



moduLo

PAGE 9-2

TWO POLES

- Rated current Ith: 20A (AC1)
- Operating power: 1.3kW (AC3 230V)
- Ideal for domestic applications.



moduLo

PAGE 9-10

THREE AND FOUR POLES

- Rated current Ith: 25A, 40A and 63A (AC1)
- Operating power: 4kW, 11kW and 15kW (AC3 400V)
- Ideal for civil or industrial installations, such as office buildings, stores, hospitals, hotels, etc.

- ◆ Two, three and four-pole versions, 20A to 63A
- ◆ Very silent during operation or control phase
- ◆ Operation flag indicator
- ◆ Add-on auxiliary contacts.



PLANET - DIN

Modular contactors

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Add-on blocks and accessories	9-	3

Contactors CN...



CN20...

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CN25...

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CN40...

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CN63...

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Order code	AC supply voltage ^① [V]	Incorporated auxiliary contacts		Qty per pkg	Wt [kg]
		∩ NO	∩ NC	n°	
Two-pole ^②					
CN20 11 024 ^③	24V	0	1	10	0.125
CN20 11 220 ^③	220-230V	0	1	10	0.125
CN20 20 024 ^③	24V	0	0	10	0.125
CN20 20 220 ^③	220-230V	0	0	10	0.125
Three-pole or four-pole ^②					
CN25 10 024 ^③	24V	1	0	5	0.280
CN25 10 220 ^③	220-230V	1	0	5	0.280
CN25 01 024 ^③	24V	0	1	5	0.280
CN25 01 220 ^③	220-230V	0	1	5	0.280
Three-pole or four-pole ^②					
CN40 10 024 ^{③④}	24V	1	0	5	0.400
CN40 10 220 ^{③④}	220-230V	1	0	5	0.400
CN40 01 024 ^③	24V	0	1	5	0.400
CN40 01 220 ^③	220-230V	0	1	5	0.400
Three-pole or four-pole ^②					
CN63 10 024 ^{③④}	24V	1	0	5	0.408
CN63 10 220 ^{③④}	220-230V	1	0	5	0.408
CN63 01 024 ^③	24V	0	1	5	0.408
CN63 01 220 ^③	220-230V	0	1	5	0.408

- ① Other voltages on request. Consult our Customer Service (Tel. +39 035 4282422).
- ② 2NC version supplied on request.
- ③ The fourth NO pole (CN25 10, CN40 10 and CN63 10 contactors) has the same characteristics as the power poles; therefore it can be used indifferently as auxiliary or as power contact.
- ④ On request CN25 and CN40 contactors in the following versions can be supplied: 2NO + 2NC or 4NC power poles. Contact our Customer Service (Tel. +39 035 4282422).

General characteristics

- DC powered magnetic core system assuring silent operation and noise damping during the control phase
- Overvoltage protection circuit and voltage peak limitation of the magnetic core
- Equipped with 2 or 4 closing contacts of equal capacity permitting use in power or auxiliary circuits
- Operation flag indicator
- Fast mounting.

Operational characteristics

Type	Conventional free-air thermal current AC1 (Ith)	Operating power AC3		Protection fuse gG
		230V	400V	
	[A]	[kW]	[kW]	[A]
CN20	20	1.3	—	20
CN25	25	2.2	4	35
CN40	40	5.5	11	63
CN63	63	8.5	15	80

- Degree of protection: IP20
- Mounting on 35mm DIN rail (IEC/EN 60175).

Operational characteristics of contactor-incorporated auxiliary contacts

Type	Insulation voltage (Ui)	Utilisation category AC15	
		230V	400V
	[V]	[A]	[A]
CN20...	440	6	6
CN25...	440	6	4
CN40...	500	6	4
CN63...	500	6	4

Reference standards

Compliant with standards: IEC/EN 60947-4-1, IEC/EN 61095.

Utilisation

- Lighting systems
- Electric home heating
- Heat pumps
- Conditioning
- Ventilation
- Civil installations.

Lighting circuit switching

See page TC-34.

Add-on blocks and accessories



CNH...



CNP2

Order code	Characteristics	Max qty per contactor	Qty per pkg	Wt
		n°	n°	[kg]

Auxiliary contacts.

CNH 11	1NO + 1NC	1	1	0.045
CNH 20	2NO	1	1	0.045

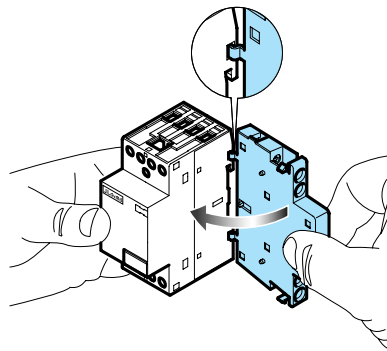
Terminal protection (also sealable).

CNP 0	For CN20...	1	1	0.001
CNP 1	For CN25...	1	1	0.002
CNP 2	For CN40... and CN63...	1	1	0.003

① Set of 2 pieces.

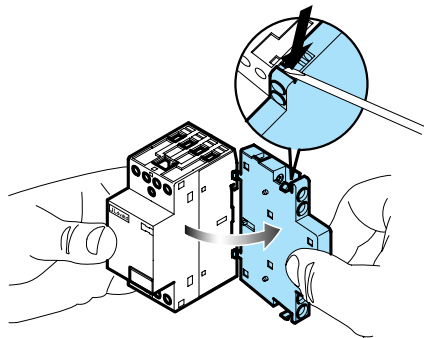
Mounting

Fasten the CNH... auxiliary contact by slightly pressing it in place.



Demounting

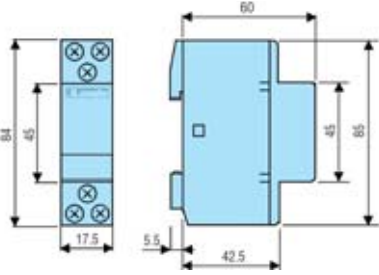
Release the catch using a screwdriver.



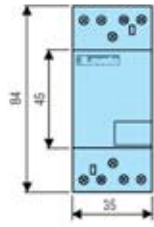
Operational characteristics for auxiliary contacts

- Rated insulation voltage: 440V
- Rated thermal current Ith: 6A
- Maximum tightening torque: 1Nm.

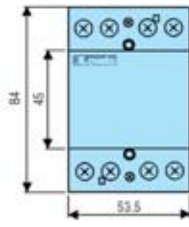
Contactor
CN20



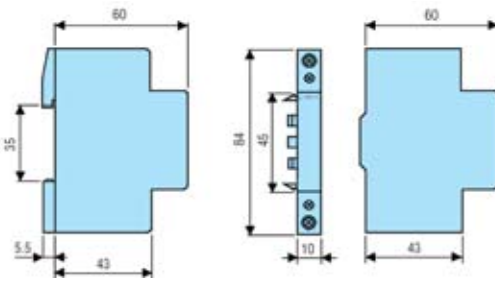
CN 25



CN 40
CN 63

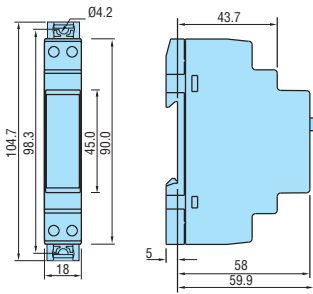


Contact blocks
CNH

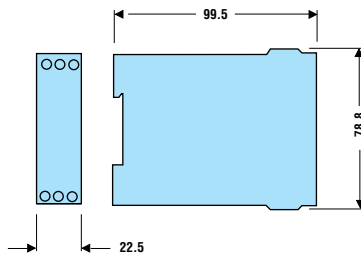


Time relays

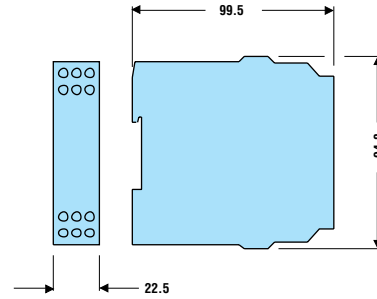
Time relays
TM



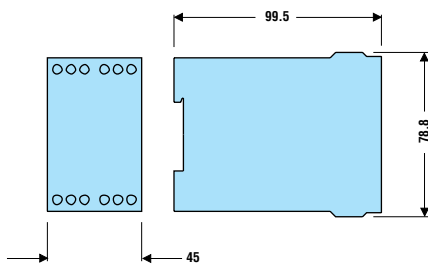
AT1P - AT1CP - ATD - AT1DP



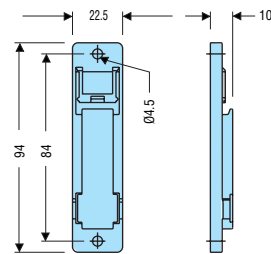
BTPM1 - BTPM - BT2N



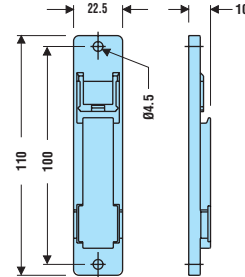
DRPL



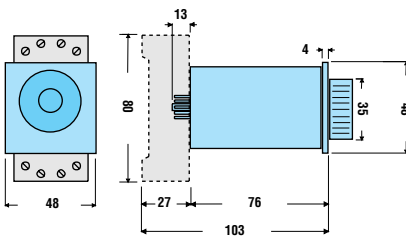
Accessories
CE106



CE107

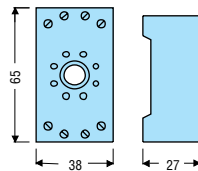


Time relays
L48

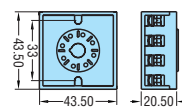


Accessories

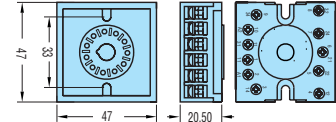
S8 - S11



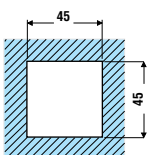
L48 P8



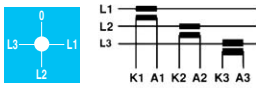
L48 P11



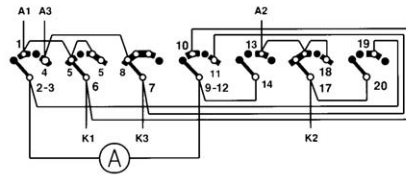
Cutout



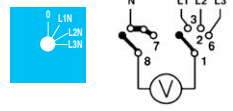
97 - Ammeter switch direct reading or via current transformer



Number of wafers: 5
Switching angle: 90°

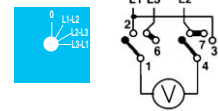


68 - Phase-neutral voltmeter switch



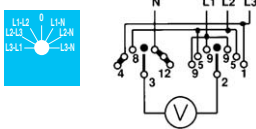
Number of wafers: 2
Switching angle: 30°

67 - Phase-phase voltmeter switch



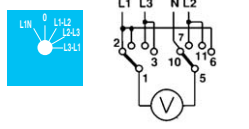
Number of wafers: 2
Switching angle: 30°

66 - Phase-phase phase-neutral voltmeter changeover



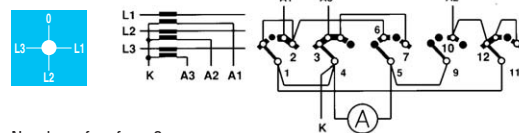
Number of wafers: 3
Switching angle: 30°

60 - Changeover switch 1 phase phase-neutral, 3 phase-phase voltages



Number of wafers: 3
Switching angle: 30°

98 - L1-L2-L3 current changeover switch

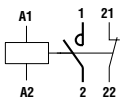


Number of wafers: 3
Switching angle: 90°

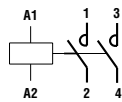
Modular contactors

Two-pole modular contactors

CN20 11

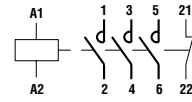


CN20 20

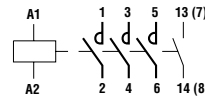


Three and four-pole modular contactors

CN25 01
CN40 01
CN63 01



CN25 10
CN40 10
CN63 10



Add-on auxiliary contacts

CNH11

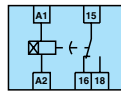


CNH20

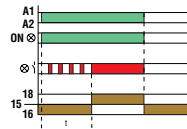


Time relays

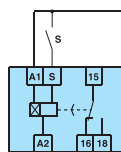
TM P



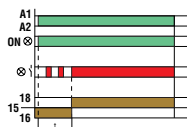
On delay. Delay on make, with start at relay energising.



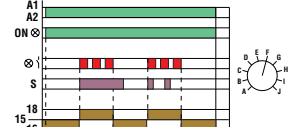
TM M1



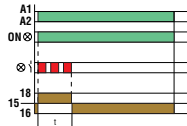
On delay. Delay on make, with start at relay energising



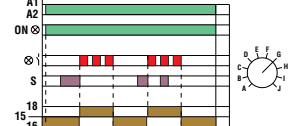
Pulse on relay energising with start at external contact closing



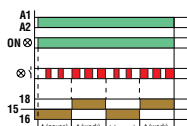
Pulse on relay energising with start on energising



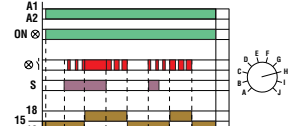
Pulse on relay energising with start at external contact opening



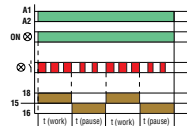
Flasher, starting with OFF (pause) interval. Equal timing recycle.



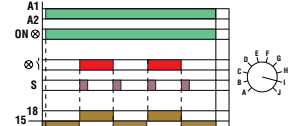
On-Off delay. Delay on make, with start at external contact closing, and delay at break, with start at external contact opening.



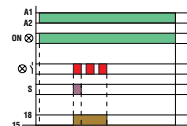
Flasher, starting with ON (work) interval. Equal timing recycle.



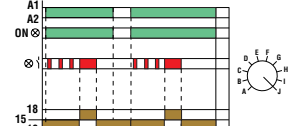
Step relay at each closing of an external contact.



Off delay. Relay energising at external contact closing with start on break



Pulse generator. Unequal timing recycle, starting with OFF pulse time and 0.5sec ON time.



Operational characteristics

TYPE		CN20	CN25	CN40	CN63
CONTACT CHARACTERISTICS					
Conventional free air thermal current I _{th} (40°C)	A	20	25	40	63
Rated insulation voltage U _i	V	440	440	500	500
Average coil consumption at in-rush and holding	W	2.5	3	5	5
Maximum tightening torque for power terminals	Nm	1.2	1.2	3.5	3.5
Power terminal conductor section	minimum	1.2	2.5	1	1
	maximum	6	6	25	25
Maximum tightening torque for coil terminals	Nm	1.2	1.2	1.2	1.2
Coil conductor section	minimum	1			
	maximum	2.5			
LIFE					
Electrical (in AC3 duty)	cycles	300,000	500,000	150,000	150,000
AMBIENT OPERATING CONDITIONS					
Ambient operating temperature	C°	-55...+55	-5...+55	-5...+40	-5...+40

Lighting circuit switching

MAXIMUM NUMBER OF LAMPS FOR EACH CONTACTOR POLE

Type of lamp	Power	CN20	CN24	CN40	CN63
Incandescent	60W	21	25	65	85
	100W	13	15	40	50
	200W	7	7	20	25
	500W	3	3	8	10
	1000W	1	1	4	5
Energy saving	7W	10	15	100	150
	11W	10	15	100	150
	15W	5	15	100	150
	20W	3	10	70	70
Metal halide	200W	—	5	15	20
	300W	—	3	10	13
	500W	—	2	6	8
	1000W	—	1	3	4
Low-pressure sodium vapour (not corrected)	35W	5	6	13	20
	55W	5	6	13	20
	90W	3	4	9	14
	135W	2	3	6	9
	180W	2	3	6	9
High-pressure sodium vapour (not corrected)	50W	12	12	24	38
	70W	10	10	20	30
	110W	8	7	16	25
	150W	6	5	10	16
	250W	3	3	6	10
	400W	2	2	4	6
	1000W	1	—	2	3
Low-pressure sodium vapour (corrected)	35W	1	1	10	16
	55W	1	1	10	16
	90W	—	1	8	12
	135W	—	—	4	7
	180W	—	—	4	7
High-pressure sodium vapour (corrected)	50W	3	3	22	33
	70W	2	3	18	27
	110W	2	2	18	27
	150W	1	1	10	16
	250W	—	1	6	9
	400W	—	—	4	7
	1000W	—	—	2	3
	Standard fluorescent (not corrected)	18W	24	24	90
36W		17	20	65	95
58W		10	13	40	60
Standard fluorescent (corrected)	18W	6	8	45	70
	36W	6	8	45	70
	58W	4	5	25	43
Standard fluorescent (duo circuit)	2 - 18W	22	48	100	150
	2 - 36W	17	24	65	95
	2 - 58W	10	15	40	60
Electronic ballast fluorescent AC operation	1 - 18W	22	30	60	80
	1 - 36W	12	16	30	42
	1 - 58W	8	12	22	30
	2 - 18W	23	32	40	48
	2 - 36W	12	16	20	26
	2 - 58W	7	10	10	18