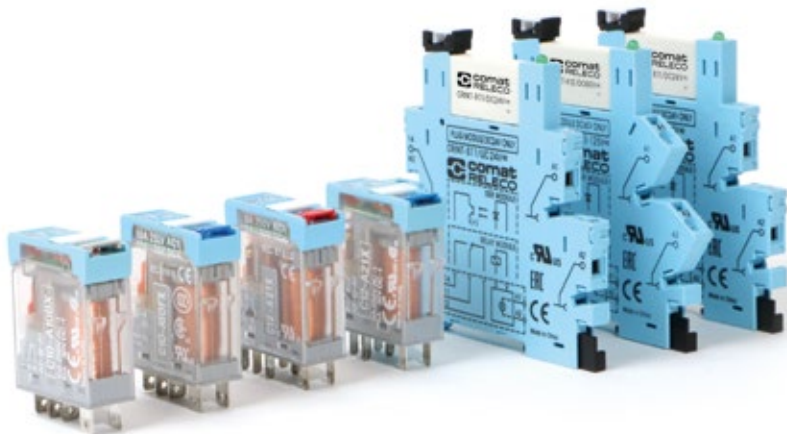


1.1 Interface Relays – IRC & CRINT



Application	Types	Pins	Contacts	AC ratings	DC ratings	Socket
IRC – C10 Series						
Interface standard relay	C10-A1x			10 A / 250 V	10 A / 30 V	S10
DC load switching	C10-G1x			10 A / 250 V	10 A / 30 V	S10
Low switching load	C10-T1xx			6 A / 250 V	6 A / 30 V	S10
Low switching load	C10-GTxx			6 A / 250 V	6 A / 30 V	S10
IRC – C12 Series						
Interface relay	C12-A2x			5 A / 250 V	5 A / 30 V	S12
Interface DC relay	C12-G2x			5 A / 250 V	5 A / 30 V	S12
CRINT Series						
High power contact AgSnO ₂	CRINT-C1x1			6 A / 250 V	6 A / 30 V	
Low power contact AgSnO ₂ + 3μ Au	CRINT-C1x2			6 A / 250 V	6 A / 30 V	
DC solid state switch	CRINT-C1x5				2 A / 24 V	
AC solid state switch	CRINT-C1x8			1 A / 240 V		

Type	C10-A1x/ ... V Standard relay, 1 change-over contact Contact Ag Sn O2 to high inrush			
Maximum contact load	10 A/250 V AC-1	0,5 A/110 V DC-1		
	10 A/30 V DC-1	0,2 A/220 V DC-1		
	13 A/250 V AC-1			
Recommended minimum contact load	10 mA/10 V Code 0,5			
	5 mA/5 V Code 8			

Contacts

Material	Standard	Code 0	AgNi
	Optional	Code 8	AgNi+ 3 μ Au
	Optional	Code 5	Ag Sn O2
Rated current	10 A		
Switch-on current max. (20 ms)	30 A (120 A for code 5)		
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	1,1 VA (AC)/0,7 W (DC)

Coil table

VAC	Ω	mA	VDC	Ω	mA
24	290	45	12	224	53
48	1200	23	24	742	32
115	7.300	9,5	48	3.500	13,7
230	28.800	4,7	110	19.900	5,5

Insulation

Coil resistance	see table; tolerance ± 10 %
Pick-up voltage	≤ 0,8 × U _N
Release voltage	≥ 0,1 × U _N
Nominal power	1,1 VA (AC)/0,7 W (DC)

Insulation	Volt rms, 1 min
Contact open	1000 V
Contact/coil	5 kV
Insulation resistance at 500 V	≥ 1 GΩ
Insulation, IEC 61810-1	4 kV/3

Specifications

Ambient temperature operation/storage	-40 (no ice)...70 °C / -40 ... 80 °C
Pick-up time/bounce time	10 ms/ ≤ 1 ms
Release time/bounce time	5 ms/ ≤ 3 ms
Mechanical life ops	AC: 10 Mill./DC: 20 Mill.
DC voltage endurance at rated load	≥ 100000 switching cycles
Switching frequency at rated load	≤ 1200/h
Protection class	IP40
Weight	21 g

Standard types

VAC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240)

LED**RC suppressor**

VDC 12, 24, 48, 110

LED**Polarity and free wheeling diode**

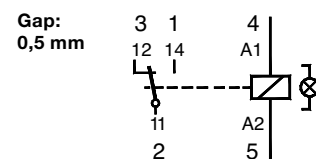
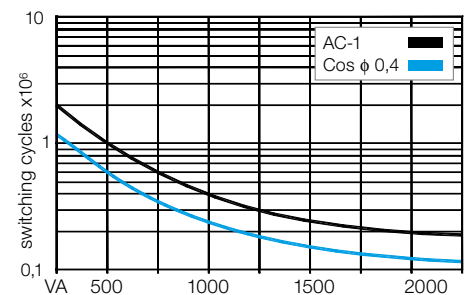
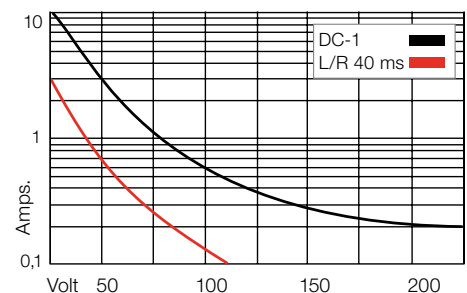
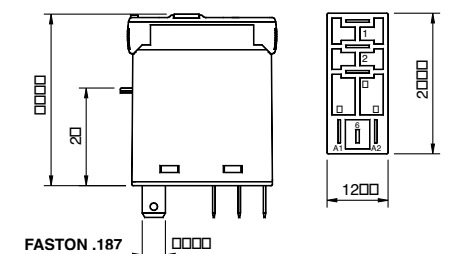
VAC/DC bridge rectifier 24 V, 48 V

C10-A10/AC...V	C10-A18/AC...V	C10-A15/AC...V
C10-A10X/AC...V	C10-A18X/AC...V	C10-A15X/AC...V
C10-A10R/AC...V	C10-A18R/AC...V	C10-A15R/AC...V
C10-A10/DC...V	C10-A18/DC...V	C10-A15/DC...V
C10-A10X/DC...V	C10-A18X/DC...V	C10-A15X/DC...V
C10-A10FX/DC...V	C10-A18FX/DC...V	C10-A15FX/DC...V
C10-A10BX/UC...V	C10-A18BX/UC...V	C10-A15BX/UC...V

"..." Enter the voltage for full type designation

Accessories

Socket:

S10, S10-M, S10-P**Connection diagram****Fig. 1 AC voltage endurance****Fig. 2 DC load limit curve****Dimensions [mm]****Technical approvals, conformities**

IEC 61810; EN 60947



Type	C10-G1X/ ... V Standard relay 1 open contact for high DC load Contact Ag Sn O2 to high inrush			
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	10 mA/10 V	Code 0,5		
	5 mA/5 V	Code 8		

Contacts			
Material	Standard	Code 0	AgNi
	Optional	Code 8	AgNi +3 μ Au
	Optional	Code 5	Ag SnO2
Rated current	10 A		
Switch-on current max. (20 ms)	30 A (120 A for code 5)		
Switching voltage max.	250 V		
AC load (Fig 1)	2,5 kVA		
DC load	see Fig. 2		

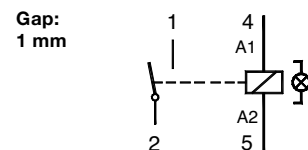
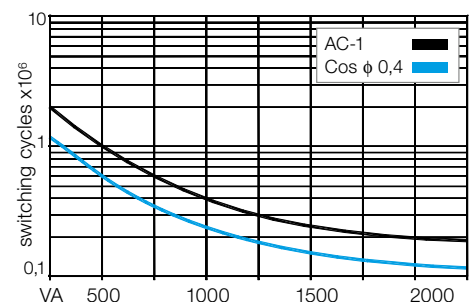
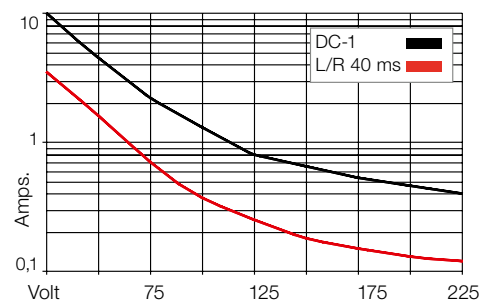
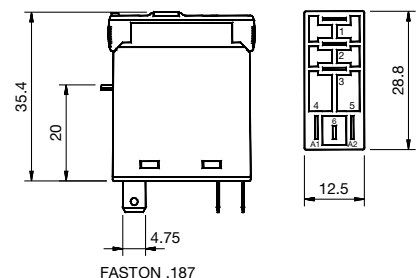
Coil			
Coil resistance	see table; tolerance ± 10 %		
Pick-up voltage	≤ 0,8 x U _N		
Release voltage	≥ 0,1 x U _N		
Nominal power	1,1 VA (AC)/0,7 W (DC)		

Coil table

VAC	Ω	mA	VDC	Ω	mA
24	290	45	12	224	53
48	1200	23	24	742	32
115	7.300	9,5	48	3.500	13,7
230	28.800	4,7	110	19.900	5,5

Insulation	Volt rms, 1 min
Contact open	2000 V
Contact/coil	5 kV
Insulation resistance at 500 V	≥ 1 GΩ
Insulation, IEC 61810-1	4 kV/3

Specifications	
Ambient temperature operation/storage	-40 (no ice)...70 °C / -40 ... 80 °C
Pick-up time/bounce time	10 ms/≤ 1 ms
Release time/bounce time	8 ms
Mechanical life ops	AC: 10 Mill./DC: 20 Mill.
DC voltage endurance at rated load	≥ 100000 switching cycles
Switching frequency at rated load	≤ 1200/h
Protection class	IP40
Weight	21 g

Standard types**VAC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240)****LED****RC suppressor****VDC 12, 24, 48, 110****LED****Polarity and free wheeling diode****AC/DC bridge rectifier 24 V, 48 V****C10-G10/AC ... V****C10-G10X/AC ... V****C10-G10R/AC...V****C10-G10/DC ... V****C10-G10X/DC ... V****C10-G10FX/DC ... V****C10-G10BX/DC ... V****C10-G15/AC ... V****C10-G15X/AC ... V****C10-G15R/AC...V****C10-G15/DC ... V****C10-G15X/DC ... V****C10-G15FX/DC... V****C10-G15BX/UC... V****Connection diagram****Fig. 1 AC voltage endurance****Fig. 2 DC load limit curve****Dimensions [mm]****Technical approvals, conformities**

IEC 61810; EN 60947

"..." Enter the voltage for full type designation

Accessories

Socket:

S10, S10-M, S10-P

Type	C10-T1x/ ... V Standard relay for low power application			
Maximum contact load	6 A/250 V	AC-1	0,5 A/110 V	DC-1
	6 A/30 V	DC-1	0,2 A/220 V	DC-1
Recommended minimum contact load	5 mA/5 V	Code 1		
	1 mA/5 V	Code 3		

Contacts

Material	Standard	Code 1	AgNi + 0,2 μ Au
	Optional	Code 3	AgNi + 3 μ Au
Rated current			6 A
Switch-on current max. (20 ms)			15 A
Switching voltage max			250 V
AC load (Fig 1)			1,5 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	1,1 VA (AC)/0,7 W (DC)

Coil table

VAC	Ω	mA	VDC	Ω	mA
24	290	45	12	224	53
48	1200	23	24	742	32
115	7.300	9,5	48	3.500	13,7
230	28.800	4,7	110	19.900	5,5

Insulation

	Volt rms, 1 min
Contact open	1000 V
Contact/coil	5 kV
Insulation resistance at 500 V	≥ 1 GΩ
Insulation, IEC 61810-1	4 kV/3

Specifications

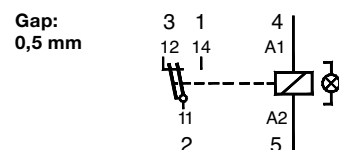
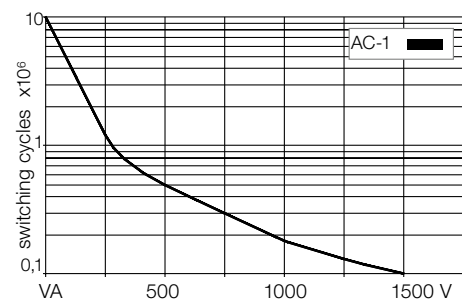
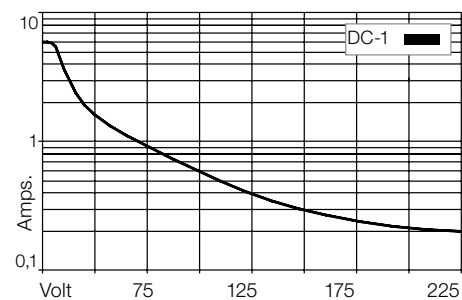
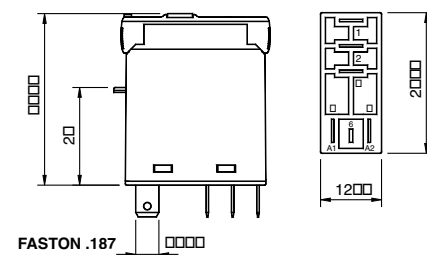
Ambient temperature operation/storage	-40 (no ice)...70 °C / -40 ... 80 °C
Pick-up time/bounce time	10 ms/≤ 1 ms
Release time/bounce time	5 ms/≤ 3 ms
Mechanical life ops	AC: 10 Mill./DC: 20 Mill.
DC voltage endurance at rated load	≥ 100000 switching cycles
Switching frequency at rated load	1200/h
Protection class	IP40
Weight	21 g

Standard types**VAC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240)****LED****RC suppresor****VDC12, 24, 48, 110****LED****Polarity and free wheeling diode****AC/DC bridge rectifier 24 V, 48 V**
C10-T11/AC ... V
C10-T11X/AC ... V
C10-T11R/AC...V
C10-T11/DC ... V
C10-T11X/DC ... V
C10-T11FX/DC ... V
C10-T11BX/UC ... V
C10-T13/AC ... V
C10-T13X/AC ... V
C10-T13R/AC...V
C10-T13/DC ... V
C10-T13X/DC ... V
C10-T13FX/DC ... V
C10-T13BX/UC ... V

"... " Enter the voltage for full type designation

Accessories

Socket:	S10, S10-P
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**Connection diagram****Fig. 1 AC voltage endurance****Fig. 2 DC load limit curve****Dimensions [mm]****Technical approvals, conformities**

IEC 61810; EN 60947



Type	C10-GT1x/ ... V Standard relay for low power application 1 open contact			
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Maximum contact load	6 A/250 V	AC-1	0,8 A/110 V	DC-1
	6 A/30 V	DC-1	0,4 A/220 V	DC-1
Recommended minimum contact load	5 mA/5 V	Code 3		

Contacts

Material	Standard	Code 3	AgNi + 3 μ Au
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Rated current	6 A
Switch-on current max. (20 ms)	15 A
Switching voltage max	250 V
AC load (Fig 1)	1,5 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	1,1 VA (AC)/0,7 W (DC)

Coil table

VAC	Ω	mA	VDC	Ω	mA
24	290	45	12	224	53
48	1200	23	24	742	32
115	7.300	9,5	48	3.500	13,7
230	28.800	4,7	110	19.900	5,5

Insulation	Volt rms, 1 min
Contact open	2000 V
Contact/coil	5 kV
Insulation resistance at 500 V	≥ 1 GΩ
Insulation, IEC 61810-1	4 kV/3

Specifications

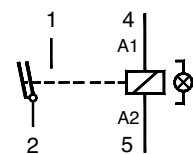
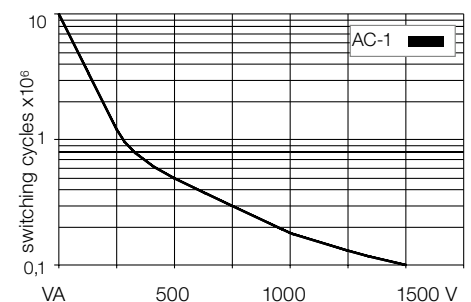
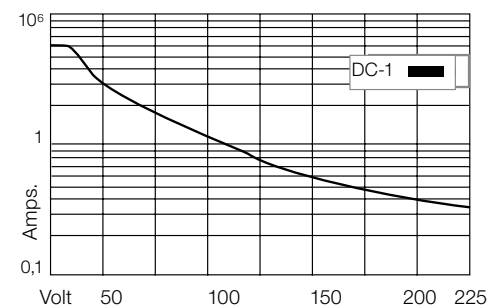
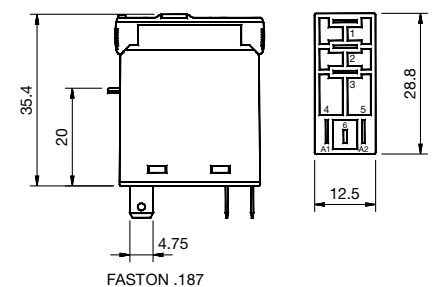
Ambient temperature operation/storage	-40 (no ice)...70 °C / -40 ... 80 °C
Pick-up time/bounce time	10 ms/≤ 1 ms
Release time/bounce time	5 ms/≤ 3 ms
Mechanical life ops	AC: 10 Mill./DC: 20 Mill.
DC voltage endurance at rated load	≥ 100000 switching cycles
Switching frequency at rated load	≤ 1200/h
Protection class	IP40
Weight	21 g

Standard types**VAC 50 Hz/60 Hz: 24, 48, 115, (120), 230, (240)****LED****RC suppresor****VDC 12, 24, 48, 110****LED****Polarity and free wheeling diode****AC/DC bridge rectifier 24 V, 48 V**
C10-GT13/AC ... V
C10-GT13X/AC ... V
C10-GT13R/AC ... V
C10-GT13/DC ... V
C10-GT13X/DC ... V
C10-GT13FX/DC ... V
C10-GT13BX/UC ... V

"... " Enter the voltage for full type designation

Accessories

Socket:	S10, S10-M, S10-P
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Connection diagramGap:
1 mm**Fig. 1 AC voltage endurance****Fig. 2 DC load limit curve****Dimensions [mm]****Technical approvals, conformities**

IEC 61810; EN 60947

Type	C12-A2x/ ... V Standard relay 2 change-over contact			
Maximum contact load	5 A/250 V	AC-1	0,5 A/110 V	DC-1
	5 A/30 V	DC-1	0,2 A/220 V	DC-1
Recommended minimum contact load	10 mA/10 V	Code 1		
	5 mA/5 V	Code 2		

Contacts

Material	Standard	Code 1	AgNi + 0,2 µ Au
	Optional	Code 2	AgNi + 3 µ Au
Rated current			5 A
Switch-on current max. (20 ms)			15 A
Switching voltage max.			250 V
AC load (Fig 1)			1,2 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	1,1 VA (AC)/0,7 W (DC)

Coil table

VAC	Ω	mA	VDC	Ω	mA
24	290	45	12	224	53
48	1200	23	24	742	32
115	7.300	9,5	48	3.500	13,7
230	28.800	4,7	110	19.900	5,5

Insulation

	Volt rms, 1 min
Contact open	1000 V
Contact/contact	3000 V
Contact/coil	5 kV
Insulation resistance at 500 V	≥ 1 GΩ
Insulation, IEC 61810-1	4 kV/3

Specifications

Ambient temperature operation/storage	-40 (no ice)...60 °C / -40 ... 80 °C
Pick-up time/bounce time	10 ms/≤ 1 ms
Release time/bounce time	5 ms/≤ 3 ms
Mechanical life ops	AC: 10 Mill./DC: 20 Mill.
DC voltage endurance at rated load	≥ 100000 switching cycles
Switching frequency at rated load	≤ 1200/h
Protection class	IP40
Weight	21 g

Standard types

VAC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240)

LED

RC suppresor

VDC 12, 24, 48, 110

LED

Polarity and free wheeling diode

AC/DC bridge rectifier 24 V, 48 V

C12-A21/AC ... V

C12-A21X/AC ... V

C12-A21R/AC ... V

C12-A21/DC ... V

C12-A21X/DC ... V

C12-A21FX/DC ... V

C12-A21BX/UC ... V

C12-A22/AC ... V

C12-A22X/AC ... V

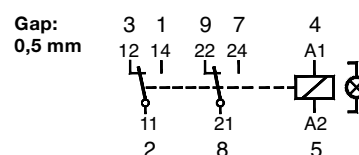
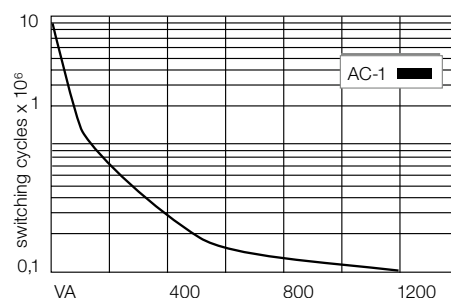
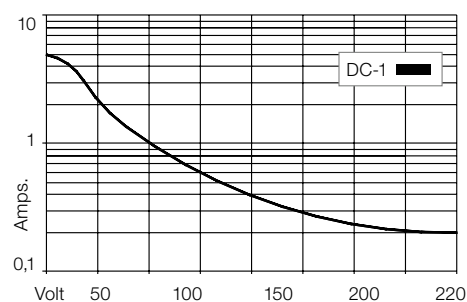
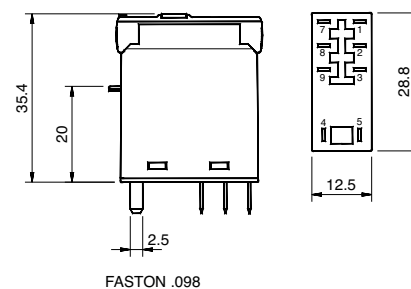
C12-A22R/AC ... V

C12-A22/DC ... V

C12-A22X/DC ... V

C12-A22FX/DC ... V

C12-A22BX/UC ... V

**Connection diagram****Fig. 1 AC voltage endurance****Fig. 2 DC load limit curve****Dimensions [mm]****Technical approvals, conformities**

IEC 61810; EN 60947

"..." Enter the voltage for full type designation

AccessoriesSocket: **S12, S12-P**

Type	C12-G2x/ ... V Standard relay 2 open contacts			
Maximum contact load	5 A/250 V	AC-1	0,8 A/110 V	DC-1
	5 A/30 V	DC-1	0,4 A/220 V	DC-1
Recommended minimum contact load	10 mA/10 V	Code 1		
	5 mA/5 V	Code 2		

Contacts

Material	Standard	Code 1	AgNi + 0,2 µ Au
	Optional	Code 2	AgNi + 3 µ Au
Rated current	5 A		
Switch-on current max. (20 ms)	15 A		
Switching voltage max.	250 V		
AC load (Fig 1)	1,2 kVA		
DC load	see Fig. 2		

Coil

Coil resistance	see table; tolerance ± 10 %
Pick-up voltage	≥ 0,8 x U _N
Release voltage	≥ 0,1 x U _N
Nominal power	1,1 VA (AC)/0,7 W (DC)

Coil table

VAC	Ω	mA	VDC	Ω	mA
24	290	45	12	224	53
48	1200	23	24	742	32
115	7.300	9,5	48	3.500	13,7
230	28.800	4,7	110	19.900	5,5

Insulation	Volt rms, 1 min
Contact open	2000 V
Contact/contact	3000 V
Contact/coil	5 kV
Insulation resistance at 500 V	≥ 1 GΩ
Insulation, IEC 61810-1	4 kV/3

Specifications

Ambient temperature operation/storage	-40 (no ice)...60 °C / -40 ... 80 °C
Pick-up time/bounce time	10 ms/≤ 1 ms
Release time/bounce time	5 ms/≤ 3 ms
Mechanical life ops	AC: 10 Mill./DC: 20 Mill.
DC voltage endurance at rated load	≥ 100000 switching cycles
Switching frequency at rated load	≤ 1200/h
Protection class	IP40
Weight	21 g

Standard types

VAC 50 Hz/60 Hz: 24, 48, 115, (120), 230, (240)

LED

RC suppresor

VDC 12, 24, 48, 110

LED

Polarity and free wheeling diode

AC/DC bridge rectifier 24 V, 48 V

C12-G21/AC ... V

C12-G21X/AC ... V

C12-G21R/AC ... V

C12-G21/DC ... V

C12G21X/DC ... V

C12-G21FX/DC ... V

C12-G21BX/UC ... V

C12-G22/AC ... V

C12-G22X/AC ... V

C12-G22R/AC ... V

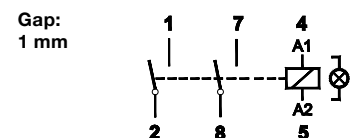
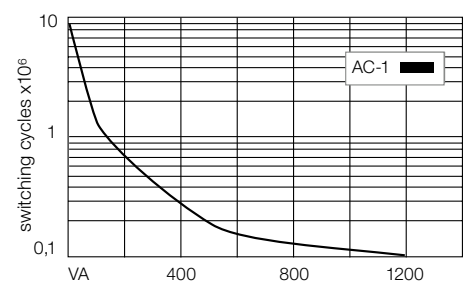
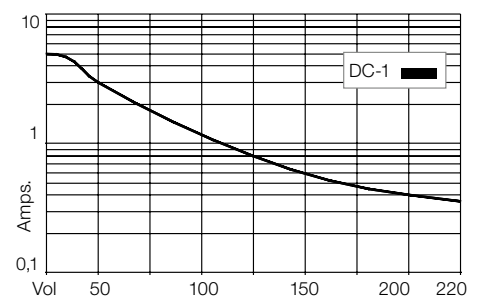
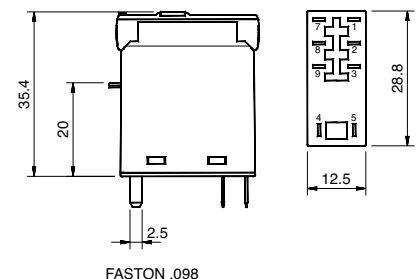
C12-G22/DC ... V

C12-G22X/DC ... V

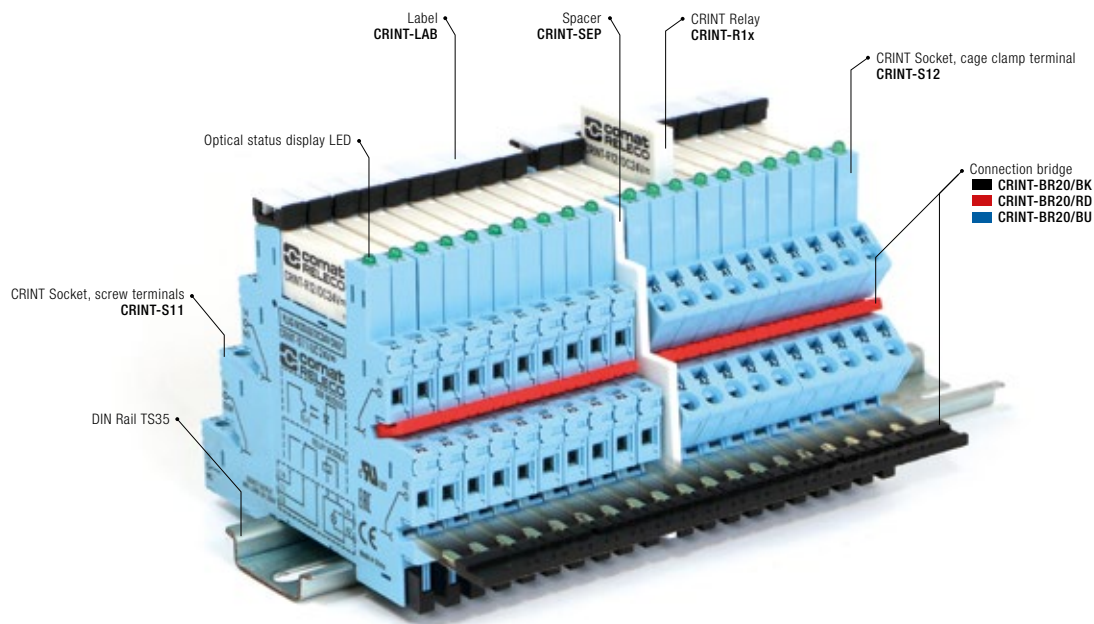
C12-G22FX/DC ... V

C12-G22BX/UC ... V

"... " Enter the voltage for full type designation

AccessoriesSocket: **S12, S12-P****Connection diagram****Fig. 1 AC voltage endurance****Fig. 2 DC load limit curve****Dimensions [mm]****Technical approvals, conformities**

IEC 61810; EN 60947



CRINT RELAY CODIFICATION AND ACCESSORIES

CRINT INTERFACE RELAY CONSISTS OF TWO COMPONENTS.

- RELAY
- SOCKET

CODIFICATION FOR COMPLETE RELAY MODULE RELAY AND SOCKET 6,2 MM

1		2	3	4	5	6	7	8
CRINT	-	C	1	1	1	R	/	UC 24V

- 1. Product family**
CRINT
- 2. Type**
C = Combined version (Socket and Relay)
- 3. Contact**
1 = One change-over contact
- 4. Connection type**
Screw terminal
Cage clamp terminal

- 5. Output**
1 = AgSnO₂
2 = AgSnO₂ + 3μ Au
5 = NO / Solid-state DC
8 = NO / Solid-state AC
- 6. Options**
- = Standard version
R = Railway version
- 7. Supply voltage**
UC = AC/DC
DC = Only for C1x5 and C1x8
- 8. Nominal voltage**
12V, 24V, 48V, 60V, 110-125V, 220-240V

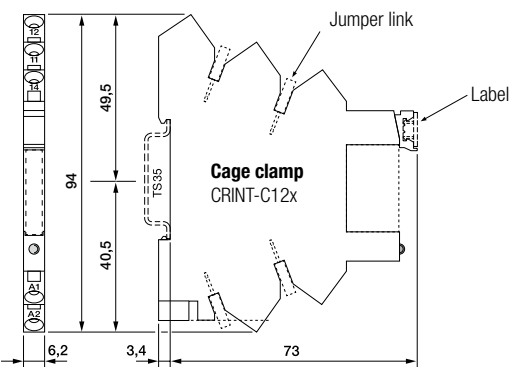
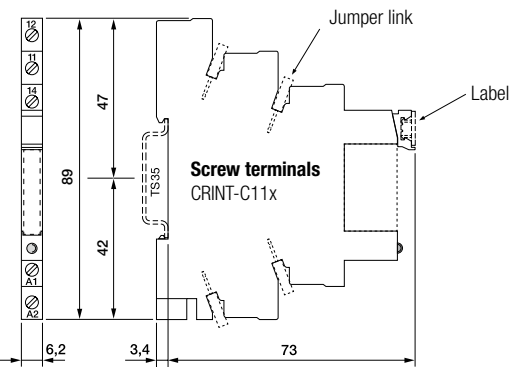
RELAY CODIFICATION

1		2	3	4	5
CRINT	-	R	11	DC	12V

- 1. Product family**
CRINT
- 2. Type**
R = Relay
- 3. Contact**
11 = AgSnO₂
12 = AgSnO₂ + 3μ Au
15 = NO / Solid-state DC
18 = NO / Solid-state AC
- 4. Supply voltage**
DC
- 5. Nominal voltage**
12V, 24V, 48V, 60V*

*60V Relay used for all sockets with a nominal voltage higher or equal 60V

Dimensions [mm]



CRINT 1x1 series

Interface module with mechanical CO output contact

DIN Rail mounting according to DIN 43 880

Types: CRINT-C111, CRINT-C121 / ...V

For PLC's and process control. High power contact AgSnO_2 .
With screw terminals (CRINT-S11) or cage clamp terminals (CRINT-S12).
Recommended max. load 250 V 6 A resistive.

Max. contact load	6 A, 250 V AC-1	6 A, 30 V DC-1
Contact		
Type	1 CO	
Material	AgSnO ₂	
Switching current _{TH}	6 A 250 V AC	
Recommended minimal load	100 mA / 12 V	
Switching power DC-1 30 V	180 W	
Switching power AC-1 230 V	1500 VA	
Switching power AC-15 230 V	300 VA	
Peak inrush current	15 A/2.5 ms	
Coil		
Operation voltage AC 50/60 Hz / DC	0.8 ... 1.25 U _N	
Nominal power DC/AC	408 / 900 mW	
Insulation		
Test voltage I / O	6 kVrms 1 minute	
Pollution degree	3	
Over voltage category	III	
Open contact	1000 Vrms dielectric strength 1 min	
Standard	EN61810-5	
General Specifications		
Ambient temperature: operation / storage	-40 ... +70 °C / -40 ... +85 °C	
Typical response time @ V _n	7 ms	
Typical release time @ V _n	15 ms	
Switching cycles: mech./elec.	10 x 10 ⁶ / 3 x 10 ⁴	
Cond. cross section screw terminal	2.5 mm ²	
Cond. cross section spring cage	0.75 ... 2.5 mm ²	
Ingress protection	IP 20	
Mounting position	any	
Housing material	Polyamide PA6	

Order information

Screw terminal: **CRINT-C111/UC...V**

Cage clamp terminal: **CRINT-C121/UC...V**

„ ... “ enter the voltage for full type designation

UC12V
UC24V
UC48V
UC60V
UC110-125V
UC220-240V

Accessories

Jumper link (5 pcs):
blue: **CRINT-BR20-BU/5**
red: **CRINT-BR20-RD/5**
black: **CRINT-BR20-BK/5**

Label plate (64 pcs): **CRINT-LAB/64**
Spacer (5 pcs): **CRINT-SEP/5**

Replacement relays:
CRINT-R11/DC...V
„ ... “ enter the voltage for full type designation

DC12V
DC24V
DC48V
DC60V*

*60V Relay used for all sockets with a nominal voltage higher or equal 60V



Connection diagram

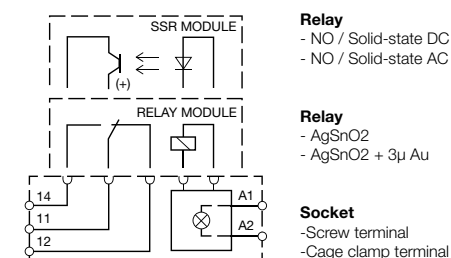


Fig.1 AC voltage endurance

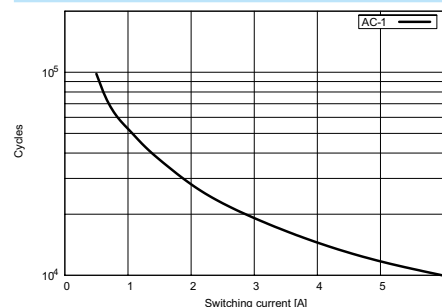
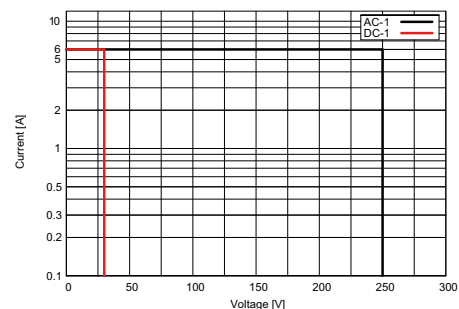


Fig. 2 DC load limit curve



Dimensions p.72

Technical approvals, conformities



CRINT 1x2 series

Interface module with mechanical CO output contact

DIN Rail mounting according to DIN 43 880

Types: CRINT-C112, CRINT-C122 / ...V

Specially for PLC, process controls with DC currents. Contact $\text{AgSnO}_2 + 3\mu\text{Au}$. For low power application. With screw terminals (CRINT-S11) or cage clamp terminals (CRINT-S12). No external freewheeling circuit required.

Max. contact load	6 A, 250 V AC-1	6 A, 30 V DC-1
Contact		
Type	1 CO	
Material	AgSnO ₂ + 3μ Au	
Switching current _{TH}	6 A 250 V AC	
Recommended minimal load	10 mA / 6 V	
Switching power DC-1 30 V	180 W	
Switching power AC-1 230 V	1500 VA	
Switching power AC-15 230 V	300 VA	
Peak inrush current	15 A/2.5 ms	
Coil		
Operation voltage AC 50/60 Hz / DC	0.8 ... 1.25 U _N	
Nominal power DC/AC	408 / 900 mW	
Insulation		
Test voltage I / O	6 kVrms 1 minute	
Pollution degree	3	
Over voltage category	III	
Open contact	1000 Vrms dielectric strength 1 min	
Standard	EN61810-5	
General Specifications		
Ambient temperature: operation / storage	-40 ... +70 °C / -40 ... +85 °C	
Typical response time @ V _n	7 ms	
Typical release time @ V _n	15 ms	
Switching cycles: mech./elec.	10 x 10 ⁶ / 3 x 10 ⁴	
Cond. cross section screw terminal	2.5 mm ²	
Cond. cross section spring cage	0.75 ... 2.5 mm ²	
Ingress protection	IP 20	
Mounting position	any	
Housing material	Polyamide PA6	

Order information

Screw terminal: **CRINT-C112/UC...V**

UC12V
UC24V
UC48V
UC60V
UC110-125V
UC220-240V

Cage clamp terminal: **CRINT-C122/UC...V**

„ ... “ enter the voltage for full type designation

Accessories

Jumper link (5 pcs):

blue: **CRINT-BR20-BU/5**
red: **CRINT-BR20-RD/5**
black: **CRINT-BR20-BK/5**

Label plate (64 pcs):

CRINT-LAB/64

Spacer (5 pcs):

CRINT-SEP/5

Replacement relays:

CRINT-R12/DC...V

„ ... “ enter the voltage for full type designation

DC12V
DC24V
DC48V
DC60V*

*60V Relay used for all sockets with a nominal voltage higher or equal 60V



Connection diagram

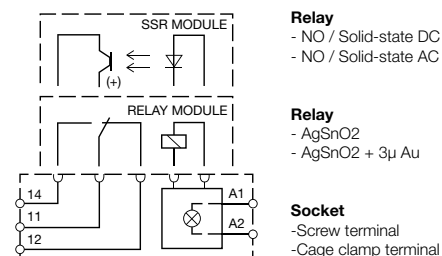


Fig.1 AC voltage endurance

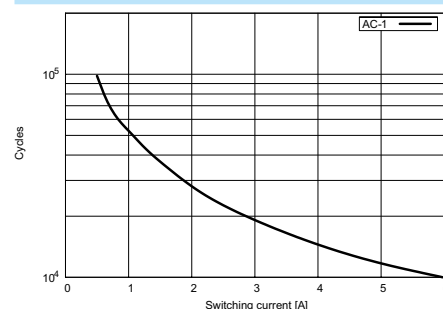
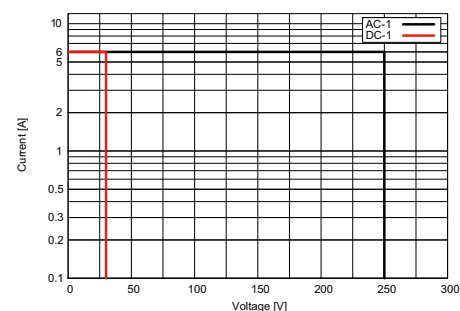


Fig. 2 DC load limit curve



Dimensions p.72

Technical approvals, conformities

CRINT 1x5 series

Solid state interface module with mechanical NO output contact

DIN Rail mounting according to DIN 43 880

Types: CRINT-C115, CRINT-C125 / ...V

For PLC's and process control. DC solid state switch, type NO.

For fast and high frequent switching. With screw terminals (CRINT-S11) or cage clamp terminals (CRINT-S12).

Max. contact load 2 A, 24 V DC-1

Contact

Type	1 NO (Solid state DC)
Material	MOSFET
Switching current I_{TH}	2 A 24 V DC
Recommended minimal load	20 mA / 5 V
Peak inrush current	48 A/10 ms

Coil

Operation voltage AC 50/60 Hz / DC	0.8 ... 1.25 U_N
Nominal power DC/AC	160 / — mW

Insulation

Test voltage I / O	2.5 kVrms 1 minute
Pollution degree	3
Over voltage category	III
Open contact	1000 Vrms dielectric strength 1 min
Standard	EN61810-5

General Specifications

Ambient temperature: operation / storage	-30 ... +70 °C / -40 ... +85 °C
Typical response time @ V_N	1 ms
Typical release time @ V_N	1 ms
Cond. cross section screw terminal	2.5 mm ²
Cond. cross section spring cage	0.75 ... 2.5 mm ²
Ingress protection	IP 20
Mounting position	any
Housing material	Polyamide PA6

Order information

Screw terminal: **CRINT-C115/UC...V**

Cage clamp terminal: **CRINT-C125/UC...V**

„ ...“ enter the voltage for full type designation

UC12V
UC24V
UC48V
UC60V
UC110-125V
UC220-240V

Accessories

Jumper link (5 pcs):	blue: CRINT-BR20-BU/5
	red: CRINT-BR20-RD/5
	black: CRINT-BR20-BK/5

Label plate (64 pcs):	CRINT-LAB/64
Spacer (5 pcs):	CRINT-SEP/5

Replacement relays:
CRINT-R15/DC...V

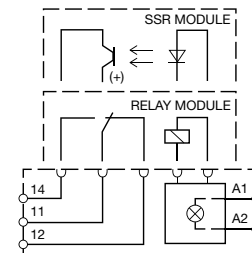
„ ...“ enter the voltage for full type designation

DC12V
DC24V
DC48V
DC60V*

*60V Relay used for all sockets with a nominal voltage higher or equal 60V



Connection diagram

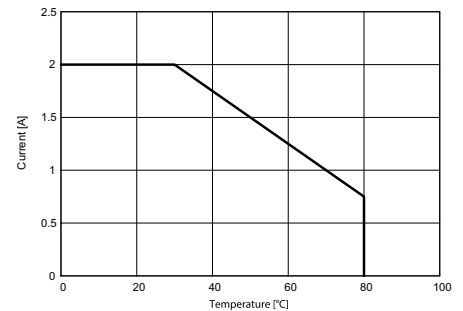


Relay
- NO / Solid-state DC
- NO / Solid-state AC

Relay
- AgSnO₂
- AgSnO₂ + 3μ Au

Socket
- Screw terminal
- Cage clamp terminal

Output derating curve



Dimensions p.72

Technical approvals, conformities

CRINT 1x8 series

Solid state interface module with mechanical NO output contact

DIN Rail mounting according to DIN 43 880

Types: CRINT-C118, CRINT-C128 / ...V

For PLC's and process control.

AC output interface zero synchronous switching NO for resistive or similar load. (No transformer rec.) With screw terminals (CRINT-S11) or cage clamp terminals (CRINT-S12).

Max. contact load **1 A, 240 V AC-1**

Contact

Type	1 NO (Solid state AC)
Material	TRIAC
Switching current _{TH}	1 A 240 V AC
Recommended minimal load	22 mA / 12 V
Peak inrush current	80 A/10 ms

Coil

Operation voltage AC 50/60 Hz / DC	0.8 ... 1.25 U _N
Nominal power DC/AC	150 / — mW

Insulation

Test voltage I / O	2.5 kVrms 1 minute
Pollution degree	3
Over voltage category	III
Open contact	1000 Vrms dielectric strength 1 min
Standard	EN61810-5

General Specifications

Ambient temperature: operation / storage	-30 ... +70 °C / -40 ... +85 °C
Typical response time @ V _n	1 ms
Typical release time @ V _n	1 ms
Cond. cross section screw terminal	2.5 mm ²
Cond. cross section spring cage	0.75 ... 2.5 mm ²
Ingress protection	IP 20
Mounting position	any
Housing material	Polyamide PA6

Order information

Screw terminal: **CRINT-C118/UC...V**

Cage clamp terminal: **CRINT-C128/UC...V**

„ ... “ enter the voltage for full type designation

UC12V
UC24V
UC48V
UC60V
UC110-125V
UC220-240V

Accessories

Jumper link (5 pcs):
blue: **CRINT-BR20-BU/5**
red: **CRINT-BR20-RD/5**
black: **CRINT-BR20-BK/5**

Label plate (64 pcs): **CRINT-LAB/64**
Spacer (5 pcs): **CRINT-SEP/5**

Replacement relays:
CRINT-R18/DC...V

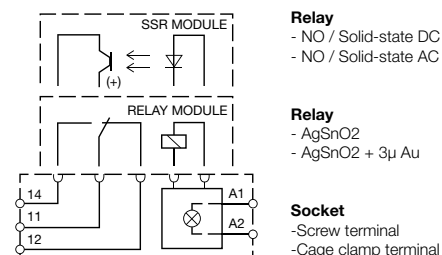
„ ... “ enter the voltage for full type designation

DC12V
DC24V
DC60V*

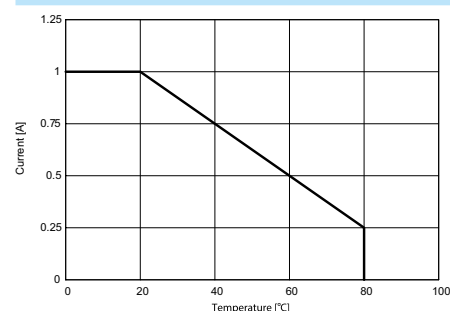
*60V Relay used for all sockets with a nominal voltage higher or equal 60V



Connection diagram



Output derating curve



Dimensions p.72

Technical approvals, conformities



1

Notes