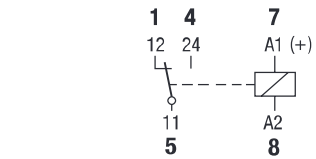


fig. 2. AC voltage endurance

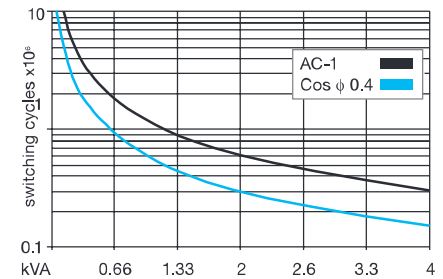


fig. 3. DC load limit curve

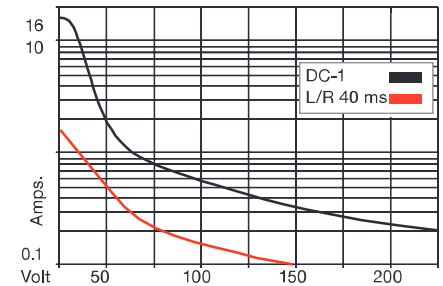


fig. 4. Dimension (mm)

C7-G2x

2 pole | normally open contact | Faston

Maximum contact load	10 A/250 V AC-1	0.8 A/110 V DC-1
	10 A/30 V DC-1	0.4 A/220 V DC-1
Recommended minimum contact load	10mA/10V	

Contacts

Material	Standard	Code 0	⚡ AgNi
Rated Load			10 A
Max. inrush current (20 ms)			30 A
Switching voltage max			250 V
AC load fig. 1			2.5 kVA
DC load			see fig. 2

Coil

Coil resistance	see table; tolerance ± 10 %
Pick-up voltage	≤ 0.8 × U _N
Release voltage	≥ 0.1 × U _N
Nominal power	1.5 VA (AC)/1.5 W (DC)

Coil table

V AC	Ω	mA	V DC	Ω	mA
24	153	62	12	99	121
48	611	31	24	388	61
115	3K6	13	48	1K5	32
230	14K6	6.5	110	8K	14

Insulation

Contact open	2000 V
Contact/contact	2.5 kV
Contact/coil	2.5 kV
Insulation resistance at 500 V	≥ 1 GΩ
Insulation, IEC 61810-1	2.5 kV

Specifications

Ambient temperature operation/storage	-40...60 °C / -40 ... 80 °C (no ice)
Pick-up time/bounce time	20 ms / ≤ 3 ms
Release time/bounce time	10 ms / ≤ 1 ms
Mechanical life ops	AC: 10 Mill./DC: 20 Mill.
DC voltage endurance at rated load	≥ 100 000 switching cycles
Max. switching frequency at rated load	1200/h
Weight	43 g

Product References

V AC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240) LED

C7-G20X/AC ... V

V DC 12, 24, 48, 110

LED

Polarity and free wheeling diode

C7-G20FX/DC ... V

AC/DC bridge rectifier 24 V, 48 V, 60 V

Other voltages on request

C7-G20BX/UC ... V

"..." List Coil Voltage to complete Product References

Accessories

Socket	S7-C, S7-IO, S7-P,
Push only	S9-OP (BAG 10 PCS)
Blanking Plug	S9-NP (BAG 10 PCS)



Connection diagram

Gap: 1.5 mm

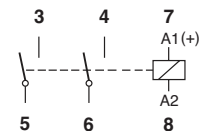


fig. 1 AC voltage endurance

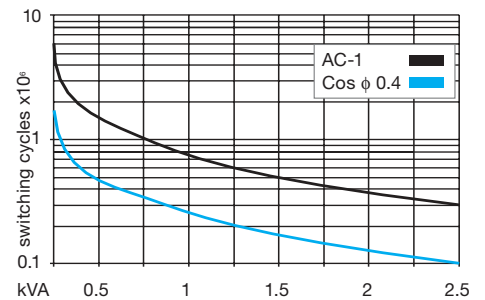
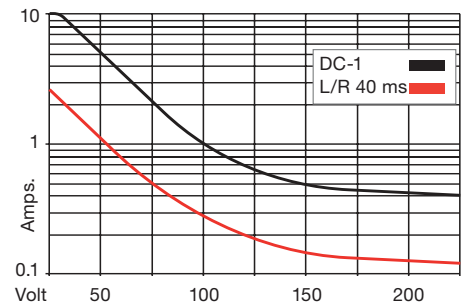
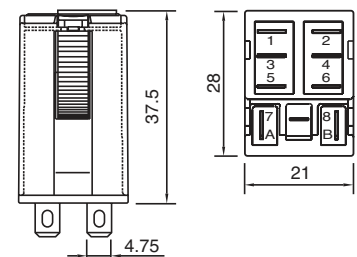


fig. 2 DC load limit curve



Dimensions (mm)



Technical approvals, conformities



IEC/EN 61810; IEC/EN 60947

C7-G20

2 pole | normally open contact | faston

Main circuit

Available contact materials	AgNi
Recommended minimum contact load	10 mA / 10 V
Maximum contact load AC	10 A / 250 V AC-1
Maximum contact load DC	10 A / 30 V DC-1
Rated current	10 A
Inrush current	30 A, 20 ms
AC load	2500 VA
DC load	fig. 3.
Mechanical endurance (cycles)	≥ 10 000 000
Electrical endurance at rated load AC-1 / DC-1 (cycles)	≥ 300 000 / ≥ 100 000

Control circuit

Nominal voltage	see table product references
Operating voltage range	0.8 U _N ... 1.1 U _N
Pick-up voltage	≤ 0.8 U _N
Release voltage	≥ 0.1 U _N
Power consumption AC / DC	1.5 VA / 1.5 W

Coil table

Insulation

Test voltage open contact	2 kV / 1 min
Test voltage contact / contact	2.5 kV / 1 min
Test voltage contact / coil	2.5 kV / 1 min
Pollution degree	3
Overvoltage category	III
Insulation resistance at 500 V	≥ 1 GΩ

General data

Ambient temperature storage (no ice)	-40 ... 80 °C
Ambient temperature operation	-40 ... 60 °C
Pick-up time / bounce time	20 ms / ≤ 3 ms
Release time / bounce time	10 ms / ≤ 1 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	43 g
Housing material	PA / PC

Product references

Description	Type	12	24	48	60	110	115	230
AC 50 Hz	C7-G20/AC...V	✓	✓	✓		✓	✓	✓
LED	C7-G20X/AC...V	✓	✓	✓		✓	✓	✓
DC	C7-G20/DC...V	✓	✓	✓		✓		
LED	C7-G20X/DC...V	✓	✓	✓		✓		
LED & Free wheeling diode	C7-G20DX/DC...V		✓					
LED & Polarity & Free wheeling diode	C7-G20FX/DC...V	✓	✓	✓		✓		

AC relays also available as 60 Hz. Other voltages on request. Please contact support@comatreleco.com.

«...» List coil voltage to complete product references

Accessories

Socket	S7-C, S7-I/O, S7-P, S7-PI
Blanking plug	S9-NP (BAG 10 PCS)
Push only	S9-OP (BAG 10 PCS)



fig. 1. Wiring diagram

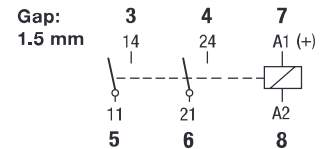


fig. 2. AC voltage endurance

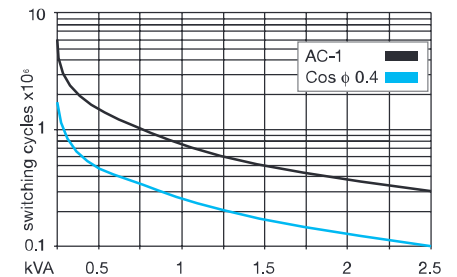


fig. 3. DC load limit curve

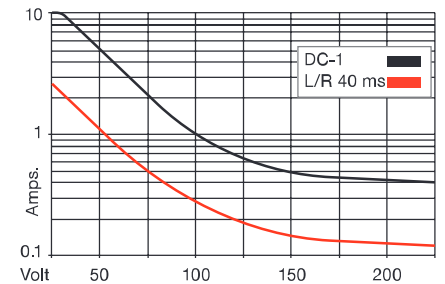
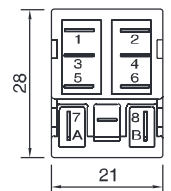


fig. 4. Dimension (mm)



C7-T2x

2 pole | changeover twin contact | faston

Main circuit

Available contact materials	AgNi + 0.2 μ Au for C7-T21 AgNi + 5 μ Au for C7-T22
Recommended minimum contact load	5 mA / 5 V for C7-T21 1 mA / 1 V for C7-T22
Maximum contact load AC	6 A / 250 V AC-1
Maximum contact load DC	6 A / 30 V DC-1
Rated current	6 A
Inrush current	15 A, 20 ms
AC load	1200 VA
DC load	fig. 3.
Mechanical endurance (cycles)	≥ 10 000 000
Electrical endurance at rated load AC-1 / DC-1 (cycles)	≥ 150 000 / ≥ 100 000

Control circuit

Nominal voltage	see table product references
Operating voltage range	0.8 U _N ... 1.1 U _N
Pick-up voltage	≤ 0.8 U _N
Release voltage	≥ 0.1 U _N
Power consumption AC / DC	1.2 VA / 1 W

Coil table

Insulation

Test voltage open contact	1 kV / 1 min
Test voltage contact / contact	2.5 kV / 1 min
Test voltage contact / coil	2.5 kV / 1 min
Pollution degree	3
Overvoltage category	III
Insulation resistance at 500 V	≥ 1 GΩ

General data

Ambient temperature storage (no ice)	-40 ... 80 °C
Ambient temperature operation	-40 ... 60 °C
Pick-up time / bounce time	16 ms / ≤ 3 ms
Release time / bounce time	8 ms / ≤ 1 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	43 g
Housing material	PA / PC

Product references

Description	Type (x refers to contact material)	12	24	48	110	115	220	230
AC 50 Hz	C7-T2x/AC...V	✓	✓				✓	✓
LED	C7-T2xX/AC...V	✓	✓			✓		✓
DC	C7-T2x/DC...V	✓	✓	✓	✓			✓
LED	C7-T2xX/DC...V	✓	✓	✓	✓			✓
LED & Free wheeling diode	C7-T2xDX/DC...V		✓					
LED & Polarity & Free wheeling diode	C7-T2xFX/DC...V	✓	✓	✓	✓			✓
AC / DC bridge rectifier & LED	C7-T2xBX/UC...V	✓	✓					

AC relays also available as 60 Hz. Other voltages on request. Please contact support@comatreleco.com.

«...» List coil voltage to complete product references

Accessories

Socket	S7-C, S7-VO, S7-P, S7-PI
Blanking plug	S9-NP (BAG 10 PCS)
Push only	S9-OP (BAG 10 PCS)

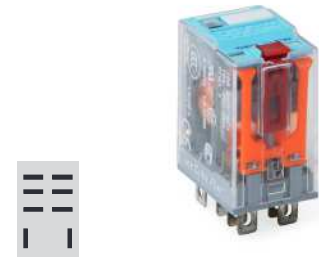


fig. 1. Wiring diagram

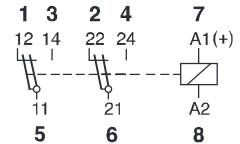


fig. 2. AC voltage endurance

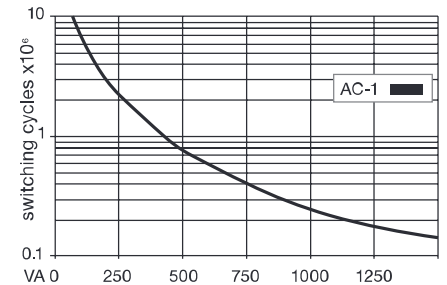


fig. 3. DC load limit curve

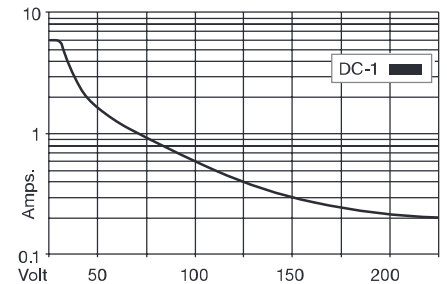
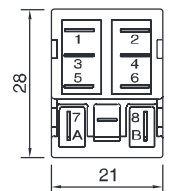


fig. 4. Dimension (mm)



C7-W10

1 pole | normally open tungsten pre-contact | faston

Main circuit

Available contact materials	Tungsten = Pre-contact AgNi = Main contact
Recommended minimum contact load	10 mA / 10 V
Maximum contact load AC	10 A / 250 V AC-1
Rated current	10 A
Inrush current	500 A, 2.5 ms
AC load	2500 VA
DC load	-
Mechanical endurance (cycles)	≥ 10 000 000
Electrical endurance at rated load AC-1 / DC-1 (cycles)	≥ 300 000 / ≥ 100 000

Control circuit

Nominal voltage	see table product references
Operating voltage range	0.8 U _N ... 1.1 U _N
Pick-up voltage	≤ 0.8 U _N
Release voltage	≥ 0.1 U _N
Power consumption AC / DC	1.5 VA / 1.5 W

Coil table

Insulation

Test voltage open contact	1 kV / 1 min
Test voltage contact / coil	2.5 kV / 1 min
Pollution degree	3
Overvoltage category	III
Insulation resistance at 500 V	≥ 1 GΩ

General data

Ambient temperature storage (no ice)	-40 ... 80 °C
Ambient temperature operation	-40 ... 60 °C
Pick-up time / bounce time	20 ms / ≤ 3 ms
Release time / bounce time	10 ms / ≤ 1 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	43 g
Housing material	PA / PC

Product references

Description	Type	12	24	48	60	110	115	230
AC 50 Hz	C7-W10/AC...V			✓			✓	✓
LED	C7-W10X/AC...V			✓			✓	✓
DC	C7-W10/DC...V	✓		✓	✓	✓		
LED	C7-W10X/DC...V	✓		✓	✓	✓		
LED & Polarity & Free wheeling diode	C7-W10FX/DC...V	✓		✓	✓	✓		
AC / DC bridge rectifier & LED	C7-W10BX/UC...V		✓					

AC relays also available as 60 Hz. Other voltages on request. Please contact support@comatreleco.com.
«...» List coil voltage to complete product references

Accessories

Socket	S7-C, S7-I/O, S7-P, S7-PI
Blanking plug	S9-NP (BAG 10 PCS)
Push only	S9-OP (BAG 10 PCS)

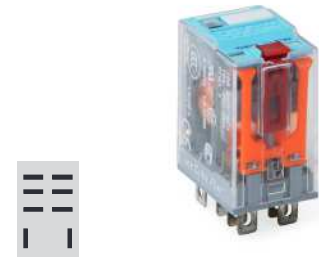


fig. 1. Wiring diagram

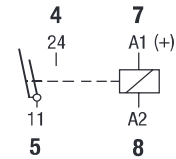


fig. 2. AC-1 voltage endurance

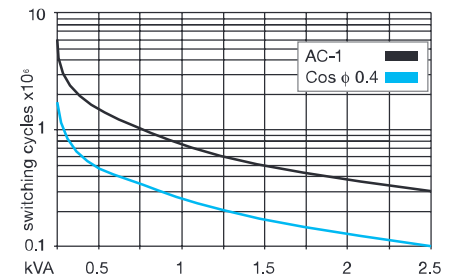


fig. 3. AC-5 voltage endurance

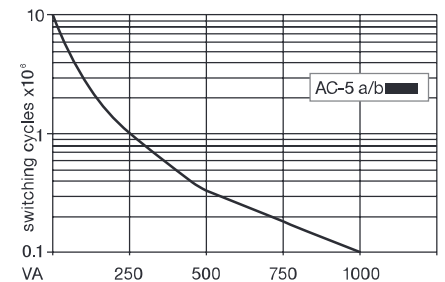
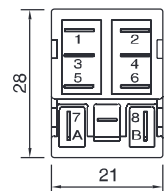


fig. 4. Dimension (mm)



C7-X10

1 pole | normally open serial contact | faston

Main circuit

Available contact materials	AgNi
Recommended minimum contact load	10 mA / 10 V
Maximum contact load AC	10 A / 250 V AC-1
Maximum contact load DC	10 A / 30 V DC-1
Rated current	10 A
Inrush current	30 A, 20 ms
AC load	2500 VA
DC load	fig. 3.
Mechanical endurance (cycles)	≥ 10 000 000
Electrical endurance at rated load AC-1 / DC-1 (cycles)	≥ 300 000 / ≥ 100 000

Control circuit

Nominal voltage	see table product references
Operating voltage range	0.8 U _N ... 1.1 U _N
Pick-up voltage	≤ 0.8 U _N
Release voltage	≥ 0.1 U _N
Power consumption AC / DC	1.5 VA / 1.3 W

Coil table

Insulation

Test voltage open contact	2.5 kV / 1 min
Test voltage contact / coil	2.5 kV / 1 min
Pollution degree	3
Overtoltage category	III
Insulation resistance at 500 V	≥ 1 GΩ

General data

Ambient temperature storage (no ice)	-40 ... 80 °C
Ambient temperature operation	-40 ... 60 °C
Pick-up time / bounce time	20 ms / ≤ 3 ms
Release time / bounce time	10 ms / ≤ 1 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	43 g
Housing material	PA / PC

Product references

Description	Type	12	24	48	60	110	115	230
AC 50 Hz	C7-X10/AC...V		✓				✓	✓
LED	C7-X10X/AC...V		✓				✓	✓
DC	C7-X10/DC...V	✓	✓	✓		✓		
LED	C7-X10X/DC...V	✓	✓	✓		✓		
LED & Free wheeling diode	C7-X10DX/DC...V		✓					
LED & Polarity & Free wheeling diode	C7-X10FX/DC...V	✓	✓	✓		✓		

AC relays also available as 60 Hz. Other voltages on request. Please contact support@comatreleco.com.
«...» List coil voltage to complete product references

Accessories

Socket	S7-C, S7-I/O, S7-P, S7-PI
Blanking plug	S9-NP (BAG 10 PCS)
Push only	S9-OP (BAG 10 PCS)

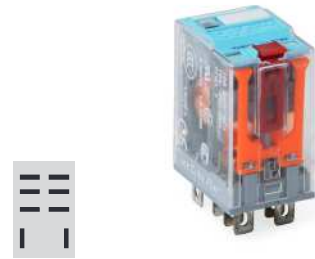


fig. 1. Wiring diagram

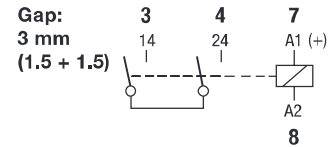


fig. 2. AC voltage endurance

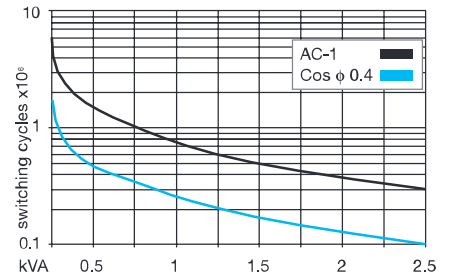


fig. 3. DC load limit curve

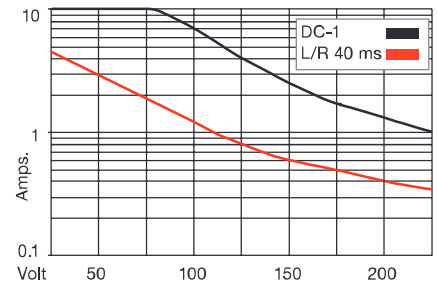
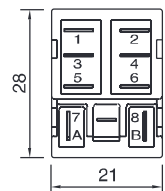


fig. 4. Dimension (mm)



C9-A4x

4 pole | changeover contact | faston

Main circuit

Available contact materials	AgNi + 0.2 μ Au for C9-A41 AgNi + 5 μ Au for C9-A42
Recommended minimum contact load	1 mA / 1 V for C9-A41 1 mA / 1 V for C9-A42
Maximum contact load AC	5 A / 250 V AC-1
Maximum contact load DC	5 A / 30 V DC-1
Rated current	5 A
Inrush current	15 A, 20 ms
AC load	1250 VA
DC load	fig. 3.
Mechanical endurance (cycles)	≥ 10 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 100 000

Control circuit

Nominal voltage	see table product references
Operating voltage range	0.8 U _N ... 1.1 U _N
Pick-up voltage	≤ 0.8 U _N
Release voltage	≥ 0.1 U _N
Power consumption AC / DC	1.2 VA / 1 W

Coil table

Insulation

Test voltage open contact	1 kV / 1 min
Test voltage contact / contact	2 kV / 1 min
Test voltage contact / coil	2.5 kV / 1 min
Pollution degree	3
Overvoltage category	III
Insulation resistance at 500 V	≥ 1 GΩ

General data

Ambient temperature storage (no ice)	-40 ... 80 °C
Ambient temperature operation	-40 ... 60 °C
Pick-up time / bounce time	10 ms / ≤ 3 ms
Release time / bounce time	6 ms / ≤ 1 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	43 g
Housing material	PA / PC

Product references

Description	Type (x refers to contact material)	12	24	48	60	110	220	230
AC 50 Hz	C9-A4x/AC...V	✓	✓	✓	✓		✓	✓
LED	C9-A4xX/AC...V	✓	✓	✓	✓		✓	✓
DC	C9-A4x/DC...V	✓	✓	✓	✓	✓	✓	✓
LED	C9-A4xX/DC...V	✓	✓	✓	✓	✓	✓	✓
LED & Free wheeling diode	C9-A4xDX/DC...V		✓					
LED & Polarity & Free wheeling diode	C9-A4xFX/DC...V	✓	✓	✓	✓	✓	✓	✓
AC / DC bridge rectifier & LED	C9-A4xBX/UC...V	✓	✓	✓	✓			

AC relays also available as 60 Hz. Other voltages on request. Please contact support@comatreleco.com.

«...» List coil voltage to complete product references

Accessories

Socket	S9-M, S9-P, S9-PI
Blanking plug	S9-NP (BAG 10 PCS)
Push only	S9-OP (BAG 10 PCS)



fig. 1. Wiring diagram

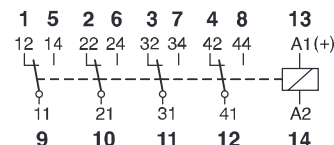


fig. 2. AC voltage endurance

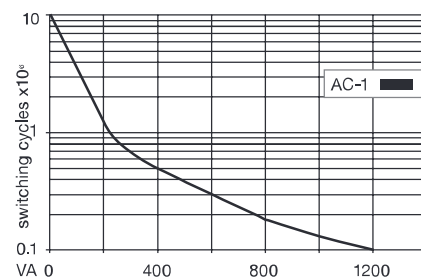


fig. 3. DC load limit curve

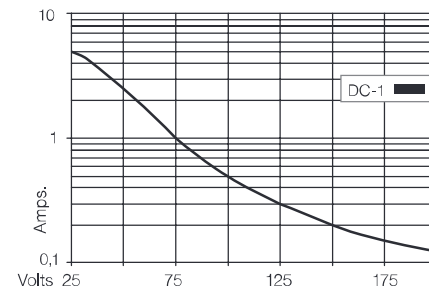


fig. 4. Dimension (mm)

C9-E21

2 pole | changeover contact | sensitive coil | faston

Main circuit

Available contact materials	AgNi + 0.2 μ Au
Recommended minimum contact load	10 mA / 10 V
Maximum contact load AC	5 A
Maximum contact load DC	5 A / 250 V AC-1
Rated current	5 A / 30 V DC-1
Inrush current	15 A, 20 ms
AC load	1200 VA
DC load	fig. 3.
Mechanical endurance (cycles)	≥ 10 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 100 000

Control circuit

Nominal voltage	see table product references
Operating voltage range	0.8 U _N ... 1.1 U _N
Pick-up voltage	≤ 0.8 U _N
Release voltage	≥ 0.1 U _N
Power consumption AC / DC	0.8 VA / 0.5 W

Coil table

Insulation

Test voltage open contact	1 kV / 1 min
Test voltage contact / contact	2.5 kV / 1 min
Test voltage contact / coil	2.5 kV / 1 min
Pollution degree	3
Overvoltage category	III
Insulation resistance at 500 V	≥ 1 GΩ

General data

Ambient temperature storage (no ice)	-40 ... 80 °C
Ambient temperature operation	-40 ... 60 °C
Pick-up time / bounce time	10 ms / ≤ 3 ms
Release time / bounce time	6 ms / ≤ 1 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	40 g
Housing material	PA / PC

Product references

Description	Type	12	24	48	60	110	220	230
AC 50 Hz								
LED	C9-E21X/AC...V	✓	✓	✓	✓			✓
DC								
LED & Polarity & Free wheeling diode	C9-E21FX/DC...V	✓	✓	✓	✓	✓	✓	✓
AC / DC bridge rectifier & LED	C9-E21BX/UC...V		✓					

AC relays also available as 60 Hz. Other voltages on request. Please contact support@comatreleco.com.

«...» List coil voltage to complete product references

Accessories

Socket	S9-M, S9-P, S9-PI
Blanking plug	S9-NP (BAG 10 PCS)
Push only	S9-OP (BAG 10 PCS)

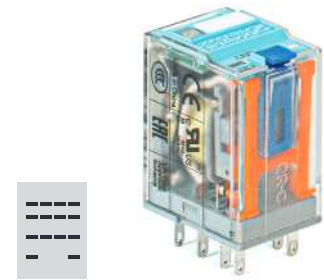


fig. 1. Wiring diagram

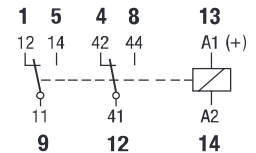


fig. 2. AC voltage endurance

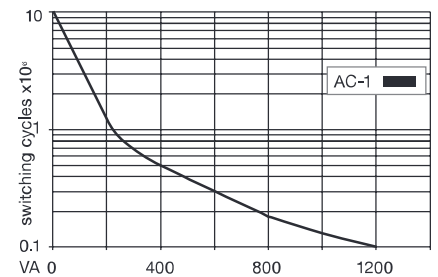


fig. 3. DC load limit curve

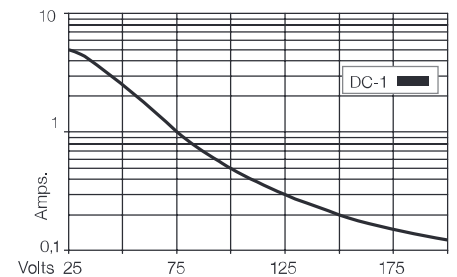


fig. 4. Dimension (mm)

C9-R21

2 pole | changeover twin contact | faston

Main circuit

Available contact materials	AgNi + 0.2 μ Au
Recommended minimum contact load	10 mA / 10 V
Maximum contact load AC	5 A / 120 V AC-1
Maximum contact load DC	5 A / 30 V DC-1
Rated current	5 A
Inrush current	15 A, 20 ms
AC load	600 VA
DC load	fig. 3.
Mechanical endurance (cycles)	≥ 10 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 100 000

Control circuit

Nominal voltage	see table product references
Operating voltage range	0.8 U _N ... 1.1 U _N
Pick-up voltage (latch)	≤ 0.8 U _N
Release voltage (delatch)	≤ 0.8 U _N
ON pulse power	AC 1.2 VA, DC 1.2 W
OFF pulse power	0.2 VA / 0.3 W

Coil table

Internal diagram

Insulation

Test voltage open contact	1 kV / 1 min
Test voltage contact / contact	2 kV / 1 min
Test voltage contact / coil	2 kV / 1 min
Pollution degree	3
Overvoltage category	III
Insulation resistance at 500 V	≥ 1 GΩ

General data

Ambient temperature storage (no ice)	-40 ... 80 °C
Ambient temperature operation	-40 ... 60 °C
Minimum pulse length ON / OFF	50 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	43 g
Housing material	PA / PC

Product references

Description	Type	12	24	48	60	115	230
AC 50 Hz	C9-R21/AC...V	✓	✓			✓	✓
DC	C9-R21/DC...V	✓	✓	✓	✓		

AC relays also available as 60 Hz. Other voltages on request. Please contact support@comatreleco.com.

«...» List coil voltage to complete product references

Accessories

Socket	S9-M, S9-P, S9-PI
Blanking plug	S0-NP (BAG 10 PCS)
Push only	S9-OP (BAG 10 PCS)

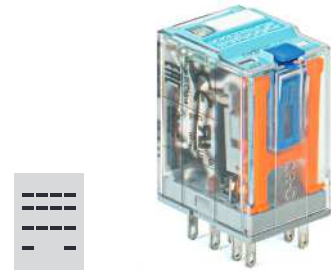


fig. 1. Wiring diagram

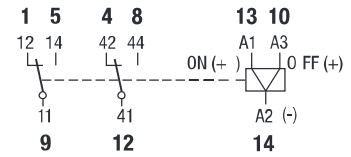


fig. 2. AC voltage endurance

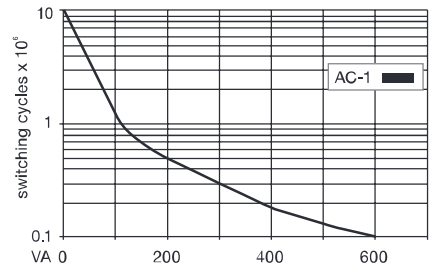


fig. 3. DC load limit curve

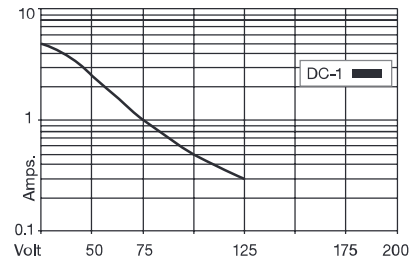


fig. 4. Dimension (mm)

C10-A1x

1 pole | changeover contact | faston



Main circuit

Available contact materials

- AgNi for C10-A10
- AgSnO₂ for C10-A15
- AgNi + 5 μ Au for C10-A18

Recommended minimum contact load

10 mA / 10 V for C10-A10, C10-A15
5 mA / 5 V for C10-A18

Maximum contact load AC

10 A / 250 V AC-1

Maximum contact load DC

10 A / 30 V DC-1

Rated current

10 A

Inrush current

30 A, 20 ms (120 A for C10-A15)

AC load

2500 VA

DC load

fig. 3.

Mechanical endurance (cycles)

≥ 10 000 000

Electrical endurance at rated load AC-1 (cycles)

≥ 200 000

Control circuit

Nominal voltage

see table product references

Operating voltage range

0.8 U_N ... 1.1 U_N

Pick-up voltage

≤ 0.8 U_N

Release voltage

≥ 0.1 U_N

Power consumption AC / DC

1.1 VA / 0.7 W

Coil table

V AC	Ω	mA	V DC	Ω	mA
12	82	71	12	224	54
24	290	45	24	742	32
48	1 206	23	48	3 400	13.5
115	7 290	9.5	110	19 923	5.5
230	28 874	4.7			

Insulation

Test voltage open contact

1 kV / 1 min

Test voltage contact / coil

5 kV / 1 min

Pollution degree

3

Overvoltage category

III

Insulation resistance at 500 V

≥ 1 GΩ

General data

Ambient temperature storage (no ice)

-40 ... 80 °C

Ambient temperature operation

-40 ... 70 °C

Pick-up time / bounce time

10 ms / ≤ 1 ms

Release time / bounce time

5 ms / ≤ 3 ms

Maximum switching frequency at rated load

1200 / h

Dimension

fig. 4.

Weight

21 g

Housing material

PA / PC

Product references

Description	Type (x refers to contact material)	12	24	48	110	115	230
AC 50 Hz	C10-A1x/AC...V	✓	✓	✓		✓	✓
LED	C10-A1xX/AC...V	✓	✓	✓		✓	✓
RC Suppressor	C10-A1xR/AC...V	✓	✓	✓		✓	✓
DC	C10-A1x/DC...V	✓	✓	✓	✓		
LED	C10-A1xX/DC...V	✓	✓	✓	✓		
LED & Polarity & Free wheeling diode	C10-A1xFX/DC...V	✓	✓	✓	✓		
AC / DC bridge recifier & LED	C10-A1xBX/UC...V		✓	✓			

AC relays also available as 60 Hz. Other voltages on request. Please contact support@comatreleco.com.

«...» List coil voltage to complete product references

Accessories

Socket

S10, S10-P, S10-PI



fig. 1. Wiring diagram

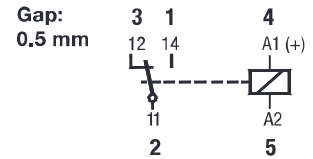


fig. 2. AC voltage endurance

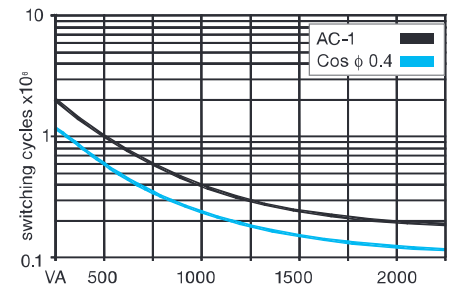


fig. 3. DC load limit curve

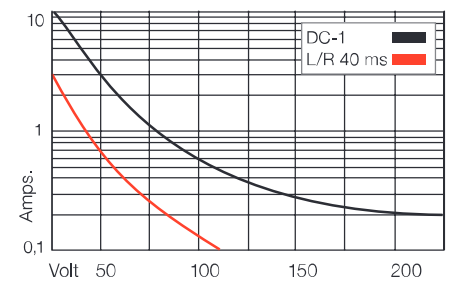
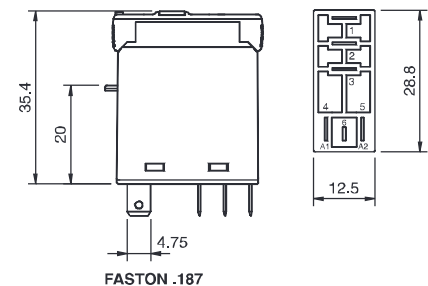


fig. 4. Dimension (mm)



Technical approvals, conformities

Standards IEC/EN 61810; IEC/EN 60947



Approvals

C10-G1x

1 pole | normally open contact | faston



Main circuit

Available contact materials

- AgNi for C10-G10
- AgSnO₂ for C10-G15

Recommended minimum contact load	10 mA / 10 V
Maximum contact load AC	10 A / 250 V AC-1
Maximum contact load DC	10 A / 30 V DC-1
Rated current	10 A
Inrush current	30 A, 20 ms (120 A for C10-G15)
AC load	2500 VA
DC load	fig. 3,
Mechanical endurance (cycles)	≥ 10 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 200 000

Control circuit

Nominal voltage	see table product references
Operating voltage range	0.8 U _N ... 1.1 U _N
Pick-up voltage	≤ 0.8 U _N
Release voltage	≥ 0.1 U _N
Power consumption AC / DC	1.1 VA / 0.7 W

Coil table

V AC	Ω	mA	V DC	Ω	mA
12	82	71	12	224	54
24	290	45	24	742	32
48	1 206	23	48	3 400	13.5
115	7 290	9.5	110	19 923	5.5
230	28 874	4.7			

Insulation

Test voltage open contact	2 kV / 1 min
Test voltage contact / coil	5 kV / 1 min
Pollution degree	3
Overvoltage category	III
Insulation resistance at 500 V	≥ 1 GΩ

General data

Ambient temperature storage (no ice)	-40 ... 80 °C
Ambient temperature operation	-40 ... 70 °C
Pick-up time / bounce time	10 ms / ≤ 1 ms
Release time / bounce time	8 ms / ≤ 3 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	21 g
Housing material	PA / PC

Product references

Description	Type (x refers to contact material)	12	24	48	110	115	230
AC 50 Hz							
LED	C10-G1xX/AC...V	✓	✓	✓		✓	✓
DC							
LED & Polarity & Free wheeling diode	C10-G1xFX/DC...V	✓	✓	✓	✓		
AC / DC bridge recifier & LED	C10-G1xBX/UC...V		✓	✓			

AC relays also available as 60 Hz. Other voltages on request. Please contact support@comatreleco.com.

«...» List coil voltage to complete product references

Accessories

Socket	S10, S10-P, S10-PI
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fig. 1. Wiring diagram

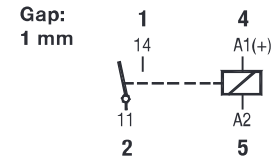


fig. 2. AC voltage endurance

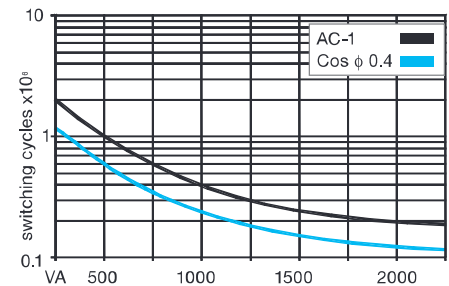


fig. 3. DC load limit curve

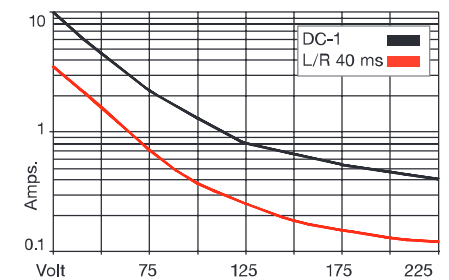
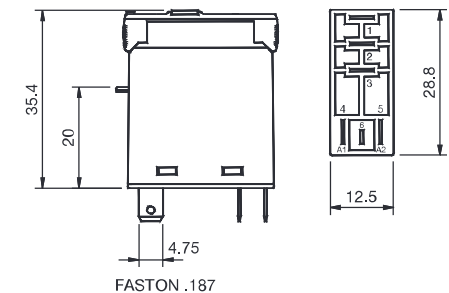


fig. 4. Dimension (mm)



Technical approvals, conformities

Standards IEC/EN 61810; IEC/EN 60947



C10-T1x

1 pole | changeover twin contact | faston

Main circuit

Available contact materials	<ul style="list-style-type: none"> 🟢 AgNi + 0.2 μ Au for C10-T11 🟡 AgNi + 5 μ Au for C10-T13
Recommended minimum contact load	5 mA / 5 V for C10-T11 1 mA / 5 V for C10-T13
Maximum contact load AC	6 A / 250 V AC-1
Maximum contact load DC	6 A / 30 V DC-1
Rated current	6 A
Inrush current	15 A, 20 ms
AC load	1500 VA
DC load	fig. 3.
Mechanical endurance (cycles)	≥ 10 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 100 000

Control circuit

Nominal voltage	see table product references
Operating voltage range	0.8 U _N ... 1.1 U _N
Pick-up voltage	≤ 0.8 U _N
Release voltage	≥ 0.1 U _N
Power consumption AC / DC	1.1 VA / 0.7 W

Coil table

V AC	Ω	mA	V DC	Ω	mA
12	82	71	12	224	54
24	290	45	24	742	32
48	1 206	23	48	3 400	13.5
115	7 290	9.5	110	19 923	5.5
230	28 874	4.7			

Insulation

Test voltage open contact	1 kV / 1 min
Test voltage contact / coil	5 kV / 1 min
Pollution degree	3
Overtoltage category	III
Insulation resistance at 500 V	≥ 1 GΩ

General data

Ambient temperature storage (no ice)	-40 ... 80 °C
Ambient temperature operation	-40 ... 70 °C
Pick-up time / bounce time	10 ms / ≤ 1 ms
Release time / bounce time	5 ms / ≤ 3 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	21 g
Housing material	PA / PC

Product references

Description	Type (x refers to contact material)	12	24	48	110	115	230
AC 50 Hz	C10-T1x/AC...V	✓	✓	✓	✓	✓	✓
LED	C10-T1xX/AC...V	✓	✓	✓	✓	✓	✓
RC Suppressor	C10-T1xR/AC...V	✓	✓	✓	✓	✓	✓
DC	C10-T1x/DC...V	✓	✓	✓	✓	✓	✓
LED	C10-T1xX/DC...V	✓	✓	✓	✓	✓	✓
LED & Polarity & Free wheeling diode	C10-T1xFX/DC...V	✓	✓	✓	✓	✓	✓
AC / DC bridge recifier & LED	C10-T1xBX/UC...V	✓	✓				

AC relays also available as 60 Hz. Other voltages on request. Please contact support@comatreleco.com.
«...» List coil voltage to complete product references

Accessories

Socket	S10, S10-P, S10-PI
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fig. 1. Wiring diagram

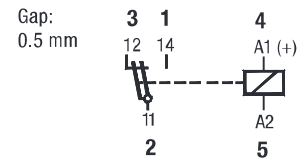


fig. 2. AC voltage endurance

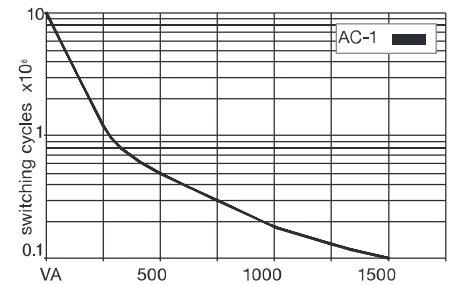


fig. 3. DC load limit curve

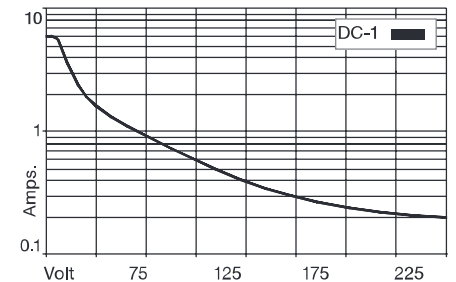
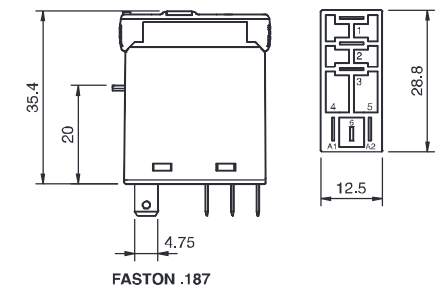


fig. 4. Dimension (mm)



Technical approvals, conformities

Standards IEC/EN 61810; IEC/EN 60947

Approvals

C12-A2x

2 pole | changeover contact | faston



Main circuit

Available contact materials	● AgNi + 0.2 μ Au for C12-A21 ● AgNi + 5 μ Au for C12-A22
Recommended minimum contact load	10 mA / 10 V for C12-A21 5 mA / 5 V for C12-A22
Maximum contact load AC	5 A / 250 V AC-1
Maximum contact load DC	5 A / 30 V DC-1
Rated current	5 A
Inrush current	15 A, 20 ms
AC load	1200 VA
DC load	fig. 3.
Mechanical endurance (cycles)	≥ 10 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 100 000

Control circuit

Nominal voltage	see table product references
Operating voltage range	0.8 U _N ... 1.1 U _N
Pick-up voltage	≤ 0.8 U _N
Release voltage	≥ 0.1 U _N
Power consumption AC / DC	1.1 VA / 0.7 W

Coil table

V AC	Ω	mA	V DC	Ω	mA
12	82	71	12	224	54
24	290	45	24	742	32
48	1 206	23	48	3 400	13.5
115	7 290	9.5	110	19 923	5.5
230	28 874	4.7			

Insulation

Test voltage open contact	1 kV / 1 min
Test voltage contact / contact	3 kV / 1 min
Test voltage contact / coil	5 kV / 1 min
Pollution degree	3
Overvoltage category	III
Insulation resistance at 500 V	≥ 1 GΩ

General data

Ambient temperature storage (no ice)	-40 ... 80 °C
Ambient temperature operation	-40 ... 70 °C
Pick-up time / bounce time	10 ms / ≤ 1 ms
Release time / bounce time	5 ms / ≤ 3 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	21 g
Housing material	PA / PC

Product references

Description	Type (x refers to contact material)	12	24	48	110	115	230
AC 50 Hz	C12-A2x/AC...V	✓	✓	✓		✓	✓
LED	C12-A2xX/AC...V	✓	✓	✓		✓	✓
RC Suppressor	C12-A2xR/AC...V	✓	✓	✓		✓	✓
DC	C12-A2x/DC...V	✓	✓	✓	✓		
LED	C12-A2xX/DC...V	✓	✓	✓	✓		
LED & Polarity & Free wheeling diode	C12-A2xFX/DC...V	✓	✓	✓	✓		
AC / DC bridge recifier & LED	C12-A2xBX/UC...V		✓	✓			

AC relays also available as 60 Hz. Other voltages on request. Please contact support@comatreleco.com.
 «...» List coil voltage to complete product references

Accessories

Socket	S12, S12-P, S12-PI
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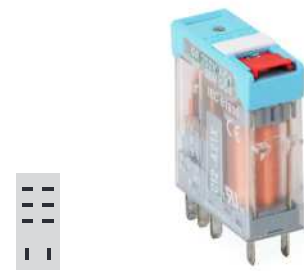


fig. 1. Wiring diagram

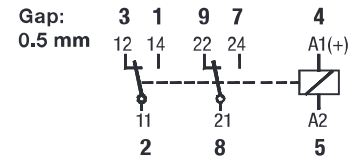


fig. 2. AC voltage endurance

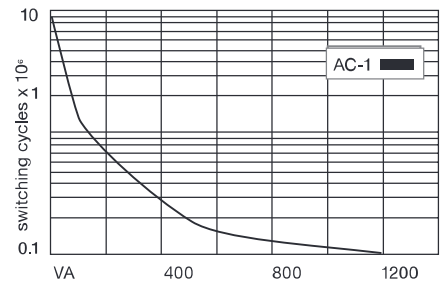


fig. 3. DC load limit curve

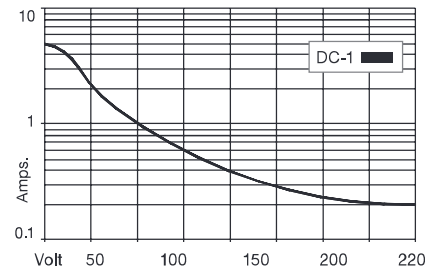
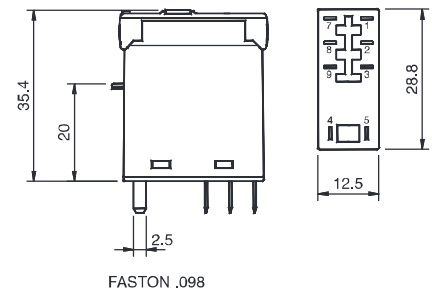


fig. 4. Dimension (mm)



Technical approvals, conformities

Standards IEC/EN 61810; IEC/EN 60947

Approvals CE ENE CCC cRU us

C12-A21 only

C12-G2x

2 pole | normally open contact | faston



Main circuit

Available contact materials	Ⓢ AgNi + 0.2 μ Au for C12-G21 Ⓢ AgNi + 5 μ Au for C12-G22
Recommended minimum contact load	10 mA / 10 V for C12-G21 5 mA / 5 V for C12-G22
Maximum contact load AC	5 A / 250 V AC-1
Maximum contact load DC	5 A / 30 V DC-1
Rated current	5 A
Inrush current	15 A, 20 ms
AC load	1200 VA
DC load	fig. 3.
Mechanical endurance (cycles)	≥ 10 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 100 000

Control circuit

Nominal voltage	see table product references
Operating voltage range	0.8 U _N ... 1.1 U _N
Pick-up voltage	≤ 0.8 U _N
Release voltage	≥ 0.1 U _N
Power consumption AC / DC	1.1 VA / 0.7 W

Coil table

V AC	Ω	mA	V DC	Ω	mA
12	82	71	12	224	54
24	290	45	24	742	32
48	1 206	23	48	3 400	13.5
115	7 290	9.5	110	19 923	5.5
230	28 874	4.7			

Insulation

Test voltage open contact	2 kV / 1 min
Test voltage contact / contact	3 kV / 1 min
Test voltage contact / coil	5 kV / 1 min
Pollution degree	3
Overvoltage category	III
Insulation resistance at 500 V	≥ 1 GΩ

General data

Ambient temperature storage (no ice)	-40 ... 80 °C
Ambient temperature operation	-40 ... 70 °C
Pick-up time / bounce time	10 ms / ≤ 1 ms
Release time / bounce time	5 ms / ≤ 3 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	21 g
Housing material	PA / PC

Product references

Description	Type (x refers to contact material)	12	24	48	110	115	230
AC 50 Hz	C12-G2x/AC...V	✓	✓	✓		✓	✓
LED	C12-G2xX/AC...V	✓	✓	✓		✓	✓
RC Suppressor	C12-G2xR/AC...V	✓	✓	✓		✓	✓
DC	C12-G2x/DC...V	✓	✓	✓	✓		
LED	C12-G2xX/DC...V	✓	✓	✓	✓		
LED & Polarity & Free wheeling diode	C12-G2xFX/DC...V	✓	✓	✓	✓		
AC / DC bridge recifier & LED	C12-G2xBX/UC...V		✓	✓			

AC relays also available as 60 Hz. Other voltages on request. Please contact support@comatreleco.com.
 «...» List coil voltage to complete product references

Accessories

Socket	S12, S12-P, S12-PI
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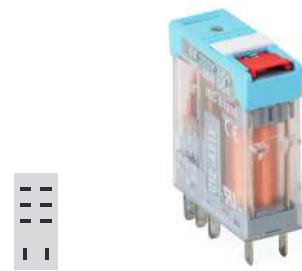


fig. 1. Wiring diagram

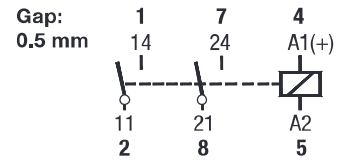


fig. 2. AC voltage endurance

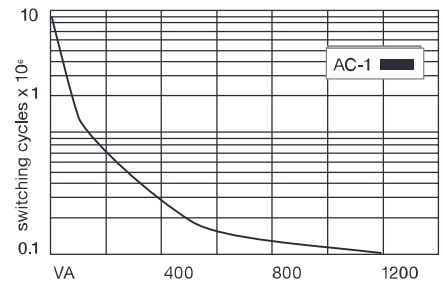


fig. 3. DC load limit curve

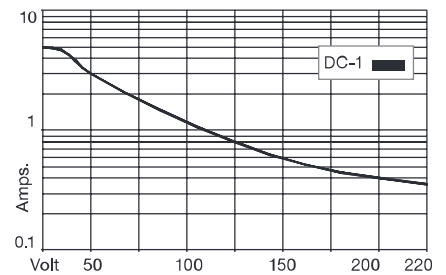
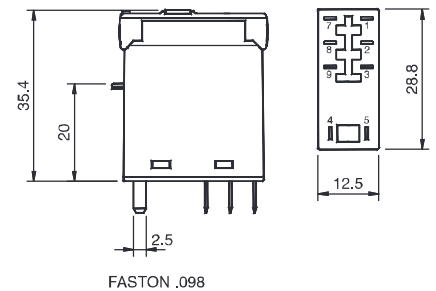


fig. 4. Dimension (mm)



Technical approvals, conformities

Standards IEC/EN 61810; IEC/EN 60947

