La legrand®

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Connected Contactor

Cat. number : 4 121 71 / 4 121 91

Home + Control

Requires prior installation of a "with Netatmo" connected starter pack or a Gateway module.

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voice

JUST SAY

1. DESCRIPTION - USE

Use:

Enables to remotely control (ON / OFF) loads (like water heater swimming pool pomp, heaters, charging plug for electric cars \cdots) by smartphone with Home + Control app and / or by voice via a voice assistant. This connected version also offers functions such as:

- Energy consumption: automatically energy consumption information is available for the circuit to whom the connected contactor is wired to.

- Scheduling: automatic opening and reclosing action scenarios based on a timeline. (daily/weekly/specific event such as "holidays")

Technology:

. Connected contactor with control by single contact, via smartphone, voice assistants and / or by its own push button on the front.





2. RANGE

Noise level:

. Noiseless switch: <10bB.

Width:

. 1 module. 17.8 mm wide.

Types of contact:

. Normally open contact type _____

Rated current: . 20 A

Rated voltage: . 100 to 240V AC

Rated frequency: . 50 / 60 Hz

Poles:

. 1 pole « NO »

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. Available for free on Google Play or App Store - Voice assistants (compatible with the main assistants of the market).

. Can be used as a " standard " contactor not connected

3. OVERALL DIMENSIONS

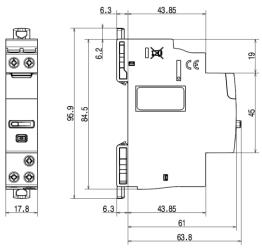
2. RANGE (continued) Configuration and use:

And /Or

Can be used with:

- Legrand smartphone app

" HOME + CONTROL"



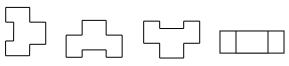
4. PREPARATION - CONNECTION

Mounting:

. On symmetrical rail EN / IEC 60715 or DIN 35.

Operating position:

. Vertical, Horizontal, Flat.



4. PREPARATION - CONNECTION (continued)

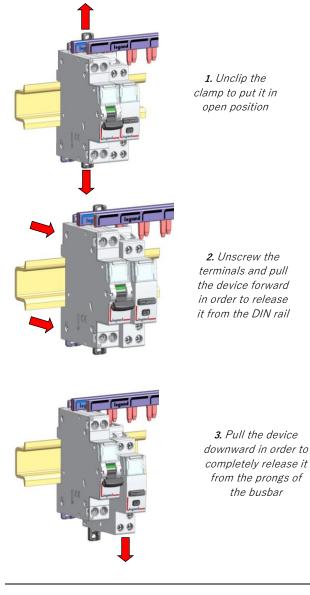
Row positioning:

. The product shape and the positioning of the terminals allow the passage of single-line, three-lines and plug-in supply busbars in the upper part of the product. Then, it is possible to freely choose the position of the connected contactor in the row and to connect by supply busbar the other devices put on the same DIN rail.



Module maintenance:

. It is possible to switch a connected contactor in the middle of a row supplied with an upstream busbar without disconnecting the other devices on the same DIN rail.



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4. PREPARATION - CONNECTION (continued)

Wiring of the upstream terminals:

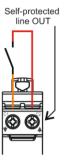


Free dry-contact. No power allowed. **C2**: Out terminal self-protected Line for remote (OUT) Free dry-contact. No power allowed.

C1 : IN terminal for control command (IN)

Advantage: « auto protected terminals » technology. It is not necessary to put a 2A protection

In case of a remote control done via a wired push button, the control is done either via C1 and C2 terminals.

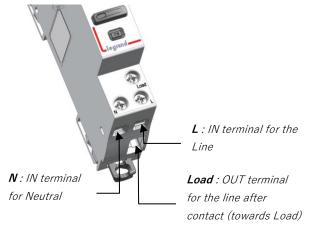


Or via a push button through the phase line protected by a circuit breaker on terminal $\mbox{C1}$



Warning: Do not wire from Neutral to C1 or C2

Wiring of the power supply and the load (downstream terminals):



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4. PREPARATION - CONNECTION (continued)

Electrical performance:

. Maximum resistive loads: 4800W

. Maximum motor loads: 2400VA

Wireless network:

. Maximum number of connected devices in the network: 100

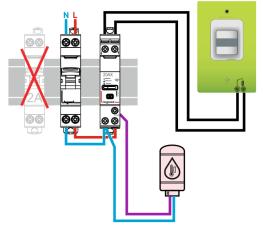
Wiring diagrams:

 $\ensuremath{\overset{\scriptstyle <}{_{\scriptstyle \rm T}}}$ Auto protected terminals $\ensuremath{^{\scriptscriptstyle \rm N}}$ technology. It is not necessary to put a 2A protection.

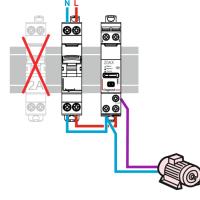
N (neutral) = bleu

L (Line) = Everything but blue and green/yellow Line after contact = usually purple, orange...

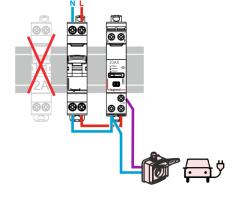
. Installation controlled by the energy supplier electric meter:



. Installation for electrical motor:



. Installation for charging electric cars:

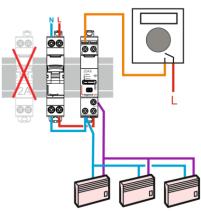


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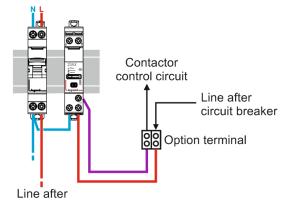
4. PREPARATION - CONNECTION (continued)

Wiring diagrams (continued):

. Control of heaters through an already installed central remote:



. Cabling in a swimming pool control cabinet:



circuit breaker

. Control of a single line standard contactor (>20A):

		* * * *
60	R	⊕ ⊛⊕ ∭

. Control of a three lines standard contactor (>20A):

		*** ****
	R	

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4. PREPARATION - CONNECTION (continued)

Recommended tools:

. For the terminals: screwdriver Pozidriv n° $\,1$ or flat-blade 4 mm. . For clamping: screwdriver flat-blade (5,5mm or less) or Pozidriv n° $\,1$

Connection:

. Control and power screw terminals:

- Terminal type: cage
- Depth: 9 mm
- Stripping length recommended: 9 mm
- Screw head: Posidriv $n^\circ\,$ 1 or slotted
- Type of screw: M3,5
- Minimum tightening torque: mini 0.8 $\rm Nm$ / maxi: 1.4 $\rm Nm$ advised: 1 $\rm Nm$

Conductor type for remote control terminals (C1, C2):

. Copper cables

	Without ferrule	With ferrule
Rigid cable	1x (0.75 to 2.5mm ²) 2 x (0.75 to 1.5mm ²)	-
Flexible cable	1x (0.75 to 2.5mm ²) 2 x (0.75 to 1.5mm ²)	1 x (0.75 to 2.5mm ²) 2 x (0.75 to 1.5mm ²)

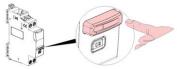
Conductor type for power terminals (N, L, LOAD):

. Copper cables

	Without ferrule	With ferrule
Rigid cable	1x (0.75 to 6mm ²) 2 x (0.75 to 2.5mm ²)	-
Flexible cable	1x (0.75 to 6mm ²) 2 x (0.75 to 2.5mm ²)	1 x (0.75 to 2.5mm ²) 2 x (0.75 to 1.5mm ²)

Remote control commands:

. Operation on-site, directly with the front face push-button of the device.



. Via the Home / Away wireless master switch



. Via smartphone with the Home + Control smartphone app

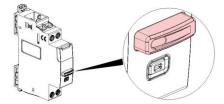


. By voice through a vocal assistant.

4. PREPARATION - CONNECTION (continued)

Visualization of the operating mode of the device and contacts:

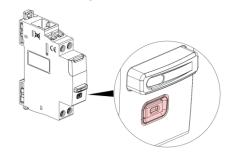
. Via the LED. on the push button command



Color	Status	Meaning
	OFF	Manual mode and opened Contact (OFF)
Blue/Off	Slow blinking	Automatic mode and opened Contact (OFF)
Blue/Green	Slow blinking	Automatic mode and closed Contact (ON)
Vert	Fixed	Manual mode and closed Contact (ON)

Visualization of the setup:

. Via the LED on the settings button



Color	Status	Meaning
Red	Fixed	Temporary status. Device not connected to the radio network
Green	Fixed	Temporary status. Device correctly paired to the radio network (when the radio network is still open)
	OFF	Normal status. Device paired to the radio network (when the radio network is closed)



4. PREPARATION - CONNECTION (continued)

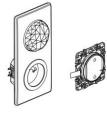
Add a connected contactor in a connected installation (several steps) (continued):

. $\mathbf{1}/$ Beforehand, to create a connected installation you must install:

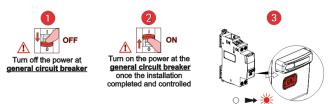
Either a gateway module



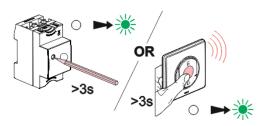
Or a connected starter pack (drawing of principle, works with anykind of "with Netatmo" connected starter pack).



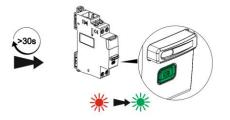
. $\mathbf{2}/$ Beforehand, the general circuit breaker must be turned OFF, and only after wiring step done, can be powered back ON to simultaneously power devices and allow them to be connected to the network.



. 3/ Press and hold the gateway module settings button for more than 3 seconds, OR in the center of the Home / Away wireless master switch until the LED turns green, then release the button.



. The configuration LEDs of " ... with Netatmo " devices in the installation must all light up in fixed green.

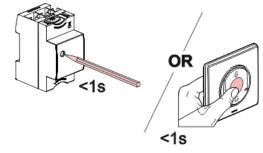


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4. PREPARATION - CONNECTION (continued)

Add a connected contactor in a connected installation (several steps) (continued):

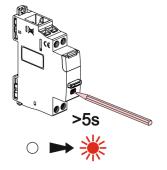
. 4/ To complete the installation, briefly press the setting button on the gateway module (or in the center of the Home / Away wireless master switch) to finalize the installation.



All " ... with Netatmo " devices LED go OFF

Connected contactor resetting to remove it from a connected installation

. Press and hold over 5 seconds on the setting button until the LED on the setting button be fixed red. It is no longer paired with the gateway module or the Home / Away wireless master switch

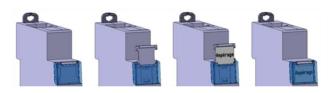


Other configurations & actions

. All other features and settings such as ; scenarios etc \cdots are directly explained step by step in the smartphone app.

Labelling:

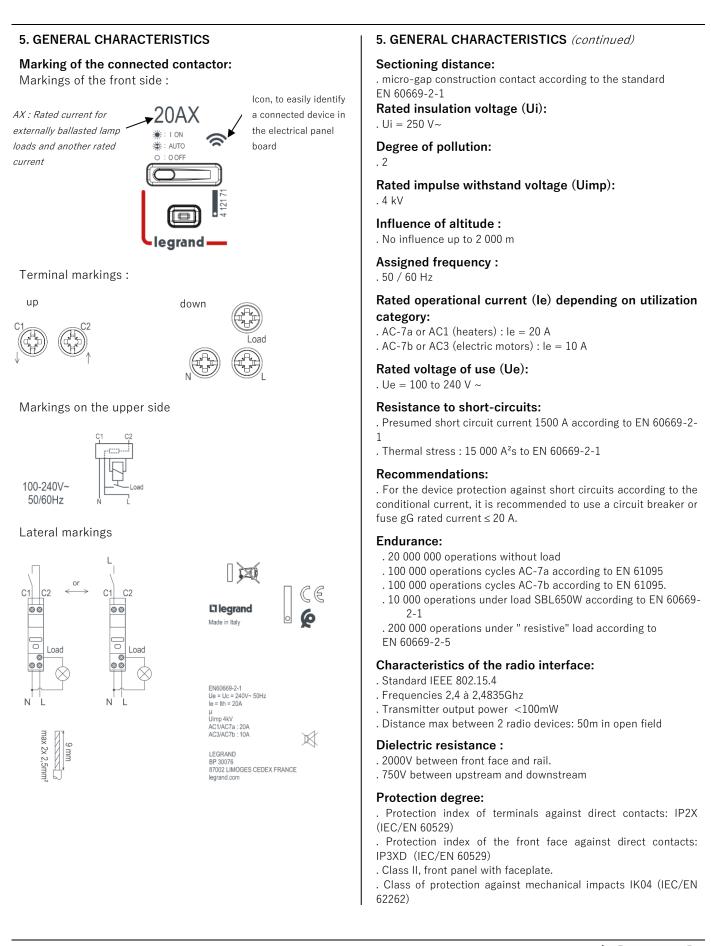
. Circuit identification by way of a label inserted in the label holder situated on the front of the product.



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5. GENERAL CHARACTERISTICS (continued)

Vibrations and shaking resistance:

- . vibrations : 10 to 55 to 10Hz single amplitude 0.75mm
- . Shaking : 1000m / s 2 (6 \pm 1ms)

Plastic material:

- . Self-extinguishing polycarbonate.
- . Heat and fire resistant according to IEC/EN 60669-2-1, glow-wire test at 960 $^\circ\,$ C
- . Classification UL 94 V0 ($\geq \! 1.5 \text{mm})$

Ambient operating temperature:

. Min. = -5 $^{\circ}$ C Max. = +45 $^{\circ}$ C.

Ambient storage temperature:

. Min. = - 40 $^\circ\,$ C $\,$ Max. = + 70 $^\circ\,$ C.

Average weight:

. 78g

Volume when packed: . 0,62 dm³.

Environmental profile:

. PEP document available

Installation software:

. XL PRO3

6. COMPLIANCE AND APPROVALS

Compliance to standards:

. NF EN 60669-2-1 / IEC 60669-2-1

Environment respect – 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

. Compliant with regulation REACH

Conformity with electromagnetic interference (EMC):

. Compliant EN 301 489-1 , IEC 60669-2-5 , NF EN 60669-2-1 Immunity to shock waves Radio transmission Immunity to electrical transients in bursts. Immunity to conducted disturbances induced by radio fields Immunity to radiated fields Electrostatic discharge immunity Immunity to voltage dips and short break . Compliance mission radiated according to NF EN55032.

Plastic materials:

. Halogen-free plastics.

. Marking of parts according to ISO 11469 and ISO 1043.

. ISO 7000: 2004, Graphical symbols to be used on equipment - Index and synopsis

Packaging:

. Design and manufacture of packaging in accordance with Decree 98-638 of 20/07/98 and Directive 94/62 / EC.

7. AUXILIARIES AND ACCESSORIES

Beforehand, requires the installation of a " connected starter pack " or " a "gateway module".

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