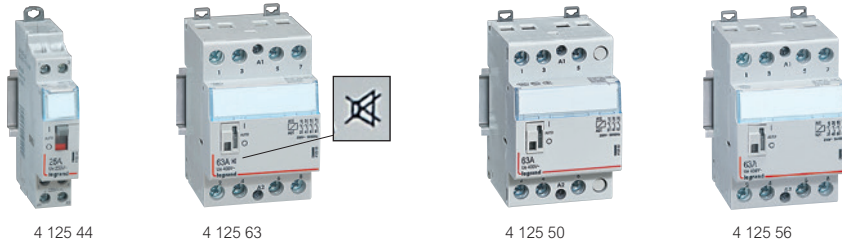


Power contactors with handle CX³

from 16 A to 63 A



Dimensions **see e-catalogue**
 Technical characteristics **p. 80**

Conform to IEC/EN 61095
 Space for power supply busbar on top (up to 25 A)

Pack	Cat.Nos	Power contactors with 24 V~ coil and handle			
		Manual override for test and repair function, carried out via the handle Permanent "ON" or "OFF" without automatic reset			
		2-pole - 250 V~			
1	4 125 14	I max 25 A		Type of contact 2 N/O	Number of modules 1
1	4 125 15 ¹	40 A		2 N/O	2
1	4 125 16 ¹	63 A		2 N/O	2
		4-pole - 400 V~			
1	4 125 17	25 A		4 N/O	2
1	4 125 18 ¹	40 A		4 N/O	3
1	4 125 19 ¹	63 A		4 N/O	3
		Low noise power contactors with 230 V~ coil and handle			
		2-pole - 250 V~			
1	4 125 58	I max 25 A		Type of contact 2 N/O	Number of modules 1
1	4 125 59 ¹	40 A		2 N/O	2
1	4 125 60 ¹	63 A		2 N/O	2
		4-pole - 400 V~			
1	4 125 61	25 A		4 N/O	1
1	4 125 62 ¹	40 A		4 N/O	2
1	4 125 63 ¹	63 A		4 N/O	2

Pack	Cat.Nos	Power contactors with 230 V~ coil and handle			
		Manual override for test and repair function, carried out via the handle Permanent "ON" or "OFF" without automatic closing of the contactor			
		2-pole - 250 V~			
4	4 125 44	I max 25 A		Type of contact 2 N/O	Number of modules 1
1	4 125 45 ¹	40 A		2 N/O	2
1	4 125 47 ¹	63 A		2 N/O	2
1	4 125 48 ¹	63 A		2 N/C	2
		3-pole - 400 V~			
1	4 125 49 ¹	40 A		3 N/O	3
1	4 125 50 ¹	63 A		3 N/O	3
		4-pole - 400 V~			
2	4 125 51	25 A		4 N/O	2
1	4 125 53 ¹	40 A		4 N/O	3
1	4 125 56 ¹	63 A		4 N/O	3
1	4 125 57 ¹	63 A		4 N/C	3

1: Handle can be accessed after removing blanking plate

Technical characteristics

- Rated impulse withstand voltage (Uimp): 4 kV
- Mechanical endurance (no. of operating cycles): 10⁶ cycles
- Operating temperatures: - 25 °C to + 40 °C
- Storage temperatures: - 40 °C to + 70 °C

Contactor protection against short circuits according to standard EN 61095, conditional short-circuit current:

- I_q = 6 kA for 16 to 25 A contactors
- I_q = 3 kA for 40 to 63 A contactors

Circuit breaker or gG fuse rated:

- ≤ 16 A for 16 A rating • ≤ 40 A for 40 A rating
- ≤ 25 A for 25 A rating • ≤ 63 A for 63 A rating

Consumption of a contactor control coil

16 A and 25 A power contactors					
Coil voltage	24 V \sim		230 V \sim low noise	230 V \sim	
Current	16 A and 25 A	25 A	25 A	16 A and 25 A	16 A and 25 A
Type of contact	NC + NO 2 NO	4 NO	2 NO	NC + NO 2 NO 2 NC	2 NC + 2 NO 4 NO 4 NC
Dimensions	1 mod.	2 mod.	1 mod.	1 mod.	2 mod.
Holding current	200 mA	300 mA	12 mA	20 mA	20 mA
Inrush current	970 mA	2500 mA	60 mA	90 mA	200 mA

40 A and 63 A power contactors				
Coil voltage	24 V \sim		230 V \sim	
Current	40 A and 63 A	40 A and 63 A	40 A and 63 A	40 A and 63 A
Type of contact	2 NO	4 NO	2 NO 2 NC	3 NO 4 NO 4 NC
Dimensions	2 mod.	3 mod.	2 mod.	3 mod.
Holding current	250 mA	270 mA	15 mA	30 mA
Inrush current	1750 mA	1500 mA	150 mA	200 mA

Recommendations

Insert a spacing module (Cat.No 4 063 07 p. 61):
 - every two contactors when the ambient temperature is below 40 °C
 - every contactor when the ambient temperature is between 40 and 60 °C

Contactor rating	40 °C	50 °C	60 °C
le = 16 A	16 A	14 A	12 A
le = 25 A	25 A	22 A	20 A
le = 40 A	40 A	36 A	32 A
le = 63 A	63 A	57 A	50 A

Max. connection cross-section in mm²

Conductor type	Ratings ≤ 25 A	Ratings 40 & 63 A
Rigid	6 ² or 2 x 2.5 ²	25 ² or 2 x 10 ²
Flexible	6 ² or 2 x 2.5 ²	25 ² or 2 x 10 ²
Flexible with single end cap	6 ²	16 ²
Flexible with double end cap	2 x 4 ²	2 x 16 ²

Contactor selection charts (number of lamps per contactor)

Incandescent lamps

Tungsten and halogen filaments 230 V \sim								
Nominal wattage	40 W	60 W	75 W	100 W	150 W	200 W	500 W	1000 W
16 A	45	30	24	19	13	10	4	2
25 A	60	48	38	30	20	15	6	3
40 A	96	77	61	48	32	24	10	5
63 A	154	123	97	77	51	38	15	8

ELV halogen bulbs with ferromagnetic ballast						ELV halogen bulbs with electronic ballast						
Nominal wattage	20 W	35 W	50 W	75 W	100 W	150 W	20 W	35 W	50 W	75 W	100 W	150 W
16 A	32	20	15	12	9	6	60	40	28	18	14	9
25 A	52	30	24	16	12	8	80	50	40	26	20	13
40 A	68	39	31	21	16	10	112	70	56	36	28	18
63 A	88	51	41	27	20	14	157	98	78	51	39	25

Contactor selection charts (number of lamps per contactor)(continued)

LED lamps

Nominal wattage	Non-dimmable LED lamps (without driver)									
	2 W	5 W	7 W	9 W	12 W	18 W	22 W	30 W	40 W	50 W
16A	16	16	16	16	16	15	14	12	10	9
25A	30	30	30	30	30	27	25	22	18	15
40A	90	90	85	85	85	80	75	65	50	37
63A	150	150	140	140	140	115	100	80	70	55

Nominal wattage	Dimmable LED lamps (equipped with driver)									
	2 W	5 W	7 W	9 W	12 W	18 W	22 W	30 W	40 W	50 W
16A	40	40	40	35	35	33	30	27	23	20
25A	65	65	65	60	60	56	51	45	33	30
40A	170	170	170	162	162	129	113	95	77	65
63A	265	265	265	260	260	214	176	139	121	105

Fluorescent tubes with electronic ballast

Nominal wattage	Single fluorescent				Double fluorescent		
	18 W	30 W	36 W	58 W	2 x 18 W	2 x 36 W	2 x 58 W
16 A	72	42	36	22	36	20	12
25 A	110	68	58	36	56	30	19
40 A	165	102	87	54	84	45	29
63 A	248	153	131	81	126	68	43

Nominal wattage	Triple fluorescent (series compensated)		Quadruple fluorescent (series compensated)	
	3 x 14 W	3 x 18 W	4 x 14 W	4 x 18 W
16 A	34	26	26	20
25 A	46	38	37	28
40 A	62	51	52	39
63 A	84	69	73	55

Nominal wattage	Compact fluorescent with built-in electronic power supply				
	7 W	11 W	15 W	20 W	23 W
16 A	120	80	64	50	43
25 A	200	125	90	70	60
40 A	280	175	126	98	84
63 A	392	245	176	137	118

Discharge lamps with compensation

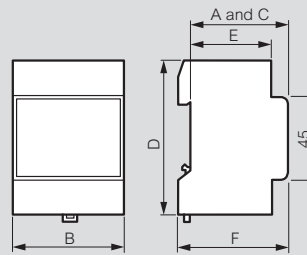
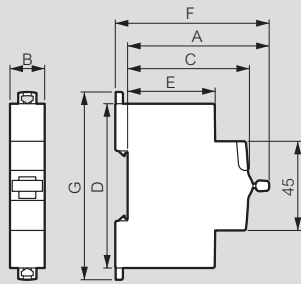
Nominal wattage	Metal halogenide						Low pressure sodium vapour					
	35 W	70 W	100 W	150 W	250 W	400 W	18 W	35 W	55 W	90 W	135 W	180 W
16 A	10	6	5	3	2	1	12	6	5	3	2	2
25 A	15	9	7	5	3	2	20	10	7	5	3	3
40 A	23	14	11	8	5	3	30	15	11	8	5	5
63 A	34	20	16	11	7	5	45	23	16	11	7	7

Nominal wattage	High pressure sodium vapour					High pressure mercury vapour				
	70 W	150 W	250 W	400 W	1000 W	50 W	80 W	125 W	250 W	400 W
16 A	8	7	5	3	1	11	8	6	3	2
25 A	10	9	6	4	2	15	10	8	4	3
40 A	15	14	9	6	3	21	14	11	6	4
63 A	23	20	14	9	5	29	20	16	8	6

Nominal wattage	High pressure mixed			
	100 W	160 W	250 W	400 W
16 A	9	6	4	2
25 A	11	7	5	3
40 A	14	9	7	4
63 A	19	12	8	5

Fluorescent lamps with ferromagnetic ballast, **please consult us**

Dimensions of din-rail equipment



Product	A		B				C	D	E	F	G
	1P	1P+ N	2P	3P	4P						
RX³ MCBs	71.7	17.7	35.4	35.4	53.1	70.8	61	83	44	77.8	88.9
RX³ RCCBs	71.7			35.6		71.2	61	83	44	77.8	88.9
TX³ MCBs	71.7	17.7	35.4	35.4	53.1	70.8	61	83	44	77.8	88.9
TX³ RCCBs	71.7			35.6		71.2	61	83	44	77.8	88.9
Isolating switches DX³	71.7	17.8		17.8/ 35.4	35.6/ 53.1	35.6/ 70.8	61	83	44	77.8	94.8
Remote trip head isolating switches DX³ up to 63A - 1 mod/pole	71.7			35.4	53.1	70.8	61	83	44	77.9	94.8
Remote trip head isolating switches DX³ 100/125A - 1.5 mod/pole	73				80.1	106.8	61	96	47	79	104.3
DX³ RCCBs	71.7			35.6		71.2	61	83	44	77.8	94.8
1P DX³ RCBOs (up to 45A)	68	17.7					60	115	48	74	126.8
1P+N DX³ RCBOs (up to 40A) & 4P (up to 32A)	71.7		35.6			71.2	61	83	44	77.8	94.8
2P & 4P DX³ RCBOs (40A to 63A)	72			71.2		124.6	61	96	44	78.2	107.8
1P+N DX³ MCBs 1 mod	71.7		17.8				61	83	44	77.8	94.8
DX³ MCBs - 1 mod/pole	71.7	17.7	35.4	35.4	53.1	70.8	61	83	44	77.8	94.8
DX³ MCBs - 1,5 mod/pole	73.1	26.7		53.4	80.1	106.8	61	100	47	79	104.3
DX³ add-on modules up to 63A - 1 mod/pole	72			35.6	53.4	53.4	61	96	44	78.2	107.8
DX³ add-on modules up to 63A - 1.5 mod/pole	72			35.6	53.4	53.4	61	96	47	78.2	116.7
DX³ add-on modules 80 to 125A - 1.5 mod/pole	72			71.2	106.8	106.8	61	114	47	78.2	129
DX³ auxiliaries	71.5			8.8 / 17.7			61	83	44	77.7	84.5
DX³ remote control	74.3			17.7 / 35.4			61	83	44	80.5	98.8
DX³ Stop&Go automatic resetting	74.3			35.4			61	83	44	80.5	113.7
Change-over switches	68	17.7		35.6			60	83	44	74	94
CX³ latching relays	64	17.8		17.8	35.6	35.6	61	84.5	44	70.2	94.8
CX³ contactors up to 25A	66.3/ 61	17.8		17.8	35.6	35.6	61	84.5	44	72.6/ 67.3	94.8
CX³ contactors 40A & 63A	62			35.6	53.4	53.4	60	83	44	68	94
Auxiliaries for CX³ contactors and latching relays	61			9/17.8			61	84.5	44	67	84.5
Push-buttons / control switches	68			17.7			60	83	44	74	94
Indicators	68			17.7			60	83	44	69	94
Bells and buzzers	60			17.7			60	76	44	66	85
Light sensitive switches											
Cat.Nos 0 037 21, 4 126 23	60			35.6			60	85	37.5	66	70
Socket outlets	60			44.5			60	83	44	66	92
Time delay relays	60			17.7			60	83	44	66	94
Remote control dimmers											
Cat.No 0 036 58	60			36			60	83	44	66	94
Cat.No 0 036 60	60			72			60	83	44	66	94
Cat.No 0 036 71	60			108			60	83	44	66	94

Description	A	B	C	D	E	F
Programmable time switches						
0 037 05	60	17.8	60	83	44	66
4 127 80/90/94	60	17.8	60	83	44	66
4 127 95, 4 128 12/13	60	53	60	83	44	66
4 126 31/33/41	60	35.6	60	83	44	66
4 126 54/57	60	35.6	60	83	44	66
0 047 70	60	90	60	83	44	66
Transformers and power supplies						
0 042 10/30/31	60	72	60	83	44	66
4 130 91	60	35.8	60	83.5	44	66
4 130 92/93/96	60	71.5	60	83.5	44	66
4 130 98	60	89	60	94	44	66
0 047 91/92	60	105	60	95	44	66
4 131 05/06/07/08	60	89	60	95	44	66
0 047 93	60	70	60	95	44	66
Residual current relay						
0 260 88	60	35.5	60	89	44	66

16 A and 25 A power contactors with or without handle

Catalogue number(s): 4 125 03 / 04 / 05 / 09 / 10 / 14 / 17 / 21 / 22 / 23 / 24 / 33 / 34 / 35 / 36 / 44 / 51 and 927 02 / 03



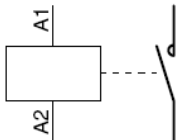
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1. DESCRIPTION - USE

Symbol:



Technology:

. Electromagnetic contactor (monostable relay)

Use:

. For controlling a load remotely via a switch

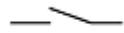
2. RANGE

Conventional thermal current:

. I_{th} = 16 and 25 A

Types of contact:

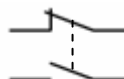
. "NO" contact



. "NC" contact



. "NO + NC" mixed contact



Polarities:

. 2-pole in 1 module (17.8 mm)

- "2NO"
- "2NC"
- "NO+NC"

. 4-pole in 2 modules (35.6 mm)

- "4NO"
- "4NC"
- "2NO + 2NC"
- "3NO + 1 NC"

2. RANGE (continued)

Nominal voltage of the power circuit:

. Un = 250 V/400 V~

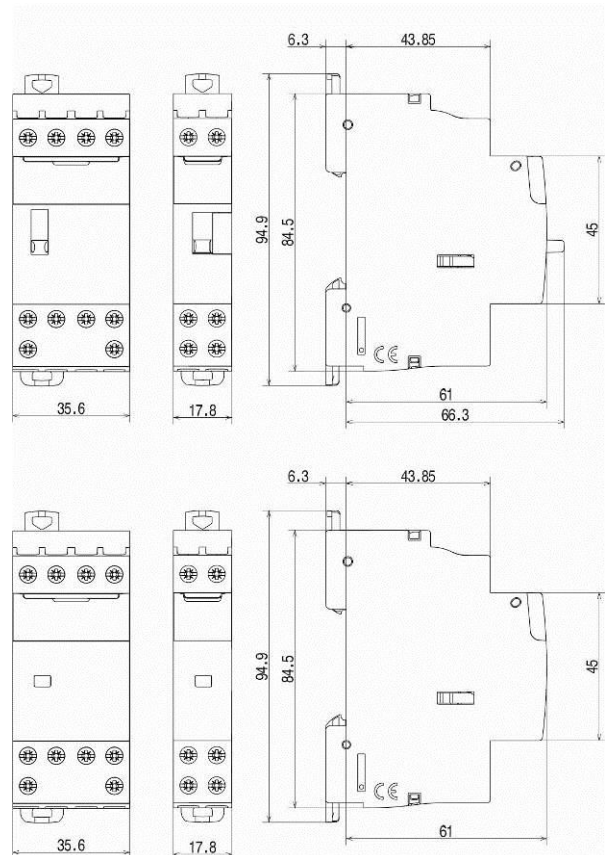
Nominal voltage of the power circuit:

. 24 V and 230 V~

Nominal frequency of the control and power circuits:

. 50/60 Hz

3. DIMENSIONS



16A and 25A power contactors with or without handle

Catalogue number(s): 4 125 03 / 04 / 05 / 09 / 10 / 14 / 17 / 21 / 22 / 23 / 24 / 33 / 34 / 35 / 36 / 44 / 51 and 927 02 / 03

4. POSITIONING - CONNECTION

Installation software:

. XL PRO

Operating position:

. Vertical, horizontal, flat (all positions)

Mounting:

. On symmetrical EN 50-055 rail or DIN 35 rail, using two plastic clips.

Recommended tools:

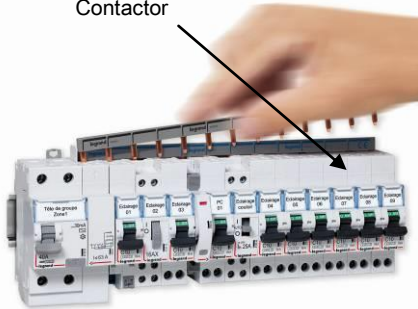
. For the terminal screws: insulated or non-insulated screwdriver, Pozidriv no. 1 or with a 4 mm blade.

. For attaching: screwdriver with blade (5.5 mm max) or Pozidriv no. 1.

Positioning in a row:

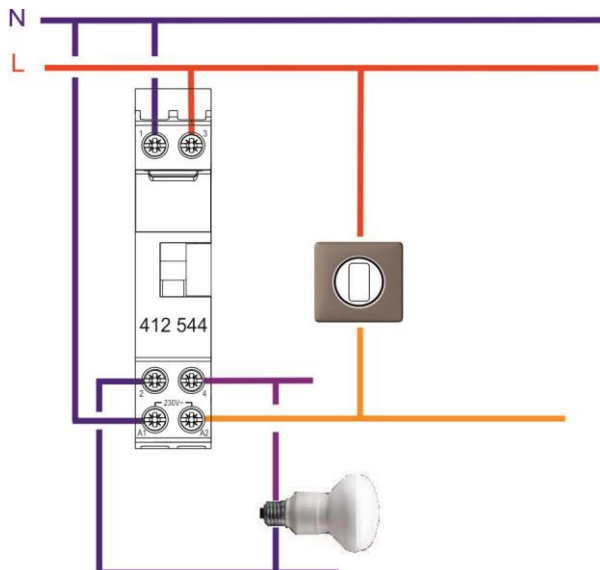
. The product profile and positioning of the terminals allow single-phase and three-phase toothed connection supply busbars to be passed at the top of the product without impairing accessibility of the contactor terminals. This way it is possible to select the position of the pulse operated latching relay freely in the row and to connect the circuit breakers located on the same rail via a supply busbar.

Contactor



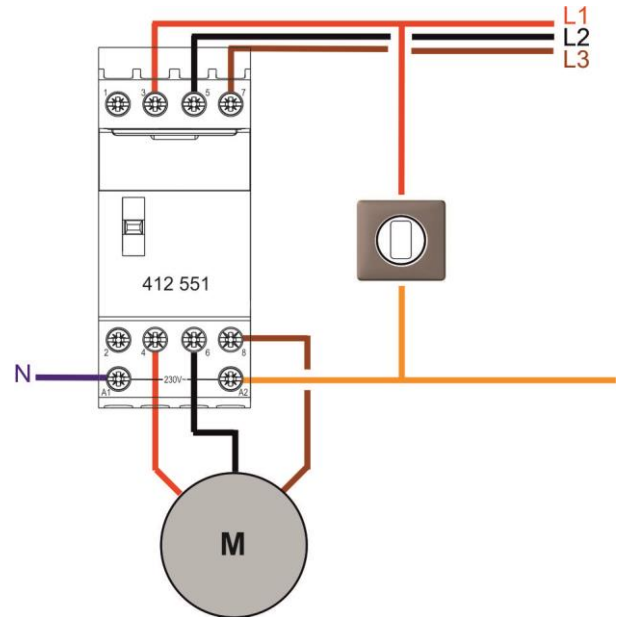
Examples of schematic diagrams:

. "2 NO" contactor

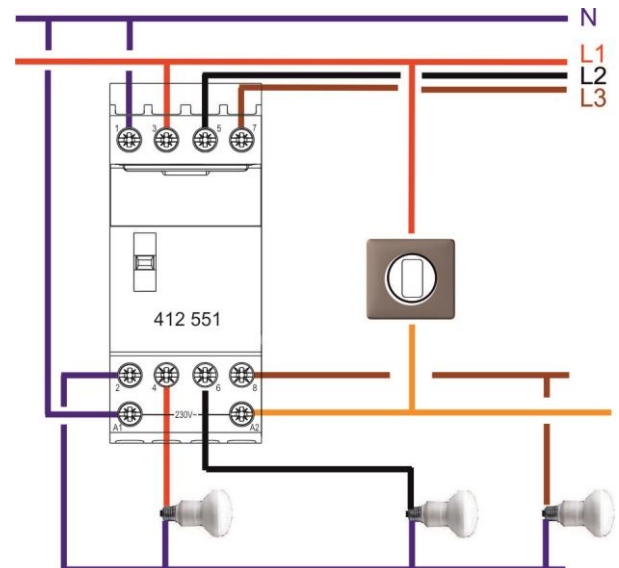


4. POSITIONING - CONNECTION (continued)

. "4NO used as a 3NO" contactor



. "4 NO" contactor



16 A and 25 A power contactors with or without handle

Catalogue number(s): 4 125 03 / 04 / 05 / 09 / 10 / 14 / 17 / 21 / 22 / 23 / 24 / 33 / 34 / 35 / 36 / 44 / 51 and 927 02 / 03

4. POSITIONING - CONNECTION *(continued)*

Connection:

. Screw control and power terminals:

- Type of terminal: caged
- Depth: 12 mm
- Capacity (h x w): 4.7 x 4.7 mm
- Compatible copper conductors

Rigid or flexible without ferrule:

1 x (0.75 to 4 mm² according to EN/IEC 61095 , 6 mm² accepted) or 2 x (0.75 to 2.5 mm²)

Flexible with single ferrule: 1 x (0.75 to 6 mm²)

Flexible with double ferrule: 2 x (0.75 to 4 mm²)

- Screw head: mixed head Pozidriv no. 1 and 4 mm blade
- Screw head: mixed M3.5
- Min. tightening torque: 0.5 Nm/max.: 1.2 Nm recommended: 0.8 Nm

Length of control lines:

. with 24 V contactor: 330 m for 1-module contactor or 100 m for 2-module contactor with 1.5 mm² cables

. with 230 V contactor: 250 m for 1-module contactor or 400 m for 2-module contactor regardless of the connection cable cross-section.

Degree of protection:

- . Terminals protected against direct contact: IP2x (wired device)
- . Front panel protected against direct contact: IP3XD
- . Class II, front panel with faceplate
- . Protection against impacts: IK04

Resistance to tremors:

. No change in the status of the contacts during the "resistance to tremors" test as defined by the standard EN 60898

Device handling:

- . Via remote control (switch).
- . Via ergonomic 3-position handle (I, auto, O) if the product is fitted with one.

Control status display:

. Via orange indicator showing the presence of the control signal or the forced switch-on status

. For contactors with a handle the position of the latter provides the following indications:

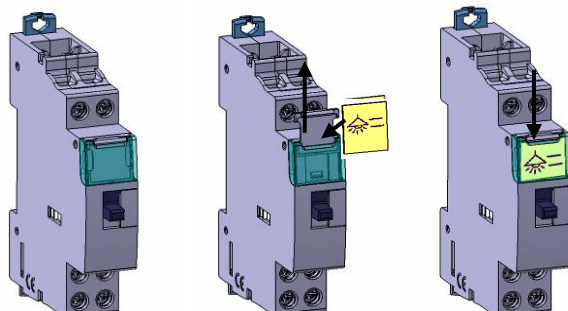
"I" position: Forced switch on/ON

"O" position: Forced switch off/OFF

"Auto" position: Automatic (the contact status depends on the electrical control)

Labelling :

. Marking of the circuits on the front panel with the label holder

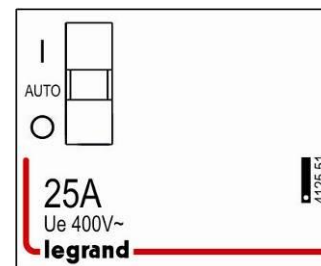
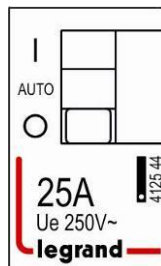


5. GENERAL CHARACTERISTICS

Marking:

By indelible pad printing

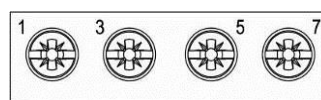
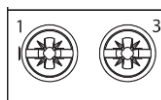
. Front panel



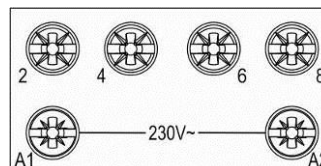
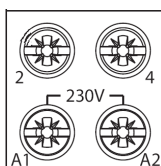
. Marking of the terminals:

Power: 1 to 8 Control: A1 and A2

Upper terminals

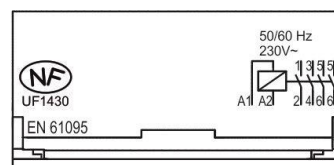
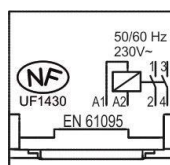


Lower terminals



By laser marking

. Upper panel



Isolation distance:

. Greater than 3 mm in accordance with standard EN 61095

Rated insulation voltage (Ui):

- . 1-pole/2-pole: 250 V~
- . 3-pole/4-pole: 400 V~

Degree of pollution:

. 2 in accordance with EN 61095

Insulation voltage between the control circuit and the power circuit:

. 4 kV

16A and 25A power contactors with or without handle

Catalogue number(s): 4 125 03 / 04 / 05 / 09 / 10 / 14 /
17 / 21 / 22 / 23 / 24 / 33 / 34 / 35 / 36 / 44 / 51 and
927 02 / 03

5. GENERAL CHARACTERISTICS *(continued)*

Rated impulse withstand voltage (Uimp):

. 4 kV

Resistance to electromagnetic disturbance (EMC):

. 1.2/50 µs impulse resistance: category 4 (2 kV between lines, 4 kV between line and earth)

Impact of height:

. No impact up to 2,000 m

Rated frequency:

. 50/60 Hz

Rated operating current depending on the category of use (Ie):

. AC7a or AC1 (heating): Ie = 16 A or 25 A depending on the catalogue numbers

. AC7b or AC3 (motor control): Ie = 10 A (2.2 kW for 2NO and 4 kW for 4NO) for the 25 A contactors and Ie = 6.5 A for the 16 A contactors

Rated operating voltage (Ue):

. Ue = 250 V ~ for 1/2-pole

. Ue = 400 V ~ for 3/4-pole

Protection against short-circuits:

. Conditional short-circuit current Iq = 6 000 A in accordance with EN 61095

. Permissible thermal stress: 16 000 A²s

Recommendations:

. For protecting 16 A and 25 A contactors against short circuits depending on the conditional current Iq = 6 000 A NF EN 61095, using a circuit breaker or fuse gG with nominal voltage ≤ 25 A is recommended.

Control voltage (Uc):

. Uc = 230 V~ or 24 V~

Control operating voltage:

. from 0.85 to 1.1 times Uc

Control return voltage:

. from 0.2 to 0.75 times Uc

Control pulse duration:

. 100 ms minimum

Rated service:

. Intermittent service: 600 operating cycles at the present time in accordance with EN 61095 (category 600)

Operating force using the handle:

. 1,000 g for closing and opening

Endurance:

In number of operating cycles (ON + OFF)

. Control via the handle: 500 operating cycles

. Electrical control:

- 1,000,000 operating cycles with no load
- 100,000 operating cycles at AC-7a in accordance with EN 61095 (same as at AC1)
- 150,000 operating cycles at AC-7b in accordance with EN 61095 (same as at AC3)

Operation at 400 Hz:

. no

5. GENERAL CHARACTERISTICS *(continued)*

DC usage:

. Control: does not work with DC

. Power circuit: NO contacts and NC contacts can be used to control loads supplied with DC in compliance with the derating table below

Ue	DC 1 (resistive load)			DC 3 (motors)		
	Number of poles in series			Number of poles in series		
	1 p	2 p	3 p	1 p	2 p	3 p
8 V=	25 A	25 A	25 A	21.5 A	25 A	25 A
12 V=	25 A	25 A	25 A	20 A	25 A	25 A
24 V=	25 A	25 A	25 A	16 A	25 A	25 A
48 V=	21 A	25 A	25 A	8 A	18 A	25 A
110 V=	7 A	16 A	25 A	1.6 A	6.5 A	16 A

Control consumption

Type of contact	Control voltage	Consumption in mA (at Un)	
		Holding	Inrush
2NO/NC+NO	24 V~	200	970
4NO		300	2500
2NO	230 V~	12	60
2NC		20	90
NC+NO		20	90
4NO		20	200

Type of contact	Control voltage	Consumption in W (at Un)
		Holding
2NO/NC+NO	24 V~	1.4
4NO		2.1
2NO	230 V~	0.8
2NC		1.2
NC+NO		1.2
4NO		1.3

AVERAGE dissipated power via contact at 230 V:

. 0.8 W via contact for 16 A contactor

. 1.8 W via contact for 25 A contactor

Annual consumption of the contactors:

. 230/400V 50Hz network power circuits

. Total consumption, control + power, in "standard" usage conditions.

Type of contact	Control voltage	Consumption in KWh (at Un)
NC+NO	24 V~	4
2NO		4.8
4NO		7.6
2NO	230 V~	3.1
2NC		1.0
NC+NO		3.4
4NO		5.4
4NC		2.0
2NC+2NO		4.4

16 A and 25 A power contactors with or without handle

Catalogue number(s): 4 125 03 / 04 / 05 / 09 / 10 / 14 /
17 / 21 / 22 / 23 / 24 / 33 / 34 / 35 / 36 / 44 / 51 and
927 02 / 03

5. GENERAL CHARACTERISTICS (continued)

Noise on holding:

. Traditional contactor: ≤ 45 dB at 1 cm

Operating temperature:

. A standard contactor is set to function with its nominal current at an ambient temperature of + 30°C

. In order to limit overheating the recommendation is to insert a spacing element (Cat. No. 406 307)

- every 2 contactors if the ambient temperature ≤ 40°C
- for every contactor if the ambient temperature is > 40°C

. The following derating needs to be applied depending on the ambient temperature values:

- from - 25°C to + 40°C, no derating
- from + 40°C to + 60°C with the derating below

Contactor rating	40°C	50°C	60°C
I _e = 16 A	16 A	14 A	13 A
I _e = 25 A	25 A	22 A	20 A

Storage temperature:

. From - 40°C to +70°C

Enclosure material:

. Polyamide

Plastic material characteristics:

. Compliance with the resistance to incandescent wire for 30 seconds in accordance with IEC 695-2-1:

- Handle: 650°C
- Other parts: 850°C

Weight:

. I_e = 16/25 A

Average 0.120 kg per 1-pole and 2-pole device
average 0.230 kg per 4-pole device

Packaged volume:

- . 0.2 dm³ for the 1-pole and 2-pole devices packaged in units
- . 1.6 dm³ for the 1-pole and 2-pole devices packaged in packs of 10
- . 0.4 dm³ for the 4-pole devices packaged in units

Contactor selection chart:

For a 10-year service life with 200 days of usage per year

. Heating

Maximum power depending on the number of operations per day (kW)						
Number of operations per day	≤ 50	75	100	250	500	
Single-phase heating 230 V~	16 A	3,6	2,8	2,4	1,6	0,8
	25 A	5,6	4,4	3,7	2,5	1,25
Three-phase heating 400 V~	25 A	16	13,7	11,3	5	3,7
Floor heating	16 A	1,5				
	25 A	2,3				

. Motors (AC-7b)

Maximum power (kW)		
Single phase motor 230 V~	16 A	1,5
	25 A	2,3
Three-phase motor 400 V~	25 A	4

5. GENERAL CHARACTERISTICS (continued)

. Lighting

Maximum number of bulbs per contact of the contactor in
230 V~ single-phase and 400 V~ three-phase + neutral networks

. In a 230 V~ three-phase network without neutral the values stated in these tables must be divided by $\sqrt{3}$

- Incandescent bulbs

Low-voltage tungsten 230 V~ and halogen filaments				
Unit power	40 W	60 W	75 W	100 W
16 A	45	30	24	19
25 A	60	48	38	30

Low-voltage tungsten 230 V~ and halogen filaments				
Unit power	150 W	200 W	500 W	1000 W
16 A	13	10	4	2
25 A	20	15	6	3

ELV halogen bulbs with ferromagnetic ballast						
Unit power	20 W	35 W	50 W	75 W	100 W	150 W
16 A	32	20	15	12	9	6
25 A	52	30	24	16	12	8

ELV halogen bulbs with electronic ballast						
Unit power	20 W	35 W	50 W	75 W	100 W	150 W
16 A	60	40	28	18	14	9
25 A	80	50	40	26	20	13

- Fluorescent tubes with ferromagnetic ballast

Single parallel compensated fluorescent tubes with ferromagnetic ballast					
Unit power	18 W	20 W	36 W	58 W	115 W
16 A	24	24	16	11	5
25 A	33	30	25	17	9

Double series compensated fluorescent tubes with ferromagnetic ballast					
Unit power	2 x 20 W	2 x 36 W	2 x 40 W	2 x 58 W	2 x 140
16 A	30	24	22	15	6
25 A	45	38	35	24	10

Quadruple series compensated fluorescent tubes with ferromagnetic ballast	
Unit power	4 x 18 W
16 A	16
25 A	24

Compact fluorescent tubes with integrated starter for ferromagnetic ballast				
Unit power	7 W	10 W	18 W	26 W
16 A	50	40	28	19
25 A	60	50	42	28

16 A and 25 A power contactors with or without handle

Catalogue number(s): 4 125 03 / 04 / 05 / 09 / 10 / 14 /
17 / 21 / 22 / 23 / 24 / 33 / 34 / 35 / 36 / 44 / 51 and
927 02 / 03

5. GENERAL CHARACTERISTICS (continued)

- Fluorescent tubes with electronic ballast

Single fluorescent tubes electronic ballast				
Unit power	18 W	30 W	36 W	58 W
16 A	72	42	36	22
25 A	110	68	58	36

Double fluorescent tubes with electronic ballast			
Unit power	2 x 18 W	2 x 36 W	2 x 58 W
16 A	36	20	12
25 A	56	30	19

Triple fluorescent tubes with electronic ballast (series compensated)		
Unit power	3 x 14 W	3 x 18 W
16 A	34	26
25 A	46	38

Quadruple fluorescent tubes with electronic ballast (series compensated)		
Unit power	4 x 14 W	4 x 18 W
16 A	26	20
25 A	37	28

Compact fluorescent tubes with built-in electronic power supply					
Unit power	7 W	11 W	15 W	20 W	23 W
16 A	120	80	64	50	43
25 A	200	125	90	70	60

- Discharge lamps with compensation

Metal halogenide						
Unit power	35 W	70 W	100 W	150 W	250 W	400 W
16 A	10	6	5	3	2	1
25 A	15	9	7	5	3	2

Low pressure sodium vapour						
Unit power	18 W	35 W	55 W	90 W	135 W	180 W
16 A	12	6	5	3	2	2
25 A	20	10	7	5	3	3

High pressure sodium vapour					
Unit power	70 W	150 W	250 W	400 W	1000 W
16 A	8	7	5	3	1
25 A	10	9	6	4	2

High pressure mercury vapour					
Unit power	50 W	80 W	125 W	250 W	400 W
16 A	11	8	6	3	2
25 A	15	10	8	4	3

High pressure mixed				
Unit power	100 W	160 W	250 W	400 W
16 A	9	6	4	2
25 A	11	7	5	3

ELV halogen bulbs with electronic ballast						
Unit power	20 W	35 W	50 W	75 W	100 W	150 W
16 A	60	40	28	18	14	9
25 A	80	50	40	26	20	13

5. GENERAL CHARACTERISTICS (continued)

- Led lamps

In (A)	Led lamps number without driver or not dimmable									
	2W	5W	7W	9W	12 W	18 W	22 W	30 W	40 W	50 W
16 A	16	16	16	16	16	15	14	12	10	9
25 A	30	30	30	30	30	27	25	22	18	15

In (A)	Led lamps number with driver or dimmable									
	2W	5W	7W	9W	12 W	18 W	22 W	30 W	40 W	50 W
16 A	40	40	40	35	35	33	30	27	23	20
25 A	65	65	65	60	60	56	51	45	33	30

6. EQUIPMENT AND ACCESSORIES

Auxiliaries:

. NO+NC changeover contact signalling auxiliaries catalogue numbers:

4 124 29 and 4 124 30.

- Catalogue number 4 124 29 for 1 module wide 2-pole contactors

- Catalogue number 4 124 30 for 2 module wide 3 and 4-pole contactors

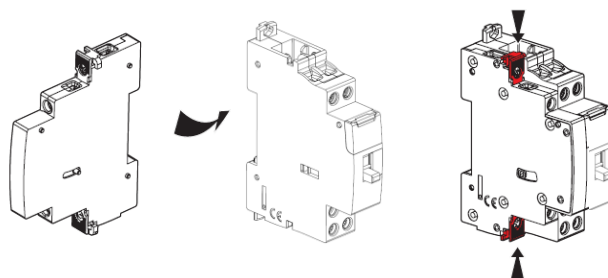
- Installed to the left of the contactor

- For signalling the position status of the contacts of the product to which it is attached

- maximum of 2 auxiliaries per contactor

Attaching auxiliaries:

. Auxiliaries are installed to the left of the contactors



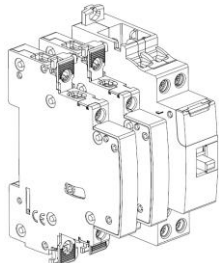
16 A and 25 A power contactors with or without handle

Catalogue number(s): 4 125 03 / 04 / 05 / 09 / 10 / 14 / 17 / 21 / 22 / 23 / 24 / 33 / 34 / 35 / 36 / 44 / 51 and 927 02 / 03

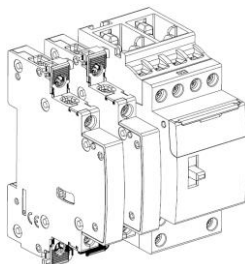
6. EQUIPMENT AND ACCESSORIES *(continued)*

Attaching auxiliaries *(continued)*:

- . Option of adding two signalling auxiliaries per contactor
- Cat. No. 4 124 29



- Cat. No. 4 124 30



7. COMPLIANCE AND APPROVALS

Compliance with standards:

- . NF EN 61095/IEC 61095
- . NF EN 60947-4-1: AC1 and AC3

Classification in accordance with Appendix Q: (standard IEC/EN 60947-1)

- . Category F

Inter alia: temperature test range -25°C/+70°C, vibration test 2 Hz to 13.2 Hz with ± 1 mm movement, 13.2 Hz to 100 Hz acceleration ± 0.7 g, salt spray in accordance with IEC 60068-2-52

Respect for the environment – Compliance with European Union Directives:

- . Compliance with Directive 2002/95/EC of 27/01/03 known as "RoHS" which provides for a restriction on the use of dangerous substances such as lead, mercury, cadmium, hexavalent chromium and polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) brominated flame retardants from 1st July 2006
- . Compliance with the Directive 91/338/EEC of 18/06/91 and decree 94-647 of 27/07/04

Plastic materials:

- . Plastic material without halogen.
- . Labelling of parts compliant with ISO 11469 and ISO 1043.

Packaging:

- . Design and manufacture of packaging compliant with decree 98-638 of 20/07/98 and Directive 94/62/EC

Approvals obtained:

- . France: NF