

Modular contactors 25 A



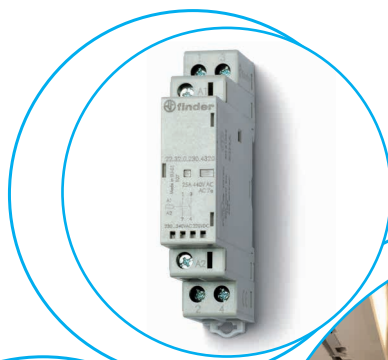
Internal light
management



Ancillary
equipment



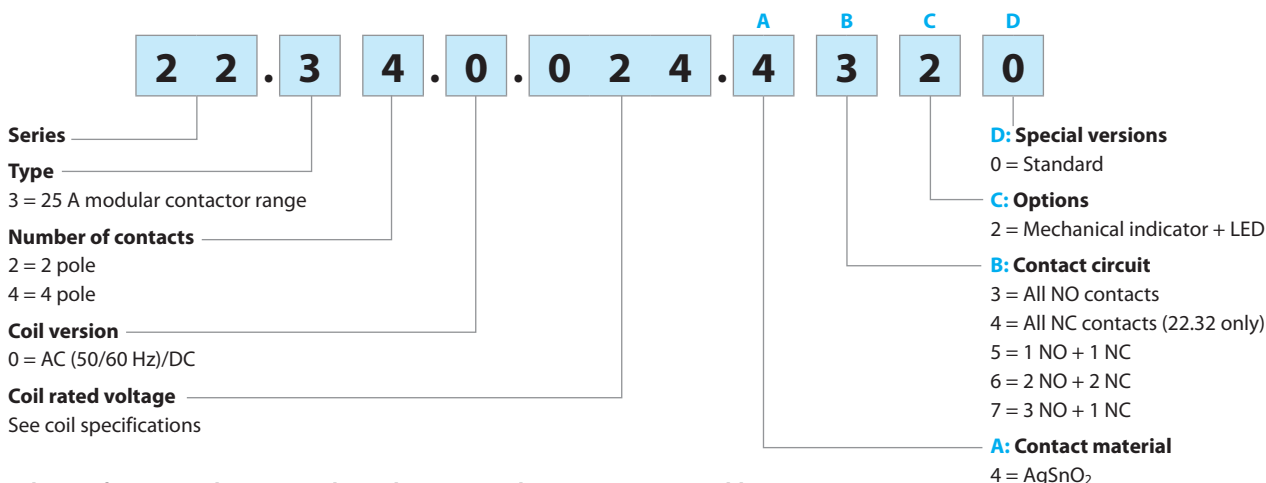
Mobile device
charging



22
SERIES

Ordering information

Example: 22 series, modular contactor 25 A, 4 NO contacts, coil 24 V AC/DC, AgSnO₂ contacts, mechanical indicator + LED.



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	4	3 - 4 - 5	2	0
22.34	AC/DC	4	3 - 6 - 7	2	0

Technical data

Insulation		22.32/22.34	
Rated insulation voltage	V AC	250	440
Pollution degree		3	2
Insulation between coil and contact set			
Type of insulation		Reinforced	
Overvoltage category		III	
Rated impulse voltage	kV (1.2/50 µs)	6	
Dielectric strength	V AC	4000	
Insulation between adjacent contacts			
Type of insulation		Basic	
Overvoltage category		III	
Rated impulse voltage	kV (1.2/50 µs)	4	
Dielectric strength	V AC	2500	
Insulation between open contacts		NO contact	NC contact
Contact gap	mm	3	1.5
Overvoltage category		III	II
Rated impulse voltage	kV (1.2/50 µs)	4	2.5
Dielectric strength	V AC/kV (1.2/50 µs)	2500/4	2000/3
Insulation between coil terminals			
Rated impulse voltage (according to EN 50121)	kV (1.2/50 µs)	4	
Short circuit protection			
Rated conditional short circuit current	kA	3	
Back-up fuse	A	32 (gL/gG type)	
Terminals		Solid and stranded cable	
Max. wire size – contact terminals	mm ²	1 x 6 / 2 x 4	
	AWG	1 x 10 / 2 x 12	
Max. wire size – coil terminals	mm ²	1 x 4 / 2 x 2.5	
	AWG	1 x 12 / 2 x 14	
Min. wire size – contact and coil terminals	mm ²	1 x 0.2	
	AWG	1 x 24	
Screw torque	Nm	0.8	
Wire strip length	mm	9	
Other data		22.32	22.34
Vibration resistance		According to EN 61373	
Shock resistance		According to EN 61373	
Power lost to the environment	without contact current	W	2
	with rated current	W	4.8
			6.3

NOTE: 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).

Contact specification

Ratings and utilization categories according to EN 61095: 2009

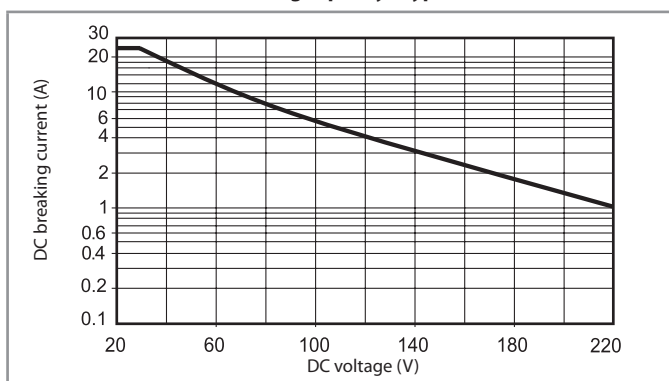
Type	Utilization category					
	AC-7a		AC-7b		AC-7c	
	Rated current (A)	Rated electrical life (Cycles)	Rated current (A)	Rated electrical life (Cycles)	Rated current (A)	Rated electrical life (Cycles)
22.32...4xx0 (AgSnO ₂ contacts)	25	$30 \cdot 10^3$	10	$30 \cdot 10^3$	10	$30 \cdot 10^3$
22.34...4xx0 (AgSnO ₂ contacts)	25	$30 \cdot 10^3$	10	$30 \cdot 10^3$	10	$30 \cdot 10^3$

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



- 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.

Coil specifications

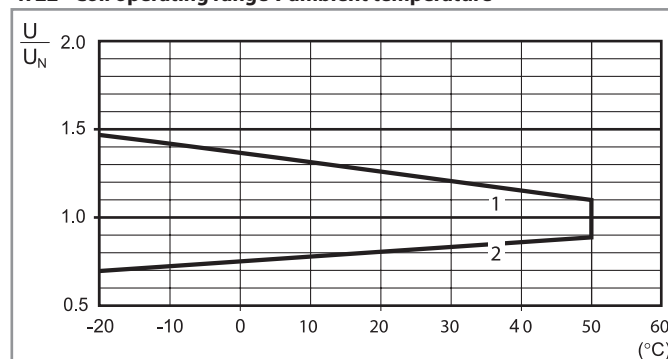
AC/DC version data (type 22.32)

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

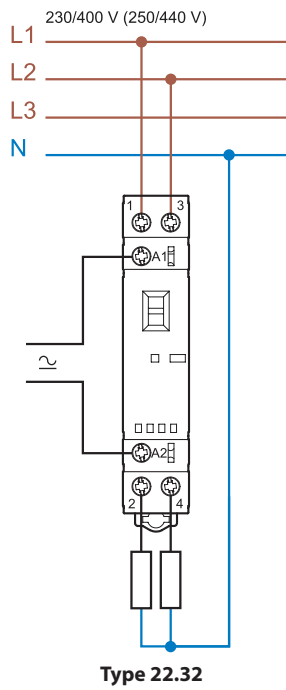
R 22 - Coil operating range v ambient temperature



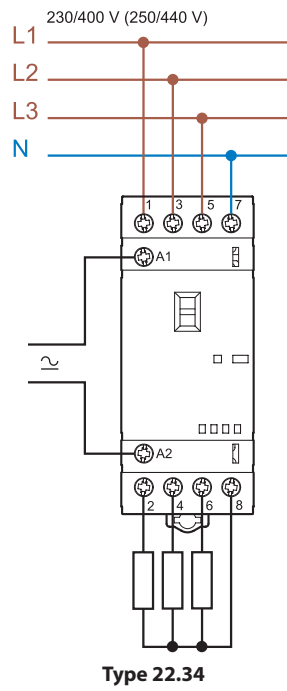
1 - Max. permitted coil voltage.

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

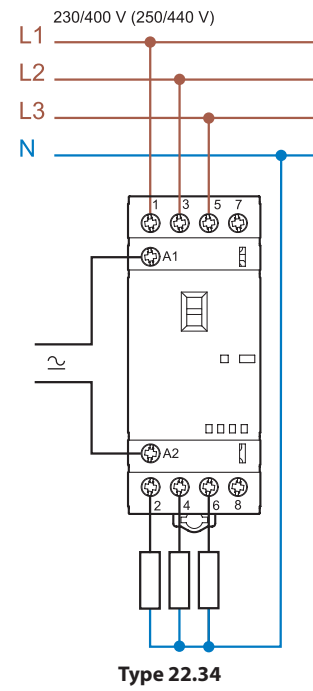
Wiring diagrams



Line and neutral switched

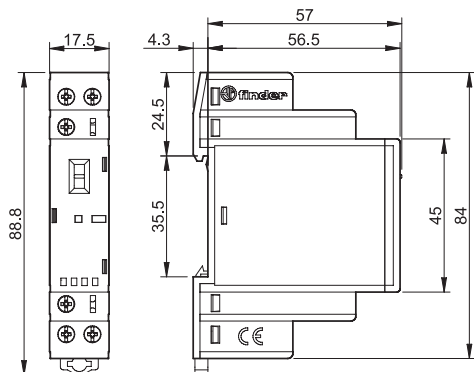


Line only switched

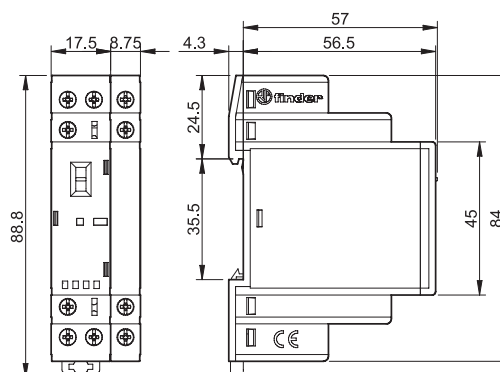


Outline drawings

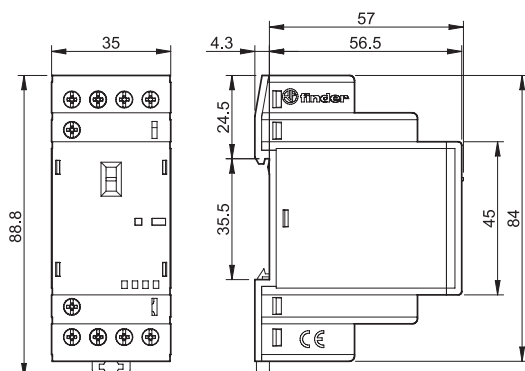
Type 22.32
Box clamp



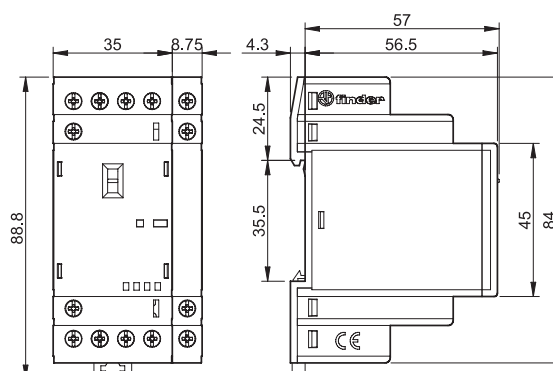
Type 22.32 + 022.33/022.35
Box clamp



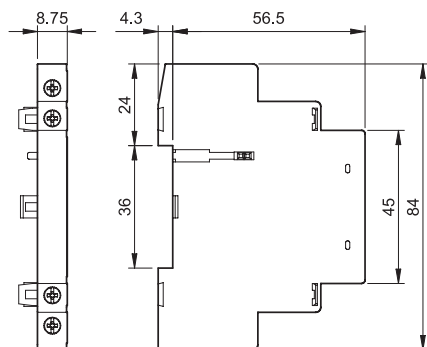
Type 22.34
Box clamp



Type 22.34 + 022.33/022.35
Box clamp

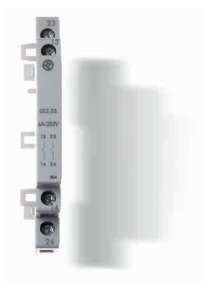


Type 022.33/022.35
Box clamp

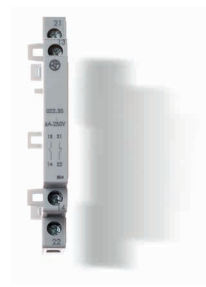


Auxiliary modules

022.33



022.35

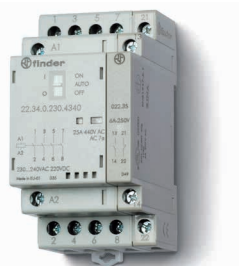


Type of contactor	Type 22.32 Type 22.34	Type 22.32 Type 22.34
Contact specification		
Contact configuration	2 NO	1 NO + 1 NC
Conventional free air thermal current I_{th} A	6	6
Rated power AC15 (230 V) VA	700	700
Electrical life at rated load cycles	$30 \cdot 10^3$	$30 \cdot 10^3$
Contact material	AgNi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

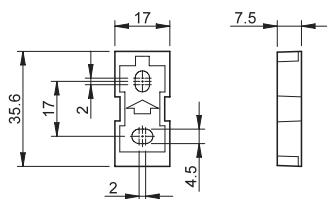
Accessories



020.01

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

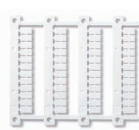
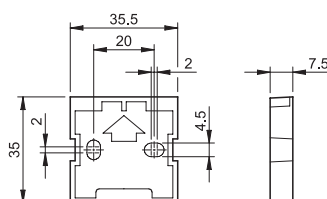
020.01



011.01

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

011.01



060.48

Sheet of marker tags, plastic, 48 tags, 6 x 12 mm, for CEMBRE's thermal transfer printers

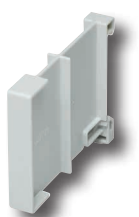
060.48



019.01

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

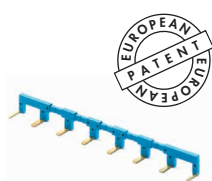
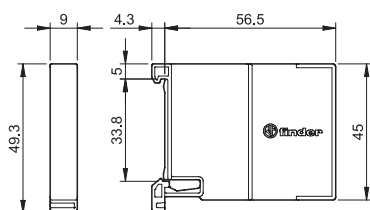
019.01



022.09

Separator for rail mounting, plastic, 9 mm wide

022.09



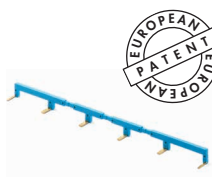
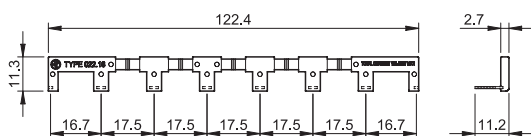
022.18

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

