

Main circuit

Available contact materials	⚡ AgNi for C5-A30 ⚡ AgSnO ₂ for C5-A35
Recommended minimum contact load	10 mA / 10 V
Maximum contact load AC	16 A / 400 V AC-1
Maximum contact load DC	16 A / 30 V DC-1
Rated current	16 A
Inrush current	40 A, 20 ms
AC load	4000 VA
DC load	fig. 3,
Mechanical endurance (cycles)	≥ 20 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 300 000

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	2.4 VA / 1.4 W

Coil table

V AC	Ω	mA	V DC	Ω	mA
12	15.6	769	12	111	109
24	65	100	24	443	58
48	286	50	48	1 796	30
115	1 700	21	60	2 829	21.2
230	6 800	10	110	9 216	13
400	31 600	12.7	220	36 155	6.2

Insulation

Test voltage open contact	1 kV / 1 min
Test voltage contact / contact	4 kV / 1 min
Test voltage contact / coil	4 kV / 1 min
Pollution degree	3
Overvoltage category	III
Insulation resistance at 500 V	≥ 3 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	95 g
Housing material	PA / PC

Product references

Description	Type (x refers to contact material)	12	24	48	60	110	115	220	230	400
AC 50 Hz	C5-A3x/AC...V	✓	✓	✓			✓		✓	✓
LED	C5-A3xX/AC...V	✓	✓	✓			✓		✓	✓
RC Suppressor	C5-A3xR/AC...V	✓	✓	✓			✓		✓	✓
DC	C5-A3x/DC...V	✓	✓	✓	✓	✓			✓	
LED	C5-A3xX/DC...V	✓	✓	✓	✓	✓			✓	
LED & Free wheeling diode	C5-A3xDX/DC...V	✓	✓	✓	✓	✓			✓	
LED & Polarity & Free wheeling diode	C5-A3xFX/DC...V	✓	✓	✓	✓	✓			✓	

AC / DC bridge recifier & LED C5-A3xBX/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	S5-M, S5-P
Blanking plug	S0-NP (BAG 10 PCS)
Wall mounting adapter	S5-R (BAG 5 PCS)

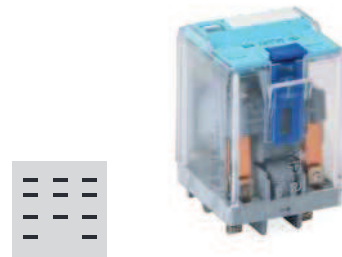


fig. 1. Wiring diagram

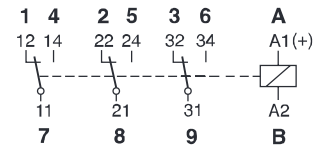


fig. 2. AC voltage endurance

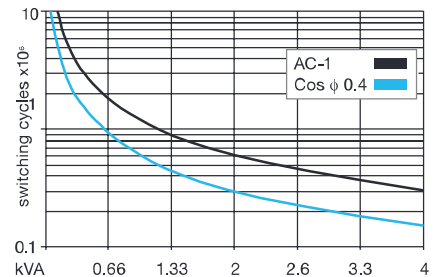


fig. 3. DC load limit curve

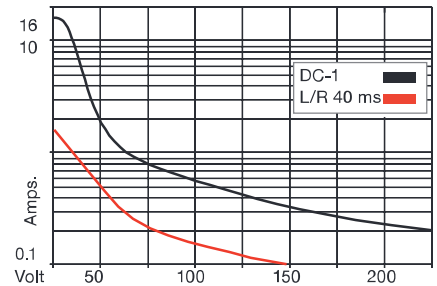
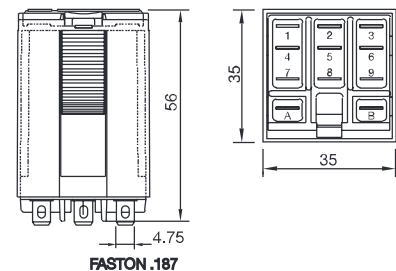


fig. 4. Dimension (mm)



Technical approvals, conformities

Standards IEC/EN 61810; IEC/EN 60947

Approvals

C5-A30 only

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)

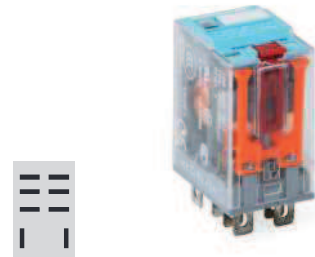


fig. 1. Wiring diagram

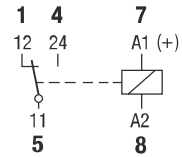


fig. 2. AC voltage endurance

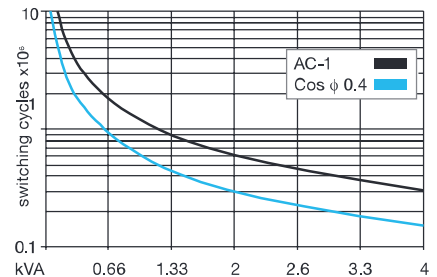


fig. 3. DC load limit curve

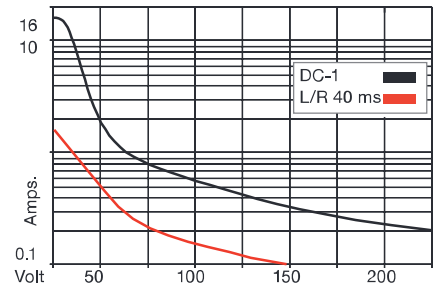


fig. 4. Dimension (mm)

