

Installation contactors



installation contactors

- are built in consumer devices operating in the electrical installations in: dwellings, business premises, hotels, hospitals, shopping centres, sport centres, production halls, warehouses, public places,
- for remote switching and automatic control of electric devices and equipment: 1-phase and 3-phase motors, different pumps, air-conditioning, electric heating, lighting.



Contactors RIK

RIK21



three-pole

- ❶ RIK20, RIK25, RIK40, RIK63: contactors with a varistor for overvoltage protection and a rectifier enable DC and AC voltage control
- ❷ RIKN available in versions: RIKN-20 (2 NO) and RIKN-11 (1 NO + 1 NC)
- ❸ RIKN can not be mounted on contactors RIK20
- ❹ RIKN increase by 9 mm the width of contactors RIK25, RIK40, RIK63
- ❺ Recommended ventilation distance between group of contactors mounted side-by-side is 0,5 module width (9 mm)
- ❻ The data for 1-phase power are valid for contactors RIK...22 (2 NO + 2 NC)

features

- Control coil voltages of contactors:
 - **RIK21:**
AC: 24 V, 230 V AC: 50/60 Hz,
 - **RIK20 ❶, RIK25 ❶, RIK40 ❶, RIK63 ❶:**
AC/DC: 24 V, 230 V AC: 50/60 Hz,
- Setting up contacts of contactors:
 - **RIK20, RIK25, RIK40, RIK63:**
can be used as main or auxiliary contacts,
 - **RIK25, RIK40, RIK63:**
additional auxiliary contacts **RIKN ❷**,
mounted on the side of the contactor.
- Silent operation.
- Protection against direct contact IP 20.
- Compliance with standards:
IEC/EN 61095, IEC/EN 60947-4-1,
IEC/EN 60947-5-1, VDE 0660, VDE 0637.
- Recognitions, certifications, directives:
RoHS,

General data

Mechanical life (cycles)	3 x 10 ⁶	
Module width	2	
Dimensions (L x W x H)	59,5 x 35 x 57 mm	
Weight	170 g	
Ambient temperature	storage	-30...+80 °C
	operating	-5...+55 °C
Cover protection category (PN-EN 60529)	IP 20	
Number of contactors	≤ +40 °C	no limitation
mounted side-by-side ❺	+40...+55 °C	
Max. operating frequency	DC1 AC1 / AC3 / AC5b / AC6b AC15 no load	300 cycles/hour 600 cycles/hour 1 200 cycles/hour 3 000 cycles/hour
Contact reliability	17 V (≥ 50 mA)	
Min. distance of open contacts	3,6 mm	
Power dissipation per pole	2 W	
Overvoltage protection	—	
Overload current withstand capability	40 A	
Max. back-up fuse for short-circuit protection gL (coordination type 2) ❶	20 A	

Output circuit – main contacts data

Insulation rated voltage U_i		415 V
Rated surge voltage U_{imp}		4 000 V
Rated thermal current I_{th}		20 A
Rated operational voltage U_e		400 V
Rated frequency f		50/60 Hz
AC1 / AC7a		
Rated operational current I_e		20 A
Operational power P_e		
• 1-phase motor	230 V	4 kW
• 3-phase motor	230 V	7,5 kW
	400 V	13 kW
Electrical life (cycles)		2 x 10 ⁵
AC3 / AC7b		
Rated operational current I_e		5 A
Operational power P_e		
• 1-phase motor	230 V	0,37 kW
• 3-phase motor	230 V	1,1 kW
	400 V	2,2 kW
Electrical life (cycles)		3 x 10 ⁵



RIK20**double-pole****RIK25****four-pole****RIK40****four-pole****RIK63****four-pole****RIKN****auxiliary contacts ②**

3 x 10 ⁶	3 x 10 ⁶	3 x 10 ⁶	3 x 10 ⁶	3 x 10 ⁶
1 ③	2	3	3	0,5
85 x 17,5 x 65 mm	85 x 35 x 65 mm ④	84 x 53,5 x 65,5 mm ④	84 x 53,5 x 65,5 mm ④	84 x 9 x 60 mm
130 g	240 g	350 g	350 g	35 g
-30...+80 °C	-30...+80 °C	-30...+80 °C	-30...+80 °C	-30...+80 °C
-5...+55 °C	-5...+55 °C	-5...+55 °C	-5...+55 °C	-5...+55 °C
IP 20	IP 20	IP 20	IP 20	IP 20
max. 3	max. 3	no limitation	no limitation	④
max. 2	max. 2			
300 cycles/hour 600 cycles/hour 600 cycles/hour 3 000 cycles/hour	300 cycles/hour 600 cycles/hour 600 cycles/hour 3 000 cycles/hour	300 cycles/hour 600 cycles/hour 1 200 cycles/hour 3 000 cycles/hour	300 cycles/hour 600 cycles/hour 1 200 cycles/hour 3 000 cycles/hour	— — 1 200 cycles/hour 3 000 cycles/hour
17 V (≥ 50 mA)	17 V (≥ 50 mA)	17 V (≥ 50 mA)	17 V (≥ 50 mA)	12 V (≥ 5 mA)
3,6 mm	3,6 mm	3,6 mm	3,6 mm	4 mm
1,7 W	2,2 W	4 W	8 W	0,3 W
430 V	430 V	430 V	430 V	—
72 A	68 A	176 A	240 A	—
20 A	25 A	63 A	80 A	6 A
230 V	440 V	440 V	440 V	500 V
4 000 V	4 000 V	4 000 V	4 000 V	4 000 V
20 A	25 A	40 A	63 A	6 A
230 V	400 V	400 V	400 V	230 V, 400 V
50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
non-inductive or slightly inductive loads, resistance furnaces, heaters / slightly inductive loads in household appliances (mixers, blenders)				
20 A	25 A	40 A	63 A	—
4 kW	5,4 kW	8,7 kW	13,3 kW	—
—	9 kW	16 kW	24 kW	—
—	16 kW	26 kW	40 kW	—
2 x 10 ⁵	2 x 10 ⁵	10 ⁵	10 ⁵	—
squirrel-cage motors: starting, switches off motors during running time / motor-loads in household appliances (fans, central vacuum)				
9 A / 6 A (NO/NC)	8,5 A	22 A	30 A	—
1,3 kW / 0,75 kW (NO/NC)	1,3 kW ⑤	3,7 kW ⑤	5 kW ⑤	—
—	2,2 kW	5,5 kW	8,5 kW	—
—	4 kW	11 kW	15 kW	—
3 x 10 ⁵	5 x 10 ⁵	1,5 x 10 ⁵	1,5 x 10 ⁵	—

Contactors RIK

RIK21



mounting

Installation contactors **RIK** are designed for:

- direct mounting on 35 mm rail mount acc. to PN-EN 60715,
- operational position – see page 11 "Mounting positions",
- application site – mounted in switchboards.



Output circuit – main contacts data

AC6b

Switching of capacitors C	230 V	36 μ F
Electrical life (cycles)		10 ⁵

DC1 (L/R $\leq$ 1 ms)

Rated operational current I_e		
• 1 pole	U _e = 24 V DC	20 A
	U _e = 48 V DC	12 A
	U _e = 60 V DC	6 A
	U _e = 110 V DC	2 A
	U _e = 220 V DC	0,5 A
• 2 poles connected in series	U _e = 24 V DC	20 A
	U _e = 48 V DC	15 A
	U _e = 60 V DC	10 A
	U _e = 110 V DC	4 A
	U _e = 220 V DC	1,5 A
• 3 poles connected in series	U _e = 24 V DC	20 A
	U _e = 48 V DC	20 A
	U _e = 60 V DC	20 A
	U _e = 110 V DC	6 A
	U _e = 220 V DC	2,5 A
• 4 poles connected in series	U _e = 24 V DC	20 A
	U _e = 48 V DC	20 A
	U _e = 60 V DC	20 A
	U _e = 110 V DC	6 A
	U _e = 220 V DC	3,5 A

Electrical life (cycles)	10 ⁵
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DC3 (L/R $\leq$ 2 ms)

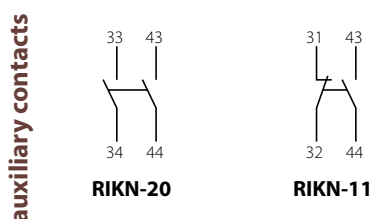
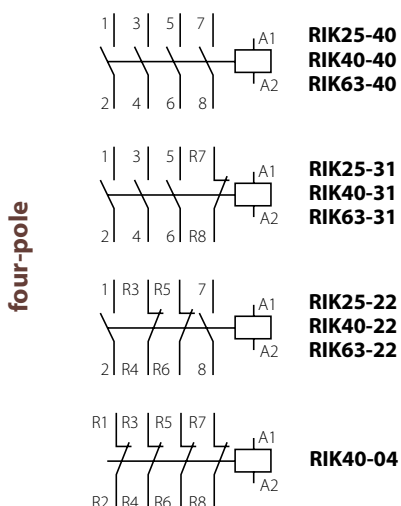
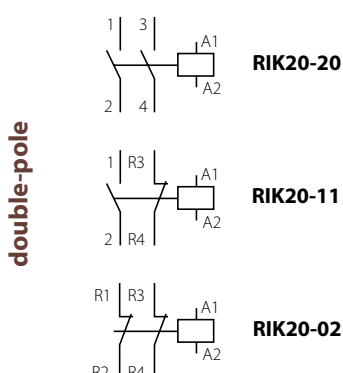
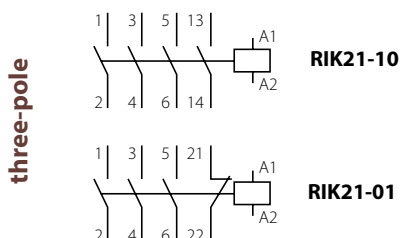
Rated operational current I_e		
• 1 pole	U _e = 24 V DC	10 A
	U _e = 48 V DC	5 A
	U _e = 60 V DC	2 A
	U _e = 110 V DC	1 A
	U _e = 220 V DC	0,1 A
• 2 poles connected in series	U _e = 24 V DC	20 A
	U _e = 48 V DC	10 A
	U _e = 60 V DC	8 A
	U _e = 110 V DC	4 A
	U _e = 220 V DC	0,4 A
• 3 poles connected in series	U _e = 24 V DC	20 A
	U _e = 48 V DC	20 A
	U _e = 60 V DC	15 A
	U _e = 110 V DC	6 A
	U _e = 220 V DC	2,5 A
• 4 poles connected in series	U _e = 24 V DC	20 A
	U _e = 48 V DC	20 A
	U _e = 60 V DC	15 A
	U _e = 110 V DC	6 A
	U _e = 220 V DC	3,5 A

Electrical life (cycles)	10 ⁵
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RIK20	RIK25	RIK40	RIK63	RIKN
switching of capacitor banks				
30 μ F	36 μ F	220 μ F	330 μ F	—
10 ⁵	10 ⁵	10 ⁵	10 ⁵	—
non-inductive or slightly inductive loads, resistance furnaces, heaters				
20 A	25 A	40 A	63 A	—
15 A	20 A	24 A	26 A	—
10 A	15 A	18 A	20 A	—
6 A	6 A	4 A	4 A	—
0,6 A	0,6 A	1,2 A	1,2 A	—
20 A	25 A	40 A	63 A	—
18 A	25 A	38 A	42 A	—
15 A	20 A	32 A	34 A	—
10 A	10 A	10 A	10 A	—
6 A	6 A	8 A	8 A	—
—	25 A	40 A	63 A	—
—	25 A	40 A	63 A	—
—	25 A	40 A	60 A	—
—	20 A	30 A	35 A	—
—	15 A	20 A	30 A	—
—	25 A	40 A	63 A	—
—	25 A	40 A	63 A	—
—	25 A	40 A	63 A	—
—	20 A	40 A	63 A	—
—	15 A	40 A	63 A	—
10 ⁵	10 ⁵	10 ⁵	10 ⁵	—
shunt-motors: starting, plugging, inching, dynamic breaking of motors				
10 A	15 A	22 A	25 A	—
5 A	8 A	10 A	11 A	—
2 A	4 A	5 A	5 A	—
1 A	1,3 A	1,5 A	1,5 A	—
0,1 A	0,2 A	0,3 A	0,3 A	—
20 A	25 A	40 A	45 A	—
10 A	16 A	20 A	22 A	—
8 A	12 A	16 A	18 A	—
4 A	5,5 A	5 A	5 A	—
0,4 A	0,6 A	1 A	1 A	—
—	25 A	40 A	63 A	—
—	25 A	40 A	45 A	—
—	25 A	32 A	35 A	—
—	15 A	15 A	18 A	—
—	3 A	4 A	5 A	—
—	25 A	40 A	63 A	—
—	25 A	40 A	63 A	—
—	25 A	40 A	63 A	—
—	20 A	40 A	63 A	—
—	8 A	10 A	10 A	—
10 ⁵	10 ⁵	10 ⁵	10 ⁵	—

Contactors RIK

connections diagrams ①



- ① RIK20, RIK25, RIK40, RIK63: contactors with a varistor for overvoltage protection and a rectifier enable DC and AC voltage control
- ② RIK20, RIK25: contactors can be controlled by AC voltage with frequency 40 ... 400 Hz

RIK21

Output circuit – main contacts data

DC5 (L/R ≤ 7,5 ms)

Rated operational current I_e		
• 1 pole	U _e = 24 V DC	10 A
	U _e = 48 V DC	4 A
	U _e = 60 V DC	1 A
	U _e = 110 V DC	0,3 A
	U _e = 220 V DC	0,06 A
• 2 poles connected in series	U _e = 24 V DC	20 A
	U _e = 48 V DC	8 A
	U _e = 60 V DC	6 A
	U _e = 110 V DC	2 A
	U _e = 220 V DC	0,2 A
• 3 poles connected in series	U _e = 24 V DC	20 A
	U _e = 48 V DC	20 A
	U _e = 60 V DC	15 A
	U _e = 110 V DC	5 A
	U _e = 220 V DC	1,5 A
• 4 poles connected in series	U _e = 24 V DC	20 A
	U _e = 48 V DC	20 A
	U _e = 60 V DC	15 A
	U _e = 110 V DC	5 A
	U _e = 220 V DC	3 A

Electrical life (cycles) 10⁵

Connections (mounting)

Max. cross section of the cables (rigid / flexible) S	1...2,5 mm ² / 1...2,5 mm ²
Screws (type / head)	M3,5 / PZ2
Max. tightening moment for the terminal	1,2 Nm

Output circuit – auxiliary contacts data

Insulation rated voltage U_i	415 V
Rated surge voltage U_{imp}	4 000 V
Rated thermal current I_{th}	20 A
Rated operational voltage U_e	400 V

AC15

Rated operational current	230 V	6 A
(1-phase) I_e	400 V	4 A
Electrical life (cycles)		3 x 10 ⁵

Input circuit – coil data

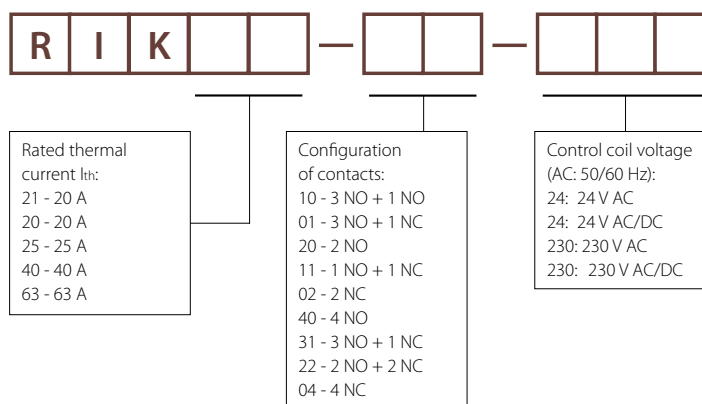
Control voltage U_c		AC: 24 V, 230 V
Range of control voltage U_c		0,85 ... 1,1 U _c
Rated frequency f		AC: 50/60 Hz
Surge immunity test (IEC/EN 61000-4-5)		2 000 V (1,2 / 50 μs)
Coil consumption	switch-on	30 VA / 25 W
	operation	5 VA / 1,5 W
Delays	make	7 ... 20 ms
	break	10 ... 20 ms

Max. cross section of the cables (rigid / flexible) S	1...2,5 mm ² / 1...2,5 mm ²
Screws (type / head)	M3,5 / PZ2
Max. tightening moment for the terminal	0,6 Nm

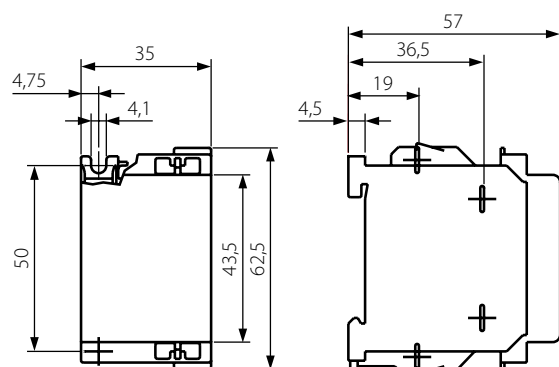
RIK20	RIK25	RIK40	RIK63	RIKN
series-motors: starting, plugging, inching, dynamic breaking of motors				
10 A	15 A	20 A	25 A	—
4 A	5 A	8 A	10 A	—
1 A	3 A	4 A	5 A	—
0,3 A	0,5 A	1 A	1 A	—
0,06 A	0,1 A	0,2 A	0,2 A	—
20 A	25 A	40 A	45 A	—
8 A	15 A	18 A	20 A	—
6 A	10 A	14 A	15 A	—
2 A	4 A	5 A	5 A	—
0,2 A	0,4 A	0,8 A	0,8 A	—
—	25 A	40 A	63 A	—
—	25 A	40 A	44 A	—
—	20 A	28 A	30 A	—
—	12 A	12 A	15 A	—
—	2 A	3 A	4 A	—
—	25 A	40 A	63 A	—
—	25 A	40 A	63 A	—
—	25 A	40 A	60 A	—
—	15 A	35 A	45 A	—
—	5 A	8 A	10 A	—
10 ⁵	10 ⁵	10 ⁵	10 ⁵	—
1...10 mm ² / 1...6 mm ²	1...10 mm ² / 1...6 mm ²	1,5...25 mm ² / 1,5...16 mm ²	1,5...25 mm ² / 1,5...16 mm ²	1...2,5 mm ² / 1...2,5 mm ²
M3,5 / PZ1	M3,5 / PZ1	M5 / PZ2	M5 / PZ2	M3 / PZ1
1,2 Nm	1,2 Nm	3,5 Nm	3,5 Nm	0,6 Nm
230 V	440 V	440 V	440 V	500 V
4 000 V	4 000 V	4 000 V	4 000 V	4 000 V
20 A	25 A	40 A	63 A	6 A
230 V	400 V	400 V	400 V	230 V, 400 V
control of AC electromagnetic loads				
6 A	6 A	6 A	6 A	6 A
—	4 A	4 A	4 A	4 A
3 x 10 ⁵	5 x 10 ⁵	1,5 x 10 ⁵	1,5 x 10 ⁵	0,5 x 10 ⁵
AC/DC ①: 24 V, 230 V	AC/DC ①: 24 V, 230 V	AC/DC ①: 24 V, 230 V	AC/DC ①: 24 V, 230 V	—
0,85 ... 1,1 U _c	0,85 ... 1,1 U _c	0,85 ... 1,1 U _c	0,85 ... 1,1 U _c	—
AC: 50/60 Hz ②	AC: 50/60 Hz ②	AC: 50/60 Hz	AC: 50/60 Hz	—
2 000 V (1,2 / 50 μs)	2 000 V (1,2 / 50 μs)	2 000 V (1,2 / 50 μs)	2 000 V (1,2 / 50 μs)	—
2,1 VA / 2,1 W	2,6 VA / 2,6 W	15,4 VA / 6 W	15,4 VA / 6 W	—
2,1 VA / 2,1 W	2,6 VA / 2,6 W	7,7 VA / 3 W	7,7 VA / 3 W	—
15 ... 45 ms	15 ... 45 ms	10 ... 20 ms	15 ... 20 ms	—
20 ... 50 ms	20 ... 70 ms	10 ... 15 ms	35 ... 45 ms	—
1...2,5 mm ² / 1...2,5 mm ²	1...2,5 mm ² / 1...2,5 mm ²	1...2,5 mm ² / 1...2,5 mm ²	1...2,5 mm ² / 1...2,5 mm ²	—
M3,5 / PZ1	M3,5 / PZ1	M3 / PZ1	M3 / PZ1	—
0,6 Nm	0,6 Nm	0,6 Nm	0,6 Nm	—

Selection table

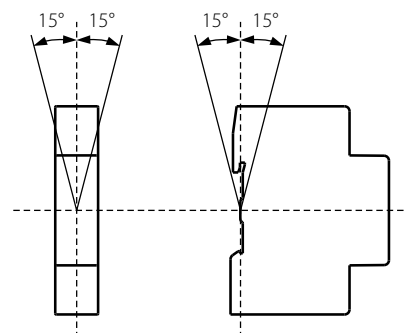
Type of installation contactor	Ordering code of installation contactor	Configuration of contacts	Control coil voltage	Additional auxiliary contacts
RIK21	RIK21-10-24	3 NO + auxiliary contact 1 NO	24 V AC	—
	RIK21-01-24	3 NO + auxiliary contact 1 NC	24 V AC	
	RIK21-10-230	3 NO + auxiliary contact 1 NO	230 V AC	
	RIK21-01-230	3 NO + auxiliary contact 1 NC	230 V AC	
RIK20	RIK20-20-24	2 NO	24 V AC/DC	—
	RIK20-11-24	1 NO + 1 NC	24 V AC/DC	
	RIK20-02-24	2 NC	24 V AC/DC	
	RIK20-20-230	2 NO	230 V AC/DC	
	RIK20-11-230	1 NO + 1 NC	230 V AC/DC	
	RIK20-02-230	2 NC	230 V AC/DC	
RIK25	RIK25-40-24	4 NO	24 V AC/DC	RIKN-20 (2 NO) RIKN-11 (1 NO + 1 NC)
	RIK25-31-24	3 NO + 1 NC	24 V AC/DC	
	RIK25-22-24	2 NO + 2 NC	24 V AC/DC	
	RIK25-40-230	4 NO	230 V AC/DC	
	RIK25-31-230	3 NO + 1 NC	230 V AC/DC	
	RIK25-22-230	2 NO + 2 NC	230 V AC/DC	
RIK40	RIK40-40-24	4 NO	24 V AC/DC	RIKN-20 (2 NO) RIKN-11 (1 NO + 1 NC)
	RIK40-31-24	3 NO + 1 NC	24 V AC/DC	
	RIK40-22-24	2 NO + 2 NC	24 V AC/DC	
	RIK40-04-24	4 NC	24 V AC/DC	
	RIK40-40-230	4 NO	230 V AC/DC	
	RIK40-31-230	3 NO + 1 NC	230 V AC/DC	
	RIK40-22-230	2 NO + 2 NC	230 V AC/DC	
	RIK40-04-230	4 NC	230 V AC/DC	
RIK63	RIK63-40-24	4 NO	24 V AC/DC	RIKN-20 (2 NO) RIKN-11 (1 NO + 1 NC)
	RIK63-31-24	3 NO + 1 NC	24 V AC/DC	
	RIK63-22-24	2 NO + 2 NC	24 V AC/DC	
	RIK63-04-24	4 NC	24 V AC/DC	
	RIK63-40-230	4 NO	230 V AC/DC	
	RIK63-31-230	3 NO + 1 NC	230 V AC/DC	
	RIK63-22-230	2 NO + 2 NC	230 V AC/DC	
	RIK63-04-230	4 NC	230 V AC/DC	



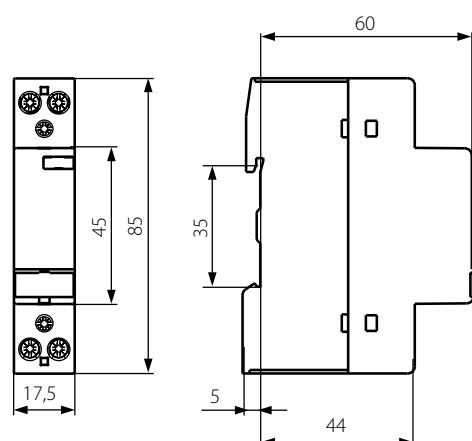
contactors RIK21



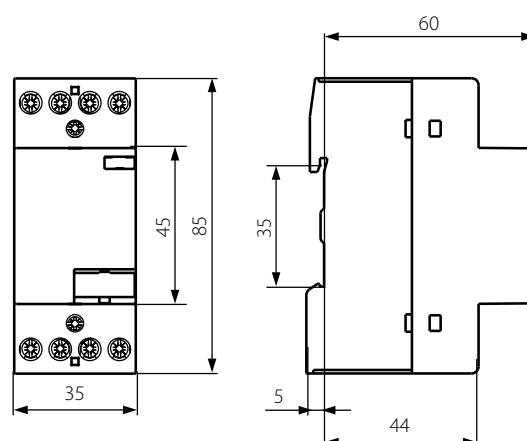
mounting positions RIK20, RIK25, RIK40, RIK63 ⑧



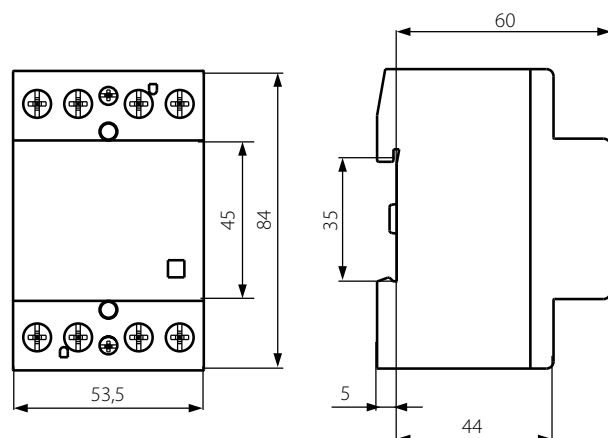
contactors RIK20



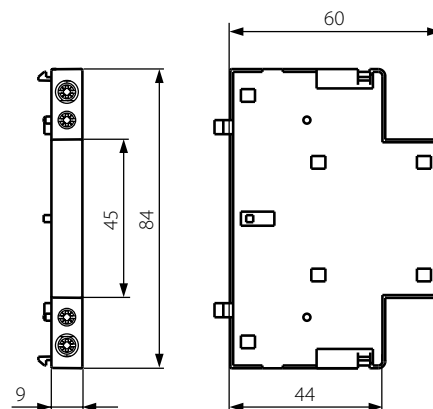
contactors RIK25



contactors RIK40, RIK63

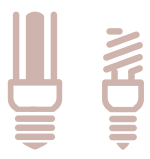


auxiliary contacts RIKN ④



- ④ RIKN increase by 9 mm the width of contactors RIK25, RIK40, RIK63
- ⑧ RIK21: mounting position of contactor is optional

Control of lighting circuits

		Power [W]	Current [A]	Capacitance [μF]	RIK21	RIK20	RIK25	RIK40	RIK63
Incandescent lamps and tungsten halogen lamps									
		15	0,07	—	130	130	130	260	330
		25	0,11	—	80	80	80	160	200
		40	0,18	—	50	50	50	100	125
		60	0,26	—	33	33	33	65	85
		75	0,33	—	26	26	26	53	66
		100	0,44	—	20	20	20	40	50
		150	0,65	—	13	13	13	26	33
		200	0,87	—	10	10	10	20	25
		300	1,3	—	6	6	6	13	16
		500	2,17	—	3	3	3	8	10
		1000	4,35	—	1	1	1	4	5
Energy saving lamps									
		3	0,03	—	50	50	60	150	200
		5	0,04	—	45	45	55	135	180
		7	0,055	—	40	40	50	120	160
		8	0,065	—	35	35	45	110	150
		9	0,075	—	30	30	40	100	140
		10	0,08	—	30	30	40	100	140
		11	0,09	—	30	30	40	100	140
		12	0,1	—	25	25	35	95	120
		14	0,11	—	25	25	35	90	120
		15	0,12	—	20	20	30	85	115
		16	0,13	—	20	20	30	80	105
		18	0,145	—	18	18	26	70	95
		20	0,16	—	17	17	22	65	85
		21	0,17	—	15	15	20	60	80
		23	0,185	—	15	15	20	60	70
		24	0,195	—	15	15	20	55	70
		30	0,16	—	15	15	20	55	70
Metal halide lamps									
	uncorrected	35	0,35	—	18	18	22	43	60
		70	1	—	10	10	12	23	32
		150	1,8	—	5	5	7	12	18
		250	3	—	3	3	4	7	10
		400	3,5	—	3	3	3	6	9
		1000	9,5	—	1	1	1	2	3
		2000	16,5	—	—	—	—	1	1
	parallel correction	35	0,23	6	5	5	6	36	50
		70	0,45	12	2	2	3	18	25
		150	0,75	20	1	1	1	11	15
		250	1,26	33	—	—	—	6	9
		400	2	35	—	—	—	6	8
		1000	5	95	—	—	—	2	3
		2000	10,5	148	—	—	—	1	2
	with electronic control gear ^⑨	20	0,1	—	9	9	9	18	20
		35	0,2	—	6	6	6	11	13
		70	0,36	—	5	5	5	10	12
		150	0,7	—	4	4	4	8	10

⑨ (PCI) + 50...125 In lamp for 0,6 ms

maximum number of lamps on each pole contactor at 230 V 50 Hz

		Power [W]	Current [A]	Capacitance [μF]	RIK21	RIK20	RIK25	RIK40	RIK63	
High-pressure mercury-vapour lamps										
	uncorrected	50	0,61	—	14	14	18	38	55	
		80	0,8	—	10	10	13	29	42	
		125	1,15	—	7	7	9	20	29	
		250	2,15	—	4	4	5	10	15	
		400	3,25	—	2	2	3	7	10	
		700	5,4	—	1	1	2	4	6	
		1000	7,5	—	1	1	1	3	4	
	parallel correction	50	0,28	7	4	4	5	31	47	
		80	0,41	8	4	4	5	27	41	
		125	0,65	10	3	3	4	22	33	
		250	1,22	18	1	1	2	12	18	
		400	1,95	25	1	1	1	9	13	
		700	3,45	45	—	—	—	5	7	
		1000	4,8	60	—	—	—	4	5	
High-pressure sodium-vapour lamps										
	uncorrected	150	1,8	—	5	5	6	17	22	
		250	3	—	3	3	4	10	13	
		400	4,7	—	2	2	2	6	8	
		1000	10,3	—	—	—	1	3	3	
	correction	150	0,77	20	1	1	1	11	16	
		250	1,26	33	—	—	1	6	10	
		400	2	48	—	—	—	4	6	
		1000	5,1	106	—	—	—	2	3	
	with electronic control gear ⑨	20	0,1	—	9	9	9	18	20	
		35	0,2	—	6	6	6	11	13	
		70	0,36	—	5	5	5	10	12	
		150	0,7	—	4	4	4	8	10	
	Low-pressure sodium-vapour lamps									
		uncorrected	18	0,35	—	22	22	27	71	90
35			0,6	—	7	7	9	23	30	
55			0,6	—	7	7	9	23	30	
90			0,9	—	4	4	5	14	19	
135			0,9	—	3	3	4	10	13	
180			0,9	—	3	3	4	10	13	
parallel correction		18	0,35	5	6	6	7	44	66	
		35	0,28	20	1	1	1	11	16	
		55	0,35	20	1	1	1	11	16	
		90	0,55	26	1	1	1	8	12	
		135	0,8	45	—	—	—	4	7	
		180	1	40	—	—	—	5	8	
Transformers for low-voltage tungsten halogen lamps										
		20	—	—	40	40	52	110	174	
	50	—	—	20	20	24	50	80		
	75	—	—	13	13	16	35	54		
	100	—	—	10	10	12	27	43		
	150	—	—	7	7	9	19	29		
	200	—	—	5	5	6	14	23		
	300	—	—	3	3	4	9	14		

 (PCI) + 50...125 In lamp for 0,6 ms

Control of lighting circuits



	Power [W]	Current [A]	Capacitance [μF]	RIK21	RIK20	RIK25	RIK40	RIK63
Fluorescent lamps								
uncorrected or series correction	11	0,16	1,3	55	55	70	125	200
	18	0,37	2,7	22	22	24	90	140
	24	0,35	2,5	22	22	24	90	140
	36	0,43	3,4	17	17	20	65	95
	58	0,67	5,3	14	14	17	45	70
	65	0,67	5,3	14	14	17	35	50
	85	0,8	5,3	12	12	15	25	40
lead-lag circuit	2 x 11	0,07	—	2 x 50	2 x 50	2 x 60	2 x 140	2 x 200
	2 x 18	0,11	—	2 x 30	2 x 30	2 x 40	2 x 100	2 x 150
	2 x 24	0,14	—	2 x 24	2 x 24	2 x 31	2 x 78	2 x 118
	2 x 36	0,22	—	2 x 17	2 x 17	2 x 24	2 x 65	2 x 95
	2 x 58	0,35	—	2 x 10	2 x 10	2 x 14	2 x 40	2 x 60
	2 x 65	0,35	—	2 x 9	2 x 9	2 x 13	2 x 30	2 x 45
	2 x 85	0,47	—	2 x 6	2 x 6	2 x 10	2 x 20	2 x 30
parallel correction	11	0,16	3,5	9	9	10	62	94
	18	0,37	4,5	7	7	8	48	73
	24	0,35	4,5	7	7	8	48	73
	36	0,34	4,5	7	7	8	48	73
	58	0,67	7	4	4	5	31	47
	65	0,67	7	4	4	5	31	47
	85	0,8	8	3	3	4	27	41
with electronic control gear (ECG)	18	0,09	—	25	25	35	100	140
	36	0,16	—	15	15	20	52	75
	58	0,25	—	14	14	19	50	72
	2 x 18	0,17	—	2 x 12	2 x 12	2 x 17	2 x 50	2 x 70
	2 x 36	0,32	—	2 x 7	2 x 7	2 x 10	2 x 26	2 x 38
	2 x 58	0,49	—	2 x 7	2 x 7	2 x 9	2 x 25	2 x 36
T5 with electronic control gear (ECG)	22	0,11	FC	22	22	30	80	110
	40	0,21		12	12	15	40	60
	55	0,28		8	8	12	30	45
	14	0,08	HE	30	30	40	105	150
	21	0,11		22	22	30	80	115
	28	0,14		18	18	22	60	90
	35	0,18		14	14	18	48	70
	24	0,12	HO	20	20	26	70	100
	39	0,2		12	12	16	42	62
	49	0,24		10	10	14	35	52
	54	0,27		9	9	13	32	47
	80	0,39		6	6	8	22	32
	2 x 22	0,23	2 x FC	2 x 11	2 x 11	2 x 15	2 x 40	2 x 55
	2 x 40	0,42		2 x 6	2 x 6	2 x 7	2 x 20	2 x 30
	2 x 55	0,55		2 x 4	2 x 4	2 x 6	2 x 15	2 x 22
	2 x 14	0,15	2 x HE	2 x 15	2 x 15	2 x 20	2 x 52	2 x 75
	2 x 21	0,22		2 x 11	2 x 11	2 x 15	2 x 40	2 x 57
	2 x 28	0,28		2 x 9	2 x 9	2 x 11	2 x 20	2 x 45
	2 x 35	0,36		2 x 7	2 x 7	2 x 9	2 x 24	2 x 35
	2 x 24	0,24	2 x HO	2 x 10	2 x 10	2 x 13	2 x 35	2 x 50
	2 x 39	0,39		2 x 6	2 x 6	2 x 8	2 x 21	2 x 31
	2 x 49	0,48		2 x 5	2 x 5	2 x 7	2 x 17	2 x 26
	2 x 54	0,54		2 x 4	2 x 4	2 x 6	2 x 16	2 x 23
	2 x 80	0,74		2 x 3	2 x 3	2 x 4	2 x 11	2 x 16



maximum number of lamps on each pole contactor at 230 V 50 Hz

	Power [W]	Current [A]	Capacitance [μF]	RIK21	RIK20	RIK25	RIK40	RIK63
Compact fluorescent lamps								
series correction	10	0,19	1,4	50	50	60	105	165
	13	0,18	1,4	50	50	60	105	165
	18	0,23	1,7	40	40	50	85	135
	26	0,33	2,5	30	30	35	60	95
	18	0,38	2,7	25	25	30	50	80
	24	0,35	2,7	25	25	30	50	80
	36	0,44	3,4	20	20	25	45	70
parallel correction	5	0,18	2,2	13	13	16	100	150
	7	0,18	2,1	14	14	17	104	157
	9	0,17	2	15	15	18	110	165
	10	0,19	2,2	13	13	16	100	150
	11	0,16	1,7	17	17	21	125	194
	13	0,18	1,8	16	16	20	120	183
	18	0,23	2,3	13	13	15	95	143
	26	0,33	3,3	9	9	11	66	100
	18	0,38	4,2	7	7	8	52	78
	24	0,35	3,6	8	8	10	61	91
	36	0,44	4,4	6	6	8	50	75
		5	0,05	—	45	45	63	180
7		0,05	—	45	45	63	180	250
9		0,07	—	32	32	45	128	180
10		0,07	—	32	32	45	128	180
11		0,07	—	32	32	45	128	180
13		0,07	—	32	32	45	128	180
18		0,22	—	10	10	14	40	57
24		0,22	—	10	10	14	40	57
26		0,22	—	10	10	14	40	57
32		0,22	—	10	10	14	40	57
36		0,22	—	10	10	14	40	57
40		0,22	—	10	10	14	40	57
42		0,22	—	10	10	14	40	57
55		0,28	—	8	8	11	32	45
57		0,28	—	8	8	11	32	45
70		0,35	—	6	6	9	25	36
80		0,41	—	5	5	8	22	30
120		0,58	—	4	4	5	15	22
2 x 9		0,11	—	2 x 16	2 x 16	2 x 22	2 x 90	2 x 125
2 x 10		0,11	—	2 x 16	2 x 16	2 x 22	2 x 90	2 x 125
2 x 11		0,11	—	2 x 16	2 x 16	2 x 22	2 x 90	2 x 125
2 x 13		0,11	—	2 x 16	2 x 16	2 x 22	2 x 90	2 x 125
2 x 18		0,3	—	2 x 5	2 x 5	2 x 7	2 x 20	2 x 28
2 x 24		0,31	—	2 x 5	2 x 5	2 x 7	2 x 20	2 x 28
2 x 26		0,31	—	2 x 5	2 x 5	2 x 7	2 x 20	2 x 28
2 x 32		0,31	—	2 x 5	2 x 5	2 x 7	2 x 20	2 x 28
2 x 36		0,31	—	2 x 5	2 x 5	2 x 7	2 x 20	2 x 28
2 x 40		0,4	—	2 x 4	2 x 4	2 x 6	2 x 18	2 x 26
2 x 42		0,4	—	2 x 4	2 x 4	2 x 6	2 x 18	2 x 26
2 x 55		0,55	—	2 x 3	2 x 3	2 x 5	2 x 16	2 x 22
2 x 57	0,55	—	2 x 3	2 x 3	2 x 5	2 x 16	2 x 22	