

Modular contactors 25 - 32 - 40 - 63 A



Hotel room
energy-
enabling units



Garden and night
lighting



Streetlights
and car park
lighting



Bathrooms
lighting
control



Office lighting
control



Pump control



22
SERIES

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25 A modular contactor - 2 pole

- 17.5 mm wide
- NO contact gap ≥ 3 mm, double break
- Continuous duty for the coil and contacts
- AC/DC silent coil (with varistor protection)
- Protective separation (reinforced insulation) between coil and contacts
- Mechanical and LED indicators as standard
- Auto-On-Off selector version available
- AgNi and AgSnO₂ contact versions available
- Compliant with EN 61095: 2009
- Auxiliary contact module available, quick-assembly with the main contactor (1 NO + 1 NC and 2 NO versions)
- For railway applications; materials compliant with fire and smoke characteristics (EN 45545-2 + A1: 2016)
- 35 mm rail (EN 60715) mount

22.32

Box clamp



For outline drawings see page 14

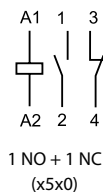
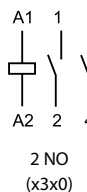
Contact specification

Contact configuration	2 NO, 3 mm* (or 1 NO + 1 NC or 2 NC)	
Rated current/Maximum peak current	A	25/80
Rated voltage	V AC	250/440
Rated load AC1 / AC-7a (per pole @ 250 V)	VA	6250
Rated current AC3 / AC-7b	A	10
Rated load AC15 (per pole @ 230 V)	VA	1800
Single-phase motor rating (230 V AC)	kW	1
Rated current AC-5a (per pole @ 250 V)	A	15
Rated current AC-7c	A	—
Nominal lamp rating:		
(230 V) incandescent/halogen W		800
fluorescent tubes with electronic ballast W		300
fluorescent tubes with electromagnetic ballast W		200
CFL W		100
(230 V) LED W		100
LV halogen or LED with electronic ballast W		100
LV halogen or LED with electromagnetic ballast W		300
Breaking capacity DC1: 24/110/220 V	A	25/5/1
Minimum switching load	mW (V/mA)	1000 (10/10)
Contact material		AgNi
Coil specification		
Nominal voltage (U _N)	V DC/AC (50/60 Hz)	12 - 24 - 48 - 60 - 120 - 230
Rated power AC/DC	VA (50 Hz)/W	2/2.2
Operating range	DC/AC (50/60 Hz)	(0.8...1.1)U _N
Holding voltage	DC/AC (50/60 Hz)	0.4 U _N
Must drop-out voltage	DC/AC (50/60 Hz)	0.1 U _N
Technical data		
Mechanical life AC/DC	cycles	2 · 10 ⁶
Electrical life at rated load AC-7a	cycles	70 · 10 ³
Operate/release time	ms	30/20
Insulation between coil and contacts (1.2/50 µs) kV		6
Ambient temperature range	°C	-25...+50
Protection category		IP 20
Approvals (according to type)		

22.32.0.xxx.1xx0



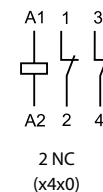
- AgNi contacts, specifically intended for resistive and slightly inductive loads as well as for motor loads



22.32.0.xxx.4xx0



- AgSnO₂ contacts, specifically intended for lamp loads and for high inrush current loads



* Contact gap ≥ 3 mm for NO contacts only;
NC contacts ≥ 1.5 mm

25 A modular contactor - 4 pole

- 35 mm wide
- NO contact gap ≥ 3 mm, double break
- Continuous duty for the coil and contacts
- AC/DC silent coil (with varistor protection)
- Protective separation (reinforced insulation) between coil and contacts
- Mechanical and LED indicators as standard
- Auto-On-Off selector version available
- AgNi and AgSnO₂ contact versions available
- Compliant with EN 61095: 2009
- Auxiliary contact module available, quick-assembly with the main contactor (1 NO + 1 NC and 2 NO versions)
- For railway applications; materials compliant with fire and smoke characteristics (EN 45545-2 + A1: 2016)
- 35 mm rail (EN 60715) mount

22.34

Box clamp



For outline drawings see page 14

Contact specification

Contact configuration	4 NO, 3 mm* (or 3NO + 1NC or 2NO + 2NC)	
Rated current/Maximum peak current	A	25/80
Rated voltage	V AC	250/440
Rated load AC1/AC-7a (per pole @ 250 V)	VA	6250
Rated current AC3/AC-7b	A	10
Rated load AC15 (per pole @ 230 V)	VA	1800
Three-phase motor rating (400 - 440 V AC)	kW	4
Rated current AC-5a (per pole @ 250 V)	A	15
Rated current AC-7c	A	—

Nominal lamp rating:

(230 V) incandescent/halogen W	800	2000
fluorescent tubes with electronic ballast W	300	800
fluorescent tubes with electromagnetic ballast W	200	500
CFL W	100	200
(230 V) LED W	100	200
LV halogen or LED with electronic ballast W	100	200
LV halogen or LED with electromagnetic ballast W	300	800
Breaking capacity DC1: 24/110/220 V	A	25/5/1
Minimum switching load	mW (V/mA)	1000 (10/10)
Contact material	AgNi	AgSnO ₂

Coil specification

Nominal voltage (U _N)	V DC/AC (50/60 Hz)	12 - 24 - 48 - 60 - 120 - 230	12 - 24 - 48 - 60 - 120 - 230
Rated power AC/DC	VA (50 Hz)/W	2/2.2	2/2.2
Operating range	DC/AC (50/60 Hz)	(0.8...1.1)U _N	(0.8...1.1)U _N
Holding voltage	DC/AC (50/60 Hz)	0.4 U _N	0.4 U _N
Must drop-out voltage	DC/AC (50/60 Hz)	0.1 U _N	0.1 U _N

Technical data

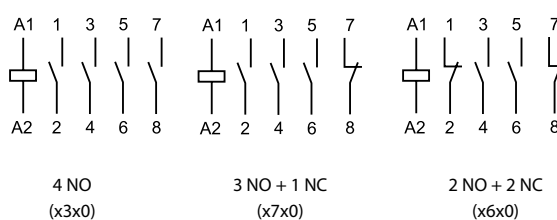
Mechanical life AC/DC	cycles	2 · 10 ⁶	2 · 10 ⁶
Electrical life at rated load AC-7a	cycles	150 · 10 ³	30 · 10 ³
Operate/release time	ms	18/40	18/40
Insulation between coil and contacts (1.2/50 µs) kV		6	6
Ambient temperature range	°C	-25...+50	-25...+50
Protection category		IP 20	IP 20

Approvals (according to type)**22.34.0.xxx.1xx0**

- AgNi contacts, specifically intended for resistive and slightly inductive loads as well as for motor loads

22.34.0.xxx.4xx0

- AgSnO₂ contacts, specifically intended for lamp loads and for high inrush current loads



* Contact gap ≥ 3 mm for NO contacts only;
NC contacts ≥ 1.5 mm

40 - 63 A modular contactor - 4 pole

- NO and NC contact gap ≥ 3 mm, double break
- Continuous duty for the coil and contacts
- AC/DC silent coil (with varistor protection)
- Protective separation (reinforced insulation) between coil and contacts
- Mechanical indicator as standard
- Compliant with EN 60947-4-1 (Mirror Contact) version available
- Auxiliary modules compliant with EN 60947-5-1 (mechanically linked contacts)
- AgSnO₂ contacts
- Compliant with EN 61095: 2009
- 35 mm rail (EN 60715) mount

22.44/22.64

Box clamp



For outline drawings see page 14

Contact specification

Contact configuration

Rated current/Maximum peak current A

Rated voltage/Maximum switching voltage V AC

Rated load AC1 / AC-7a (per pole @ 400 V) VA

Rated current AC3 / AC-7b (400 V) A

Three-phase motor rating (400 - 440 V AC) kW

Rated current AC-5a (per pole @ 250 V) A

Rated current AC-7c A

Nominal lamp rating (NO):

(230 V) incandescent/halogen W

fluorescent tubes with electronic ballast W

fluorescent tubes with electromagnetic ballast W

CFL W

(230 V) LED W

LV halogen or LED with electronic ballast W

LV halogen or LED with electromagnetic ballast W

Breaking capacity DC1 (NO): 24/110/220 V A

Rated current DC3 (L/R ≤ 2 ms): 24/48/60/110/220 V A

Rated current DC5 (L/R ≤ 7.5 ms): 24/48/60/110/220 V A

Minimum switching load mW (V/mA)

Contact material

Coil specification

Nominal voltage (U_N) V DC/AC (50/60 Hz)

Rated power AC/DC VA (50 Hz)/W

Operating range DC/AC (50/60 Hz)

Holding voltage DC/AC (50/60 Hz)

Must drop-out voltage DC/AC (50/60 Hz)

Technical data

Mechanical life AC/DC cycles

Electrical life at rated load AC-7a cycles

Electrical life at rated load DC3/DC5 cycles

B10d - general use cycles

B10d - motor load cycles

Operate/release time ms

Insulation between coil and contacts (1.2/50 μ s) kV

Ambient temperature range °C

Protection category

Approvals (according to type)

22.44.0.xxx.4xxx

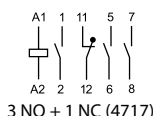
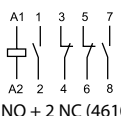
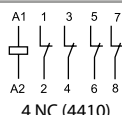
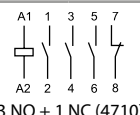
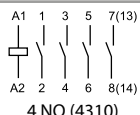


- For high inrush current loads 176 A
- Contact material AgSnO₂

22.64.0.xxx.4xxx



- Specifically intended: for high inrush current loads 240 A
- Contact material AgSnO₂



4 NO, (or 3 NO + 1 NC or 2 NO + 2 NC or 4 NC) ≥ 3 mm

40/176

63/240 (NO) - 50/— (4 NC)

400/480

400/480 (NO)

26000

40000 (NO) - 32900 (4 NC)

22

30 (NO)

11

15 (NO)

20

32 (NO)

—

—

4000

5000

1500

2000

1500

2000

1000

1500

1000

1500

1000

1500

1500

2000

40/4/1.2

63/4/1.2

40/40/40/40/10

63/63/63/63/10

40/40/40/35/8

63/63/60/45/10

1000 (17/50)

1000 (17/50)

AgSnO₂

AgSnO₂

12 - 24 - 110...120 (110 V DC) - 230...240 (220 V DC)

6

6

(0.85...1.1)U_N

(0.85...1.1)U_N

0.85 U_N

0.85 U_N

0.2 U_N

0.2 U_N

3 · 10⁶

3 · 10⁶

100 · 10³

100 · 10³

100 · 10³

100 · 10³

100 · 10³

100 · 10³

150 · 10³

150 · 10³

20/45

20/45

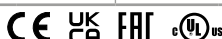
6

6

See table Current - Temperature derating (page 9)

IP 20

IP 20



32 A modular contactor - 2 or 4 pole

- NO and NC contact gap ≥ 3 mm, double break
- Continuous duty for the coil and contacts
- AC/DC silent coil (with varistor protection)
- Protective separation (reinforced insulation) between coil and contacts
- Mechanical indicators as standard
- Compliant with EN 60947-4-1 (Mirror Contact) version available
- AgNi contacts
- Compliant with EN 61095: 2009
- 35 mm rail (EN 60715) mount

22.72/22.74

Box clamp



For outline drawings see page 14

Contact specification

Contact configuration	2 NO, 1 NO + 1 NC, 2 NC	4 NO, 3 NO + 1 NC, 2 NO + 2 NC, 4 NC
Rated current/Maximum peak current	A 32/72	32/68
Rated voltage	V AC 230/400	230/400
Rated load AC1 / AC-7a (per pole @ 400 V)	VA 7000/—	7000/21 000
Rated current AC3 / AC-7b (per pole @ 400 V)	A 9 (NO) - 6 (NC)	8.5 (NO) - 8.5 (NC)
Single/Three-phase motor rating	kW 1.3 (NO) - 0.75 (NC) (@230 V AC)	4 (@400 V AC)
Rated current AC-5a (per pole @ 250 V)	A 13	13
Rated current AC-7c	A —	—
Rated current AC15	A 12	12
Nominal lamp rating:		
(230 V) incandescent/halogen W	2500	2500
fluorescent tubes with electronic ballast W	700	700
CFL W	250	250
(230 V) LED W	300	300
LV halogen or LED with electronic ballast W	300	300
LV halogen or LED with electromagnetic ballast W	500	500
Breaking capacity DC1: 24/110/220 V	A 32/6/0.6	32/6/0.6
Minimum switching load	mW (V/mA) 1000 (17/50)	1000 (17/50)
Contact material	AgNi	AgNi

Coil specification

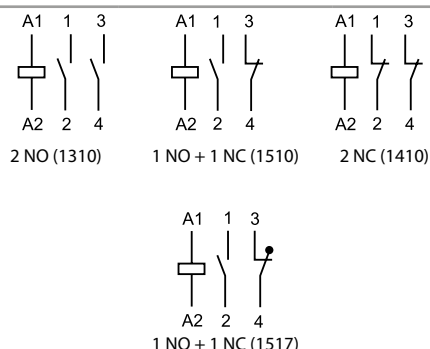
Nominal voltage (U_N)	V DC/AC (50/60 Hz)	24 - 48 - 110 - 220/24 - 48 - 110 - 230
Rated Power AC/DC	VA (50 Hz)/W	2.1 2.6/3.8 (4 NC)
Operating range	AC/DC (50/60 Hz)	(0.85...1.1) U_N
Holding voltage	AC/DC (50/60 Hz)	0.85 U_N
Must drop-out voltage	AC/DC (50/60 Hz)	0.2 U_N

Technical data

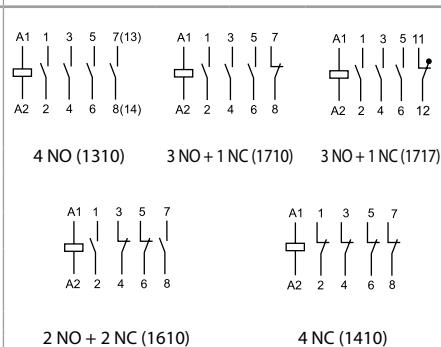
Mechanical life AC/DC	cycles	10 000 000	10 000 000
Electrical life at rated load AC-7a	cycles	150 000 (NO)/100 000 (NC)	150 000
B10d - AC1 (230 V - 32 A)		150 000	150 000
Operate/release time	ms	45/50	45/70
Insulation between coil and contacts (1.2/50 μ s)	kV	4	4
Ambient temperature range	°C	See table Current - Temperature derating (page 9)	
Protection category		IP 20	IP 20

Approvals (according to type)**22.72.0.xxx.1x1x**

- 17.5 mm wide
- Contact material AgNi

**22.74.0.xxx.1x1x**

- 35 mm wide
- Contact material AgNi



Ordering information

Example: 22 series, modular contactor 25 A, 4 NO contacts, coil 230 V AC/DC, AgSnO₂ contacts, Auto-On-Off selector + mechanical indicator + LED, standard version.

	2	2	.	3	4	.	0	.	2	3	0	.	A	B	C	D
Series																
Type																
3 = 25 A modular contactor range																
4 = 40 A modular contactor range																
6 = 63 A modular contactor range																
7 = 32 A modular contactor range																
Number of contacts																
2 = 2 pole																
4 = 4 pole																
Coil version																
0 = AC (50/60 Hz)/DC																
Coil rated voltage																
See coil specifications																
D: Special versions																
0 = Standard																
7 = Conform to EN 60947-4-1: Mirror contacts																
C: Options																
1 = Mechanical indicator																
2 = Mechanical indicator + LED																
4 = Auto-On-Off selector + mechanical indicator + LED																
B: Contact circuit																
3 = All NO contacts																
4 = All NC contacts																
(22.32, 22.64, 22.72 and 22.74)																
5 = 1 NO + 1 NC (SPST-NO + SPST-NC)																
6 = 2 NO + 2 NC (DPST-NO + DPST-NC)																
7 = 3 NO + 1 NC (3PST-NO + SPST-NC)																
A: Contact material																
1 = AgNi																
4 = AgSnO ₂																

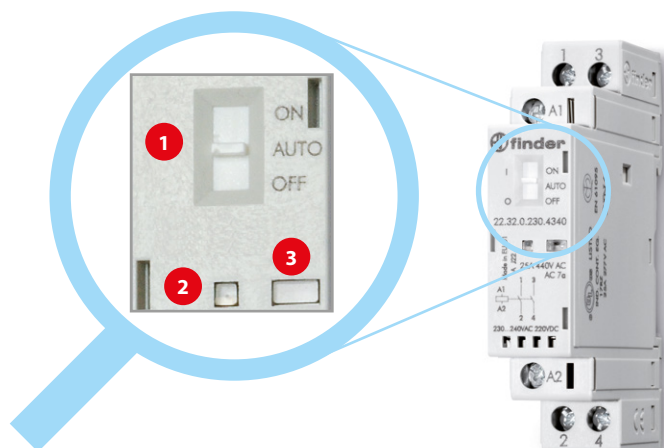
Selecting features and options: only combinations in the same row are possible.

Preferred selections for best availability are shown in **bold**.

Type	Coil version	A	B	C	D
22.32	AC/DC	1 - 4	3 - 4 - 5	2 - 4	0
22.34	AC/DC	1 - 4	3 - 6 - 7	2 - 4	0
22.44	AC/DC	4	3 - 6 - 7	1	0 - 7
22.64	AC/DC	4	3 - 4 - 6 - 7	1	0 - 7
22.72	AC/DC	1	3 - 4 - 5	1	0 - 7
22.74	AC/DC	1	3 - 4 - 6 - 7	1	0 - 7

Options

22.xx.x.xxx.xx4x – Auto-On-Off selector + mechanical indicator + LED (for Type 22.32 / 22.34)



1 Selector

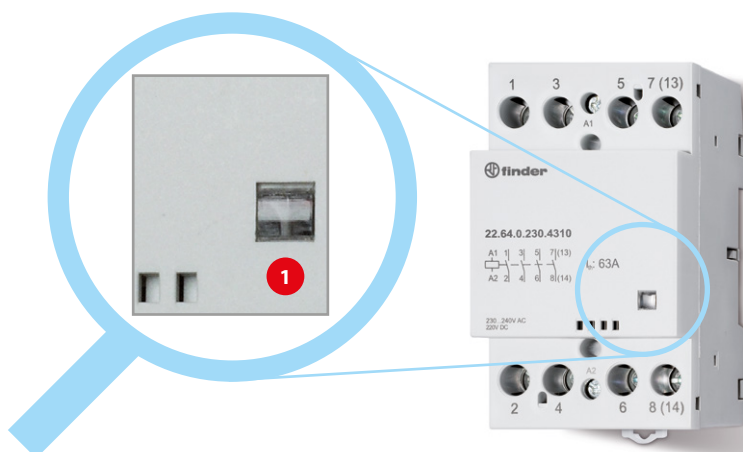
The three-position manual selector has the following functions:

- **ON position** - the contacts are latched in the operated state (NO contacts - closed and NC contacts - open), the mechanical indicator is visible in its window, the state of LED follow the coil supply voltage.
- **AUTO position** - the state of contacts, mechanical indicator and LED follow the coil supply voltage.
- **OFF position** - even if terminals A1 - A2 are supplied with rated voltage, the coil is not energized, and so the contacts remain in the non-operated state, the mechanical indicator is not visible and the LED is not illuminated.

2 LED

3 Mechanical indicator

22.xx.x.xxx.xx1x – Mechanical indicator (for Type 22.44 / 22.64 / 22.72 / 22.74)



1 Mechanical indicator

Technical data

Insulation		22.32/22.34		22.44/22.64	22.72/22.74
Rated insulation voltage	V AC	250	440	440	440
Pollution degree		3*	2	3	3
Insulation between coil and contact set					
Type of insulation		Reinforced		Reinforced	Reinforced
Overvoltage category		III		III	III
Rated impulse voltage	kV (1.2/50 µs)	6		4	4
Dielectric strength	V AC	4000		2000	2000
Insulation between adjacent contacts					
Type of insulation		Basic		Basic	Basic
Overvoltage category		III		III	III
Rated impulse voltage	kV (1.2/50 µs)	4		4	4
Dielectric strength	V AC	2500		2000	2000
Insulation between open contacts		NO contact	NC contact	NO/NC contacts	NO/NC contacts
Contact gap	mm	3	1.5	3	3
Overvoltage category		III	II	III	III
Rated impulse voltage	kV (1.2/50 µs)	4	2.5	4	4
Dielectric strength	V AC/kV (1.2/50 µs)	2500/4	2000/3	2000/3	2000
Insulation between coil terminals					
Rated impulse voltage (according to EN 61180)	kV (1.2/50 µs)	4		2	2

* Only for versions without Auto-On-Off selector. For versions with Auto-On-Off selector pollution degree 2 applies.

Short circuit protection			22.32/22.34		22.44	22.64	22.72/22.74
Rated conditional short circuit current		kA	3		3	3	3
Back-up fuse		A	32 (gL/gG type)		63	80	32
Terminals			Solid and stranded cable				
			22.32/22.34		22.44/22.64		22.72/22.74
Max. wire size – contact terminals	mm ²		1 x 6 / 2 x 4		1 x 25 (solid) - 1 x 16 (stranded)		1 x 10 (solid) - 1 x 6 (stranded)
	AWG		1 x 10 / 2 x 12		1 x 4 (solid) - 1 x 6 (stranded)		1 x 7 (solid) - 1 x 9 (stranded)
Max. wire size – coil terminals	mm ²		1 x 4 / 2 x 2.5		1 x 2.5		1 x 2.5
	AWG		1 x 12 / 2 x 14		1 x 14		1 x 14
Min. wire size – contact and coil terminals	mm ²		1 x 0.2		1 x 1 (coil) - 1 x 1.5 (contacts)		1 x 1 (coil) - 1 x 1 (contacts)
	AWG		1 x 24		1 x 18 (coil) - 1 x 16 (contacts)		1 x 17 (coil) - 1 x 1 (contacts)
 Screw torque	Nm		0.8		0.6 (coil terminals) - 3.5 (contact terminals)		0.6 (coil terminals) - 1.2 (contact terminal)
Wire strip length	mm		9		10		7 (coil) - 9 (terminals)
Other data			22.32	22.34	22.44	22.64	22.72/22.74
Vibration resistance (10...150)Hz		g	4	4	3	3	3
Shock resistance		g	10	10	15	15	15
Power lost to the environment	without contact current	W	2	2	6	6	2.8
	with rated current	W	4.8	6.3	17	37	12.8

Note

22.32/22.34: It is suggested an air gap of 9 mm between adjacent relays for installations and working conditions close to the limit (that is, ambient temperature > 40 °C, coil operated for a prolonged period of time, all contacts loaded with current > 20 A).

22.44/22.64: The maximum ambient temperature with 3 adjacent contactors is + 40 °C; when more than 3 contactors are installed, it is necessary an air gap of 9 mm. With 2 adjacent contactors the maximum ambient temperature is + 55 °C; when more than 2 contactors are installed, it is necessary an air gap of 9 mm.

Current - Temperature derating

Type of contactor		22.72	22.74	22.44	22.64
Rated current	A	32	32	40	63
Operating ambient temperature		-25 °C...+55°C(I _N)...+70 °C (2 NO contacts)			
		-15 °C...+55 °C (1 NO + 1 NC contacts)			
		-15 °C...+55 °C (2 NC contacts)			
		—			
Max. thermal current up to +55 °C	A	32	32	40	63 (NO) - 50 (4 NC)
Max. thermal current @ +70 °C	A	25	25	40	50 (NO)
Number of contactors side-by-side:	≤40 °C	max. 3			
	(40...55) °C	max. 2			
	(55...70) °C	max. 1 (ventilation module or least 9 mm free space on each side)			
Min. conductor @ thermal current @ +70 °C	mm ²	6	6	10	16
Tightening torque - main circuit	Nm	1.2	1.2	3.5	3.5

Contact specification

Ratings and utilization categories according to EN 61095: 2009

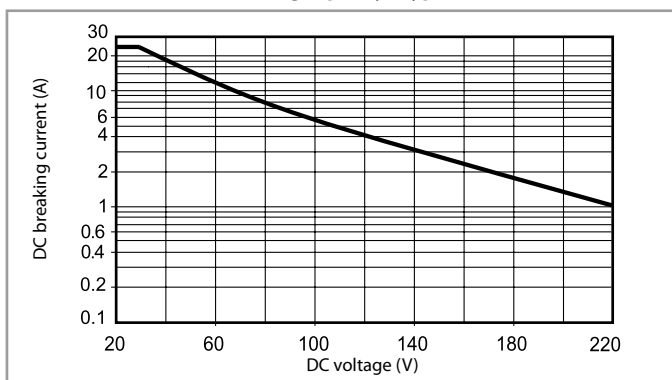
Type	Utilization category					
	AC-7a		AC-7b		AC-7c	
	Rated current (A)	Rated electrical life (Cycles)	Rated current (A)	Rated electrical life (Cycles)	Rated current (A)	Rated electrical life (Cycles)
22.32...1xx0 (AgNi contacts)	25	70 · 10 ³ (NO)	10	30 · 10 ³	—	—
		30 · 10 ³ (NC)				
22.32...4xx0 (AgSnO ₂ contacts)	25	30 · 10 ³	10	30 · 10 ³	10	30 · 10 ³
22.34...1xx0 (AgNi contacts)	25	150 · 10 ³ (NO)	10	30 · 10 ³	—	—
		100 · 10 ³ (NC)				
22.34...4xx0 (AgSnO ₂ contacts)	25	30 · 10 ³	10	30 · 10 ³	10	30 · 10 ³
22.44...4xx0	40	100 · 10 ³	22	150 · 10 ³	—	—
22.64...4xx0	63	100 · 10 ³	30	150 · 10 ³	—	—
22.72...1410	32	150 · 10 ³ (NO) - 100 · 10 ³ (NC)	9 (NO) / 6 (NC)	30 · 10 ⁴	—	—
22.74...1410	32	150 · 10 ³	8.5	50 · 10 ⁴	—	—

Utilization category: **AC-7a** = Slightly inductive loads ($\cos\phi = 0.8$)

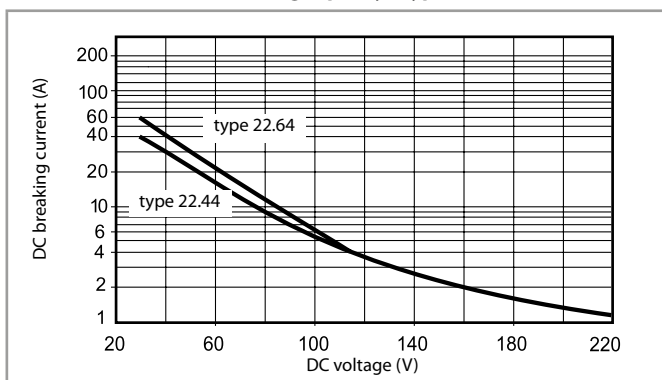
AC-7b = Motor loads; ($\cos\phi = 0.45$, $I_{\text{making}} = 6 \times I_{\text{breaking}}$)

AC-7c = Compensated electric discharge lamps ($\cos\phi = 0.9$, $C = 10 \text{ mF/A}$)

H 22 - Maximum DC1 breaking capacity - Type 22.32/22.34



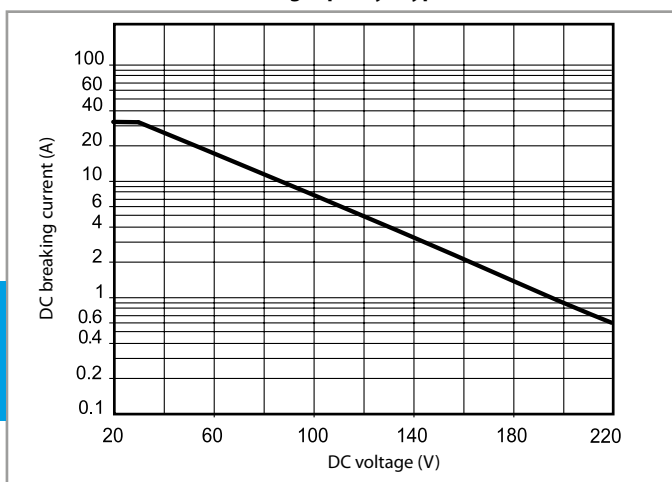
H 22 - Maximum DC1 breaking capacity - Type 22.44/22.64



- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of $\geq 100 \cdot 10^3$ can be expected.
- In the case of DC13 loads, the connection of a diode in parallel with the load will permit a similar electrical life as for a DC1 load.

Note: the release time for the load will be increased.

H 22 - Maximum DC1 breaking capacity - Type 22.72/22.74



Coil specifications

AC/DC version data (type 22.32)

Nominal voltage U_N	Coil code	Operating range		Rated coil consumption I_N at U_N (AC)
		U_{min}	U_{max}	
V		V	V	mA
12	0.012	9.6	13.2	165
24	0.024	19.2	26.4	83
48	0.048	38.4	52.8	42
60	0.060	48	66	33
120 (110...125)	0.120	88	138	16.5
230 (230...240 AC) (220 DC)	0.230	184 (AC) 176 (DC)	264 (AC) 242 (DC)	8.7

AC/DC version data (type 22.34)

Nominal voltage U_N	Coil code	Operating range		Rated coil consumption I_N at U_N (AC)
		U_{min}	U_{max}	
V		V	V	mA
12	0.012	9.6	13.2	165
24	0.024	19.2	26.4	83
48	0.048	38.4	52.8	42
60	0.060	48	66	33
120 (110...125)	0.120	88	138	16.5
230 (230...240 AC) (220 DC)	0.230	184 (AC) 176 (DC)	264 (AC) 242 (DC)	8.7

AC/DC version data (type 22.44 / 22.64)

Nominal voltage U_N	Coil code	Operating range		Rated coil consumption I_N at U_N (AC)
		U_{min}	U_{max}	
V		V	V	mA
12	0.012	10.2	13.2	495
24	0.024	20.4	26.4	250
120 (110...125)	0.120	102	138	50
230 (230...240 AC) (220 DC)	0.230	196	264 (AC) 242 (DC)	26

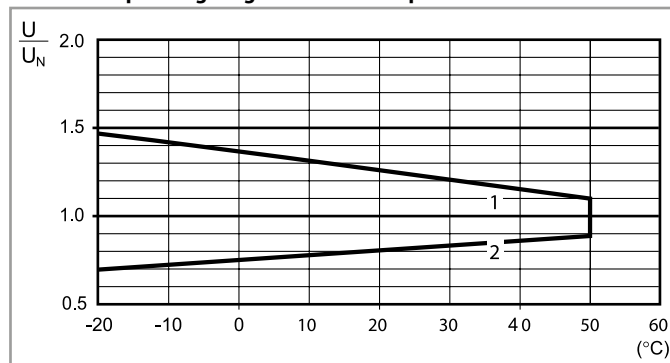
AC/DC version data (type 22.72)

Nominal voltage U_N	Coil code	Operating range		Rated coil consumption I_N at U_N (AC)
		U_{min}	U_{max}	
V		V	V	mA
24	0.024	20.4	26.4	98
48	0.048	40.8	52.8	44
110	0.110	93.5	121	20
230	0.230	195.5	253	9.2

AC/DC version data (type 22.74)

Nominal voltage U_N	Coil code	Operating range		Rated coil consumption I_N at U_N (AC)
		U_{min}	U_{max}	
V		V	V	mA
24	0.024	20.4	26.4	110
48	0.048	40.8	52.8	54.6
110	0.110	93.5	121	24.5
230	0.230	195.5	253	10.8

R 22 - Coil operating range v ambient temperature

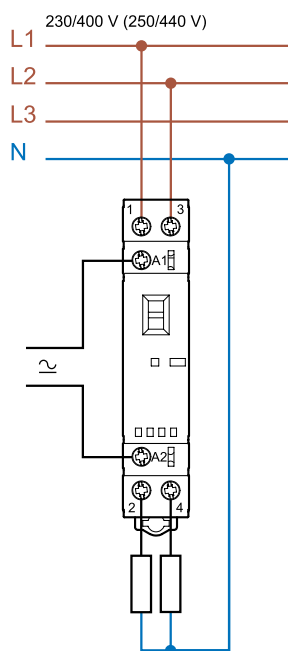


1 - Max. permitted coil voltage.

2 - Min. pick-up voltage with coil at ambient temperature.

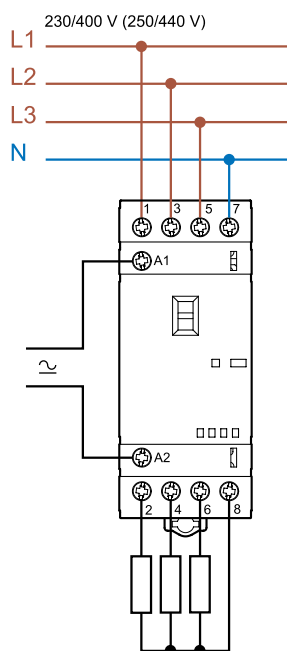
Wiring diagrams

Type 22.32



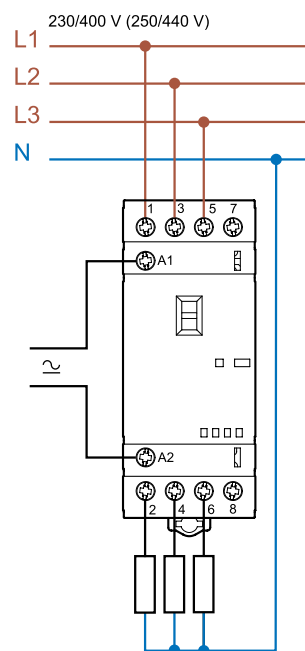
Type 22.34

Line and neutral switched



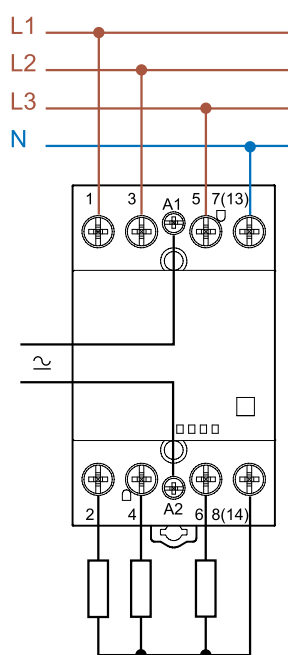
Type 22.34

Line only switched



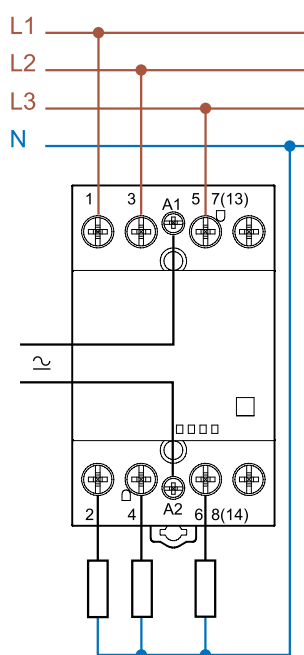
Type 22.44/22.64

Line and neutral switched



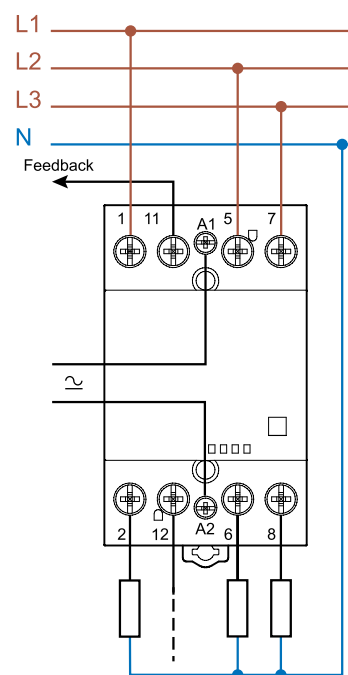
Type 22.44/22.64

Line only switched



Type 22.xx.4717

Mirror Contacts

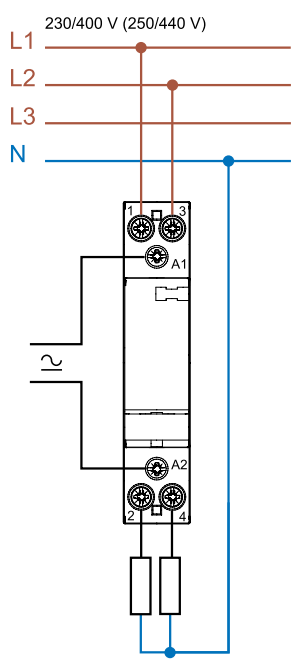


Example of application of contactor with Mirror Contacts: Normally closed contact is definitely in open position if the normally open contact is closed

Wiring diagrams

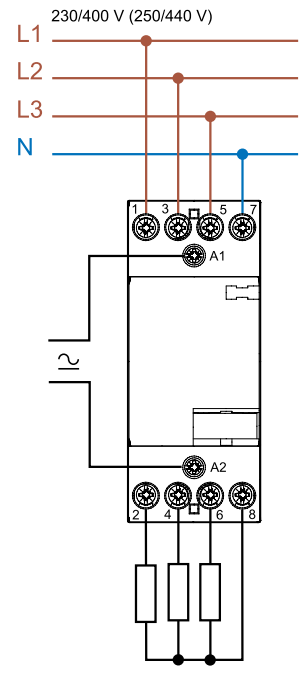
Type 22.72

Phase interruption only

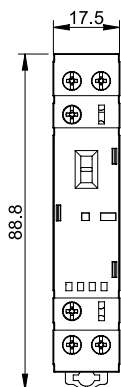
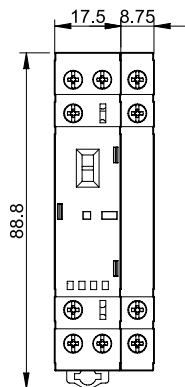
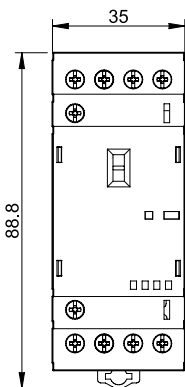
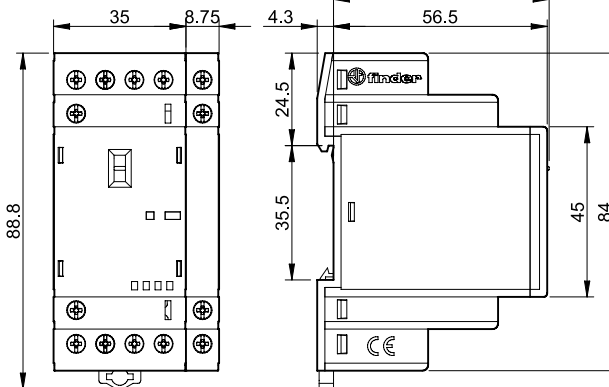
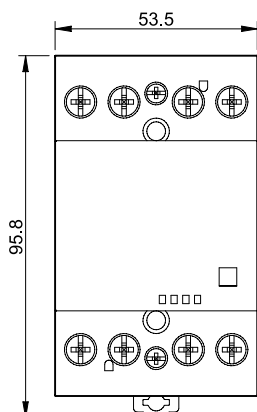
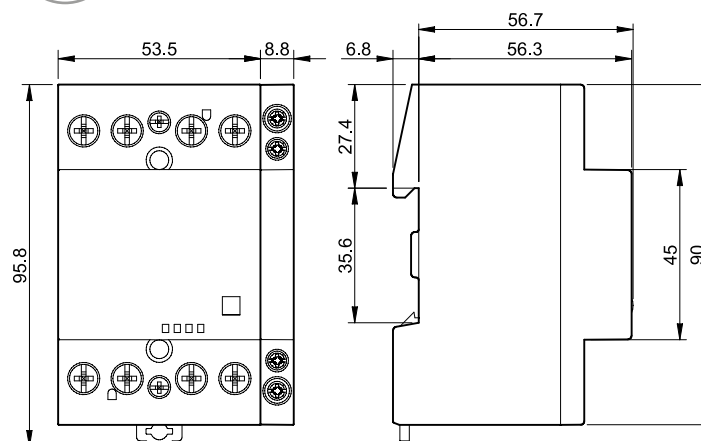
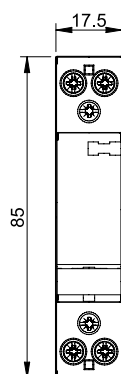
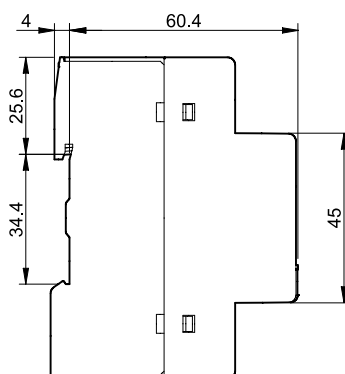
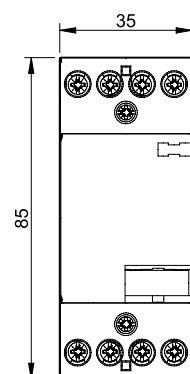


Type 22.74

Phase and neutral interruption

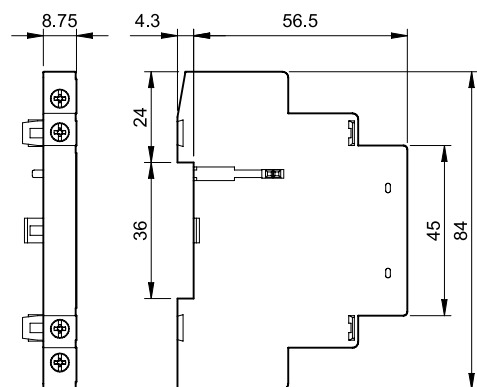


Outline drawings

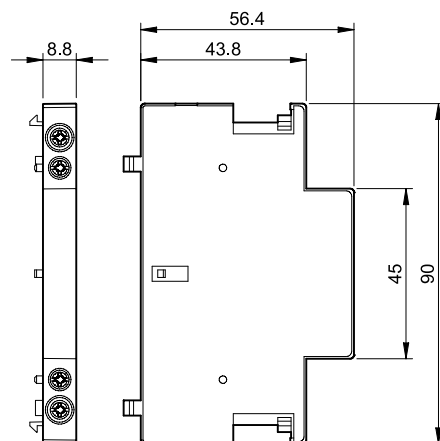
Type 22.32
Box clampType 22.32 + 022.33/022.35
Box clampType 22.34
Box clampType 22.34 + 022.33/022.35
Box clampTypes 22.44/22.64
Box clampTypes 22.44/22.64 + 022.63/022.65
Box clampType 22.72
Box clampTypes 22.74
Box clamp

Outline drawings

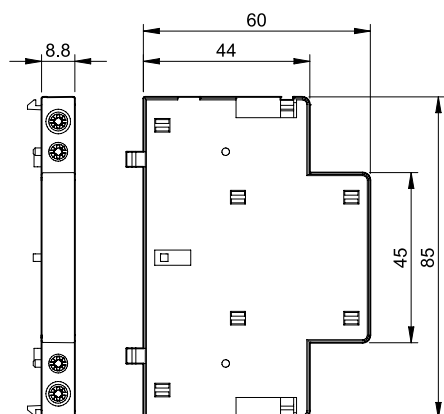
Types 022.33/022.35
Box clamp



Types 022.63/022.65
Box clamp



Types 022.73/022.75
Box clamp



Auxiliary modules

Mechanically linked contacts according to Annex L of EN 60947-5-1

	022.33	022.35	022.63	022.65	022.7x
Type of contactor	Type 22.32 Type 22.34		Type 22.44 Type 22.64		Type 22.74
Contact specification					
Contact configuration	2 NO	1 NO + 1 NC	2 NO	1 NO + 1 NC	2 NO 1 NO + 1 NC
Conventional free air thermal current I_{th} A	6		6		6
Rated power AC15 (230 V) VA	700		700		700
Electrical life at rated load cycles	$30 \cdot 10^3$		$30 \cdot 10^3$		$30 \cdot 10^3$
Minimum switching load mW (V/mA)	1000 (10/10)		1000 (10/10)		1000 (10/10)
Contact material	AgNi		AgNi		AgNi
Short circuit protection					
Rated conditional short circuit current kA	1		1		1
Back-up fuse A	6 (gL/gG type)		6 (gL/gG type)		6 (gL/gG type)
Terminals	Solid and stranded cable		Solid and stranded cable		Solid and stranded cable
Max. wire size mm ²	1 x 4 / 2 x 2.5		1 x 2.5		1 x 2.5
AWG	1 x 12 / 2 x 14		1 x 14		1 x 14
Min. wire size mm ²	1 x 0.2		1 x 1		1 x 1
AWG	1 x 24		1 x 18		1 x 18
Screw torque Nm	0.6		0.8		0.8
Wire strip length mm	9		9		9
Power lost to the environment					
without contact current W	—		—		—
with rated current W	0.5		0.5		0.5
Approvals (according to type)					

NOTE: It is not possible to assembly the auxiliary module on 22.32.0.xxx.x4x0 (2 NC versions).



22.32 + 022.33/022.35



22.34 + 022.33/022.35



22.44 + 022.63/022.65



22.64 + 022.63/022.65

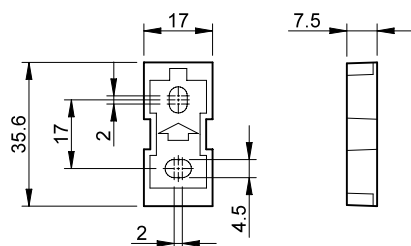
Accessories



020.01

Adaptor for panel mounting (for 22.32 type), plastic, 17.5 mm wide

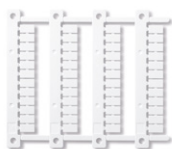
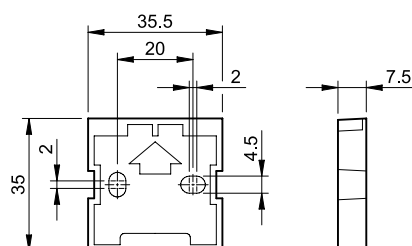
020.01



011.01

Adaptor for panel mounting (for 22.34 type), plastic, 35 mm wide

011.01



060.48

Sheet of marker tags (CEMBRE Thermal transfer printers) for all relays (48 tags), 6 x 12 mm

060.48



019.01

Identification tag, plastic, 1 tag, 17 x 25.5 mm

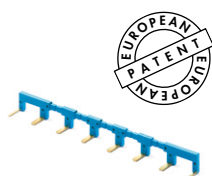
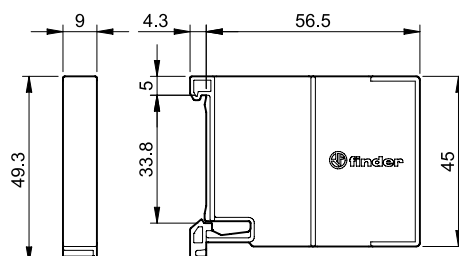
019.01



022.09

Separator for rail mounting, plastic, 9 mm wide

022.09



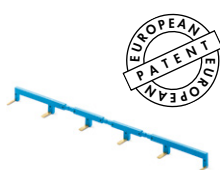
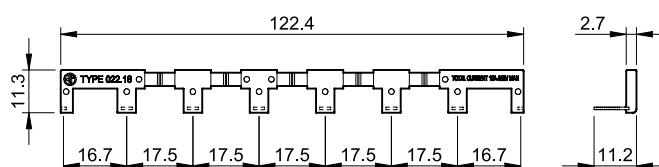
022.18

8-way jumper link for type 22.32, 17.5 mm wide

022.18 (blue)

Rated values

10 A - 250 V



022.26

6-way jumper link for type 22.34, 35 mm wide

022.26 (blue)

Rated values

10 A - 250 V

