

**C2-A2x**

**2 pole | changeover contact**

**Main circuit**

Available contact materials	AgNi for C2-A20 AgNi + 5 μ Au for C2-A28
Recommended minimum contact load	10 mA / 10 V for C2-A20 5 mA / 5 V for C2-A28
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)	≥ 20 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 500 000

**Control circuit**

Nominal voltage	see table product references
Operating voltage range	0.8 U <sub>N</sub> ... 1.1 U <sub>N</sub>
Pick-up voltage	≤ 0.8 U <sub>N</sub>
Release voltage	≥ 0.1 U <sub>N</sub>
Power consumption AC / DC	2.2 VA / 1.3 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 ... 70 °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	79 g
Housing material	PA / PC

**Product references**

Description	Type (x refers to contact material)	12	24	48	110	115	220	230
AC 50 Hz	C2-A2x/AC...V	✓	✓	✓		✓		✓
LED	C2-A2xX/AC...V	✓	✓	✓		✓		✓
RC Suppressor	C2-A2xR/AC...V	✓	✓	✓		✓		✓

DC	C2-A2x/DC...V	✓	✓	✓	✓			✓
LED	C2-A2xX/DC...V	✓	✓	✓	✓			✓
LED & Free wheeling diode	C2-A2xDX/DC...V	✓	✓	✓	✓			✓
LED & Polarity & Free wheeling diode	C2-A2xFX/DC...V	✓	✓	✓	✓			✓

AC / DC bridge recifier & LED C2-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	S2-B, S2-PO
Blanking plug	S0-NP (BAG 10 PCS)



fig. 1. Wiring diagram

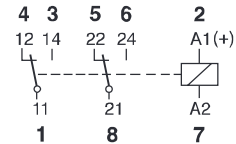


fig. 2. AC voltage endurance

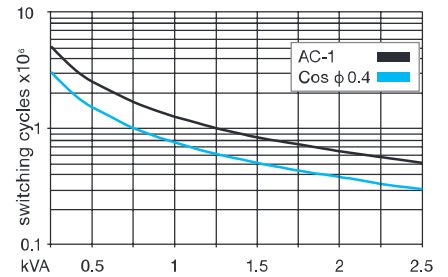


fig. 3. DC load limit curve

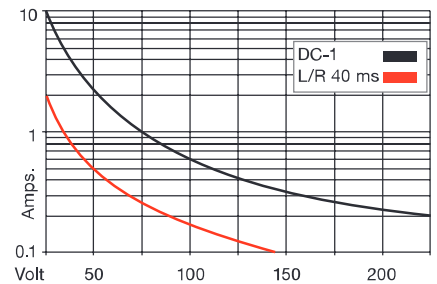
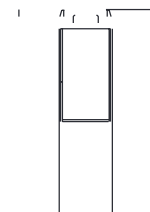


fig. 4. Dimension (mm)



# C3-A3x

## 3 pole | changeover contact

### Main circuit

Available contact materials	AgNi for C3-A30 AgNi + 5 μ Au for C3-A38 AgNi + 0.2 μ Au for C3-A39
Recommended minimum contact load	10 mA / 10 V for C3-A30, C3-A39 5 mA / 5 V for C3-A38
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)	≥ 20 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 500 000

### Control circuit

Nominal voltage	see table product references
Operating voltage range	0.8 U <sub>N</sub> ... 1.1 U <sub>N</sub>
Pick-up voltage	≤ 0.8 U <sub>N</sub>
Release voltage	≥ 0.1 U <sub>N</sub>
Power consumption AC / DC	2.2 VA / 1.3 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 ... 70 °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	81 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	C3-A3x/AC...V	✓	✓	✓	✓		✓		✓
LED	C3-A3xX/AC...V	✓	✓	✓	✓		✓		✓
RC Suppressor	C3-A3xR/AC...V	✓	✓	✓	✓		✓		✓
DC	C3-A3x/DC...V	✓	✓	✓	✓	✓			✓
LED	C3-A3xX/DC...V	✓	✓	✓	✓	✓			✓
LED & Free wheeling diode	C3-A3xDX/DC...V	✓	✓	✓	✓	✓			✓
LED & Polarity & Free wheeling diode	C3-A3xFX/DC...V	✓	✓	✓	✓	✓			✓
AC / DC bridge rectifier & LED	C3-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	S3-B, S3-S, S3-PO, S3-M, S3-M0, S3-M1
Blanking plug	S0-NP (BAG 10 PCS)



fig. 1. Wiring diagram

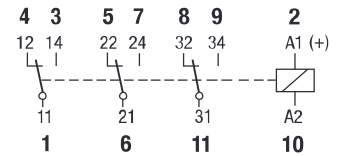


fig. 2. AC voltage endurance

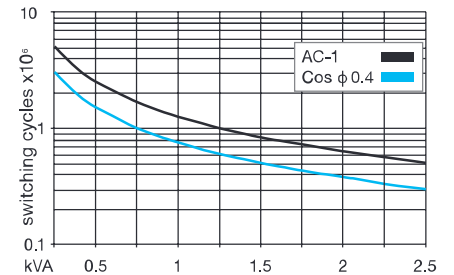


fig. 3. DC load limit curve

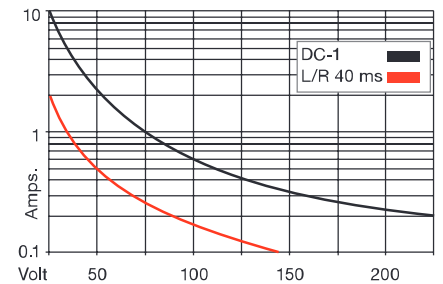
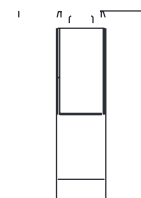


fig. 4. Dimension (mm)



## C3-G30

### 3 pole | normally open contact

#### Main circuit

Available contact materials	AgNi
Recommended minimum contact load	10 A / 30 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)	≥ 20 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 500 000

#### 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 / 1.6 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	8 ms / ≤ 1 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	81 g
Housing material	PA / PC

#### Product references

Description	Type	12	24	48	60	110	115	220	230
AC 50 Hz	C3-G30/AC...V	✓	✓	✓			✓		✓
LED	C3-G30X/AC...V	✓	✓	✓			✓		✓
RC Suppressor	C3-G30R/AC...V	✓	✓	✓			✓		✓
DC	C3-G30/DC...V	✓	✓	✓	✓	✓			✓
LED	C3-G30X/DC...V	✓	✓	✓	✓	✓			✓
LED & Free wheeling diode	C3-G30DX/DC...V	✓	✓	✓	✓	✓			✓
LED & Polarity & Free wheeling diode	C3-G30FX/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	S3-B, S3-S, S3-PO, S3-M, S3-M0, S3-M1
Blanking plug	S0-NP (BAG 10 PCS)



fig. 1. Wiring diagram

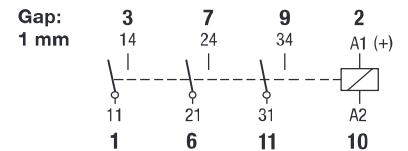


fig. 2. AC voltage endurance

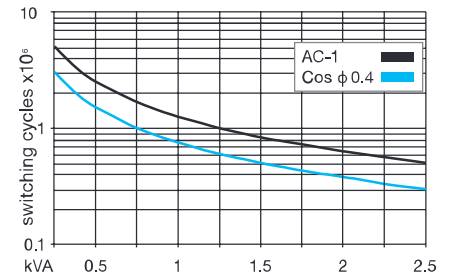


fig. 3. DC load limit curve

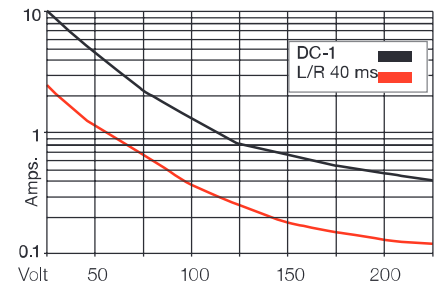
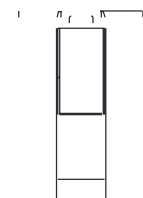


fig. 4. Dimension (mm)



**C3-M10**

**1 pole | normally open serial contact with blow magnet**



**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 / 220 V DC-1
Rated current	10 A
Inrush current	30 A, 20 ms
AC load	2500 VA
DC load	fig. 3.
Mechanical endurance (cycles)	≥ 20 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 500 000

**Control circuit**

Nominal voltage	see table product references
Operating voltage range	0.8 U <sub>N</sub> ... 1.1 U <sub>N</sub>
Pick-up voltage	≤ 0.8 U <sub>N</sub>
Release voltage	≥ 0.1 U <sub>N</sub>
Power consumption AC / DC	2.4 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
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	90 g
Housing material	PA / PC

**Product references**

Description	Type	12	24	48	110	115	220	230
AC 50 Hz	C3-M10/AC...V	✓	✓	✓		✓		✓
LED	C3-M10X/AC...V	✓	✓	✓		✓		✓
RC Suppressor	C3-M10R/AC...V	✓	✓	✓		✓		✓
DC	C3-M10/DC...V	✓	✓	✓	✓		✓	
LED	C3-M10X/DC...V	✓	✓	✓	✓		✓	
LED & Free wheeling diode	C3-M10DX/DC...V	✓	✓	✓	✓		✓	
LED & Polarity & Free wheeling diode	C3-M10FX/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	S3-B, S3-S, S3-P0, S3-M, S3-M0, S3-M1
Blanking plug	S0-NP (BAG 10 PCS)



fig. 1. Wiring diagram

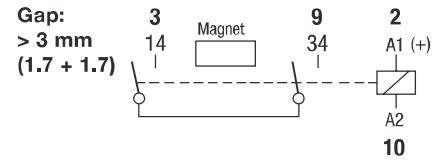


fig. 2. AC voltage endurance

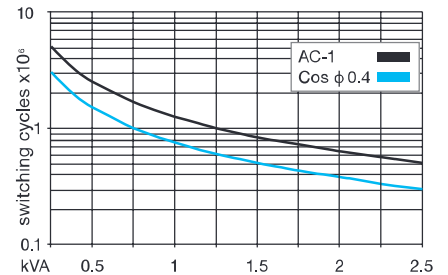


fig. 3. DC load limit curve

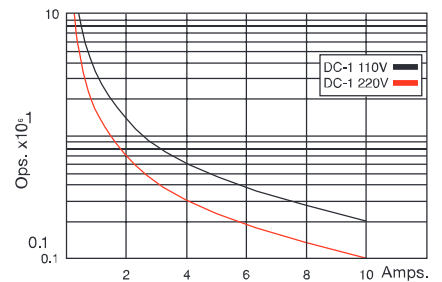
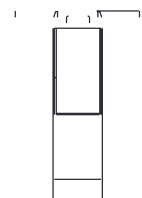


fig. 4. Dimension (mm)



## C3-N34

3 pole | changeover contact | sensitive coil

### Main circuit

Available contact materials	AgNi + 0.2 μ Au
Recommended minimum contact load	10 mA / 10 V
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	30 A, 20 ms
AC load	1500 VA
DC load	fig. 3.
Mechanical endurance (cycles)	≥ 20 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 150 000

### Control circuit

Nominal voltage	see table product references
Operating voltage range	0.8 U <sub>N</sub> ... 1.1 U <sub>N</sub>
Pick-up voltage	≤ 0.8 U <sub>N</sub>
Release voltage	≥ 0.1 U <sub>N</sub>
Power consumption AC / DC	800 mW

### 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	18 ms / ≤ 3 ms
Release time / bounce time	10 ms / ≤ 1 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	90 g
Housing material	PA / PC

### Product references

Description	Type	12	24	48	60	110
DC	C3-N34/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	S3-B, S3-S, S3-PO, S3-M, S3-M0, S3-M1
Blanking plug	S0-NP (BAG 10 PCS)



fig. 1. Wiring diagram

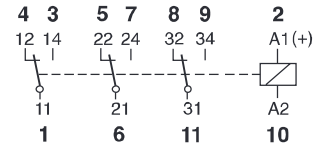


fig. 2. AC voltage endurance

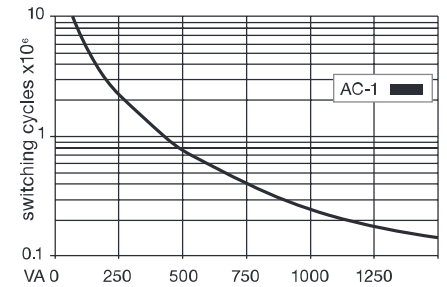


fig. 3. DC load limit curve

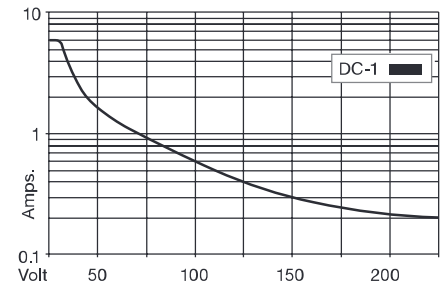
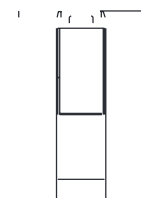


fig. 4. Dimension (mm)



**C3-R2xN**

**2 pole | changeover contact | remanence**

**Main circuit**

Available contact materials	AgNi for C3-R20N AgNi + 5 μ Au for C3-R28N
Recommended minimum contact load	10 mA / 10 V for C3-R20N 5 mA / 5 V for C3-R28N
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)	≥ 20 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 500 000

**Control circuit**

Nominal voltage	see table product references
Operating voltage range	0.8 U <sub>N</sub> ... 1.1 U <sub>N</sub>
Pick-up voltage (latch)	≤ 0.8 U <sub>N</sub>
Release voltage (delatch)	≤ 0.8 U <sub>N</sub>
ON pulse power	AC 1.8 VA, DC 1.5 W
OFF pulse power	AC 0.3 VA, DC 0.5 W

**Coil table**

**Internal diagram**

**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
Minimum pulse length ON / OFF	50 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	81 g
Housing material	PA / PC

**Product references**

Description	Type (x refers to contact material)	12	24	48	110	115	230
AC 50 Hz	C3-R2xN/AC...V	✓	✓	✓		✓	✓
DC	C3-R2xN/DC...V	✓	✓	✓	✓		

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

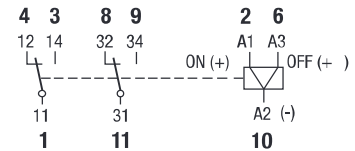
«...» List coil voltage to complete product references

**Accessories**

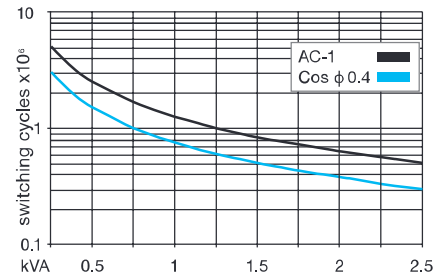
Socket	S3-B, S3-S, S3-PO, S3-M, S3-M0, S3-M1
Blanking plug	SO-NP (BAG 10 PCS)



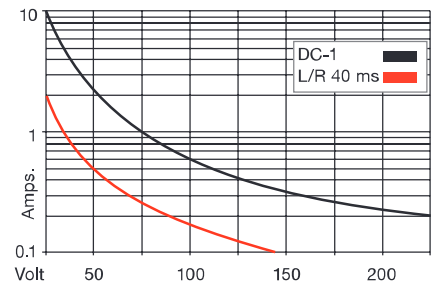
**fig. 1. Wiring diagram**



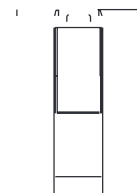
**fig. 2. AC voltage endurance**



**fig. 3. DC load limit curve**



**fig. 4. Dimension (mm)**



## C3-T3x

### 3 pole | changeover twin contact

#### Main circuit

Available contact materials	AgNi + 0.2 μ Au for C3-T31 AgNi + 5 μ Au for C3-T32
Recommended minimum contact load	5 mA / 5 V for C3-T31 1 mA / 5 V for C3-T32
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)	≥ 20 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 180 000

#### 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	2.2 VA / 1.3 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 ... 70 °C
Pick-up time / bounce time	8 ms / ≤ 3 ms
Release time / bounce time	18 ms / ≤ 1 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	81 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	C3-T3x/AC...V	✓	✓	✓			✓		✓
LED	C3-T3xX/AC...V	✓	✓	✓			✓		✓
RC Suppressor	C3-T3xR/AC...V	✓	✓	✓			✓		✓
DC	C3-T3x/DC...V	✓	✓	✓	✓	✓			✓
LED	C3-T3xX/DC...V	✓	✓	✓	✓	✓			✓
LED & Free wheeling diode	C3-T3xDX/DC...V	✓	✓	✓	✓	✓			✓
LED & Polarity & Free wheeling diode	C3-T3xFX/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	S3-B, S3-S, S3-PO, S3-M, S3-M0, S3-M1
Blanking plug	SO-NP (BAG 10 PCS)



fig. 1. Wiring diagram

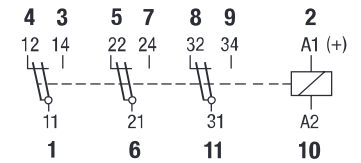


fig. 2. AC voltage endurance

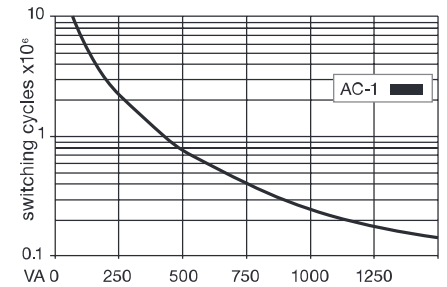


fig. 3. DC load limit curve

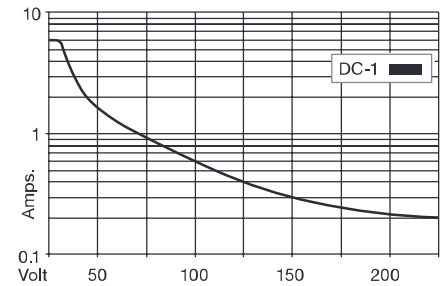
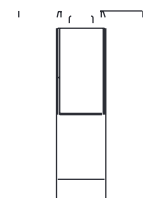


fig. 4. Dimension (mm)



**C3-X10**

**1 pole | normally open serial contact**

**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)	≥ 20 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 500 000

**Control circuit**

Nominal voltage	see table product references
Operating voltage range	0.8 U <sub>N</sub> ... 1.1 U <sub>N</sub>
Pick-up voltage	≤ 0.8 U <sub>N</sub>
Release voltage	≥ 0.1 U <sub>N</sub>
Power consumption AC / DC	2.4 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
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	18 ms / ≤ 3 ms
Release time / bounce time	8 ms / ≤ 1 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	83 g
Housing material	PA / PC

**Product references**

Description	Type	12	24	48	60	110	115	220	230
AC 50 Hz	C3-X10/AC...V	✓	✓	✓			✓		✓
LED	C3-X10X/AC...V	✓	✓	✓			✓		✓
RC Suppressor	C3-X10R/AC...V	✓	✓	✓			✓		✓
DC	C3-X10/DC...V	✓	✓	✓	✓	✓			✓
LED	C3-X10X/DC...V	✓	✓	✓	✓	✓			✓
LED & Free wheeling diode	C3-X10DX/DC...V	✓	✓	✓	✓	✓			✓
LED & Polarity & Free wheeling diode	C3-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	S3-B, S3-S, S3-P0, S3-M, S3-M0, S3-M1
Blanking plug	S0-NP (BAG 10 PCS)



fig. 1. Wiring diagram

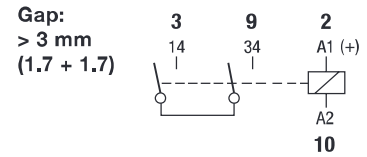


fig. 2. AC voltage endurance

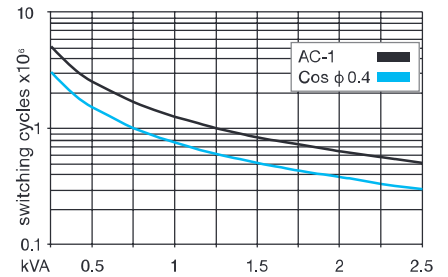


fig. 3. DC load limit curve

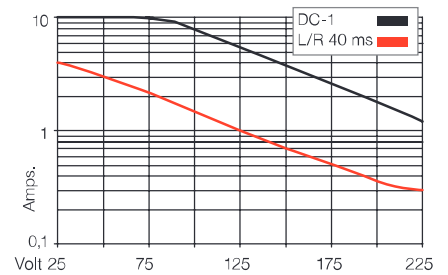
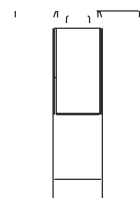


fig. 4. Dimension (mm)





# C4-A4x

## 4 pole | changeover contact | faston

### Main circuit

Available contact materials	AgNi for C4-A40 AgNi + 5 μ Au for C4-A48
Recommended minimum contact load	10 mA / 5 V for C4-A40 5 mA / 5 V for C4-A48
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)	≥ 20 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 500 000

### 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	2.4 VA / 1.4 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
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	8 ms / ≤ 1 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	90 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	C4-A4x/AC...V	✓	✓	✓			✓		✓	✓
LED	C4-A4xX/AC...V	✓	✓	✓			✓		✓	✓
RC Suppressor	C4-A4xR/AC...V	✓	✓	✓			✓		✓	✓
DC	C4-A4x/DC...V	✓	✓	✓	✓	✓			✓	
LED	C4-A4xX/DC...V	✓	✓	✓	✓	✓			✓	
LED & Free wheeling diode	C4-A4xDX/DC...V	✓	✓	✓	✓	✓			✓	
LED & Polarity & Free wheeling diode	C4-A4xFX/DC...V	✓	✓	✓	✓	✓			✓	
AC / DC bridge rectifier & LED	C4-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	S4-J, S4-L, S4-P
Blanking plug	S0-NP (BAG 10 PCS)
Wall mounting adapter	S5-R (BAG 5 PCS)

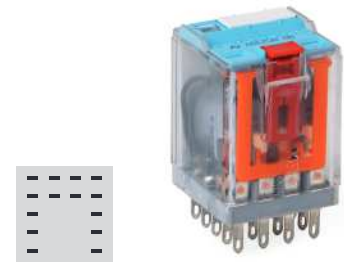


fig. 1. Wiring diagram

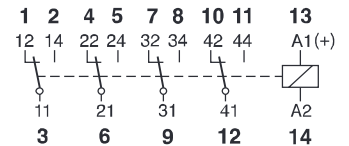


fig. 2. AC voltage endurance

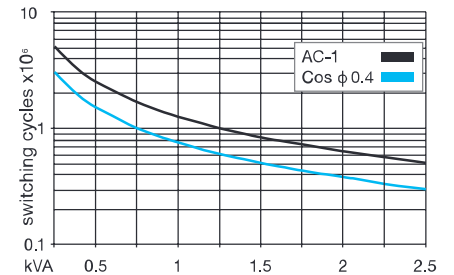


fig. 3. DC load limit curve

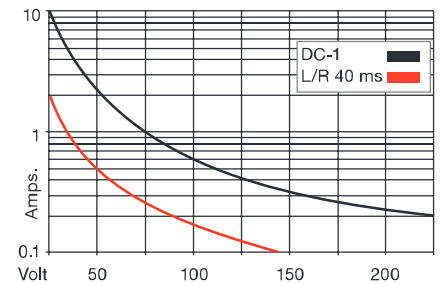
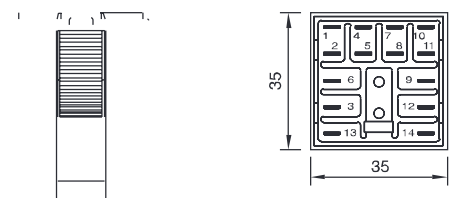


fig. 4. Dimension (mm)



FASTON .110

## C4-R3x

3 pole | changeover contact | remanence | faston

### Main circuit

Available contact materials	AgNi for C4-R30 AgNi + 5 μ Au for C4-R38
Recommended minimum contact load	10 mA / 10 V for C4-R30 5 mA / 5 V for C4-R38
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)	≥ 20 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 500 000

### Control circuit

Nominal voltage	see table product references
Operating voltage range	0.8 U <sub>N</sub> ... 1.1 U <sub>N</sub>
Pick-up voltage (latch)	≤ 0.8 U <sub>N</sub>
Release voltage (delatch)	≤ 0.8 U <sub>N</sub>
ON pulse power	AC 1.8 VA, DC 1.5 W
OFF pulse power	AC 0.3 VA, DC 0.5 W

### Coil table

### Internal diagram

### 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
Minimum pulse length ON / OFF	50 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	230	400
AC 50 Hz	C4-R3x/AC...V	✓	✓				✓	✓	✓
DC	C4-R3x/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	S4-J, S4-L, S4-P
Blanking plug	S0-NP (BAG 10 PCS)
Wall mounting adapter	S5-R (BAG 5 PCS)

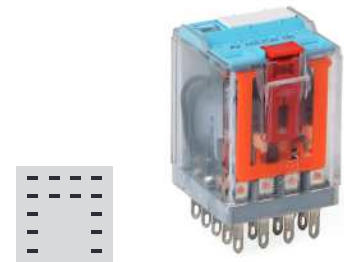


fig. 1. Wiring diagram

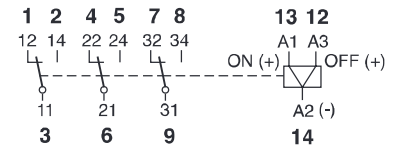


fig. 2. AC voltage endurance

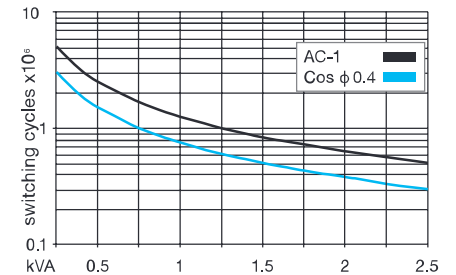


fig. 3. DC load limit curve

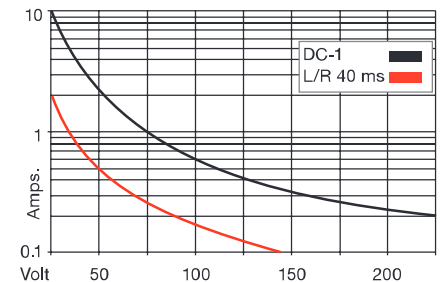
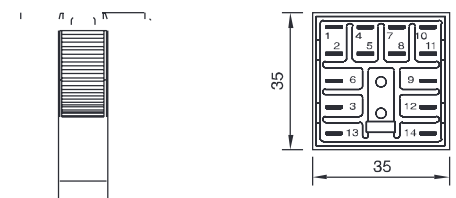


fig. 4. Dimension (mm)



FASTON .110

**C4-X20**

**2 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)	≥ 20 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 500 000

**Control circuit**

Nominal voltage	see table product references
Operating voltage range	0.8 U <sub>N</sub> ... 1.1 U <sub>N</sub>
Pick-up voltage	≤ 0.8 U <sub>N</sub>
Release voltage	≥ 0.1 U <sub>N</sub>
Power consumption AC / DC	2.4 VA / 1.3 W

**Coil table**

**Insulation**

Test voltage open contact	2.5 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	8 ms / ≤ 1 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	90 g
Housing material	PA / PC

**Product references**

Description	Type	12	24	48	60	110	115	220	230	400
AC 50 Hz	C4-X20/AC...V	✓	✓	✓			✓		✓	✓
LED	C4-X20X/AC...V	✓	✓	✓			✓		✓	✓
RC Suppressor	C4-X20R/AC...V	✓	✓	✓			✓		✓	✓
DC	C4-X20/DC...V	✓	✓	✓	✓	✓		✓		
LED	C4-X20X/DC...V	✓	✓	✓	✓	✓		✓		
LED & Free wheeling diode	C4-X20DX/DC...V	✓	✓	✓	✓	✓		✓		
LED & Polarity & Free wheeling diode	C4-X20FX/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	S4-J, S4-L, S4-P
Blanking plug	S0-NP (BAG 10 PCS)
Wall mounting adapter	S5-R (BAG 5 PCS)

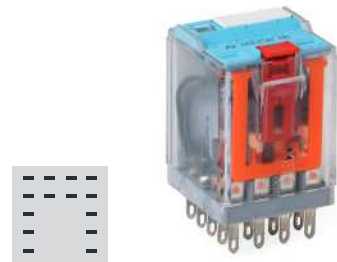


fig. 1. Wiring diagram

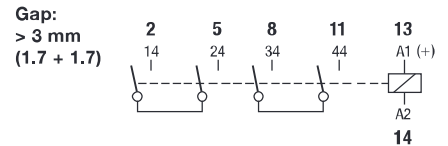


fig. 2. AC voltage endurance

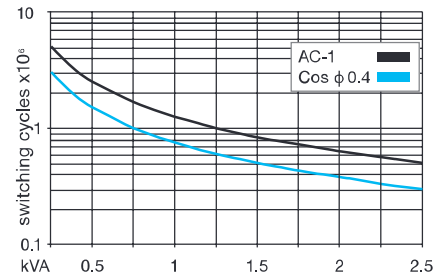


fig. 3. DC load limit curve

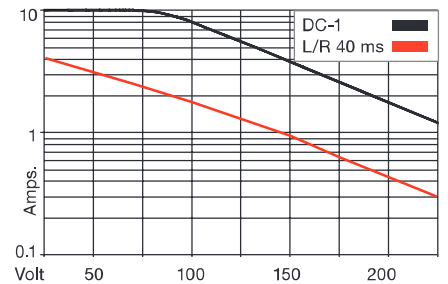
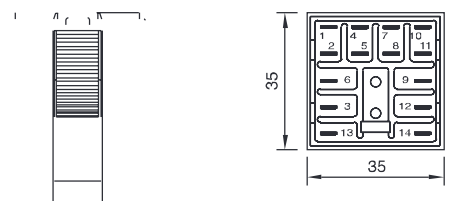


fig. 4. Dimension (mm)



FASTON .110

## C5-A20

2 pole | changeover contact | faston

### Main circuit

Available contact materials	⚡ AgNi
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 <sub>N</sub> ... 1.1 U <sub>N</sub>
Pick-up voltage	≤ 0.8 U <sub>N</sub>
Release voltage	≥ 0.1 U <sub>N</sub>
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
Overtoltage 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	90 g
Housing material	PA / PC

### Product references

Description	Type	12	24	48	60	110	115	220	230	400
AC 50 Hz	C5-A20/AC...V	✓	✓	✓			✓		✓	✓
LED	C5-A20X/AC...V	✓	✓	✓			✓		✓	✓
RC Suppressor	C5-A20R/AC...V	✓	✓	✓			✓		✓	✓
DC	C5-A20/DC...V	✓	✓	✓	✓	✓			✓	
LED	C5-A20X/DC...V	✓	✓	✓	✓	✓			✓	
LED & Free wheeling diode	C5-A20DX/DC...V	✓	✓	✓	✓	✓			✓	
LED & Polarity & Free wheeling diode	C5-A20FX/DC...V	✓	✓	✓	✓	✓			✓	
AC / DC bridge recifier & LED	C5-A20BX/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

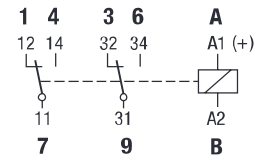


fig. 2. AC voltage endurance

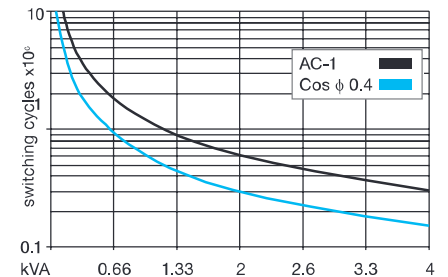


fig. 3. DC load limit curve

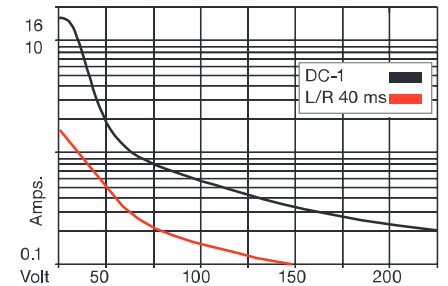
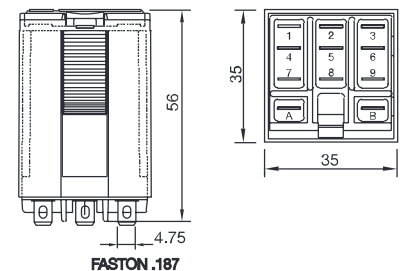


fig. 4. Dimension (mm)



### Technical approvals, conformities

Standards IEC/EN 61810; IEC/EN 60947



Approvals

**Main circuit**

Available contact materials	⚡ AgNi for C5-A30 ⚡ AgSnO <sub>2</sub> 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 <sub>N</sub> ... 1.1 U <sub>N</sub>
Pick-up voltage	≤ 0.8 U <sub>N</sub>
Release voltage	≥ 0.1 U <sub>N</sub>
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

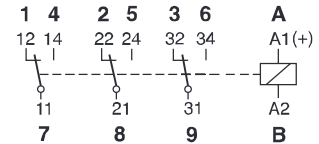


fig. 2. AC voltage endurance

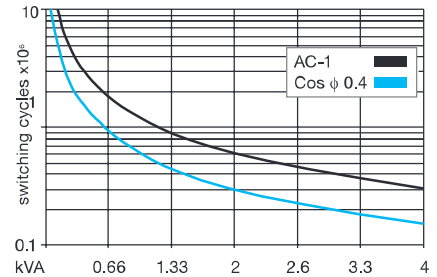


fig. 3. DC load limit curve

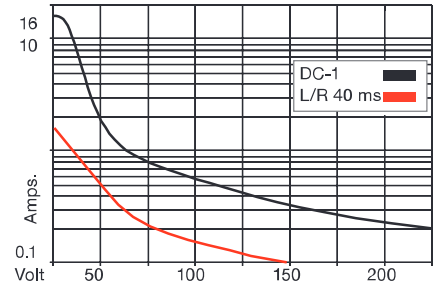
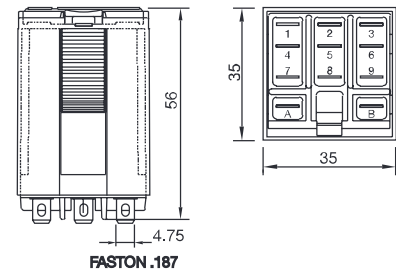


fig. 4. Dimension (mm)



**Technical approvals, conformities**

Standards IEC/EN 61810; IEC/EN 60947

Approvals

C5-A30 only

# C5-G3x

3 pole | normally open contact | faston

### Main circuit

Available contact materials	⚡ AgNi for C5-G30 ⚡ AgSnO <sub>2</sub> for C5-G35
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 <sub>N</sub> ... 1.1 U <sub>N</sub>
Pick-up voltage	≤ 0.8 U <sub>N</sub>
Release voltage	≥ 0.1 U <sub>N</sub>
Power consumption AC / DC	2.4 VA / 1.6 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	2 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-G3x/AC...V	✓	✓	✓			✓		✓	✓
LED	C5-G3xX/AC...V	✓	✓	✓			✓		✓	✓
RC Suppressor	C5-G3xR/AC...V	✓	✓	✓			✓		✓	✓
DC	C5-G3x/DC...V	✓	✓	✓	✓	✓			✓	
LED	C5-G3xX/DC...V	✓	✓	✓	✓	✓			✓	
LED & Free wheeling diode	C5-G3xDX/DC...V	✓	✓	✓	✓	✓			✓	
LED & Polarity & Free wheeling diode	C5-G3xFX/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	S5-M, S5-P
Blanking plug	S0-NP (BAG 10 PCS)
Wall mounting adapter	S5-R (BAG 5 PCS)



fig. 1. Wiring diagram

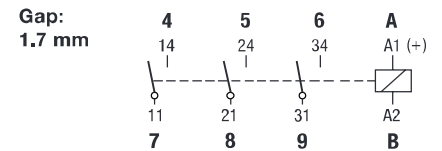


fig. 2. AC voltage endurance

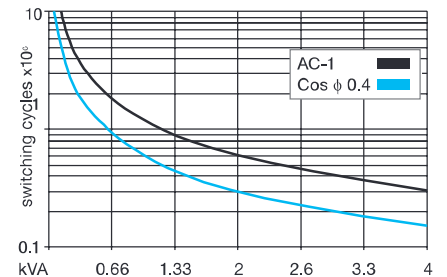


fig. 3. DC load limit curve

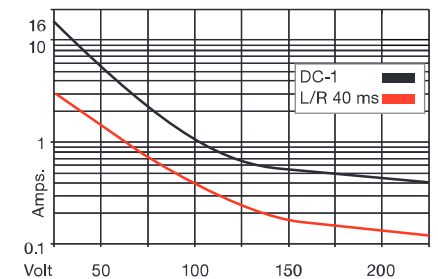
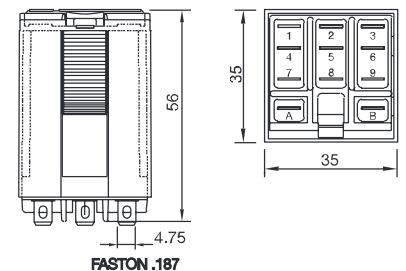


fig. 4. Dimension (mm)



### Technical approvals, conformities

Standards IEC/EN 61810; IEC/EN 60947



Approvals

**C5-M10**

**1 pole | normally open serial contact with blow magnet | faston**



**Main circuit**

Available contact materials	⚡ AgNi
Recommended minimum contact load	10 mA / 10 V
Maximum contact load AC	16 A / 400 V AC-1
Maximum contact load DC	10 A / 220 V DC-1
Rated current	16 A
Inrush current	40 A, 20 ms
AC load	4000 VA
DC load	2200 W
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 <sub>N</sub> ... 1.1 U <sub>N</sub>
Pick-up voltage	≤ 0.8 U <sub>N</sub>
Release voltage	≥ 0.1 U <sub>N</sub>
Power consumption AC / DC	2.4 VA / 1.3 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	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	90 g
Housing material	PA / PC

**Product references**

Description	Type	12	24	48	60	110	115	220	230	400
AC 50 Hz	C5-M10/AC...V	✓	✓	✓			✓		✓	✓
LED	C5-M10X/AC...V	✓	✓	✓			✓		✓	✓
RC Suppressor	C5-M10R/AC...V	✓	✓	✓			✓		✓	✓
DC	C5-M10/DC...V	✓	✓	✓	✓	✓		✓		
LED	C5-M10X/DC...V	✓	✓	✓	✓	✓		✓		
LED & Free wheeling diode	C5-M10DX/DC...V	✓	✓	✓	✓	✓		✓		
LED & Polarity & Free wheeling diode	C5-M10FX/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	S5-M, S5-P
Blanking plug	S0-NP (BAG 10 PCS)
Wall mounting adapter	S5-R (BAG 5 PCS)

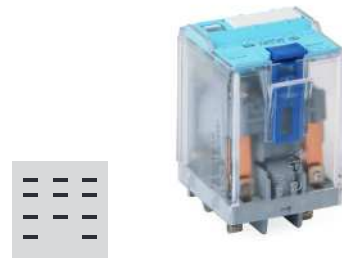


fig. 1. Wiring diagram

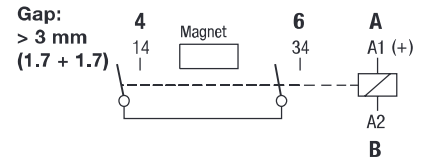


fig. 2. AC voltage endurance

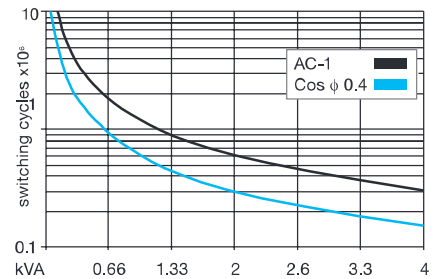


fig. 3. DC voltage endurance

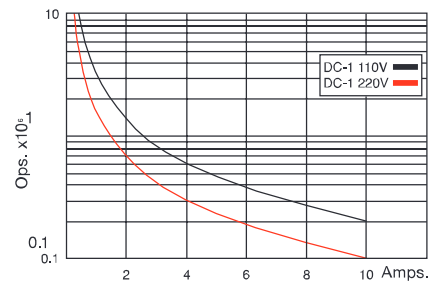
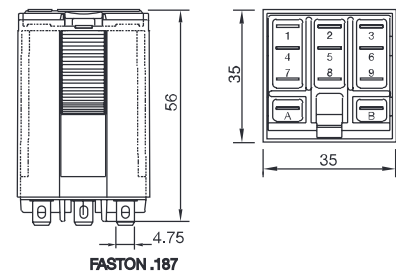


fig. 4. Dimension (mm)



**Technical approvals, conformities**

Standards IEC/EN 61810; IEC/EN 60947



## C5-M20

2 pole | normally open contact with blow magnet | 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	7 A / 110 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 <sub>N</sub> ... 1.1 U <sub>N</sub>
Pick-up voltage	≤ 0.8 U <sub>N</sub>
Release voltage	≥ 0.1 U <sub>N</sub>
Power consumption AC / DC	2.4 VA / 1.6 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	2 kV / 1 min
Test voltage contact / contact	4 kV / 1 min
Test voltage contact / coil	3 kV / 1 min
Pollution degree	3
Overtoltage 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	90 g
Housing material	PA / PC

### Product references

Description	Type	12	24	48	60	110	115	220	230	400
AC 50 Hz	C5-M20/AC...V	✓	✓	✓			✓		✓	✓
LED	C5-M20X/AC...V	✓	✓	✓			✓		✓	✓
RC Suppressor	C5-M20R/AC...V	✓	✓	✓			✓		✓	✓
DC	C5-M20/DC...V	✓	✓	✓	✓	✓				✓
LED	C5-M20X/DC...V	✓	✓	✓	✓	✓				✓
LED & Free wheeling diode	C5-M20DX/DC...V	✓	✓	✓	✓	✓				✓
LED & Polarity & Free wheeling diode	C5-M20FX/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	S5-M, S5-P
Blanking plug	S0-NP (BAG 10 PCS)
Wall mounting adapter	S5-R (BAG 5 PCS)



fig. 1. Wiring diagram

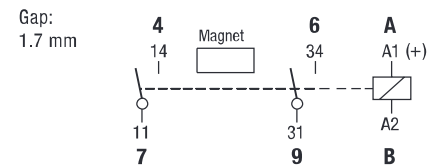


fig. 2. AC voltage endurance

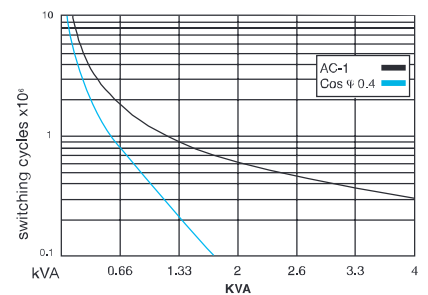


fig. 3. DC load limit curve

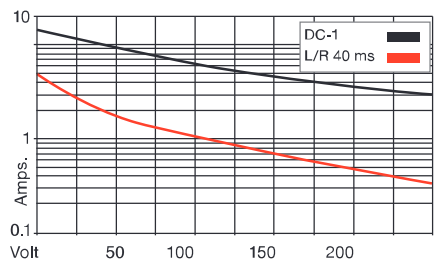
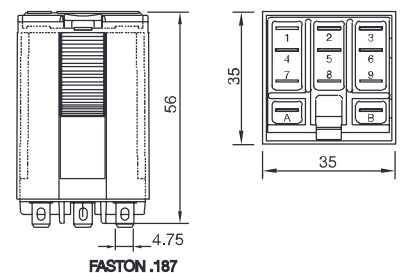


fig. 4. Dimension (mm)



### Technical approvals, conformities

Standards IEC/EN 61810; IEC/EN 60947



Approvals



**C5-R20**

2 pole | changeover contact | remanence | faston



**Main circuit**

Available contact materials	⚡ AgNi
Recommended minimum contact load	10 mA / 10 V
Maximum contact load AC	10 A / 400 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	4000 VA
DC load	fig. 3.
Mechanical endurance (cycles)	≥ 20 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 300 000

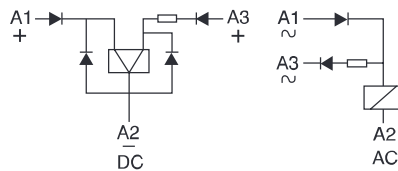
**Control circuit**

Nominal voltage	see table product references
Operating voltage range	$0.8 U_N \dots 1.1 U_N$
Pick-up voltage (latch)	$\leq 0.8 U_N$
Release voltage (delatch)	$\leq 0.8 U_N$
ON pulse power	AC 1.8 VA, DC 1.5 W
OFF pulse power	AC 0.3 VA, DC 0.5 W

**Coil table**

V AC	mA ON	mA OFF	V DC	mA ON	mA OFF
24	75	12	12	145	25
48	54	6	24	71	12
115	22	2.5	48	33	6
230	8	1.3	110	14	5

**Internal diagram**



**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
Minimum pulse length ON / OFF	50 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	95 g
Housing material	PA / PC

**Product references**

Description	Type	12	24	48	110	115	230	400
AC 50 Hz	C5-R20/AC...V	✓	✓	✓	✓	✓	✓	✓
DC	C5-R20/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	S5-M, S5-P
Blanking plug	S0-NP (BAG 10 PCS)
Wall mounting adapter	S5-R (BAG 5 PCS)



fig. 1. Wiring diagram

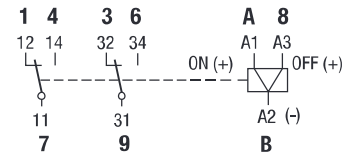


fig. 2. AC voltage endurance

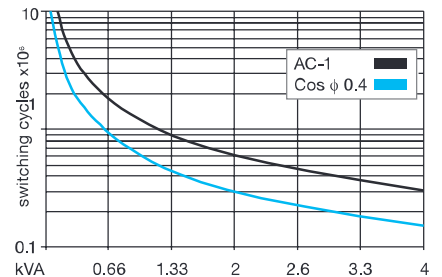


fig. 3. DC load limit curve

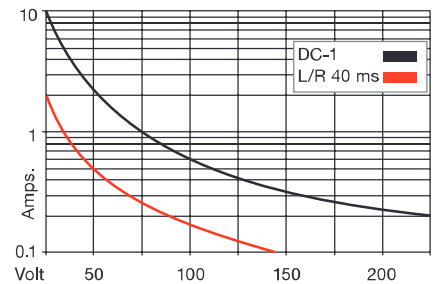
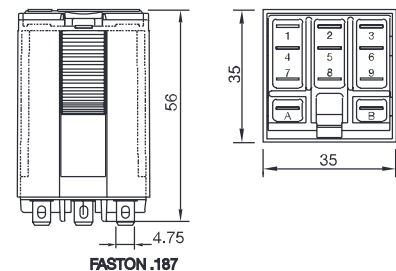


fig. 4. Dimension (mm)



**Technical approvals, conformities**

Standards IEC/EN 61810; IEC/EN 60947



# C5-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	16 A / 400 V AC-1
Maximum contact load DC	16 A / 30 V DC-1
Rated current	16 A
Inrush current	40 , 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 <sub>N</sub> ... 1.1 U <sub>N</sub>
Pick-up voltage	≤ 0.8 U <sub>N</sub>
Release voltage	≥ 0.1 U <sub>N</sub>
Power consumption AC / DC	2.4 VA / 1.3 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	4 kV / 1 min
Test voltage contact / coil	4 kV / 1 min
Pollution degree	3
Overtoltage 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	90 g
Housing material	PA / PC

### Product references

Description	Type	12	24	48	60	110	115	220	230	400
AC 50 Hz	C5-X10/AC...V	✓	✓	✓			✓		✓	✓
LED	C5-X10X/AC...V	✓	✓	✓			✓		✓	✓
RC Suppressor	C5-X10R/AC...V	✓	✓	✓			✓		✓	✓
DC	C5-X10/DC...V	✓	✓	✓	✓	✓		✓		
LED	C5-X10X/DC...V	✓	✓	✓	✓	✓		✓		
LED & Free wheeling diode	C5-X10DX/DC...V	✓	✓	✓	✓	✓		✓		
LED & Polarity & Free wheeling diode	C5-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	S5-M, S5-P
Blanking plug	S0-NP (BAG 10 PCS)
Wall mounting adapter	S5-R (BAG 5 PCS)



fig. 1. Wiring diagram

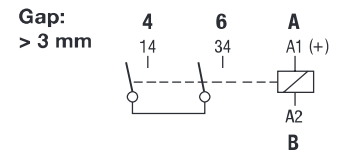


fig. 2. AC voltage endurance

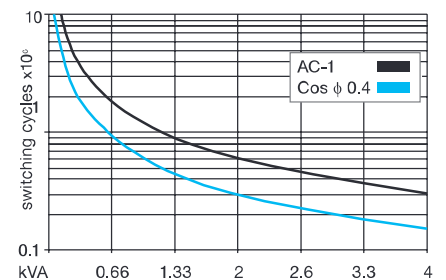


fig. 3. DC load limit curve

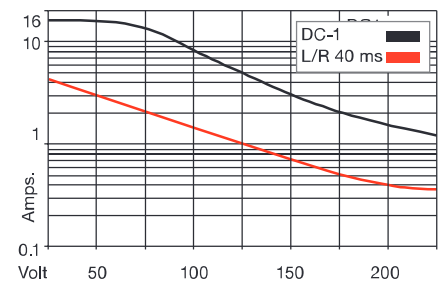
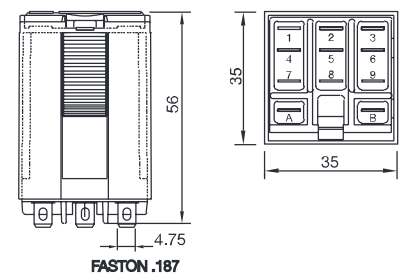


fig. 4. Dimension (mm)



### Technical approvals, conformities

Standards IEC/EN 61810; IEC/EN 60947

Approvals