IRC series
C10-A1x
5-pin, Interface relays, 1-pole, plug-in, faston

Type	**C10-A1x/ ... V** Standard relay, 1 change-over contact Contact Ag Sn O2 to high inrush
Maximum contact load	**10 A/250 V AC1** **0,5 A/110 V DC1** **10 A/30 V DC1** **0,2 A/220 V DC1** **13A /250V AC1**
Recommended minimum contact load	**10 mA/10 V**

Contacts

Material	Standard	Code 0	AgNi
	Optional	Code 8	AgNi+ 10 µ Au
	Optional	Code 5	Ag Sn O2
Rated current			10 A
Switch-on current max. (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 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	1000 V
Contact/coil	5 kV
Insulation resistance at 500 V	≥1 GΩ
Insulation, IEC 61810-5	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

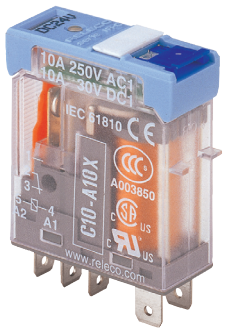
Standard types

AC 50 Hz/60 Hz: 24, 48, 115, (120), 230, (240)	**C10-A10/AC ... V**	**C10-A18/AC ... V**	**C10-A15/AC ... V**
LED	**C10-A10X/AC ... V**	**C10-A18X/AC ... V**	**C10-A15X/AC ... V**
RC suppresor	**C10-A10R/AC…V**	**C10-A18R/AC…V**	**C10-A15R/AC…V**
DC: 12, 24, 48, 110	**C10-A10/DC ... V**	**C10-A18/DC ... V**	**C10-A15/DC ... V**
LED	**C10-A10X/DC ... V**	**C10-A18X/DC ... V**	**C10-A15X/DC ...V**
Free wheeling diode	**C10-A10DX/D ...V**	**C10-A18DX/DC... V**	**C10-A15DX/DC...V**
Polarity and free wheeling diode	**C10-A10FX/DC...V**	**C10-A18FX/DC...V**	**C10-A15FX/DC ... V**
AC/DC bridge rectifier 24 V, 48 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-K**



Connection diagram

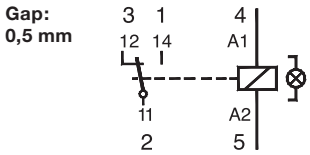


Fig. 1 AC voltage endurance

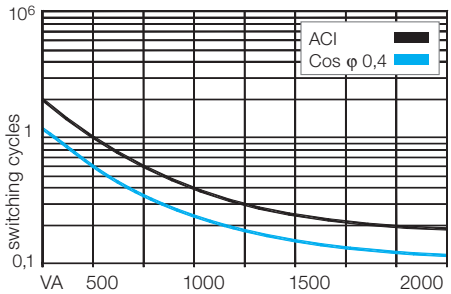
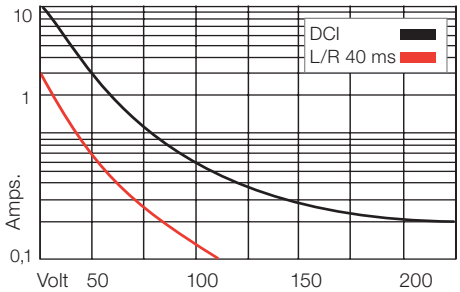
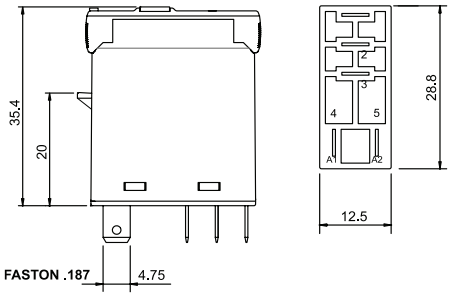


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities

IEC 61810; EN 60947

IRC series
C10-G1x
4-pin, Interface relays, 1-pole, normally open plug-in, faston

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 AC1** **0,8 A/110 V DC1** **10 A/30 V DC1** **0,4 A/220 V DC1**
Recommended minimum contact load	**10 mA/10 V**

Contacts

Material	Standard	Code 0	AgNi
	Optional	Code 8	AgNi +10 µ Au
	Optional	Code 5	Ag SnO2
Rated current			10 A
Switch-on current max. (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 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 61810-5	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

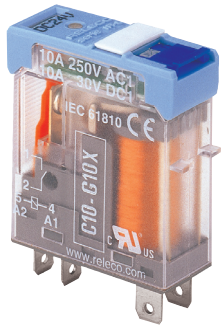
Standard types

AC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240)	**C10-G10/AC ... V**	**C10-G15/AC ... V**
LED	**C10-G10X/AC ... V**	**C10-G15X/AC ... V**
RC suppresor	**C10-G10R/AC...V**	**C10-G15R/AC...V**
DC: 12, 24, 48, 110	**C10-G10/DC ... V**	**C10-G15/DC ... V**
LED	**C10-G10X/DC ... V**	**C10-G15X/DC ... V**
Free wheeling diode	**C10-G10DX/DC ... V**	**C10-G15DX/DC... V**
Polarity and free wheeling diode	**C10-G10FX/DC ... V**	**C10-G15FX/DC... V**
AC/DC bridge rectifier 24 V, 48 V	**C10-G10BX/DC ... V**	**C10-G15BX/UC... V**

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

Accessories

Socket:	**S10, S10-M, S10-K**



Connection diagram

Gap: 1 mm

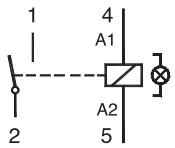


Fig. 1 AC voltage endurance

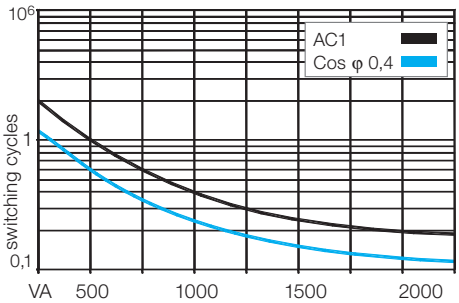
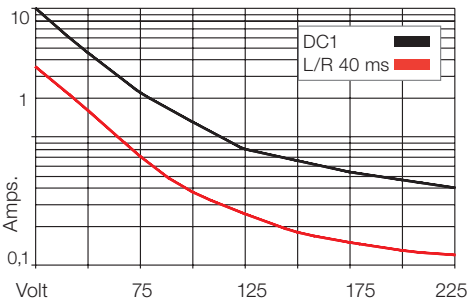
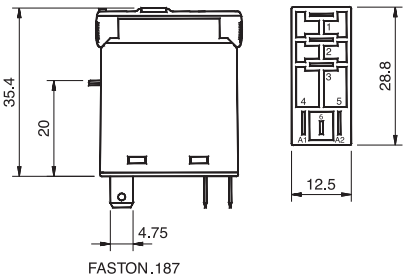


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities

IEC 61810; EN 60947

IRC series
C10-T1x
5-pin, Interface relays, 1-pole, twin contact, plug-in faston

Type	**C10-T1x/ ... V** Standard relay for low power application
Maximum contact load	**6 A/250 V AC1 0,5 A/110 V DC1** **6 A/30 V DC1 0,2 A/220 V DC1**
Recommended minimum contact load	**1 mA/5 V**

Contacts

Material	Standard	Code 3	AgNi + 3 µ Au
	Optional	Code 2	AgNi + 10 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 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	1000 V
Contact/coil	5 kV
Insulation resistance at 500 V	≥1 GΩ
Insulation, IEC 61810-5	4 kV/3

Specifications

Ambient temperature operation/storage	-40 (no ice)…70 ºC /-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.
AC voltage endurance at rated load	≥100000 switching cycles
Switching frequency at rated load	1200/h
Protection class	IP40
Weight	21 g

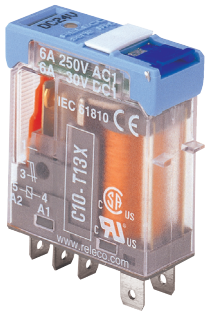
Standard types

AC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240)	**C10-T13/AC ... V**	**C10-T12/AC ... V**
LED	**C10-T13X/AC ... V**	**C10-T12X/AC ... V**
RC suppresor	**C10-T13R/AC...V**	**C10-T12R/AC...V**
DC: 12, 24, 48, 110	**C10-T13/DC ... V**	**C10-T12/DC ... V**
LED	**C10-T13X/DC ... V**	**C10-T12X/DC ... V**
Polarity and free wheeling diode	**C10-T13FX/DC ... V**	**C10-T12FX/DC ... V**
AC/DC bridge rectifier 24 V, 48 V, 60 V	**C10-T13BX/UC ... V**	**C10-T12BX/UC ... V**

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

Accessories

Socket:	**S10, S10-M, S10-K, S10-P**



Connection diagram

Gap: 0,5 mm

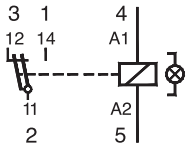


Fig. 1 AC voltage endurance

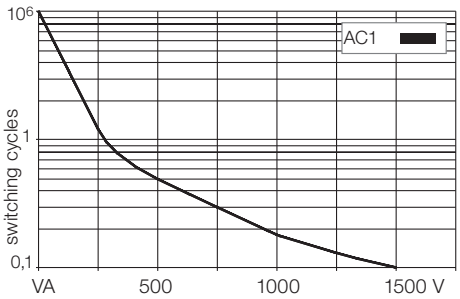
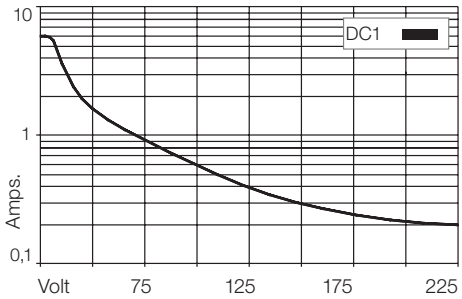
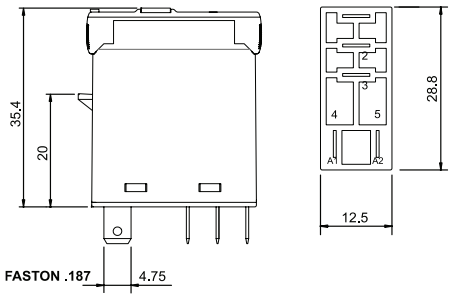


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities

IEC 61810; EN 60947

IRC series
C10-GT1x
4-pin, Interface relays, 1-pole, twin open contact, plug-in faston

Type	**C10-GT1x/ ... V** Standard relay for low power application 1 open contact
Maximum contact load	**6 A/250 V AC1 0,8 A/110 V DC1** **6 A/30 V DC1 0,4 A/220 V DC1**
Recommended minimum contact load	**1 mA/5 V**

Contacts

Material	Standard	Code 3	AgNi + 3 µ
	Optional	Code 2	AgNi + 10 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 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	≥3 GΩ
Insulation, IEC 61810-5	4 kV/3

Specifications

Ambient temperature operation/storage	-40 (no ice)…70 ºC /-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.
AC voltage endurance at rated load	≥100000 switching cycles
Switching frequency at rated load	≤ 1200/h
Protection class	IP40
Weight	21 g

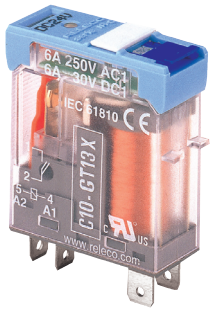
Standard types

AC 50 Hz/60 Hz: 24, 48, 115, (120), 230, (240)	**C10-GT13/AC ... V**	**C10-GT12/AC ... V**
LED	**C10-GT13X/AC ... V**	**C10-GT12X/AC ... V**
RC suppresor	**C10-GT13R/AC ... V**	**C10-GT12R/AC ...V**
DC: 12, 24, 48, 110	**C10-GT13/DC ... V**	**C10-GT12/DC ... V**
LED	**C10-GT13X/DC ... V**	**C10-GT12X/DC ... V**
Polarity and free wheeling diode	**C10-GT13FX/DC ... V**	**C10-GT12FX/DC ... V**
AC/DC bridge rectifier 24 V, 48 V	**C10-GT13BX/UC ... V**	**C10-GT12BX/UC ... V**

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

Accessories

Socket:	**S10, S10-M, S10-K, S10-P**



Connection diagram

Gap: 1 mm

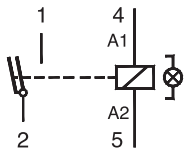


Fig. 1 AC voltage endurance

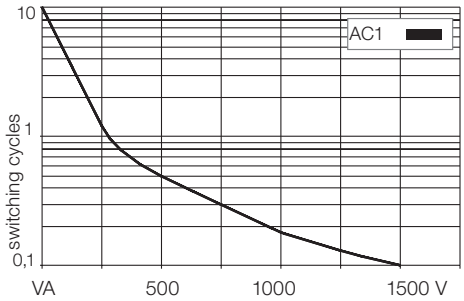
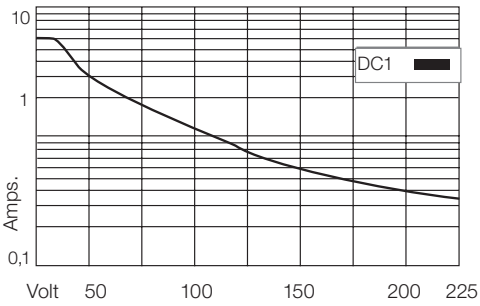
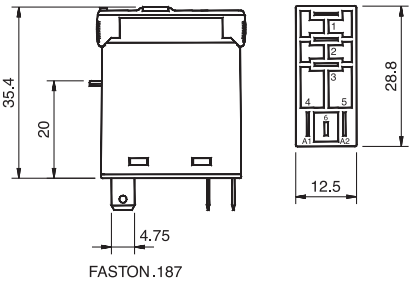


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities

IEC 61810; EN 60947