

1.8 Installation Contactors



- Different versions NO; NC; NC + NO
- AC/DC Coil Hum free
- No EMC (free wheeling circuit included)
- Robust and compact
- Wide Range of application
- Mounting according DIN/EN 43880 on DIN Rail TS 35
- Sealing cover optional

RIC20

20 A, AC/DC control voltage, silent operation
DIN rail mounting according to DIN 43 880



Type: RIC20-xxx/ ...V

Hum-free installation contactor, 2 contacts, 2 NO, 1 NO-1 NC, 2 NC types available

Rated operational power	4 kW / 230 V AC-1, 0.6 A / 220 V DC-1
Recommended minimum contact load	50 mA / 24 V

Contacts

Material	AgNi
Rated operational current	20 A
Max. inrush current (100ms)	50 A
Max. switching voltage	230 V
Max. AC load AC-1, AC-7a	4 kW / 230 V
AC-3	1.3 kW / 230 V (NO) 0.75 kW / 230 V (NC)
Max. DC load 24 V / 220 V DC-1 (Fig. 1)	480 W / 130 V

Control input V_n =

	UC 24 V	UC 36 V	UC 230 V
Operating voltage range [V]	20.4 ... 26.4	30.6 ... 39.6	195 ... 253
Typ. pick up voltage [V]	17	25	160
Typ. release voltage [V]	7	11	70
Power consumption [W]	2.1	2.1	2.1
Inductive turn-off voltage	None	None	None
Surge immunity EN 6100-4-5	2 kV	2 kV	2 kV

Insulation

Rated insulation voltage	230 V
Rated impulse withstand voltage	4 kV
Min. clearance of open contact	3.6 mm

General Specifications

Ambient temperature storage	-30 ... 80 °C
operation, Spacer after 2 contactors side by side	-5 ... 55 °C
operation, Spacer after 3 contactors side by side	-5 ... 40 °C
Pick-up time	15 ... 45 ms
Release time	20 ... 50 ms
Mechanical life	≥ 3 x 10 ⁶ operations
AC voltage endurance at rated load AC-3, AC-7b	≥ 3 x 10 ⁵ operations
DC voltage endurance at rated load DC-1	10 ⁵ operations
Operating frequency at rated load DC-1	≤ 300 operations / h
Operating frequency at rated load AC-1	≤ 600 operations / h
Conductor cross section coil /contacts	Stranded wire 2.5 mm ² / 6 mm ²
Max. Screw torque coil /contacts	0.6 Nm / 1.2 Nm
Ingress protection degree	IP 20
Weight	140 g

Standard types

UC (AC / DC) 50 / 60 Hz, 24, 36, 230	2NO	RIC20-200/UC ...V
	1NO + 1NC	RIC20-110/UC ...V
	2NC	RIC20-020/UC ...V

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

Accessories

Sealing cover:	RIC-SEAL 20
Spacer:	RIC-DIST

Samples of lamp loads

	Number of lamps
Incandescent lamps 230 V / 100 W	20
Fluorescent lamps not corrected 230 V / 36 W	17
Fluorescent lamps electronic ballast units 36 W	10

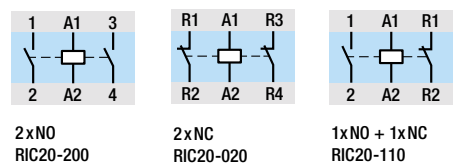
Mounting information

If multiple contactors are mounted side by side, spacers (RIC DIST) have to be inserted for the purpose of heat dissipation.

Example: Ambient temperature up to 40°C: 1 spacer after 3 RIC // 40...55°C: 1 spacer after 2 RIC.



Connection diagram



Coil circuit

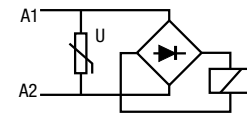
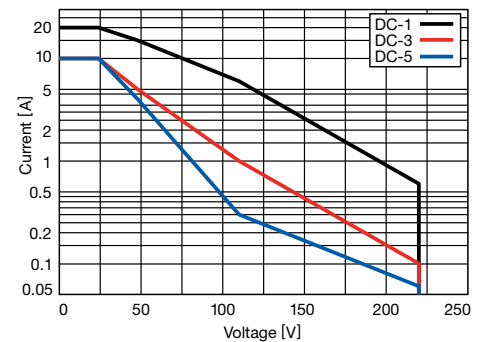
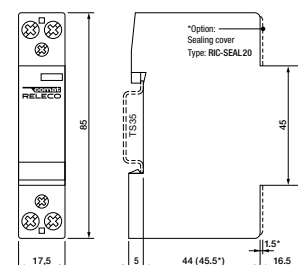


Fig. 1 DC load limit curve DC-1



Dimensions [mm]



Technical approvals, conformities

CE **RoHS**

IEC/EN 60947-4-1, VDE 0660
 IEC/EN 60947-5-1
 IEC/EN 61095, VDE 0637

RIC25

25 A, AC/DC control voltage, silent operation
DIN Rail mounting according to DIN 43 880



Type: RIC25-xxx/ ...V

Hum-free installation contactor, 4 contacts, 4 NO, 4 NC, 2 NO-2 NC types available

Rated operational power AC-1	Single phase: 5.4 kW/230 V, 0.6 A/220 V DC-1 3 phase 230 V: 9 kW 3 phase 400 V: 16 kW
Recommended minimum contact load	50 mA / 24 V

Contacts

Material	AgNi
Rated operational current	25 A
Max. inrush current (100ms)	50 A
Max. switching voltage	400 V
Max. AC load 3 phase AC-1, AC-7a	9 kW / 230 V, 16 kW / 400 V
AC-3	2.2 kW / 230 V, 4 kW / 400 V
Max. DC load 24V/220V DC-1 (Fig. 1)	600 W / 130 W

Control input V_n =

	UC 24 V	UC 36 V	UC 230 V
Operating voltage range [V]	20.4 ... 26.4	30.6 ... 39.6	195 ... 253
Typ. pic up voltage [V]	17	25	160
Typ. release voltage [V]	7	11	70
Power consumption [W]	2.6	2.6	2.6
Inductive turn-off voltage	None	None	None
Surge immunity EN 6100-4-5	2 kV	2 kV	2 kV

Insulation

Rated insulation voltage	440 V
Rated impulse withstand voltage	4 kV
Min. clearance of open contact	3.6 mm

General Specifications

Ambient temperature storage	-30 ... 80 °C
operation, Spacer after 2 contactors side by side	-5 ... 55 °C
operation, Spacer after 3 contactors side by side	-5 ... 40 °C
Pick-up time	15 ... 45 ms
Release time	20 ... 70 ms
Mechanical life	≥ 3 x 10 ⁶ operations
AC voltage endurance at rated load AC-3, AC-7b	≥ 5 x 10 ⁵ operations
DC voltage endurance at rated load DC-1	10 ⁵ operations
Operating frequency at rated load DC-1	≤ 300 operations / h
Operating frequency at rated load AC-1, AC-3	≤ 600 operations / h
Conductor cross section coil / contacts terminals	Stranded wire 2.5 mm ² / 6 mm ²
Max. Screw torque coil / contacts	0.6 Nm / 1.2 Nm
Ingress protection degree	IP 20
Weight	270 g

Standard types

UC (AC / DC) 50 / 60 Hz, 24, 36, 230	4NO	RIC25-400/UC ...V
	2NO + 2NC	RIC25-220/UC ...V
	4NC	RIC25-040/UC ...V

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

Accessories

Auxiliary contact bloc:	RIC-AUX..
Sealing cover:	RIC-SEAL 25
Spacer:	RIC-DIST

Samples of lamp loads

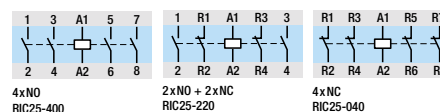
Sample of lamp loads	Number of lamps
Incandescent lamps 230 V/ 100 W	20
Fluorescent lamps not corrected 230 V/ 36 W	20
Fluorescent lamps electronic ballast units 36 W	14

Mounting information

If multiple contactors are mounted side by side, spacers (RIC DIST) have to be inserted for the purpose of heat dissipation.

Example: Ambient temperature up to 40°C: 1 spacer after 3 RIC // 40...55°C: 1 spacer after 2 RIC.

Connection diagram



Coil circuit

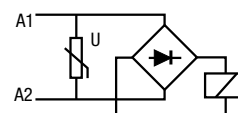
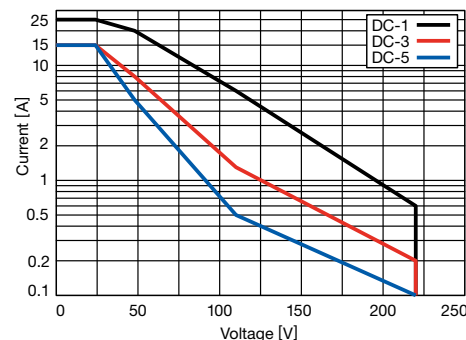
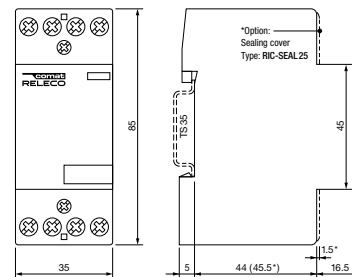


Fig. 1 DC load limit curve DC-1



Dimensions [mm]



Technical approvals, conformities

CE **RoHS**
 IEC/EN 60947-4-1
 IEC/EN 60947-5-1
 IEC/EN 61095

RIC40

40 A, AC/DC control voltage, silent operation

DIN rail mounting according to DIN 43 880



Type: RIC 40-xxx/...V

Hum-free installation contactor, 4 contacts, 4 NO, 2 NO-2 NC, 4 NC types available

Rated operational power AC-1	Single phase: 8.7 kW/230 V, 1.2 A / 220 V DC-1
	3 phase 230 V: 16 kW
	3 phase 400 V: 26 kW
Recommended minimum contact load	50 mA / 24 V

Contacts

Material	AgSnO ₂
Rated operational current	40 A
Max. inrush current (100ms)	150 A
Max. switching voltage	400 V
Max. AC load 3 phase AC-1, AC-7a	16 kW / 230 V, 26 kW / 400 V
AC-3	3.7 kW / 230 V, 11 kW / 400 V
Max. DC load 24V/220V DC-1(Fig. 1)	960 W / 260 V

Control input V_N = AC 50 / 60 Hz / DC

	UC 24 V	UC 230 V
Operating voltage range [V]	20.4 ... 26.4	195 ... 253
Typ. pic up voltage [V]	17	160
Typ. release voltage [V]	7	70
Power consumption [W]	6	5
Inductive turn-off voltage	None	None
Surge immunity EN 6100-4-5	2 kV	2 kV

Insulation

Rated insulation voltage	440 V
Rated impulse withstand voltage	4 kV
Min. clearance of open contact	3.6 mm

General Specifications

Ambient temperature storage	-30 ... 80 °C
operation, Spacer after 2 contactors side by side	-5 ... 55 °C
operation, Spacer after 3 contactors side by side	-5 ... 40 °C
Pick-up time	15 ... 20 ms
Release time	35 ... 45 ms
Mechanical life	≥ 3 x 10 ⁶ operations
AC voltage endurance at rated load AC-3, AC-7b	≥ 1.5 x 10 ⁵ operations
DC voltage endurance at rated load DC-1	10 ⁵ operations
Operating frequency at rated load DC-1	≤ 300 operations / h
Operating frequency at rated load AC-1, AC-3	≤ 600 operations / h
Conductor cross section coil /contacts terminals	Stranded wire 2.5 mm ² / 16 mm ²
Max. Screw torque coil /contacts	0.6 Nm / 3.5 Nm
Ingress protection degree	IP 20
Weight	420 g

Standard types

UC (AC / DC) 50 / 60 Hz, 24, 230	4NO	RIC40-400/UC ...V
	2NO + 2NC	RIC40-220/UC ...V
	4NC	RIC40-040/UC ...V

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

Accessories

Auxiliary contact bloc:	RIC-AUX..
Sealing cover:	RIC-SEAL 40-63
Spacer:	RIC-DIST

Samples of lamp loads

	Number of lamps
Incandescent lamps 230 V / 100 W	40
Fluorescent lamps not corrected 230 V / 36 W	65
Fluorescent lamps electronic ballast units 36 W	40

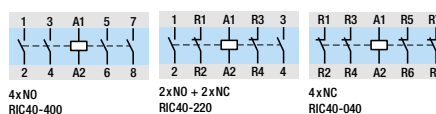
Mounting information

If multiple contactors are mounted side by side, spacers (RIC DIST) have to be inserted for the purpose of heat dissipation.

Example: Ambient temperature up to 40°C: 1 spacer after 3 RIC // 40...55°C: 1 spacer after 2 RIC.



Connection diagram



Coil circuit

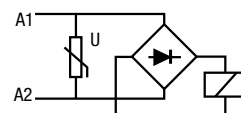
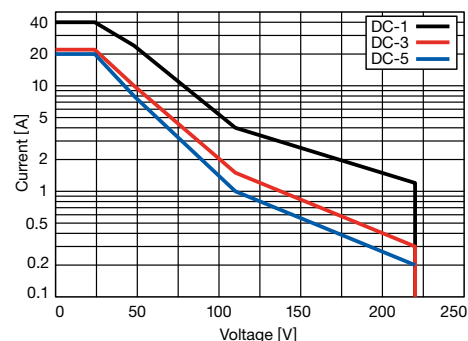
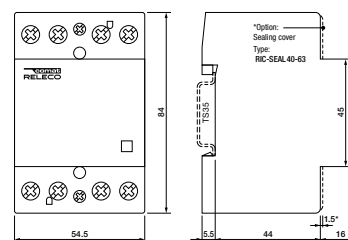


Fig. 1 DC load limit curve DC-1



Dimensions [mm]



Technical approvals, conformities



IEC/EN 60947-4-1
IEC/EN 60947-5-1
IEC/EN 61095

RIC63

63 A, AC/DC control voltage, silent operation
DIN Rail mounting according to DIN 43 880

Type: RIC 63-xxx/...V

Hum-free installation contactor, 4 contacts, 4 NO, 2 NO-2 NC types available

Rated operational power AC-1	Single phase: 13.3 kW/230 V, 1.2 A/220VDC-1 3 phase 230 V: 24 kW 3 phase 400 V: 40 kW
Recommended minimum contact load	50 mA / 24 V

Contacts

Material	AgSnO ₂	
Rated operational current	63 A	
Max. inrush current (100ms)	150 A	
Max. switching voltage	400 V	
Max. AC load 3 phase	AC-1, AC-7a	24 kW / 230 V, 40 kW / 400 V
	AC-3	5 kW / 230 V, 15 kW / 400 V
Max. DC load 24 V / 220 V DC-1(Fig. 1)		1500 W / 260 W

Control input V_N = AC 50 / 60 Hz / DC

	UC 24 V	UC 230 V
Operating voltage range [V]	20.4 ... 26.4	195 ... 253
Typ. pick up voltage [V]	17	160
Typ. release voltage [V]	7	70
Power consumption [W]	≤ 5	≤ 5
Inductive turn-off voltage	None	None
Surge immunity EN 6100-4-5	2 kV	2 kV

Insulation

Rated insulation voltage	440 V
Rated impulse withstand voltage	4 kV
Min. clearance of open contact	3.6 mm

General Specifications

Ambient temperature storage	-30 ... 80 °C
operation, Spacer after 2 contactors side by side	-5 ... 55 °C
operation, Spacer after 3 contactors side by side	-5 ... 40 °C
Pick-up time	15 ... 20 ms
Release time	35 ... 45 ms
Mechanical life	≥ 3 x 10 ⁶ operations
AC voltage endurance at rated load AC-3, AC-7b	≥ 1.5 x 10 ⁵ operations
DC voltage endurance at rated load DC-1	10 ⁵ operations
Operating frequency at rated load DC-1	≤ 300 operations / h
Operating frequency at rated load AC-1, AC-3	≤ 600 operations / h
Conductor cross section coil /contacts terminals	Stranded wire 2.5 mm ² / 16 mm ²
Max. Screw torque coil /contacts	0.6 Nm / 3.5 Nm
Ingress protection degree	IP 20
Weight	420 g

Standard types

UC (AC / DC) 50 / 60 Hz, 24, 230	4NO	RIC63-400/UC ...V
"..." enter the voltage for full type designation	2NO + 2NC	RIC63-220/UC ...V

Accessories

Auxiliary contact bloc:	RIC-AUX..
Sealing cover:	RIC-SEAL 40-63
Spacer:	RIC-DIST

Samples of lamp loads

	Number of lamps
Incandescent lamps 230 V / 100 W	50
Fluorescent lamps not corrected 230 V / 36 W	95
Fluorescent lamps electronic ballast units 36 W	57

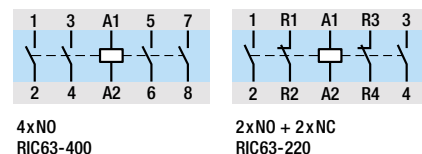
Mounting information

If multiple contactors are mounted side by side, spacers (RIC DIST) have to be inserted for the purpose of heat dissipation.

Example: Ambient temperature up to 40°C: 1 spacer after 3 RIC // 40...55°C: 1 spacer after 2 RIC.



Connection diagram



Coil circuit

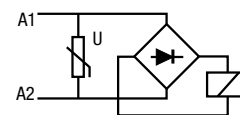
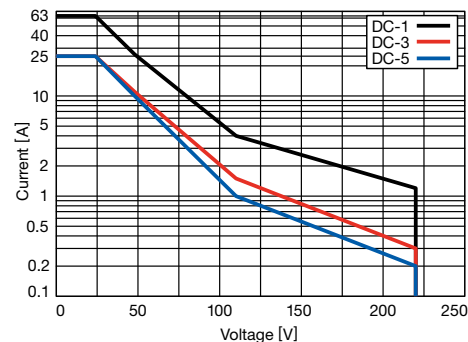
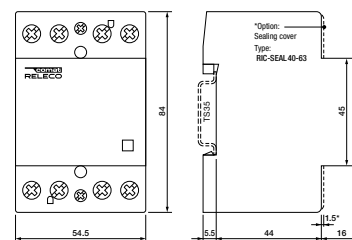


Fig. 1 DC load limit curve DC-1



Dimensions [mm]



Technical approvals, conformities

CE
 IEC/EN 60947-4-1
 IEC/EN 60947-5-1
 IEC/EN 61095

RIC-AUX

**4 A auxiliary contact bloc with 2 double contacts,
3 different combinations of NO / NC contacts**



Type: RIC AUXxx

2 double contacts, 2 NO, 1 NC-1 NO, 2 NC types available

Maximum contact load AC-15	4 A / 230 V, 4 A / 400 V
Recommended minimum contact load	5 mA / 24 V

Contacts

Material	AgNi
Rated operational current AC-15	4 A / 230 V, 4 A / 400 V
Max. switching voltage with RIC 20	400 V

Insulation

Rated insulation voltage	500 V
Rated impulse withstand voltage	4 kV

Specifications

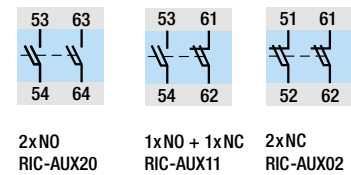
Ambient temperature storage / operation	-30 ... 80 °C / -5 ... 55 °C
Operating frequency at rated load	≤ 600 operations / h
Conductor cross section	Stranded wire 2.5 mm ²
Max. Screw torque	0.6 Nm
Ingress protection degree	IP 20
Weight	50 g

Standard types

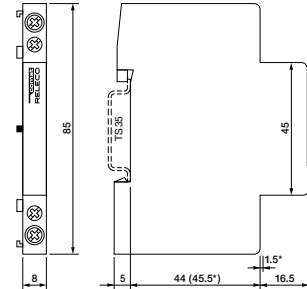
2NO	RIC-AUX20
1NO + 1NC	RIC-AUX11
2NC	RIC-AUX02



Connection diagram



Dimensions [mm]



Technical approvals, conformities



IEC/EN 60947-4-1
IEC/EN 60947-5-1
IEC/EN 61095

RAC20

20 A, AC/DC control voltage, silent operation
DIN rail mounting according to DIN 43 880



Type: RAC20-xxx/ ...V

Hum-free installation contactor, 2 NO, 1 NO-1 NC, 2 NC types available.
 Manual actuating and locking

Rated operational power	4 kW / 230 V AC-1, 0.6 A / 220 V DC-1
Recommended minimum contact load	50 mA / 24 V

Contacts

Material	AgNi
Rated operational current	20 A
Max. inrush current (100ms)	50 A
Max. switching voltage	230 V
Max. AC load	AC-1, AC-7a AC-3
	4 kW / 230 V 1.3 kW / 230 V (NO) 0.75 kW / 230 V (NC)
Max. DC load	24 V / 220 V DC-1 (Fig. 1) 480 W / 130 W

Control input V_n =

	UC 24 V	UC 36 V	UC 230 V
Operating voltage range [V]	20.4 ... 26.4	30.6 ... 39.6	195 ... 253
Typ. pick up voltage [V]	17	25	160
Typ. release voltage [V]	7	11	70
Power consumption [W]	2.1	2.1	2.1
Inductive turn-off voltage	None	None	None
Surge immunity EN 6100-4-5	2 kV	2 kV	2 kV

Insulation

Rated insulation voltage	230 V
Rated impulse withstand voltage	4 kV
Min. clearance of open contact	3.6 mm

General Specifications

Ambient temperature storage	-30 ... 80 °C
operation, Spacer after 2 contactors side by side	-5 ... 55 °C
operation, Spacer after 3 contactors side by side	-5 ... 40 °C
Pick-up time	15 ... 45 ms
Release time	20 ... 50 ms
Mechanical life	≥ 3 x 10 ⁶ operations
AC voltage endurance at rated load AC-3, AC-7b	≥ 3 x 10 ⁵ operations
DC voltage endurance at rated load DC-1	10 ⁵ operations
Operating frequency at rated load DC-1	≤ 300 operations / h
Operating frequency at rated load AC-1	≤ 600 operations / h
Conductor cross section coil /contacts	Stranded wire 2.5 mm ² / 6 mm ²
Max. Screw torque coil /contacts	0.6 Nm / 1.2 Nm
Ingress protection degree	IP 20
Weight	140 g

Standard types

UC (AC / DC) 50 / 60 Hz, 24, 36, 230

2NO	RAC20-200/UC ...V
1NO + 1NC	RAC20-110/UC ...V
2NC	RAC20-020/UC ...V

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

Accessories

Sealing cover:	RIC-SEAL 20
Spacer:	RIC-DIST

Samples of lamp loads

	Number of lamps
Incandescent lamps 230 V / 100 W	20
Fluorescent lamps not corrected 230 V / 36 W	17
Fluorescent lamps electronic ballast units 36 W	10

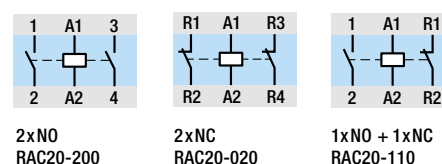
Mounting information

If multiple contactors are mounted side by side, spacers (RIC DIST) have to be inserted for the purpose of heat dissipation.

Example: Ambient temperature up to 40°C: 1 spacer after 3 RAC // 40...55°C: 1 spacer after 2 RAC.



Connection diagram



Coil circuit

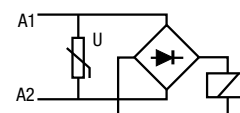
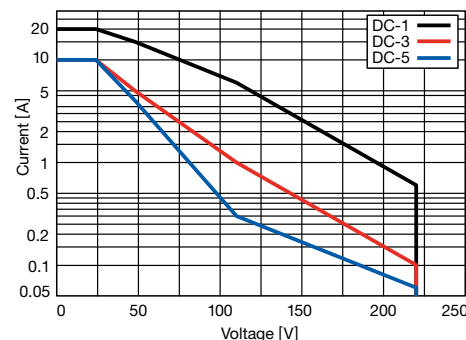
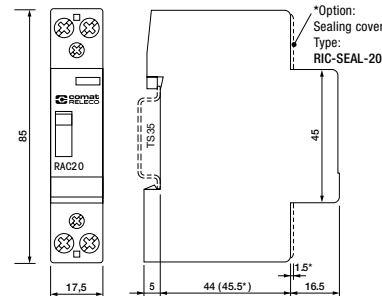


Fig. 1 DC load limit curve DC-1



Dimensions [mm]



Technical approvals, conformities

IEC/EN 60947-4-1, VDE 0660
 IEC/EN 60947-5-1
 IEC/EN 61095, VDE 0637

RAC25

25 A, AC/DC control voltage, silent operation
DIN Rail mounting according to DIN 43 880



Type: RAC25-xxx/ ...V

Hum-free installation contactor, 4 contacts, 4 NO, 4 NC, 2 NO-2 NC types available
 Manual actuating and locking

Rated operational power AC-1	Single phase: 5.4 kW/230 V, 0.6 A/220 V DC-1
	3 phase 230 V: 9 kW
	3 phase 400 V: 16 kW
Recommended minimum contact load	50 mA / 24 V

Contacts

Material	AgNi
Rated operational current	25 A
Max. inrush current (100ms)	50 A
Max. switching voltage	400 V
Max. AC load 3 phase AC-1, AC-7a	9 kW / 230 V, 16 kW / 400 V
AC-3	2.2 kW / 230 V, 4 kW / 400 V
Max. DC load 24V/220V DC-1 (Fig. 1)	600 W / 130 V

Control input V_n =

	UC 24 V	UC 36 V	UC 230 V
Operating voltage range [V]	20.4 ... 26.4	30.6 ... 39.6	195 ... 253
Typ. pick up voltage [V]	17	25	160
Typ. release voltage [V]	7	11	70
Power consumption [W]	2.6	2.6	2.6
Inductive turn-off voltage	None	None	None
Surge immunity EN 6100-4-5	2 kV	2 kV	2 kV

Insulation

Rated insulation voltage	440 V
Rated impulse withstand voltage	4 kV
Min. clearance of open contact	3.6 mm

General Specifications

Ambient temperature storage	-30 ... 80 °C
operation, Spacer after 2 contactors side by side	-5 ... 55 °C
operation, Spacer after 3 contactors side by side	-5 ... 40 °C
Pick-up time	15 ... 45 ms
Release time	20 ... 70 ms
Mechanical life	≥ 3 x 10 ⁶ operations
AC voltage endurance at rated load AC-3, AC-7b	≥ 5 x 10 ⁵ operations
DC voltage endurance at rated load DC-1	10 ⁵ operations
Operating frequency at rated load DC-1	≤ 300 operations / h
Operating frequency at rated load AC-1, AC-3	≤ 600 operations / h
Conductor cross section coil / contacts terminals	Stranded wire 2.5 mm ² / 6 mm ²
Max. Screw torque coil / contacts	0.6 Nm / 1.2 Nm
Ingress protection degree	IP 20
Weight	270 g

Standard types

UC (AC / DC) 50 / 60 Hz, 24, 36, 230	4NO	RAC25-400/UC ...V
	2NO + 2NC	RAC25-220/UC ...V
	4NC	RAC25-040/UC ...V

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

Accessories

Sealing cover:	RIC-SEAL 25
Spacer:	RIC-DIST

Samples of lamp loads

	Number of lamps
Incandescent lamps 230 V/ 100 W	20
Fluorescent lamps not corrected 230 V/ 36 W	20
Fluorescent lamps electronic ballast units 36 W	14

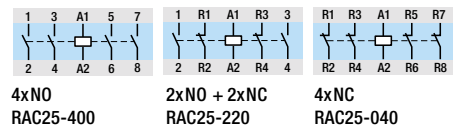
Mounting information

If multiple contactors are mounted side by side, spacers (RIC DIST) have to be inserted for the purpose of heat dissipation.

Example: Ambient temperature up to 40°C: 1 spacer after 3 RAC // 40...55°C: 1 spacer after 2 RAC.



Connection diagram



Coil circuit

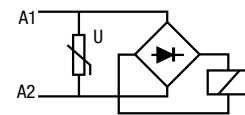
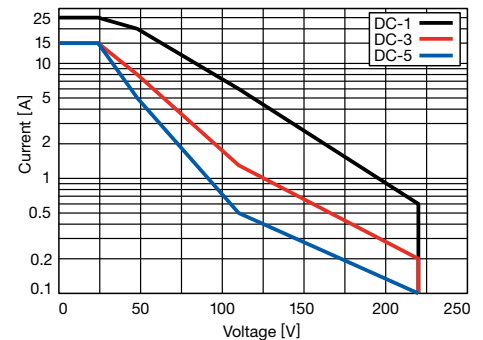
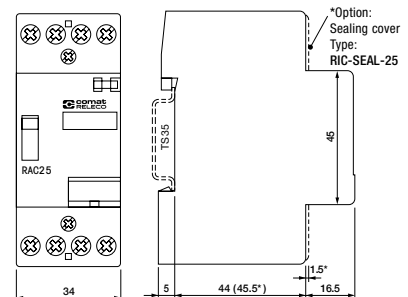


Fig. 1 DC load limit curve DC-1



Dimensions [mm]



Technical approvals, conformities

CE **RoHS**
 IEC/EN 60947-4-1
 IEC/EN 60947-5-1
 IEC/EN 61095

RBC20

20 A, AC/DC control voltage, silent operation
DIN rail mounting according to DIN 43 880



Type: RBC20-xxx/AC230V

Bistable installation contactor, 2 NO, 1 NO-1 NC types available
 Manually switchable

Rated operational power	4 kW / 230 V AC-1, 0.5 A / 220 V DC-1
Recommended minimum contact load	100 mA / 10 V

Contacts

Material	AgNi
Rated operational current	20 A
Max. inrush current (100ms)	50 A
Max. switching voltage	440 V
Max. AC load AC-1, AC-7a	4 kW / 230 V
AC-3	1.3 kW /230 V (NO contact only)
Max. DC load 24 V / 220 V DC-1 (Fig. 1)	480 W / 110 W

Control input V_n =

AC 230 V

Operating voltage range [V]	10 ... 440
Typ. pick up voltage [V]	160
Typ. release voltage [V]	70
Power consumption [W]	4
Inductive turn-off voltage	None
Surge immunity EN 6100-4-5	2 kV

Insulation

Rated insulation voltage	440 V
Rated impulse withstand voltage	4 kV
Min. clearance of open contact	3 mm

General Specifications

Ambient temperature storage	-30 ... 80 °C
operation	-25 ... 55 °C
Pick-up time	15 ... 45 ms
Release time	20 ... 50 ms
Mechanical life	10 ⁶ operations
AC voltage endurance at rated load AC-3, AC-7b	10 ⁵ operations
DC voltage endurance at rated load DC-1	10 ⁵ operations
Operating frequency at rated load DC-1	≤ 900 operations / h
Operating frequency at rated load AC-1	≤ 900 operations / h
Conductor cross section coil /contacts	Stranded wire 4 mm ² / 10 mm ²
Max. Screw torque coil /contacts	0.6 Nm / 1.2 Nm
Ingress protection degree	IP 20
Weight	132 g

Standard types

UC (AC / DC) 50 / 60 Hz, 24, 36, 230

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

2NO	RBC20-200/AC230V
1NO + 1NC	RBC20-110/AC230V

Accessories

Auxiliary contact bloc: **RBC-AUX..**

Samples of lamp loads

Incandescent lamps 230 V / 100 W	20
Fluorescent lamps not corrected 230 V / 36 W	29
Fluorescent lamps electronic ballast units 36 W	38

Connection diagram

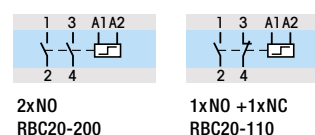
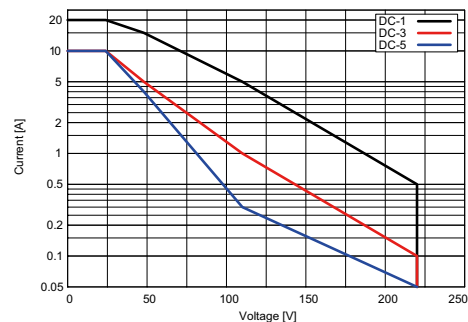
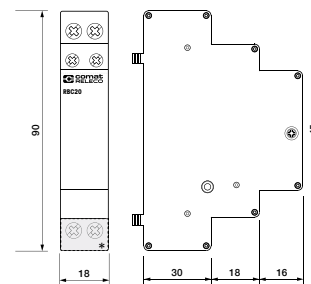


Fig. 1 DC load limit curve DC-1



Dimensions [mm]



Technical approvals, conformities

IEC/EN 60947-4-1, VDE 0660
 IEC/EN 60947-5-1
 IEC/EN 61095, VDE 0637

Mounting information

If multiple contactors are mounted side by side, spacers (RIC DIST) have to be inserted for the purpose of heat dissipation.

Example: Ambient temperature up to 40°C: 1 spacer after 3 RBC // 40...55°C: 1 spacer after 2 RBC.

RBC32

32 A, AC/DC control voltage, silent operation
DIN Rail mounting according to DIN 43 880



Type: RBC32-xxx/AC230V

Hum-free installation contactor, 4 contacts, 4 NO, 2 NO-2 NC types available

Rated operational power AC-1	Single phase: 5.4 kW/230 V, 0.5 A/220 V DC-1
	3 phase 230 V: 9 kW
	3 phase 400 V: 16 kW
Recommended minimum contact load	100 mA / 10 V

Contacts

Material	AgNi
Rated operational current	32 A
Max. inrush current (100ms)	50 A
Max. switching voltage	440 V
Max. AC load 3 phase AC-1, AC-7a	9 kW / 230 V, 16 kW / 400 V
AC-3	2.2 kW / 230 V, 4 kW / 400 V
Max. DC load 24V/220V DC-1 (Fig. 1)	600 W / 130 V

Control input V_n =

AC 230 V

Operating voltage range [V]	195 ... 253
Typ. pick up voltage [V]	160
Typ. release voltage [V]	70
Power consumption [W]	4
Inductive turn-off voltage	None
Surge immunity EN 6100-4-5	2 kV

Insulation

Rated insulation voltage	440 V
Rated impulse withstand voltage	4 kV
Min. clearance of open contact	3 mm

General Specifications

Ambient temperature storage	-30 ... 80 °C
operation	-25 ... 55 °C
Pick-up time	15 ... 45 ms
Release time	20 ... 70 ms
Mechanical life	10 ⁶ operations
AC voltage endurance at rated load AC-3, AC-7b	10 ⁵ operations
DC voltage endurance at rated load DC-1	10 ⁵ operations
Operating frequency at rated load DC-1	≤ 900 operations / h
Operating frequency at rated load AC-1, AC-3	≤ 900 operations / h
Conductor cross section coil / contacts terminals	Stranded wire 4 mm ² / 10 mm ²
Max. Screw torque coil / contacts	0.6 Nm / 1.2 Nm
Ingress protection degree	IP 20
Weight	192 g

Standard types

UC (AC / DC) 50 / 60 Hz, 24, 36, 230	4NO	RBC32-400/AC230V
„...“ enter the voltage for full type designation	2NO + 2NC	RBC32-220/AC230V

Accessories

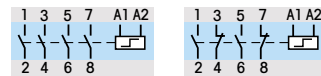
Auxiliary contact bloc:	RBC-AUX..
-------------------------	------------------

Samples of lamp loads

Number of lamps	
Incandescent lamps 230 V/ 100 W	35
Fluorescent lamps not corrected 230 V/ 36 W	57
Fluorescent lamps electronic ballast units 36 W	75



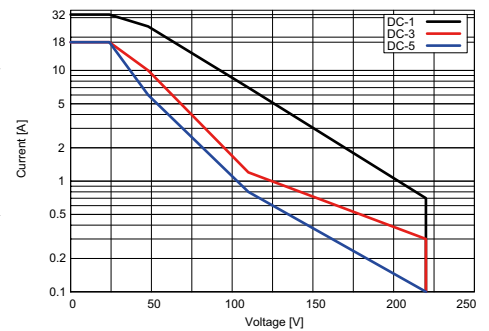
Connection diagram



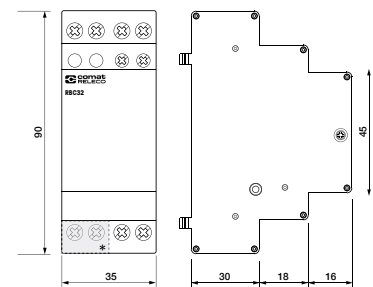
4xNO
RBC32-400

2xNO + 2xNC
RBC32-220

Fig. 1 DC load limit curve DC-1



Dimensions [mm]



Technical approvals, conformities



IEC/EN 60947-4-1
 IEC/EN 60947-5-1
 IEC/EN 61095

Mounting information
 If multiple contactors are mounted side by side, spacers (RBC DIST) have to be inserted for the purpose of heat dissipation.
Example: Ambient temperature up to 40°C: 1 spacer after 3 RIC // 40...55°C: 1 spacer after 2 RBC.

RBC-AUX

**4 A auxiliary contact bloc with 2 double contacts,
2 different combinations of NO / NC contacts**



Type: RBC AUXxx

2 double contacts, 2 NO, 1 NC-1 NO types available

Maximum contact load AC-15	4 A / 230 V
Recommended minimum contact load	5 mA / 12 V

Contacts

Material	AgNi
Rated operational current AC-15	4 A / 230 V
Max. switching voltage	250 V

Insulation

Rated insulation voltage	250 V
Rated impulse withstand voltage	4 kV

Specifications

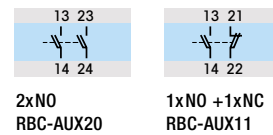
Ambient temperature storage / operation	-30 ... 80 °C / -25 ... 55 °C
Operating frequency at rated load	≤ 600 operations / h
Conductor cross section	Stranded wire 4 mm ²
Max. Screw torque	0.8 Nm
Ingress protection degree	IP 20
Weight	30 g

Standard types

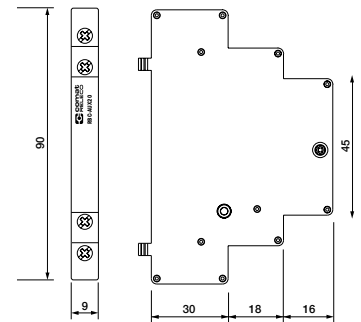
2NO	RBC-AUX20
1NO + 1NC	RBC-AUX11



Connection diagram



Dimensions [mm]



Technical approvals, conformities

CE **RoHS**
IEC/EN 60947-4-1
IEC/EN 60947-5-1
IEC/EN 61095

