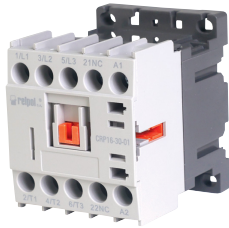


CRP09, CRP12, CRP16

mini-contactors



- Three-pole or four-pole mini-contactors for motor control applications in AC networks
- AC or DC control input
- Load current 9...16 A
- Screw terminals
- 35 mm rail mount acc. to EN 60715 or on panel mounting with four M4 screws
- Accessories: auxiliary contacts, mechanical interlocks
- Recognitions, certifications, directives: RoHS, REACH, 

Applications

Industrial automation: for motor control in machinery (e.g., injection molding, conveyors); home appliances: powering and controlling devices like AC units and compressors; transportation: used in small vehicles for engine starting and hydraulic systems; suitable for various motor types (e.g., three-phase asynchronous motors); enables motor forward/reverse control and speed regulation, ensuring safe and stable motor operation.

Basic technical data

Configuration of contacts : three-pole, four-pole

Control input: AC, DC

Load current: 9 A, 12 A, 16 A

Type of mini-contactor

Configuration of contacts 	Control voltage	Load current		
		9 A	12 A	16 A
3 NO + 1 NO	24 V AC	CRP09-30-10-A024	CRP12-30-10-A024	CRP16-30-10-A024
	48 V AC	CRP09-30-10-A048	CRP12-30-10-A048	CRP16-30-10-A048
	110 V AC	CRP09-30-10-A110	CRP12-30-10-A110	CRP16-30-10-A110
	230 V AC	CRP09-30-10-A230	CRP12-30-10-A230	CRP16-30-10-A230
	24 V DC	CRP09-30-10-D024	CRP12-30-10-D024	CRP16-30-10-D024
	48 V DC	CRP09-30-10-D048	CRP12-30-10-D048	CRP16-30-10-D048
	110 V DC	CRP09-30-10-D110	CRP12-30-10-D110	CRP16-30-10-D110
	220 V DC	CRP09-30-10-D220	CRP12-30-10-D220	CRP16-30-10-D220
3 NO + 1 NC	24 V AC	CRP09-30-01-A024	CRP12-30-01-A024	CRP16-30-01-A024
	48 V AC	CRP09-30-01-A048	CRP12-30-01-A048	CRP16-30-01-A048
	110 V AC	CRP09-30-01-A110	CRP12-30-01-A110	CRP16-30-01-A110
	230 V AC	CRP09-30-01-A230	CRP12-30-01-A230	CRP16-30-01-A230
	24 V DC	CRP09-30-01-D024	CRP12-30-01-D024	CRP16-30-01-D024
	48 V DC	CRP09-30-01-D048	CRP12-30-01-D048	CRP16-30-01-D048
	110 V DC	CRP09-30-01-D110	CRP12-30-01-D110	CRP16-30-01-D110
	220 V DC	CRP09-30-01-D220	CRP12-30-01-D220	CRP16-30-01-D220
4 NO	24 V AC	CRP09-40-00-A024		CRP16-40-00-A024
	48 V AC	CRP09-40-00-A048		CRP16-40-00-A048
	110 V AC	CRP09-40-00-A110		CRP16-40-00-A110
	230 V AC	CRP09-40-00-A230		CRP16-40-00-A230
	24 V DC	CRP12-40-00-D024		CRP16-40-00-D024
	48 V DC	CRP12-40-00-D048		CRP16-40-00-D048
	110 V DC	CRP12-40-00-D110		CRP16-40-00-D110
	220 V DC	CRP12-40-00-D220		CRP16-40-00-D220

 Configuration of contacts: three-pole - 3 NO with auxiliary contact 1 NO or 1 NC; four-pole - 4 NO without auxiliary contact.

13.09.2026

Type of auxiliary contact

Configuration of contacts		Configuration of contacts	
1 NO	CRP10-10S	2 NO + 2 NC	CRP10-22
1 NC	CRP10-01S	3 NO + 1 NC	CRP10-31
1 NO + 1 NC	CRP10-11	1 NO + 3 NC	CRP10-13
2 NO	CRP10-20	4 NO	CRP10-40
2 NC	CRP10-02	4 NC	CRP10-04

Output circuit - main contacts data

		CRP09-...	CRP12-...	CRP16-...
Configuration of contacts ❶		3 NO + 1 NO, 3 NO + 1 NC, 4 NO	3 NO + 1 NO, 3 NO + 1 NC, 4 NO	3 NO + 1 NO, 3 NO + 1 NC, 4 NO
Rated thermal current	AC1	20 A	20 A	20 A
Rated load AC3 IEC 60947	220...240 V	9 A	12 A	15 A
	380...440 V	9 A	12 A	16 A
	500...550 V	6 A	7 A	9 A
	690 V	5 A	5 A	5 A
Motor load AC3 IEC 60947	220...240 V	2,2 kW	3 kW	4 kW
	380...440 V	4 kW	5,5 kW	7,5 kW
	500...550 V	3,7 kW	4 kW	5,5 kW
	690 V	4 kW	4 kW	4 kW
Max. short circuit current	380 V	90 A	120 A	160 A
	660 V	108 A	144 A	180 A
Max. breaking current	380 V	72 A	96 A	128 A
	660 V	90 A	120 A	150 A
Max. operating frequency	AC3	1 800 cycles/hour	1 800 cycles/hour	1 800 cycles/hour
	AC4	300 cycles/hour	300 cycles/hour	300 cycles/hour
Electrical life	AC3	10 ⁶	10 ⁶	10 ⁶
	AC4	2 x 10 ⁵	2 x 10 ⁵	2 x 10 ⁵
Mechanical life (cycles)		1,2 x 10 ⁷	1,2 x 10 ⁷	1,2 x 10 ⁷

Output circuit - auxiliary contacts data

		CRP10-...
Configuration of contacts		1 NO, 1 NC, 1 NO + 1 NC, 2 NO, 2 NC, 2 NO + 2 NC, 3 NO + 1 NC, 1 NO + 3 NC, 4 NO, 4 NC
Rated current	AC12	2 A / 125 V, 1 A / 250 V
	AC15	4 A / 120 V, 2 A / 240 V
	DC12	0,4 A / 440 V, 0,2 A / 600 V
	DC13	1 A / 480 V, 0,8 A / 600 V
Rated thermal current	AC1	10 A

❶ Configuration of contacts: three-pole - 3 NO with auxiliary contact 1 NO or 1 NC; four-pole - 4 NO without auxiliary contact.

Input circuit - coil data

	CRP...-A...	CRP...-D...
Coil voltage	24, 48, 110, 230 V AC 50 Hz	24, 48, 110, 220 V DC
Rated power consumption	2 VA	3 W
Pick-up power consumption	32 VA	3 W
Maintain power consumption	6 VA	3 W
Range of pick-up voltage	0,8...1,1 U _n	0,8...1,1 U _n
Range of drop-out voltage	0,3...0,4 U _n	0,1...0,3 U _n
Pick-up time	10...20 ms	40...50 ms
Drop-out time	35...45 ms	35...45 ms

General data

	CRP...
Operating altitude	0...2 000 m
Ambient temperature (non-condensation and/or icing)	storage: -30...+65 °C operating: -25...+40 °C

Mechanical data - mini-contactor

	CRP09-..., CRP12-..., CRP16-...
Dimensions (L x W x H)	CRP...-A...: 58 x 45 x 57 mm CRP...-D...: 58 x 45 x 69 mm
Weight (typical)	CRP...-A...: 170 g CRP...-D...: 230 g
Protection category EN 60529	IP 10
Connection mode	input / output: screws M3,5 tightening moment: 0,8...1,2 Nm
Mounting	on 35 mm rail mount direct
	on panel screws M4 tightening moment: 1,2...1,5 Nm

Mechanical data - auxiliary contact

	CRP10-10S, CRP10-01S	CRP10-11, CRP10-20, CRP10-02	CRP10-22, CRP10-31, CRP10-13, CRP10-40, CRP10-04
Dimensions (L x W x H)	52,5 x 15,2 x 54,8 mm	32,5 x 37 x 86,8 mm	32,5 x 37 x 86,8 mm
Weight (typical)	20 g	34,5 g	50 g
Protection category EN 60529	IP 10	IP 10	IP 10
Connection mode	output: screws M3,5 tightening moment: 0,8...1,2 Nm	output: screws M3,5 tightening moment: 0,8...1,2 Nm	output: screws M3,5 tightening moment: 0,8...1,2 Nm
Mounting on contactor	side	top	top

CRP09, CRP12, CRP16 mini-contactors

Mounting, accessories for mini-contactors

Mini-contactors **CRP09-...**, **CRP12-...**, **CRP16-...** are designed for direct mounting on 35 mm rail mount acc. to EN 60715 or on panel mounting with four M4 screws.

For **CRP09-...**, **CRP12-...**, **CRP16-...** mini-contactors we offer auxiliary contacts **CRP10-...** and mechanical interlocks **CRP-MI50** Ⓢ.

Ⓢ The mechanical interlock is mounted directly between two mini-contactors, creating a compact and safe reversing combination or a changeover switch (preventing simultaneous activation of both mini-contactors).



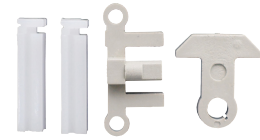
CRP10-10S
CRP10-01S



CRP10-11
CRP10-20
CRP10-02

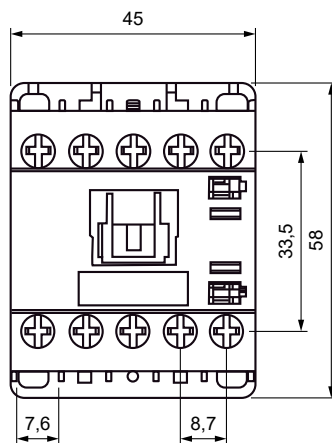


CRP10-22, CRP10-31
CRP10-13, CRP10-40
CRP10-04

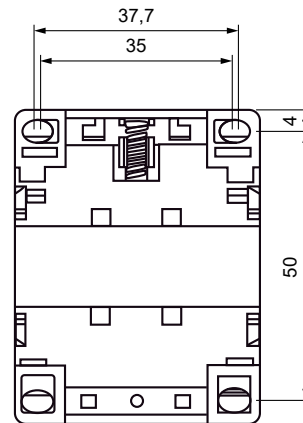


CRP-MI50

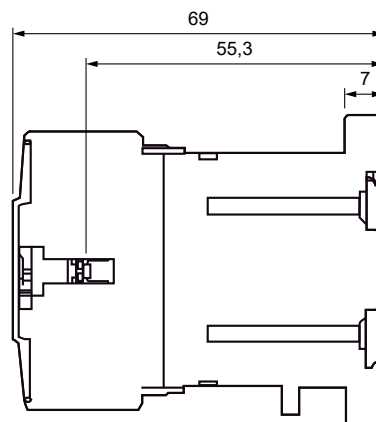
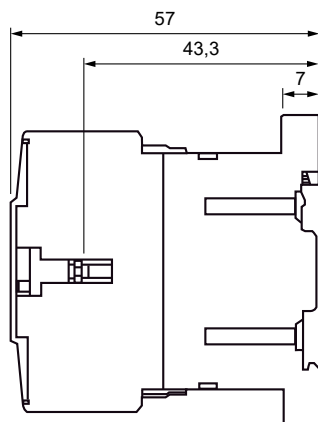
Dimensions



CRP...A...

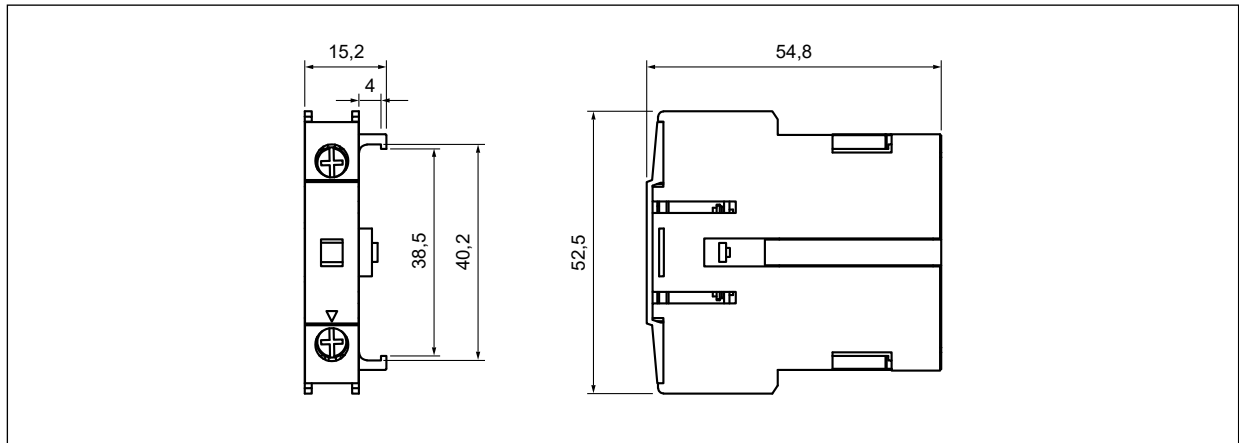


CRP...D...

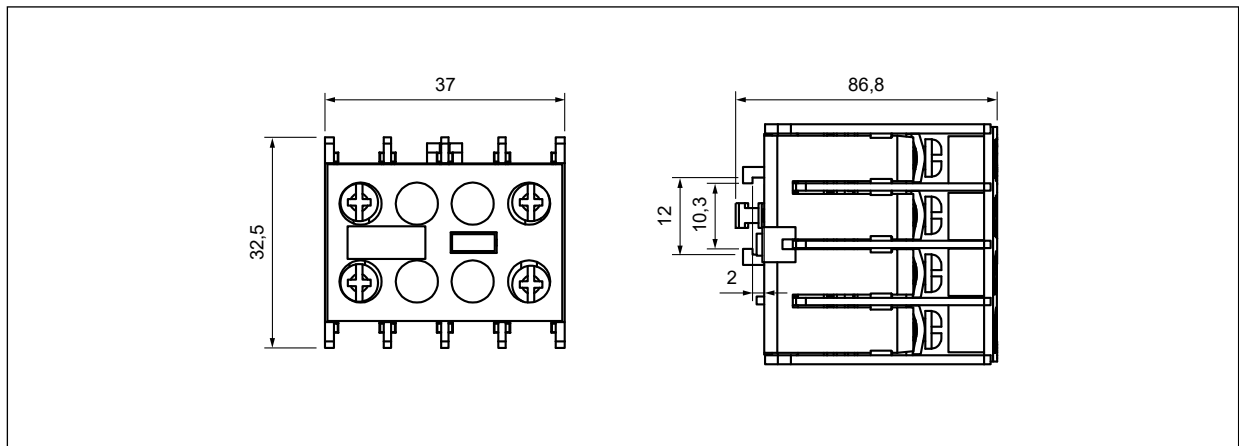


Mini-contactor **CRP09-...**, **CRP12-...**, **CRP16-...**

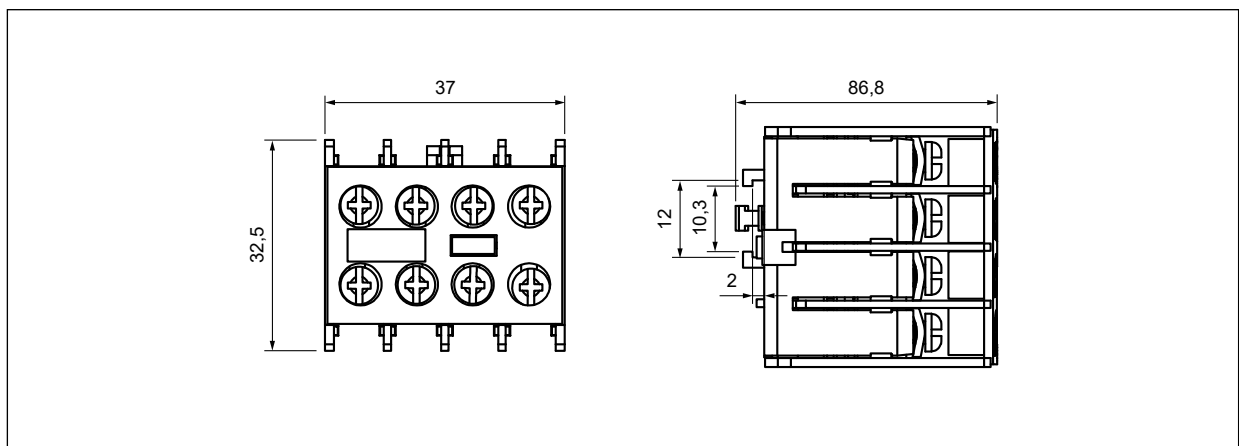
Dimensions



Auxiliary contact **CRP10-10S, CRP10-01S**

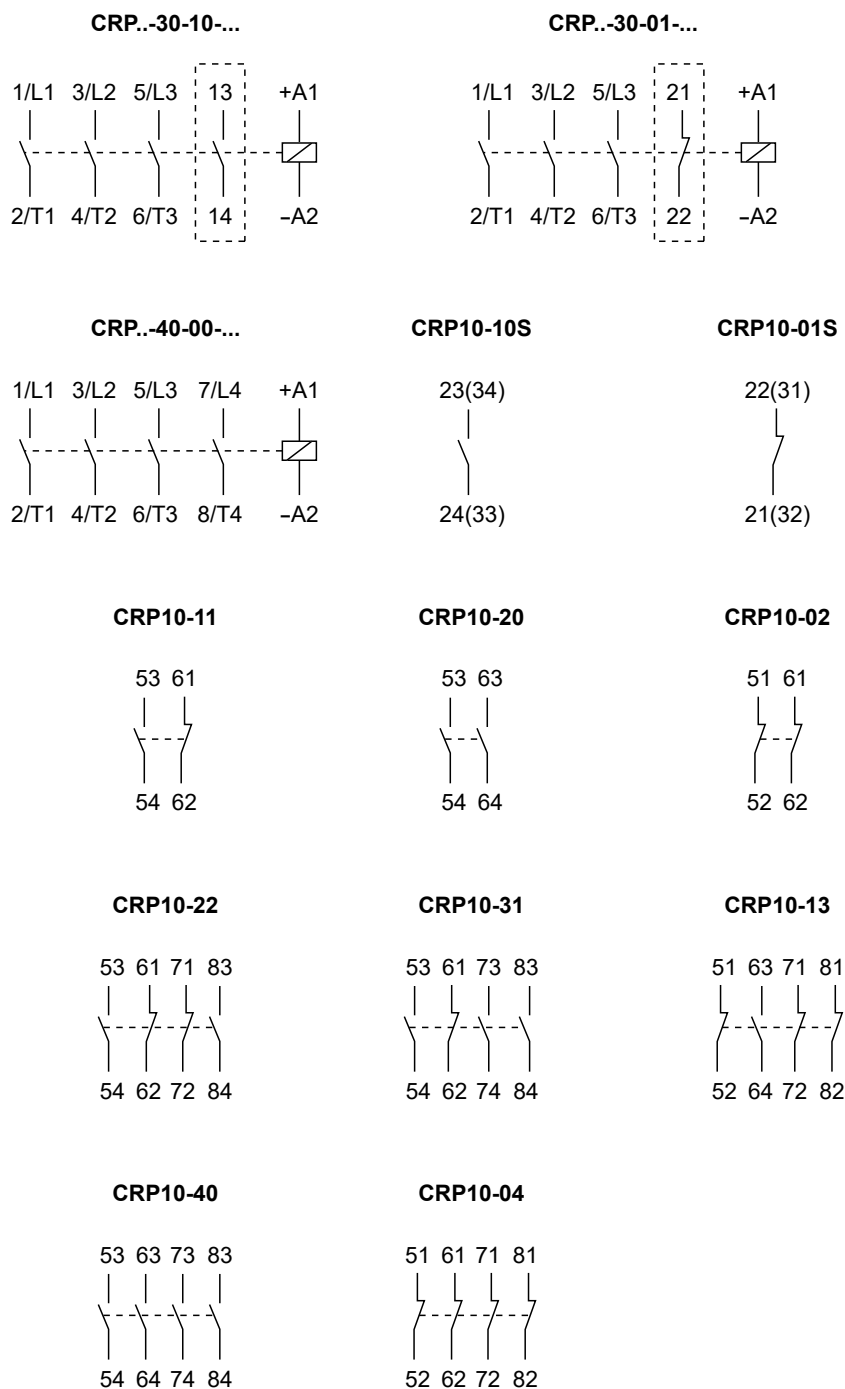


Auxiliary contact **CRP10-11, CRP10-20, CRP10-02**



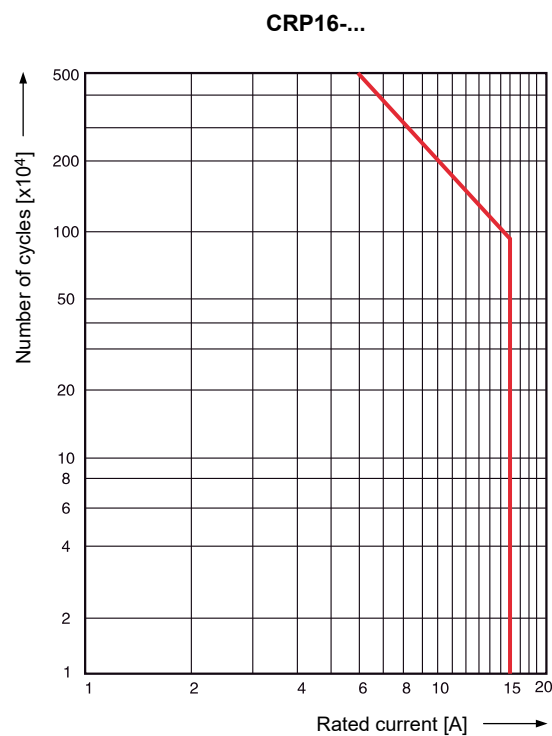
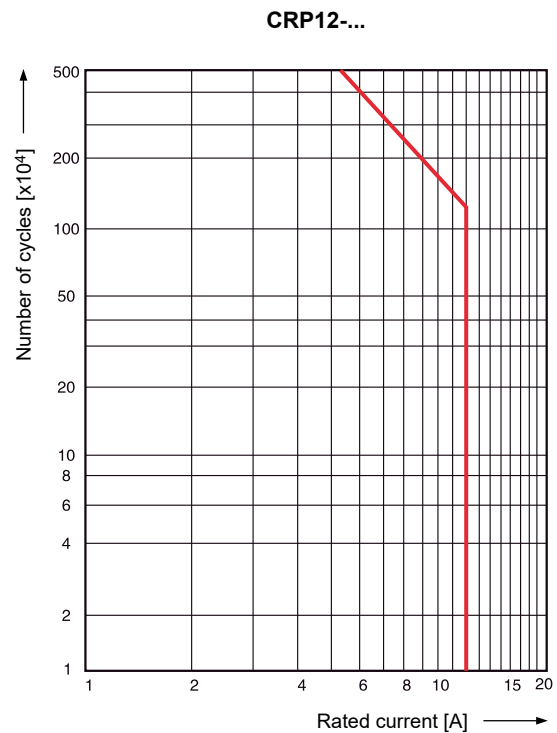
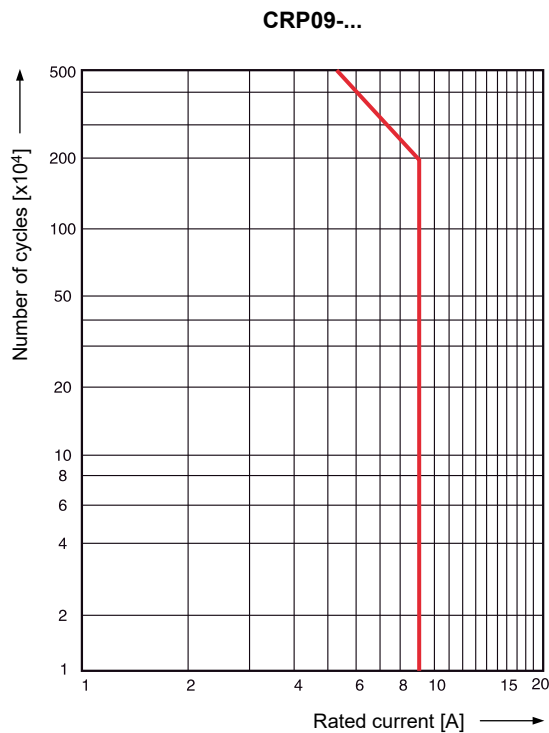
Auxiliary contact **CRP10-22, CRP10-31, CRP10-13, CRP10-40, CRP10-04**

Connection diagrams ⑨

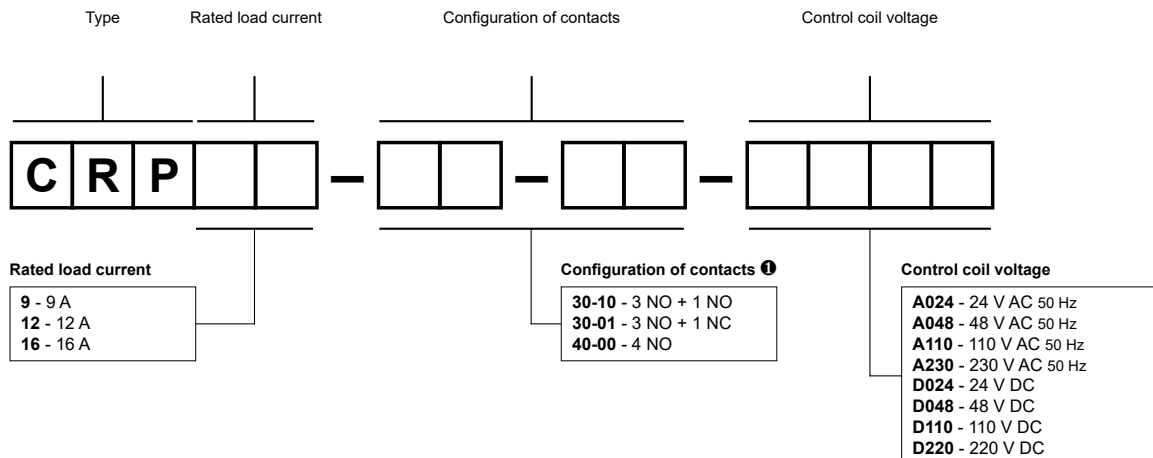


⑨ The indicated polarization of the supply (+A1/-A2) refers only to the DC coils.

Mini-contactors - electrical life at AC3 ($U_e \geq 440$ V)



Ordering codes of mini-contactors

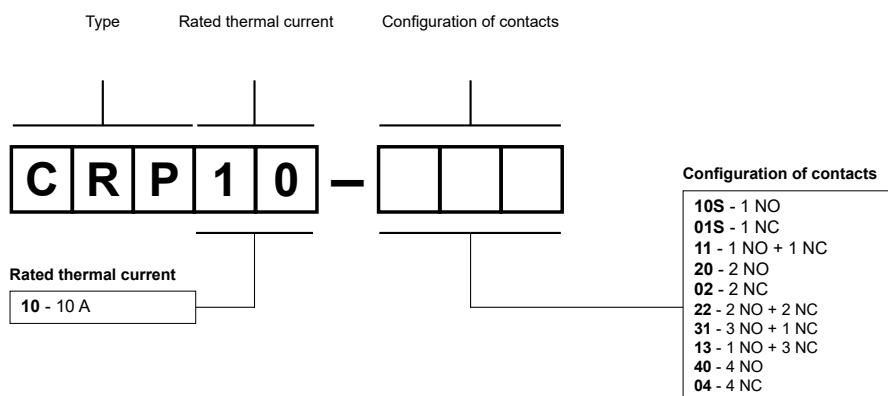


Examples of ordering codes ④:

- CRP09-30-10-A024** mini-contactor **CRP09**..., rated load current 9 A, three-pole - contacts 3 NO + 1 NO, control coil voltage 24 V AC 50 Hz
- CRP12-30-01-A230** mini-contactor **CRP12**..., rated load current 12 A, three-pole - contacts 3 NO + 1 NC, control coil voltage 230 V AC 50 Hz
- CRP16-40-00-D220** mini-contactor **CRP16**..., rated load current 16 A, four-pole - contacts 4 NO, control coil voltage 220 V DC

① Configuration of contacts: three-pole - 3 NO with auxiliary contact 1 NO or 1 NC; four-pole - 4 NO without auxiliary contact.
 ④ Ordering codes **CRP09**..., **CRP12**..., **CRP16**... are specified in table "Type of mini-contactor" on page 1.

Ordering codes of auxiliary contacts



Examples of ordering codes ⑤:

- CRP10-10S** auxiliary contact **CRP10**..., rated thermal current 10 A, one-pole - contact 1 NO
- CRP10-02** auxiliary contact **CRP10**..., rated thermal current 10 A, two-pole - contacts 2 NC
- CRP10-13** auxiliary contact **CRP10**..., rated thermal current 10 A, four-pole - contacts 1 NO + 3 NC

⑤ Ordering codes **CRP10**... are specified in table "Type of auxiliary contact" on page 2.