

INSTALLATION CONTACTORS RSI

Installation contactors AC

- For switching of electrical circuits by application of control voltage on the coil.
- For control of appliances up to 63 A - electric boilers, convection heaters, water-heaters, storage heaters and also lighting circuits.
- Control voltage: AC 24 V, AC 230 V.
- Visual indication at power up.



Installation contactors 20 A

Arrangement of contacts ¹⁾	Rated control voltage U _c	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
10	AC 230 V	RSI-20-10-A230	OEZ:36609	1	0.130	1
20	AC 230 V	RSI-20-20-A230	OEZ:36610	1	0.130	1
	AC 24 V	RSI-20-20-A024	OEZ:36614	1	0.130	1
11	AC 230 V	RSI-20-11-A230	OEZ:36611	1	0.130	1
	AC 24 V	RSI-20-11-A024	OEZ:36615	1	0.130	1
02	AC 230 V	RSI-20-02-A230	OEZ:36612	1	0.130	1
	AC 24 V	RSI-20-02-A024	OEZ:36616	1	0.130	1

¹⁾ Each digit indicates successively the number of make and break contacts.

Installation contactors 25 A

Arrangement of contacts ¹⁾	Rated control voltage U _c	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
40	AC 230 V	RSI-25-40-A230	OEZ:36617	2	0.230	1
	AC 24 V	RSI-25-40-A024	OEZ:36621	2	0.230	1
31	AC 230 V	RSI-25-31-A230	OEZ:36618	2	0.230	1
	AC 24 V	RSI-25-31-A024	OEZ:36622	2	0.230	1
04	AC 230 V	RSI-25-04-A230	OEZ:36620	2	0.230	1

¹⁾ Each digit indicates successively the number of make and break contacts.

Installation contactors 32 A

Arrangement of contacts ¹⁾	Rated control voltage U _c	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
20	AC 230 V	RSI-32-20-A230	OEZ:43273	1	0.130	1
11	AC 230 V	RSI-32-11-A230	OEZ:43274	1	0.130	1
02	AC 230 V	RSI-32-02-A230	OEZ:43275	1	0.130	1
40	AC 230 V	RSI-32-40-A230	OEZ:43276	2	0.260	1
31	AC 230 V	RSI-32-31-A230	OEZ:43277	2	0.260	1
04	AC 230 V	RSI-32-04-A230	OEZ:43278	2	0.260	1

¹⁾ Each digit indicates successively the number of make and break contacts.

Installation contactors 40 A

Arrangement of contacts ¹⁾	Rated control voltage U _c	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
40	AC 230 V	RSI-40-40-A230	OEZ:36625	3	0.380	1
	AC 24 V	RSI-40-40-A024	OEZ:36629	3	0.380	1
31	AC 230 V	RSI-40-31-A230	OEZ:36626	3	0.380	1
	AC 24 V	RSI-40-31-A024	OEZ:36630	3	0.380	1
04	AC 230 V	RSI-40-04-A230	OEZ:36628	3	0.380	1

¹⁾ Each digit indicates successively the number of make and break contacts.

Installation contactors 63 A

Arrangement of contacts ¹⁾	Rated control voltage U _c	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
40	AC 230 V	RSI-63-40-A230	OEZ:36633	3	0.380	1
	AC 24 V	RSI-63-40-A024	OEZ:36637	3	0.380	1
31	AC 230 V	RSI-63-31-A230	OEZ:36634	3	0.380	1
	AC 24 V	RSI-63-31-A024	OEZ:36638	3	0.380	1
04	AC 230 V	RSI-63-04-A230	OEZ:36636	3	0.380	1

¹⁾ Each digit indicates successively the number of make and break contacts.

INSTALLATION CONTACTORS RSI



RSI-20-A230-M



RSI-25-40-A230-M



RSI-40-40-A230-M

Installation contactors AC with manual control

- For switching of electrical circuits by application of control voltage on the coil.
- For control of appliances up to 63 A - electric boilers, convection heaters, water-heaters, storage heaters and also lighting circuits.
- Control voltage: AC 24 V, AC 230 V.
- Visual indication at power up.
- They are equipped with change-over switch with three positions:
 - position „AUTO“ - common function of the contactor
 - position „I“ - contactor in position ON, after application of supply voltage the contactors goes to AUTO position automatically
 - position „0“ - contactor coil circuit is interrupted.

Installation contactors 20 A

Arrangement of contacts ¹⁾	Rated control voltage U _c	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
20	AC 230 V	RSI-20-20-A230-M	OEZ:36641	1	0.135	1
	AC 24 V	RSI-20-20-A024-M	OEZ:36643	1	0.135	1
11	AC 230 V	RSI-20-11-A230-M	OEZ:36642	1	0.135	1
	AC 24 V	RSI-20-11-A024-M	OEZ:36644	1	0.135	1

¹⁾ Each digit indicates successively the number of make and break contacts.

Installation contactors 25 A

Arrangement of contacts ¹⁾	Rated control voltage U _c	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
40	AC 230 V	RSI-25-40-A230-M	OEZ:36645	2	0.235	1
	AC 24 V	RSI-25-40-A024-M	OEZ:36647	2	0.235	1
31	AC 230 V	RSI-25-31-A230-M	OEZ:36646	2	0.235	1
	AC 24 V	RSI-25-31-A024-M	OEZ:36648	2	0.235	1

¹⁾ Each digit indicates successively the number of make and break contacts.

Installation contactors 40 A

Arrangement of contacts ¹⁾	Rated control voltage U _c	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
40	AC 230 V	RSI-40-40-A230-M	OEZ:36649	3	0.390	1
	AC 24 V	RSI-40-40-A024-M	OEZ:36651	3	0.390	1
31	AC 230 V	RSI-40-31-A230-M	OEZ:36650	3	0.390	1
	AC 24 V	RSI-40-31-A024-M	OEZ:36652	3	0.390	1

¹⁾ Each digit indicates successively the number of make and break contacts.

Installation contactors 63 A

Arrangement of contacts ¹⁾	Rated control voltage U _c	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
40	AC 230 V	RSI-63-40-A230-M	OEZ:36653	3	0.390	1

¹⁾ Each digit indicates successively the number of make and break contacts.

INSTALLATION CONTACTORS RSI



Installation contactors AC/DC

- For switching of electrical circuits by application of control voltage on the coil.
- For control of appliances up to 63 A - electric boilers, convection heaters, water-heaters, storage heaters and also lighting circuits.
- Control voltage: AC/DC 24 V, AC/DC 230 V.
- Visual indication at power up.
- In closed state they do not „hum“.

Installation contactors 20 A

Arrangement of contacts ¹⁾	Rated control voltage U _c	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
10	AC/DC 230 V	RSI-20-10-X230	OEZ:43104	1	0.130	1
20	AC/DC 230 V	RSI-20-20-X230	OEZ:43105	1	0.130	1
	AC/DC 24 V	RSI-20-20-X024	OEZ:43106	1	0.130	1
11	AC/DC 230 V	RSI-20-11-X230	OEZ:43107	1	0.130	1
	AC/DC 24 V	RSI-20-11-X024	OEZ:43108	1	0.130	1
02	AC/DC 230 V	RSI-20-02-X230	OEZ:43109	1	0.130	1
	AC/DC 24 V	RSI-20-02-X024	OEZ:43110	1	0.130	1

¹⁾ Each digit indicates successively the number of make and break contacts.

Installation contactors 25 A

Arrangement of contacts ¹⁾	Rated control voltage U _c	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
40	AC/DC 230 V	RSI-25-40-X230	OEZ:43115	2	0.240	1
	AC/DC 24 V	RSI-25-40-X024	OEZ:43116	2	0.240	1
31	AC/DC 230 V	RSI-25-31-X230	OEZ:43117	2	0.240	1
	AC/DC 24 V	RSI-25-31-X024	OEZ:43118	2	0.240	1
04	AC/DC 230 V	RSI-25-04-X230	OEZ:43119	2	0.240	1

¹⁾ Each digit indicates successively the number of make and break contacts.

Installation contactors 32 A

Arrangement of contacts ¹⁾	Rated control voltage U _c	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
20	AC/DC 230 V	RSI-32-20-X230	OEZ:43121	1	0.130	1
11	AC/DC 230 V	RSI-32-11-X230	OEZ:43122	1	0.130	1
02	AC/DC 230 V	RSI-32-02-X230	OEZ:43123	1	0.130	1
40	AC/DC 230 V	RSI-32-40-X230	OEZ:43124	2	0.260	1
31	AC/DC 230 V	RSI-32-31-X230	OEZ:43125	2	0.260	1
04	AC/DC 230 V	RSI-32-04-X230	OEZ:43126	2	0.260	1

¹⁾ Each digit indicates successively the number of make and break contacts.

Installation contactors 40 A

Arrangement of contacts ¹⁾	Rated control voltage U _c	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
40	AC/DC 230 V	RSI-40-40-X230	OEZ:43127	3	0.420	1
	AC/DC 24 V	RSI-40-40-X024	OEZ:43128	3	0.420	1
31	AC/DC 230 V	RSI-40-31-X230	OEZ:43129	3	0.420	1
	AC/DC 24 V	RSI-40-31-X024	OEZ:43130	3	0.420	1
04	AC/DC 230 V	RSI-40-04-X230	OEZ:43131	3	0.420	1

¹⁾ Each digit indicates successively the number of make and break contacts.

Installation contactors 63 A

Arrangement of contacts ¹⁾	Rated control voltage U _c	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
40	AC/DC 230 V	RSI-63-40-X230	OEZ:43132	3	0.420	1
	AC/DC 24 V	RSI-63-40-X024	OEZ:43133	3	0.420	1
31	AC/DC 230 V	RSI-63-31-X230	OEZ:43134	3	0.420	1
	AC/DC 24 V	RSI-63-31-X024	OEZ:43135	3	0.420	1

¹⁾ Each digit indicates successively the number of make and break contacts.

INSTALLATION CONTACTORS RSI



RSI-20-20-X230-M



RSI-25-40-X230-M



PS-RSI-1100

Installation contactors AC/DC with manual control

- For switching of electrical circuits by application of control voltage on the coil.
- For control of appliances up to 63 A - electric boilers, convection heaters, water-heaters, storage heaters and also lighting circuits.
- Control voltage: AC/DC 24 V, AC/DC 230 V.
- Visual light indication at power up.
- In closed state they do not „hum“.
- They are equipped with change-over switch with three positions:
 - position „AUTO“ - common function of the contactor
 - position „I“ - contactor in position ON, after application of supply voltage the contactors goes to AUTO position automatically
 - position „0“ - contactor coil circuit is interrupted.

Installation contactors 20 A

Arrangement of contacts ¹⁾	Rated control voltage U _c	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
20	AC/DC 230 V	RSI-20-20-X230-M	OEZ:43162	1	0.130	1
	AC/DC 24 V	RSI-20-20-X024-M	OEZ:43163	1	0.130	1
11	AC/DC 230 V	RSI-20-11-X230-M	OEZ:43164	1	0.130	1
	AC/DC 24 V	RSI-20-11-X024-M	OEZ:43165	1	0.130	1

¹⁾ Each digit indicates successively the number of make and break contacts.

Installation contactors 25 A

Arrangement of contacts ¹⁾	Rated control voltage U _c	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
40	AC/DC 230 V	RSI-25-40-X230-M	OEZ:43166	2	0.240	1
	AC/DC 24 V	RSI-25-40-X024-M	OEZ:43167	2	0.240	1
31	AC/DC 230 V	RSI-25-31-X230-M	OEZ:43168	2	0.240	1
	AC/DC 24 V	RSI-25-31-X024-M	OEZ:43169	2	0.240	1

¹⁾ Each digit indicates successively the number of make and break contacts.

Accessories

Auxiliary switch PS-RSI-1100



- For signalling the main contact position of installation contactors.
- Contacts: 1 make + 1 break.
- Installation by clicking on the right side of the installation contactors.
- It is possible to mount one auxiliary switch on one installation contactor.
- Width: 9 mm.

Type	Order code	Number of modules	Weight [kg]	Package [pcs]
PS-RSI-1100	OEZ:36657	0.5	0.03	1

INSTALLATION CONTACTORS RSI

Specifications

(for RSI-A installation contactors of one-module design with contact arrangement 10, 20, 11, 02)

Type		RSI-20-.-A...	RSI-32-.-A...
Standards		EN 60947-4-1 EN 61095	EN 60947-4-1 EN 61095
Approval marks			
Main circuit (contact)			
Arrangement of contacts ¹⁾		10, 20, 11, 02	20, 11, 02
Rated thermal current	I_{th}	20 A	32 A
Rated operating voltage	U_c	AC 230 V	AC 230 V
Rated operating current ²⁾	I_c	AC-1/AC-7a AC-3/AC-7b	AC-1/AC-7a AC-3/AC-7b
Switched power ⁴⁾	P_e	AC-1/AC-7a 1-phase AC 230 V	AC-1/AC-7a 1-phase AC 230 V
		AC-3/AC-7b 1-phase AC 230 V	AC-3/AC-7b 1-phase AC 230 V
Min. switched voltage/current		17 V / 50 mA	17 V / 50 mA
Max. switching frequency	AC-3, AC-7b, AC-1, AC-7a, lighting fittings	600 operating cycles / hr	600 operating cycles / hr
	DC-1	300 operating cycles / hr	300 operating cycles / hr
	no load	3 000 operating cycles / hr	3 000 operating cycles / hr
Electrical endurance at I_c	AC-1/AC-7a	200 000 operating cycles	NO: 150 000 operating cycles ³⁾ NC: 100 000 operating cycles ³⁾
	AC-3/AC-7b	300 000 operating cycles	500 000 operating cycles
	DC-1	100 000 operating cycles	100 000 operating cycles
Mechanical endurance		3 000 000 operating cycles	3 000 000 operating cycles
Power loss at I_c (1 pole)		1.7 W	2.5 W
Maximum backup fuse	coordination type 2	20 A	-
gL/gG against short-circuit	coordination type 1	-	32 A
Maximum backup circuit breaker	coordination type 1	20 A	32 A
Min. distance between open contacts		3.6 mm	3.6 mm
Make time		15 ÷ 25 ms	15 ÷ 25 ms
Break time		10 ÷ 30 ms	10 ÷ 30 ms
Connection - conductor rigid	S	1 ÷ 10 mm ²	1 ÷ 10 mm ²
Connection - conductor flexible	S	1 ÷ 6 mm ²	1 ÷ 6 mm ²
Torque		1.2 Nm	1.2 Nm
Screw slot type		PZ1	PZ1
Control circuit (coil)			
Rated voltage	U_c	AC 24, 230 V	AC 230 V
Operating range	U_c	85 ÷ 110 %	85 ÷ 110 %
Rated frequency	f	50/60 Hz	50/60 Hz
Starting input power		12 VA / 10 W	12 VA / 10 W
Input power		2.8 VA / 1.2 W	2.8 VA / 1.2 W
Connection - conductor rigid		1 ÷ 2.5 mm ²	1 ÷ 2.5 mm ²
Connection - conductor flexible		1 ÷ 2.5 mm ²	1 ÷ 2.5 mm ²
Torque		0.6 Nm	0.6 Nm
Screw head type		PZ1	PZ1
Other data			
Other data	U_i	440 V	440 V
Rated impulse withstand voltage	U_{imp}	4 kV	4 kV
Mounting on "U" rail according to EN 60715 - type		TH35	TH35
Degree of protection		IP20	IP20
Ambient temperature ⁵⁾		-5 ÷ +55 °C	-15 ÷ +55 °C
Seismic resistance		IEC 980:1993 ⁶⁾	IEC 980:1993 ⁶⁾

¹⁾ Each digit indicates successively the number of make and break contacts.

²⁾ Switching of resistance or slightly inductive load in DC circuits, see page F15.

³⁾ NO - make contact, NC - break contact

⁴⁾ Switched power is shown for categories AC-5a a AC-5b in tables on pages EF14 a F15.













⁵⁾ Maximum number parallel contactors depending on ambient temperature can be found in the table on page F16.

⁶⁾ It passed the seismic tests for NPP Dukovany and Temelin.

INSTALLATION CONTACTORS RSI

Specifications

(for RSI-A installation contactors of multi-module design with contact arrangement 40, 31, 04)

Type		RSI-25-.-A...	RSI-32-.-A...	RSI-40-.-A...	RSI-63-.-A...		
Standards		EN 60947-4-1 EN 61095	EN 60947-4-1 EN 61095	EN 60947-4-1 EN 61095	EN 60947-4-1 EN 61095		
Approval marks		  	  	  	  		
Main circuit (contact)							
Arrangement of contacts ¹⁾		40, 31, 04	40, 31, 04	40, 31, 04	40, 31, 04		
Rated thermal current	I_{th}	25 A	32 A	40 A	63 A		
Rated operating voltage	U_c	AC 400 V	AC 400 V	AC 400 V	AC 400 V		
Rated operating current ²⁾	I_e	AC-1/AC-7a AC-3/AC-7b	25 A 8,5 A	32 A 8,5 A	40 A 22 A		
Switched power ³⁾	P_e	AC-1/AC-7a	1-phase AC 230 V	5.4 kW	7 kW	8.7 kW	13.3 kW
			3-phase AC 400 V	16 kW	21 kW	26 kW	40 kW
		AC-3/AC-7b	1-phase AC 230 V	1.3 kW	1.3 kW	3.7 kW	5 kW
			3-phase AC 400 V	4 kW	4 kW	11 kW	15 kW
Min. switched voltage/current		17 V / 50 mA	17 V / 50 mA	17 V / 50 mA	17 V / 50 mA		
Max. switching frequency	AC-3, AC-7b, AC-1, AC-7a, lighting fittings	600 operating cycles / hr	600 operating cycles / hr	600 operating cycles / hr	600 operating cycles / hr		
	DC-1	300 operating cycles / hr	300 operating cycles / hr	300 operating cycles / hr	300 operating cycles / hr		
	no load	3 000 operating cycles / hr	3 000 operating cycles / hr	3 000 operating cycles / hr	3 000 operating cycles / hr		
Electrical endurance at I_e	AC-1/AC-7a	200 000 operating cycles	150 000 operating cycles	100 000 operating cycles	100 000 operating cycles		
	AC-3/AC-7b	500 000 operating cycles	500 000 operating cycles	150 000 operating cycles	150 000 operating cycles		
	DC-1	100 000 operating cycles	100 000 operating cycles	100 000 operating cycles	100 000 operating cycles		
		3 000 000 operating cycles	3 000 000 operating cycles	3 000 000 operating cycles	3 000 000 operating cycles		
Mechanical endurance		3 000 000 operating cycles	3 000 000 operating cycles	3 000 000 operating cycles	3 000 000 operating cycles		
Power loss at I_e (1 pole)		2.2 W	2.5 W	4 W	8 W		
Maximum backup fuse	coordination type 2	25 A	-	63 A	80 A		
gL/gG against short-circuit	coordination type 1	-	32 A	-	-		
Maximum backup circuit breaker	coordination type 1	25 A	32 A	40 A	-		
Min. distance between open contacts		3.6 mm	3.6 mm	3.6 mm	3.6 mm		
Make time		10 ÷ 30 ms	10 ÷ 30 ms	10 ÷ 20 ms	10 ÷ 20 ms		
Break time		10 ÷ 30 ms	10 ÷ 30 ms	10 ÷ 15 ms	10 ÷ 15 ms		
Connection - conductor rigid	S	1 ÷ 10 mm ²	1 ÷ 10 mm ²	1.5 ÷ 25 mm ²	1.5 ÷ 25 mm ²		
Connection - conductor flexible	S	1 ÷ 6 mm ²	1 ÷ 6 mm ²	1.5 ÷ 16 mm ²	1.5 ÷ 16 mm ²		
Torque		1.2 Nm	1.2 Nm	3.5 Nm	3.5 Nm		
Screw head type		PZ1	PZ1	PZ2	PZ2		
Control circuit (coil)							
Rated voltage	U_c	AC 24, 230 V	AC 230 V	AC 24, 230 V	AC 24, 230 V		
Operating range	U_c	85 ÷ 110 %	85 ÷ 110 %	85 ÷ 110 %	85 ÷ 110 %		
Rated frequency	f	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz		
Starting input power		33 VA / 25 W	33 VA / 25 W	15.4 VA / 6 W	15.4 VA / 6 W		
Input power		5.5 VA / 1.6 W	5.5 VA / 1.6 W	7.7 VA / 3 W	7.7 VA / 3 W		
Connection - conductor rigid		1 ÷ 2.5 mm ²	1 ÷ 2.5 mm ²	1 ÷ 2.5 mm ²	1 ÷ 2.5 mm ²		
Connection - conductor flexible		1 ÷ 2.5 mm ²	1 ÷ 2.5 mm ²	1 ÷ 2.5 mm ²	1 ÷ 2.5 mm ²		
Torque		0.6 Nm	0.6 Nm	0.6 Nm	0.6 Nm		
Screw head type		PZ1	PZ1	PZ1	PZ1		
Other data							
Rated insulation voltage	U_i	440 V	440 V	440 V	440 V		
Rated impulse withstand voltage	U_{imp}	4 kV	4 kV	4 kV	4 kV		
Mounting on "U" rail according to EN 60715 - type		TH35	TH35	TH35	TH35		
Degree of protection		IP20	IP20	IP20	IP20		
Ambient temperature ⁴⁾		-5 ÷ +55 °C	-15 ÷ +55 °C	-5 ÷ +55 °C	-5 ÷ +55 °C		
Seismic resistance		IEC 980:1993 ⁵⁾	IEC 980:1993 ⁵⁾	IEC 980:1993 ⁵⁾	IEC 980:1993 ⁵⁾		

¹⁾ Each digit indicates successively the number of make and break contacts.

²⁾ Switching of resistance or slightly inductive load in DC circuits, see page F15.

³⁾ Switched power is shown for categories AC-5a a AC-5b in tables on pages F14 and F15.

⁴⁾ Maximum number parallel contactors depending on ambient temperature can be found in the table on page F16.

⁵⁾ It passed the seismic tests for NPP Dukovany and Temelin.

INSTALLATION CONTACTORS RSI

Specifications

(for RSI-X installation contactors of one-module design with contact arrangement 10, 20, 11, 02)

Type			RSI-20-..-X...	RSI-32-..-X...
Standards			EN 60947-4-1 EN 61095	EN 60947-4-1 EN 61095
Approval marks				
Main circuit (contact)				
Main circuit (contact) ¹⁾			10, 20, 11, 02	20, 11, 02
Rated thermal current	I_{th}		20 A	32 A
Rated operating voltage	U_e		AC 230 V	AC 230 V
Rated operating current ²⁾	I_e	AC-1/AC-7a	20 A	32 A
		AC-3/AC-7b	NO: 9 A ³⁾ NC: 6 A ³⁾	NO: 9 A ³⁾ NC: 6 A ³⁾
Switched power ⁴⁾	P_e	AC-1/AC-7a	1-phase AC 230 V 4 kW	7 kW
		AC-3/AC-7b	1-phase AC 230 V NO: 1.3 kW ³⁾ NC: 0.75 kW ³⁾	NO: 1.3 kW ³⁾ NC: 0.75 kW ³⁾
Min. switched voltage/current			17 V / 50 mA	17 V / 50 mA
Max. switching frequency		AC-3, AC-7b, AC-1, AC-7a, lighting fittings	600 operating cycles / hr	600 operating cycles / hr
		DC-1	300 operating cycles / hr	300 operating cycles / hr
		no load	3 000 operating cycles / hr	3 000 operating cycles / hr
Electrical endurance at I_e		AC-1/AC-7a	200 000 operating cycles	NO: 150 000 operating cycles ³⁾ NC: 100 000 operating cycles ³⁾
		AC-3/AC-7b	300 000 operating cycles	500 000 operating cycles
		DC-1	100 000 operating cycles	100 000 operating cycles
Mechanical endurance			3 000 000 operating cycles	10 000 000 operating cycles
Power loss at I_e (1 pole)			1.7 W	2.5 W
Maximum backup fuse gL/gG against short-circuit		coordination type 2	20 A	-
		coordination type 1	-	32 A
Maximum backup circuit breaker		coordination type 1	20 A	32 A
Min. distance between open contacts			3.6 mm	3.6 mm
Make time			15 ÷ 45 ms	15 ÷ 45 ms
Break time			20 ÷ 50 ms	20 ÷ 50 ms
Connection - conductor rigid	S		1 ÷ 10 mm ²	1 ÷ 10 mm ²
Connection - conductor flexible	S		1 ÷ 6 mm ²	1 ÷ 6 mm ²
Torque			1.2 Nm	1.2 Nm
Screw head type			PZ1	PZ1
Control circuit (coil)				
Rated voltage	U_c		AC 24, 230 V	AC 230 V
			DC 24, 220 V	DC 220 V
Operating range	U_c		85 ÷ 110 %	85 ÷ 110 %
Rated frequency	f		40 ÷ 500 Hz	40 ÷ 500 Hz
Starting input power			2.1 VA / 2.1 W	2.1 VA / 2.1 W
Input power			2.1 VA / 2.1 W	2.1 VA / 2.1 W
Connection - conductor rigid			1 ÷ 2.5 mm ²	1 ÷ 2.5 mm ²
Connection - conductor flexible			1 ÷ 2.5 mm ²	1 ÷ 2.5 mm ²
Torque			0.6 Nm	0.6 Nm
Screw head type			PZ1	PZ1
Other data				
Rated insulation voltage	U_i		440 V	440 V
Rated impulse withstand voltage	U_{imp}		4 kV	4 kV
Mounting on "U" rail according to EN 60715 - type			TH35	TH35
Degree of protection			IP20	IP20
Ambient temperature ⁵⁾			-5 ÷ +55 °C	-15 ÷ +55 °C
Seismic resistance			IEC 980:1993 ⁶⁾	IEC 980:1993 ⁶⁾

¹⁾ Each digit indicates successively the number of make and break contacts.

²⁾ Switching of resistance or slightly inductive load in DC circuits, see page F15.

³⁾ NO - make contact, NC - break contact

⁴⁾ Switched power is shown for categories AC-5a a AC-5b in tables on pages F14 and F15.













⁵⁾ Maximum number parallel contactors depending on ambient temperature can be found in the table on page F16.

⁶⁾ It passed the seismic tests for NPP Dukovany and Temelin.

INSTALLATION CONTACTORS RSI

Specifications

(RSI-X installation contactors of multi-module design with contact arrangement 40, 31, 04)

Type		RSI-25-..-X...	RSI-32-..-X...	RSI-40-..-X...	RSI-63-..-X...			
Standards army		EN 60947-4-1 EN 61095	EN 60947-4-1 EN 61095	EN 60947-4-1 EN 61095	EN 60947-4-1 EN 61095			
Approval marks		  	  	  	  			
Main circuit (contact)								
Arrangement of contacts ¹⁾		40, 31, 04	40, 31, 04	40, 31, 04	40, 31, 04			
Rated thermal current	I_{th}	25 A	32 A	40 A	63 A			
Rated operating voltage	U_e	AC 400 V	AC 400 V	AC 400 V	AC 400 V			
Rated operating current ²⁾	I_e	AC-1/AC-7a AC-3/AC-7b	AC-1/AC-7a AC-3/AC-7b	AC-1/AC-7a AC-3/AC-7b	AC-1/AC-7a AC-3/AC-7b			
Switched power ³⁾	P_e	AC-1/AC-7a	1-phase AC 230 V	5.4 kW	7 kW	8.7 kW	13.3 kW	
			3-phase AC 400 V	16 kW	21 kW	26 kW	40 kW	
			AC-3/AC-7b	1-phase AC 230 V	1.3 kW	1.3 kW	3.7 kW	5 kW
				3-phase AC 400 V	4 kW	4 kW	11 kW	15 kW
Min. switched voltage/current		17 V / 50 mA	17 V / 50 mA	17 V / 50 mA	17 V / 50 mA			
Max. switching frequency		AC-3, AC-7b, AC-1, AC-7a, lighting fittings	600 operating cycles / hr	600 operating cycles / hr	600 operating cycles / hr	600 operating cycles / hr		
		DC-1	300 operating cycles / hr	300 operating cycles / hr	300 operating cycles / hr	300 operating cycles / hr		
		no load	3 000 operating cycles / hr	3 000 operating cycles / hr	3 000 operating cycles / hr	3 000 operating cycles / hr		
Electrical endurance at I_e		AC-1/AC-7a	200 000 operating cycles	150 000 operating cycles	100 000 operating cycles	100 000 operating cycles		
		AC-3/AC-7b	500 000 operating cycles	500 000 operating cycles	150 000 operating cycles	150 000 operating cycles		
			DC-1	100 000 operating cycles	100 000 operating cycles	100 000 operating cycles	100 000 operating cycles	
		Mechanical endurance		3 000 000 operating cycles	10 000 000 operating cycles	3 000 000 operating cycles	3 000 000 operating cycles	
Power loss at I_e (1 pole)		2.2 W	2.5 W	4 W	8 W			
Maximum backup fuse gL/gG against short-circuit	coordination type 2	25 A	-	63 A	80 A			
		coordination type 1	-	32 A	-	-		
Maximum backup circuit breaker	coordination type 1	25 A	32 A	40 A	63 A			
Min. distance between open contacts		3.6 mm	3.6 mm	3.6 mm	3.6 mm			
Make time		15 ÷ 45 ms	15 ÷ 45 ms	15 ÷ 20 ms	15 ÷ 20 ms			
Break time		20 ÷ 70 ms	20 ÷ 70 ms	35 ÷ 45 ms	35 ÷ 45 ms			
Connection - conductor rigid	S	1 ÷ 10 mm ²	1 ÷ 10 mm ²	1.5 ÷ 25 mm ²	1.5 ÷ 25 mm ²			
Connection - conductor flexible	S	1 ÷ 6 mm ²	1 ÷ 6 mm ²	1.5 ÷ 16 mm ²	1.5 ÷ 16 mm ²			
Torque		1.2 Nm	1.2 Nm	3.5 Nm	3.5 Nm			
Screw head type		PZ1	PZ1	PZ2	PZ2			
Control circuit (coil)								
Rated voltage	U_c	AC 24, 230 V	AC 230 V	AC 24, 230 V	AC 24, 230 V			
		DC 24, 220 V	DC 220 V	DC 24, 220 V	DC 24, 220 V			
Operating range	U_c	85 ÷ 110 %	85 ÷ 110 %	85 ÷ 110 %	85 ÷ 110 %			
Rated frequency	f	40 ÷ 500 Hz	40 ÷ 500 Hz	40 ÷ 500 Hz	40 ÷ 500 Hz			
Starting input power ⁴⁾		2.6 VA / 2.6 W (3.8 VA / 3.8 W)	2.6 VA / 2.6 W	5 VA / 5 W	5 VA / 5 W			
Input power ⁴⁾		2.6 VA / 2.6 W (3.8 VA / 3.8 W)	2.6 VA / 2.6 W	5 VA / 5 W	5 VA / 5 W			
Connection - conductor rigid		1 ÷ 2.5 mm ²	1 ÷ 2.5 mm ²	1 ÷ 2.5 mm ²	1 ÷ 2.5 mm ²			
Connection - conductor flexible		1 ÷ 2.5 mm ²	1 ÷ 2.5 mm ²	1 ÷ 2.5 mm ²	1 ÷ 2.5 mm ²			
Torque		0.6 Nm	0.6 Nm	0.6 Nm	0.6 Nm			
Screw head type		PZ1	PZ1	PZ1	PZ1			
Other data								
Rated insulation voltage	U_i	440 V	440 V	440 V	440 V			
Rated impulse withstand voltage	U_{imp}	4 kV	4 kV	4 kV	4 kV			
Mounting on "U" rail according to EN 60715 - type		TH35	TH35	TH35	TH35			
Degree of protection		IP20	IP20	IP20	IP20			
Ambient temperature ⁵⁾		-5 ÷ +55 °C	-15 ÷ +55 °C	-5 ÷ +55 °C	-5 ÷ +55 °C			
Seismic resistance		IEC 980:1993 ⁶⁾	IEC 980:1993 ⁶⁾	IEC 980:1993 ⁶⁾	IEC 980:1993 ⁶⁾			

¹⁾ Each digit indicates successively the number of make and break contacts.

²⁾ Switching of resistance or slightly inductive load in DC circuits, see page F15.

³⁾ Switched power is shown for categories AC-5a a AC-5b in tables on pages F14 and F15.

⁴⁾ Values in parentheses are valid for design with arrangement of contacts 04.




⁵⁾ Maximum number parallel contactors depending on ambient temperature can be found in the table on page F16.

⁶⁾ It passed the seismic tests for NPP Dukovany and Temelin.

INSTALLATION CONTACTORS RSI

Specifications

(for PS-RSI-1100 auxiliary contact)

Type				PS-RSI-1100
Standards				EN 60947-5-1
Approval marks				  
Contacts				
Arrangement of contacts ¹⁾				11
Rated thermal current	I_{th}			6 A
Rated operating voltage	U_e			AC 230 V, AC 400 V
Rated operating current	I_c	AC-15	AC 230 V	6 A
			AC 400 V	4 A
Min. switched voltage/current				12 V / 5 mA
Electrical endurance at I_c				50 000 operating cycles
Mechanical endurance				3 000 000 operating cycles
Power loss at I_c				0,3 W
Maximum backup fuse gL/gG against short-circuit, coordination type 2				6 A
Min. distance between open contacts				4 mm
Connection - conductor rigid				1 ÷ 2.5 mm ²
Connection - conductor flexible				1 ÷ 2.5 mm ²
Torque				0.6 Nm
Screw head type				PZ1
Other data				
Rated insulation voltage	U_i			AC 500 V
Rated impulse withstand voltage	U_{imp}			4 kV
Degree of protection				IP20
Seismic resistance				IEC 980:1993 ²⁾

¹⁾ Each digit indicates successively the number of make and break contacts.

²⁾ It passed the seismic tests for NPP Dukovany and Temelin.

INSTALLATION CONTACTORS RSI

Switching of lights - maximum number of light fittings per one contact at AC 230 V, 50 Hz (utilization category AC-5a, AC-5b)

Maximum number of light bulbs

Installation contactor Type	Lighting fitting										
	15 W 0.07 A	25 W 0.11 A	40 W 0.17 A	60 W 0.26 A	75 W 0.33 A	100 W 0.44 A	150 W 0.65 A	200 W 0.87 A	300 W 1.3 A	500 W 2.17 A	1 000 W 4.35 A
RSI-20	133	80	50	33	27	20	13	10	7	4	2
RSI-25	147	88	55	37	29	22	15	11	7	4	2
RSI-32	167	100	63	42	33	25	17	13	8	5	3
RSI-40	267	160	100	67	53	40	27	20	13	8	4
RSI-63	333	200	125	83	67	50	33	25	17	10	5

Maximum total current of sources for LED

Installation contactor Type	Max. total current
RSI-20	2.4 A
RSI-25	3.8 A
RSI-32	4.0 A
RSI-40	11.0 A
RSI-63	18.0 A

Maximum number of fluorescent tubes

Installation contactor Type	Uncompensated			Compensated in parallel			DUO connection		
	18 W 0.37 A	36 W 0.43 A	58 W 0.67 A	18 W (4.5 µF) 0.19 A	36 W (4.5 µF) 0.29 A	58 W (7 µF) 0.46 A	2x 18 W 0.26 A	2x 36 W 0.48 A	2x 58 W 0.78 A
RSI-20	24	20	13	7	7	4	31	17	10
RSI-25	30	26	17	8	8	5	40	22	13
RSI-32	35	30	19	9	9	6	50	27	17
RSI-40	54	47	30	49	49	31	100	54	33
RSI-63	86	74	48	73	73	47	150	81	50

Maximum number of fluorescent tubes with electronic ballast

Installation contactor Type	With electronic ballast							
	18 W 0.09 A	36 W 0.16 A	58 W 0.25 A	80 W 0.40 A	2x 18 W 0.17 A	2x 36 W 0.31 A	2x 58 W 0.48 A	2x 80 W 0.76 A
RSI-20	39	22	14	9	21	11	7	5
RSI-25	53	30	19	12	28	15	10	6
RSI-32	57	32	20	13	30	16	11	7
RSI-40	139	78	50	31	74	40	26	16
RSI-63	200	113	72	45	106	58	38	24

Maximum number of high-pressure mercury discharge lamps

Installation contactor Type	Uncompensated							Compensated in parallel							
	50 W 0.6 A	80 W 0.8 A	125 W 1.2 A	250 W 2.2 A	400 W 3.3 A	700 W 5.4 A	1 000 W 7.5 A	50 W (7 µF) 0.3 A	80 W (8 µF) 0.4 A	125 W (10 µF) 0.6 A	250 W (18 µF) 1.2 A	400 W (25 µF) 1.8 A	700 W (40 µF) 3.4 A	1 000 W (60 µF) 4.8 A	
RSI-20	14	10	7	4	2	1	1	4	4	3	1	1	-	-	
RSI-25	18	13	9	5	3	2	1	5	5	4	2	1	-	-	
RSI-32	20	15	10	6	4	3	2	6	5	4	2	1	1	-	
RSI-40	38	29	20	10	7	4	3	31	27	22	12	9	5	4	
RSI-63	55	42	29	15	10	6	4	47	41	33	18	13	7	5	

INSTALLATION CONTACTORS RSI

Maximum number of metal halide discharge lamps

Installation contactor	Uncompensated						Compensated in parallel							
	35 W	70 W	150 W	250 W	400 W	1 000 W	2 000 W	35 W (6 µF)	70 W (12 µF)	150 W (20 µF)	250 W (32 µF)	400 W (45 µF)	1 000 W (85 µF)	2 000 W (125 µF)
Type	0.5 A	1 A	1.8 A	3 A	4.6 A	9.7 A	12.2 A	0.23 A	0.42 A	0.77 A	1.26 A	2 A	5 A	10.5 A
RSI-20	18	10	5	3	3	1	-	5	2	1	-	-	-	-
RSI-25	22	12	7	4	3	1	-	6	3	1	1	-	-	-
RSI-32	28	14	7	4	3	1	1	6	3	1	1	-	-	-
RSI-40	43	23	12	7	6	2	1	36	18	11	6	5	2	1
RSI-63	60	32	18	10	9	3	2	50	25	15	9	7	3	2

Maximum number of high-pressure sodium discharge lamps

Installation contactor	Uncompensated				Compensated in parallel				with electronic ballast			
	150 W	250 W	400 W	1 000 W	150 W (20 µF)	250 W (32 µF)	400 W (45 µF)	1 000 W (100 µF)	150 W	250 W	400 W	1 000 W
Type	1.8 A	3 A	4.4 A	10.3 A	0.77 A	1.26 A	2 A	5.1 A	0.72 A	1.3 A	2 A	5 A
RSI-20	5	3	2	-	1	-	-	-	3	2	1	-
RSI-25	6	4	2	1	1	1	-	-	4	2	1	-
RSI-32	6	4	2	1	2	1	-	-	5	3	2	-
RSI-40	17	10	6	3	11	6	4	2	8	4	3	1
RSI-63	22	13	8	3	16	10	6	3	10	5	4	1

Maximum number of low-pressure sodium discharge lamps

Installation contactor	Uncompensated						Compensated in parallel					
	18 W	35 W	55 W	90 W	135 W	180 W	18 W (5 µF)	35 W (20 µF)	55 W (20 µF)	90 W (26 µF)	135 W (40 µF)	180 W (40 µF)
Type	0.4 A	0.6 A	0.6 A	0.9 A	0.9 A	0.9 A	0.35 A	0.28 A	0.35 A	0.55 A	0.8 A	1 A
RSI-20	22	7	7	4	3	3	6	1	1	1	-	-
RSI-25	27	9	9	5	4	4	7	1	1	1	-	-
RSI-32	60	10	10	6	5	5	8	2	2	1	1	1
RSI-40	71	23	23	14	10	10	44	11	11	8	4	5
RSI-63	90	30	30	19	13	13	66	16	13	12	7	8

Switching of resistance or slightly inductive load in DC circuits (utilization category DC-1 (L/R ≤ 1 ms))

Installation contactor	Operating voltage U _e	Contact load			
		1 contact	2 contacts in series	3 contacts in series	4 contacts in series
RSI-20	DC 24 V	20 A	20 A	-	-
	DC 48 V	15 A	18 A	-	-
	DC 60 V	10 A	15 A	-	-
	DC 110 V	6 A	10 A	-	-
	DC 220 V	0.6 A	6 A	-	-
RSI-25	DC 24 V	25 A	25 A	25 A	25 A
	DC 48 V	20 A	25 A	25 A	25 A
	DC 60 V	15 A	20 A	25 A	25 A
	DC 110 V	6 A	10 A	20 A	20 A
	DC 220 V	0.6 A	6 A	15 A	15 A
RSI-32	DC 24 V	32 A	32 A	32 A	32 A
	DC 48 V	25 A	32 A	32 A	32 A
	DC 60 V	15 A	20 A	32 A	32 A
	DC 110 V	6 A	10 A	20 A	20 A
	DC 220 V	0.6 A	6 A	15 A	15 A
RSI-40	DC 24 V	40 A	40 A	40 A	40 A
	DC 48 V	24 A	38 A	40 A	40 A
	DC 60 V	18 A	32 A	40 A	40 A
	DC 110 V	4 A	10 A	30 A	40 A
	DC 220 V	1.2 A	8 A	20 A	40 A
RSI-63	DC 24 V	63 A	63 A	63 A	63 A
	DC 48 V	26 A	42 A	63 A	63 A
	DC 60 V	20 A	34 A	60 A	63 A
	DC 110 V	4 A	10 A	35 A	63 A
	DC 220 V	1.2 A	8 A	30 A	63 A

INSTALLATION CONTACTORS RSI

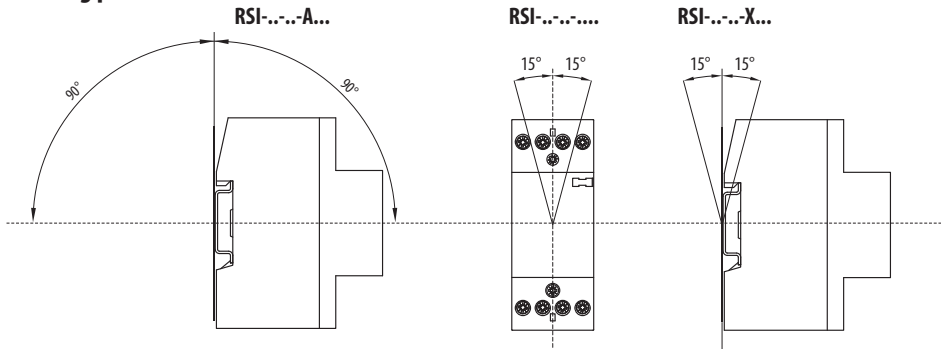
Dependency of RSI installation contactors on ambient temperature

Type	Ambient temperature	Maximum number of the contactors side by side ²⁾
RSI-20--A...	up to 40 °C	3
	up to 55 °C	2
RSI-25--A...	up to 55 °C	without limitation
RSI-32--A...	up to 40 °C	3
	up to 55 °C	2
RSI-40--A...	up to 55 °C	without limitation
RSI-63--A...	up to 55 °C	without limitation
RSI--...-X... ¹⁾	up to 40 °C	3
	up to 55 °C	2

¹⁾ This is valid for all types of contactors with AC/DC control voltage.

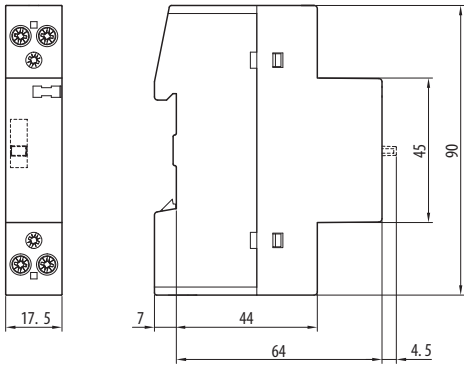
²⁾ After the stated number of contactors it is necessary to create a gap of 0.5 module.

Working position

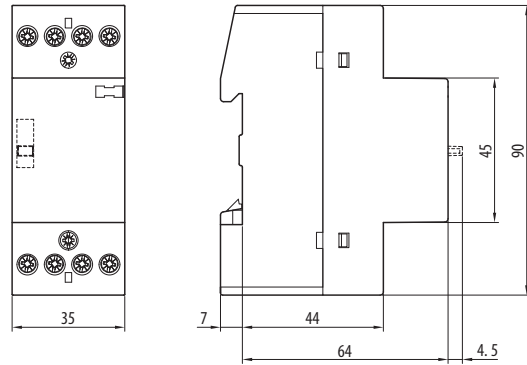


Dimensions

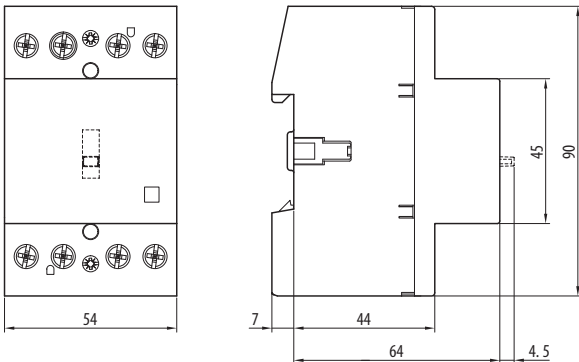
RSI-20
RSI-32 (20, 11, 02)*



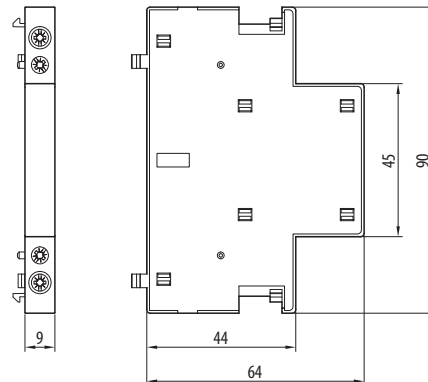
RSI-25
RSI-32 (40, 31, 04)*



RSI-40, RSI-63



PS-RSI-1100

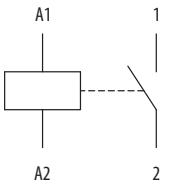


* Arrangement of contacts

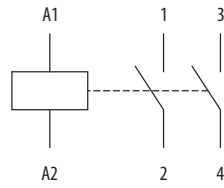
INSTALLATION CONTACTORS RSI

Diagram

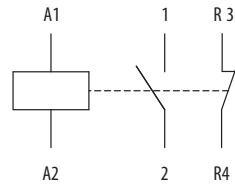
RSI ...-10-....



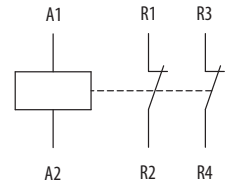
RSI ...-20-....



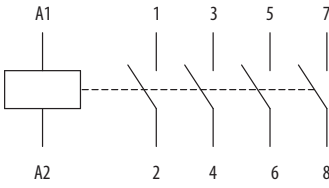
RSI ...-11-....



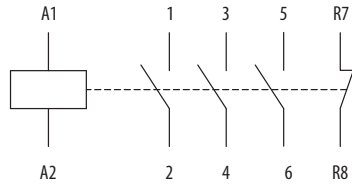
RSI ...-02-....



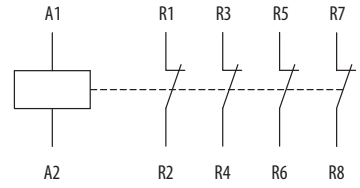
RSI ...-40-....



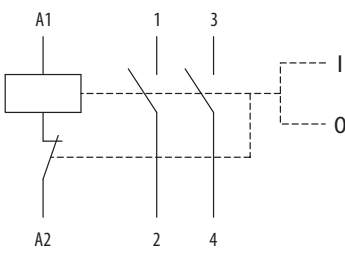
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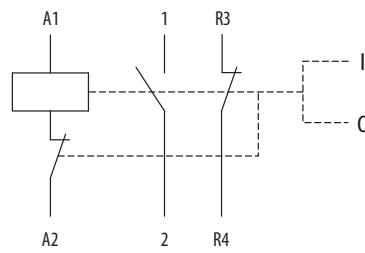
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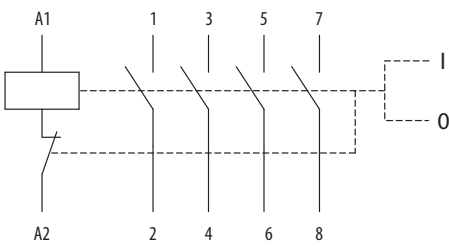
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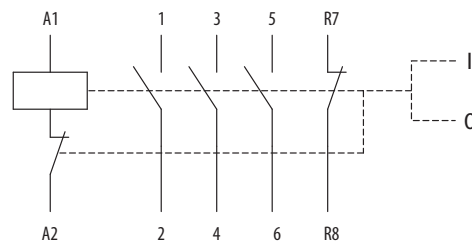
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RSI...-40-....-M



RSI...-31-....-M



PS-RSI-1100

