# La legrand®

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# 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



### CONTENTS

PAGES

## 1. DESCRIPTION - USE Symbol:



# Technology: . Electromagnetic contactor (monostable relay)

Use: . For controlling a load remotely via a switch

## 2. RANGE

**Conventional thermal current:** . Ith = 16 and 25 A

### Types of contact:

. "NO" contact

. "NC" contact



. "NO + NC" mixed contact

### **Polarities:**

- 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)

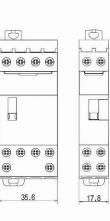
Nominal voltage of the power circuit: . Un = 250 V/400 V~

Nominal voltage of the power circuit: . 24 V and 230 V~

Nominal frequency of the control and power circuits: 50/60 Hz

6.3

## 3. DIMENSIONS

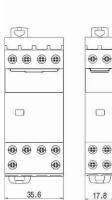


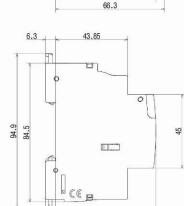


43.85

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5





61

## 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)

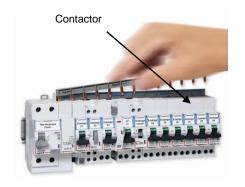
#### Mounting:

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

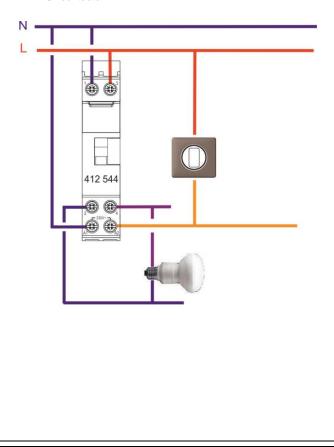
Recommended tools: . For the terminal screws: insulated or non-insulated screwdriver, Pozidriv no. 1 or with a 4 mm blade. . For attaching: screwdriver with blade (5.5 mm max) or Pozidriv

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.

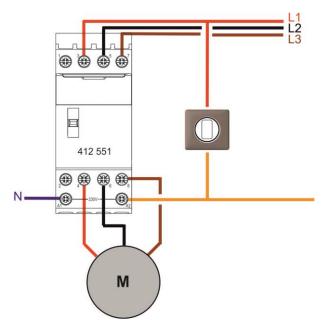


# Examples of schematic diagrams: . "2 NO" contactor

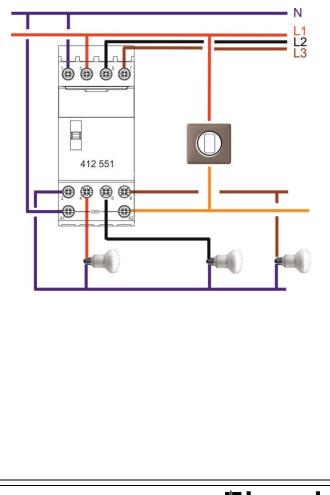


### 4. POSITIONING - CONNECTION (continued)

. "4NO used as a 3NO" contactor



#### . "4 NO" contactor





## 4. POSITIONING - CONNECTION (continued)

#### **Connection:**

- Screw control and power terminals:
   Type of terminal: caged

- 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 mm<sup>2</sup> according to EN/IEC 61095, 6 mm<sup>2</sup> accepted) or 2 x (0.75 to 2.5 mm<sup>2</sup>)
  Flexible with single ferrule: 1 x (0.75 to 6 mm<sup>2</sup>)
  Flexible with double ferrule: 2 x (0.75 to 4 mm<sup>2</sup>)
  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\_recommende

- 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 mm<sup>2</sup> cables . with 230 V contactor: 250 m for 1-module contactor or 400 m for 2-module contactor regardless of the connection cable cross-contactor 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:

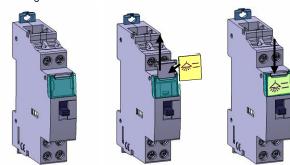
. No change in the status of the contacts during the "resistance to tremors" test as defined by the standard EN 60898

**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

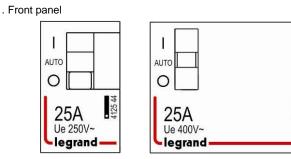
The forced switch-on status
For contactors with a handle the position of the latter provides the following indications:
"I" position: Forced switch on/ON
"O" position: Forced switch off/OFF
"Auto" position: Automatic (the contact status depends on the electrical control)

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

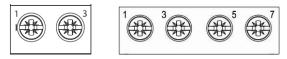


#### 5. GENERAL CHARACTERISTICS

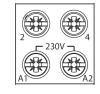


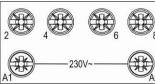


. Marking of the terminals: Power: 1 to 8 C Control: A1 and A2 Upper terminals



#### Lower terminals

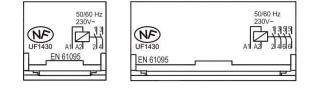




1125 51

#### 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/ 3-pole/ 4-pole: 440 V~

Degree of pollution: 2 in accordance with EN 61095

Insulation voltage between the control circuit and the power circuit: . 4 kV



### 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:**

## Rated operating current depending on the category of use

(le): AC7a or AC1 (heating): le = 16 A or 25 A depending on the . AC7b or AC3 (motor control): le = 10 A (2.2 kW for 2NO and 4 kW for 4NO) for the 25 A contactors and le = 6.5 A for the 16 A contactors

Rated operating voltage (Ue): . Ue =  $250 \text{ V} \sim \text{for } 1/2\text{-pole}$ . Ue =  $400 \text{ V} \sim \text{for } 3/4\text{-pole}$ 

Protection against short-circuits: Conditional short-circuit current Iq = 6 000 A in accordance with EN 61095 . Permissible thermal stress: 16 000 A<sup>2</sup>s

#### **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  $\leq 25$  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
- 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 DC 1 (resistive load) DC 3 (motors)

	Number of poles in series			Number of poles in series		
Ue	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**

Control voltage	Consumptic (at Un) Holding	on in mA Inrush
24 \/_	200	970
24 V~	300	2500
	12	60
220 1/	20	90
230 V~	20	90
	20	200
		Control         (at Un)           voltage         Holding           24 V~         200           300         12           230 V~         20

Type of contact	Control voltage	Consumption (at Un) Holding	in	W
2NO/NC+NO	24 V~	1.4		
4NO	24 V~	2.1		
2NO		0.8		
2NC	230 V~	1.2		
NC+NO	230 V~	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 4.8
4NO	24 V~	7.6
2NO		3.1
2NC NC+NO	230 V~	1.0 3.4
4NO	230 V~	5.4
2NC+2NO		4.4



#### 5. GENERAL CHARACTERISTICS (continued)

Noise on holding: . Traditional contactor:  $\leq$  45 dB at 1 cm

**Operating temperature:** . A standard contactor is set to function with its nominal current at an ambient temperature of  $+ 30^{\circ}$ 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  $\le 40^{\circ}$ C - for every contactor if the ambient temperature is > 40^{\circ}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

		a or a dring b or	
Contactor rating	40°C	50°C	60°C
le = 16 A	16 A	14 A	13 A
le = 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:

. le =

Ie = 16/25 AAverage 0.120 kg per 1-pole and 2-pole device average 0.230 kg per 4-pole device

#### Packaged volume:

0.2 dm<sup>3</sup> for the 1-pole and 2-pole devices packaged in units . 1.6 dm<sup>3</sup> for the 1-pole and 2-pole devices packaged in packs of 10

. 0.4 dm<sup>3</sup> 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				
FIOUT Heating	25 A			2.3		

#### . Motors (AC-7b)

Maximum power (kW)		
Single phase motor	16 A	1.5
230 V~	25 A	2.3
Three-phase motor	25 A	4
400 V~	2011	-

### 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 to	ungsten 23	30 V~ and	halogen f	ilaments		
Unit power	40 W	60	W	75 W	100	W
16 A	45	30		24	19	
25 A	60	48		38	30	
Low-voltage tu				ilaments		
Unit power	150 W	200	D W	500 W	1000	D W C
16 A	13	10		4	2	
25 A	20	15		6	3	
ELV halogen l						
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 l			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 para ballast	llel compens	sated fluore	scent tubes	with ferror	nagnetic
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 serie	s compensat 2 x 20 W	ed fluoresce			
Unit power		2 X 36 VV	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 po 4 x 18 W

16

16 A
25 A

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			



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927 02 / 03

#### 5. GENERAL CHARACTERISTICS(continued)

		-1	h = 11 = = 4				
Single fluores	scent tubes			36 W		58 W	
Unit power 16 A	72	30 42	30 W			28 VV	
25 A	110	68		36 58		36	
						30	
Double fluore	escent tube	s with elec	tronic bal	last		50.14/	
Unit power	2 x 1 36	8 W	2 x 3 20	6 VV	2 x : 12	58 W	
16 A 25 A	30 56		30		12		
23 A	50		30		19		
Triple fluores	cent tubes	with electr	onic balla			sated)	
Unit power		3 x 14 W		3	3 x 18 W		
16 A		34 46			26		
25 A		40			00		
Quadruple flu	uorescent t	ubes with e	electronic			pensated)	
Unit power		4 x 14 W		4	x 18 W		
16 A		26			20		
25 A		37		2	28		
Compact fluc	prescent tub						
Unit power	7 W	11 V		5 W	20 W	23 W	
16 A	120	80	64		50	43	
25 A	200	125	9	0	70	60	
Metal haloge		•		1 (50)			
Metal haloge Unit power 16 A	nide 35 W 10	70 W	100 W 5	3	2	1	
Metal haloge Unit power 16 A	nide 35 W	70 W	100 W				
Metal haloge Unit power 16 A 25 A Low pressure	nide 35 W 10 15 sodium va	70 W 6 9	100 W 5 7	3 5	2 3	1 2	
Metal haloge Unit power 16 A 25 A Low pressure Unit power	nide 35 W 10 15 sodium va 18 W	70 W 6 9 apour 35 W	100 W 5 7 55 W	3 5 90 W	2 3 135 W	1 2 180 W	
Metal haloge Unit power 16 A 25 A Low pressure Unit power 16 A	nide 35 W 10 15 sodium va 18 W 12	70 W 6 9 apour 35 W 6	100 W 5 7 55 W 5	3 5 90 W 3	2 3 135 W 2	1 2 180 W 2	
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Metal haloge Unit power 16 A 25 A Low pressure Unit power 16 A 25 A High pressur Unit power 16 A 25 A High pressur Unit power 16 A 25 A High pressur Unit power 16 A 25 A ELV halogen	nide 35 W 10 15 sodium va 18 W 12 20 e sodium va 20 e sodium va 10 8 10 e mercury va 50 W 11 15 e mixed 100 W 9 11 bulbs with	70 W       6       9       35 W       6       10       150 W       7       9       vapour       80 W       8       10       160       6       7       9       vapour       80 W       8       10       160       6       7	100 W 5 7 55 W 5 7 250 5 6 125 6 6 8 0 W ballast	3 90 W 3 5 0 W 250 V 4 5	2 3 135 W 2 3 400 W 3 4 250 W 3 4	1 180 W 2 3 1000 W 1 2 400 W 2 3 400 W 2 3 400 W	

#### 5. GENERAL CHARACTERISTICS(continued)

- Led lamps

		Led lamps number without driver of not diminable									
In (A)	2W	5W	7W	9W	12 W	18 W	22 W	30 W	40 W	50 W	
16	16	16	16	16	16	15	14	10	10	0	

Α	۱.	10	10	10	10	10	15	14	12	10	9
2: A	5	30	30	30	30	30	27	25	22	18	15
· · · · · · · · · · · · · · · · · · ·											
Led lamps number with driver or dimmable											

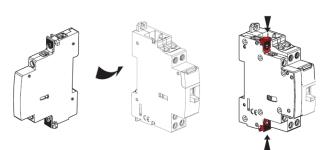
	Led lamps number with driver of diminable										
In (A)	2W	5W	7W	9W	12 W	18 W	22 W	30 W	40 W	50 W	
16 A	40	40	40	35	35	33	30	27	23	20	
25 A	65	65	65	60	60	56	51	45	33	30	

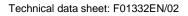
## 6. EQUIPMENT AND ACCESSORIES

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

- Datalogue Humber 4 124 co to 12 metabolic and the 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





Created on: 31/07/12

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## 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

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

### 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:  $(\mbox{standard}\ \mbox{IEC/EN}\ 60947-1)$ 

. 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

Technical data sheet: F01332EN/02

L<sup>1</sup> legrand