Contatore di Energia trifase - Inserzione diretta 63A

Descrizione prodotto e applicazione

·Questo contatore di Energia fornisce le funzionalità di misura essenziali necessari per monitorare un impianto elettrico trifase.

 Inserzione diretta (fino a 63 A) •Display LCD e 3 pulsanti a pressione (per la lettura dell'Energia, V, I, PF, F, P, Q e configurare i parametri)

•1 pulsante e 1 LED dedicati alla comunicazione KNX. •Display a 8 cifre.

•Autoalimentazione (grazie all'iingresso in tensione)

Il dispositivo è progettato per essere installato su barra DIN.

Menu principale



rappresentato il valore dell'incremento istantaneo dell'Energia trifase attiva (o l'ultimo valore incrementato). L'Energia è sempre attiva, e può essere attiva importata (freccia a destra), o attiva esportata (freccia a sinistra), con tariffa T1 o T2, a seconda dell'Energia erogata attuale. Seconda Pagina Energia Attiva Terza Pagina Energia Attiva Nella seconda, terza e quarta pagina sono rappresentati gli altri 3 contatori di energia Pagina Versione Firmware: Potete leggere la versione del firmware rilasciato Pagina CheckSum del Firmware: Il checksum viene periodicamente calcolato per verificare che il firmware sia affidabile.

> Qualunque sia la pagina sul display, se nessun tasto viene premuto per almeno 20 sec., appare la pagina principale.

Contatore parziale

Contatori parziali d'Energia attiva:

Premendo il tasto "P" i contatori parziali di Energia attiva (per il consumo di energia mensile) sono leggibili nella pagina principale,nella seconda, terza e quarta pagina.

Questi contatori sono azzerabili, vedere la sezione di reset. Premendo il tasto "P" in una qualsiasi delle quattro pagine, si torna al menu principale

Messaggi di diagnostica



Uno o più fasi mancanti:

Nel caso in cui non venga rilevata una o più fasi, l'icona corrispondente scompare dalla riga inferiore del display. Nell'esempio in figura. L2 non viene rilevato.

Errore della sequenza delle fasi: Quando le tre fasi non sono nella corretta sequenza di zero-crossing appare questo messaggio e le icone L1 e L2 lampeggiano. E' possibile togliere questo messaggio, tenendo premuto il tasto "Menu" per almeno 4 secondi. Condizione di errore:

Quando il display visualizza il messaggio "Errore 2 o Errore 3", il contatore ha un guasto e deve essere sostituito

Applicazione KNX e programmazione degli indirizzi



Una volta che l'apparecchiatura di misurazione è installata, in modo da avere la comunicazione KNX funzionante nel modo corretto, può essere effettuato il download dell'applicativo KNX (.WD4) e dell'indirizzo.



Per preparare la comunicazione KNX, procedere nel sequente modo:

1) Con l'alimentazione totalmente disconnessa, collegare la rete e il bus KNX al connettore plug-in. 2) Accendere l'apparecchio

3) Avviare gli strumenti di programmazione KNX in un personal computer e collegare il computer al dispositivo per mezzo di un'interfaccia KNX.

4) Selezionare l'operazione (download dell'applicativo / scrittura indirizzo / download dell'applicazioni e di scrittura indirizzo)

5) Se l'operazione selezionata coinvolge la scrittura degli indirizzi, premere il tasto KNX quando richiesto dal software. 6) II LED KNX si accende

7) Una volta che l'operazione è completata,

il LED torna off.



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Pulsanti



Scrittura indirizzo KNX

Valore Energia

Tariffa applicata

Fase (L1-2-3)

Import Energia

Export Energia LED controllo precisione

Valore Energia "parziale"

Pulsante di comando per la selezione della lettura "Parziale

Tasto Menu per selezionare la lettura

Reset Energia

r8588 7

In tutte le pagine che rappresentano un valore energetico, con una pressione di 20 sec. del tasto "Menu" permette di entrare nel menu di azzeramento, successivamente sul display appare l'immagine a sinistra. Quindi il tasto deve essere rilasciato. Al fine di confermare l'operazione e tornare al default visualizzazione, premere di nuovo per 4 secor altrimenti dopo 4 sec., il reset non avrà alcun effetto. secondi,



Diagramma di cablaggio





Il cavo del neutro deve essere collegato al contatore

Istruzioni per l'installazione

IMPORTANTE

Il dispositivo deve essere installato mantenendo una distanza minima di 4mm tra le linee in tensione non SELV (230V) e i cavi collegati agli ingressi o al bus EIB/KNX.

- L'apparecchio deve essere impiegato per installazione in ambienti chiusi e asc. Il dispositivo deve essere installato in posizione accessibile solo agli installatori qualificati
- •
- L'apparecchio deve essere installato e messo in servizio da un installatore abilitato. Devono essere osservate le norme in vigore in materia di sicurezza e prevenzione •
- antinfortunistica. L'apparecchio non deve essere aperto. Eventuali apparecchi difettosi devono essere
- fatti pervenire alla sede competente. •
- Il bus KNX permette di inviare comandi da remoto agli attuatori dell'impianto. Verificare sempre che l'esecuzione di comandi a distanza non crei situazioni pericolose e che l'utente abbia sempre segnalazione di quali comandi possono essere attivati a distanza.



SMALTIMENTO

Il simbolo del cassonetto barrato indica che il prodotto alla fine della propria vita utile deve essere raccolto separatamente dagli altri rifiuti. Al termine dell'utilizzo, l'utente dovrà farsi carico di conferire il prodotto ad un idoneo centro di raccolta differenziata oppure di riconsegnario al rivenditore all'atto dell'acquisto di un nuovo prodotto. L'adeguata raccolta differenziata per l'avvio successivo dell'apparecchiatura dimessa al riciclaggio contribuisce ad evitare possibili effetti negativi sull'ambiente e sulla salute e favorisce il reimpiego e/o ricclo dell'activitati il cui o comende l'energence divitati en esti all'atto dell'acquisto di contro dell'activitati di cui ano enconte l'energence di attivitati e dell'activitati di cui ano enconte l'energence di attivitati e dell'activitati di cui ano enconte l'energence di attivitati di cui ano enconte l'energence di attivitati di cui ano enconte l'energence di attivitati di cui ano enconte di attivitati di cui ano enconte l'energence di attivitati di cui ano enconte di attivitati attivitati di cui ano enconte di attivitati attivitati di cui ano enconte di attivitati di cu dei materiali di cui e composta l'apparecchiatura.

Dati tecnici

Dati in accordo con CLC/TR 50579 , EN 62059-32-1, EN 50470-1, EN 50470-3

• Housing	DIN 43880	DIN	4 modules
Mounting	EN 60715	35 mm	DIN rail
• Denth	EN OUT TO	mm	70
• Weight		q	412
Operating features			
Connection	to three-phase network	n° wires	4
 Storage of energy values and config. 	Internal flash memory	-	yes
• Tariff	for active energy	n° 2	T1 and T2
Approval (according to EN 50470-1, EN 50470-3)			
Heterence Voltage Un	Line to Neutral	VAC	230
Heterence voltage Un	Line to Line	VAG	400
Minimum Current (Imin)		A	0.25
Maximum Current (Imax)		A	63
Starting Current (Ist)		Â	0.015
Reference Frequency (fn)		A	50
 Number of phases (number of wires) 		-	3 (4)
Measures		kWh	\rightarrow kWh T1, \leftarrow kWh T1
			\rightarrow kWh T2, \leftarrow kWh T2
 Accuracy Active Energi 	es (accor. to EN 50470-3) and Active Powers	class	B
Supply Voltage and Power Consumption			
 Operating Supply Voltage range 		VAC	92 276 / 160 480
Maximum Power Dissipation (Voltage circuit)		VA (W)	≤2 (0.6)
Maximum vA burden (Current circuit) @ Imax		VA	×0.7
Voitage Input Waveform		•	AL
Notroa	continuous, phone phone	VAC	490
• voitage	1 excond: phase/phase	VAC	900
	continuous: phase/N	VAC	276
	1 second: nhase/N	VAC	300
Current	continuous	A	63
	Temporary (10 ms)	A	1890
Measuring Features			
Voltage range	phase/phase	VAC	160 480
	phase/N	VAC	92 276
Current range (secondary winding)		A	0.015 63
Frequency range		Hz	45 65
Measured Quantities			KWh
Display teatures	1.00		0.000
Display type	LUU Fearry dialla dimension	-	9 (2 Decimal)
Active Energy	7 digits + 2 decimal digits	min max kWh	0.01 0000000.00
Dunning Tariff	1 digita + 2 doolina agita	-	T1 or T2
	1 Girges		4
Display refresh period		S	
Oisplay refresh period Optical metrological LED		S	1
Original refresh period Optical metrological LED Font mounted red LED (meter constant)	proportional to active imp/exp Energy	s p/kWh	1000
Obsplay refresh period Optical metrological LED Front mounted red LED (meter constant) Safety	proportional to active imp/exp Energy	s p/kWh	1000
Optimized and the provided of the provide	proportional to active imp/exp Energy	s p/kWh class	1000
Offsiglar prefersh period Offsiglar prefersh period Offsiglar metrological LED Fort mounter del LED (meter constant) Safety Protective class AC voltage test (EN 50470-3, 7, 2)	proportional to active imp/exp Energy	s p/kWh class kV	1000 II 4
Display refresh period Diplical metrological LED Front mounted red LED (meter constant) Forter two tests Fortective class Fortective class Fortective class Portective class Dispres of pollution Dispres of pollution	proportional to active imp/exp Energy	s p/kWh class kV	1000 II 4 2
Objekty refees heriod Optical metrological LED Pront mounted ref LED (meter constant) Safety Protective class Oc variance test; EN 50470-3, 7, 2) Degree of pollution Operational voltage	proportional to active implexp Energy	s p/kWh class kV - VAC	1000 1 4 2 300
	proportional to active imp/exp Energy	s p/kWh class kV - VAC 1.2/50 ps-kV	1 1000 1 4 2 300 6 10 10 10 10 10 10 10 10 10 10
Display refresh period Display refresh period Pront mounted red LED (meter constant) Stely Protective class Av othate test EK ISO70-3, 7,2 Dispret of pollution Dispret of pollution Dispret stellar voltate Implay voltate test Housing matternal fame resistance	proportional to active implexp Energy UL 94	s p/kWh class kV - VAC 1.2/50 µs-kV class	1 1000 1 4 2 300 6 V0
Dipsign affects period Dipsign affects period Point amethylogical LED (meter constant) Stelp Productive closed (EE) (meter constant) Stelp Productive closed (EE) (50/10-3, 7, 2) Dipsign (Constant)	proportional to active implexp Energy UL 94	s p/kWh class kV - VAC 1.2/50 µs-kV class	1000 1000 4 2 300 6 V0 V0 VW farminal
Display refresh period Display refresh period Pront mounted red LED (meter constant) Stely Protective class Ac vitage test (KI S0470-3, 7,2) Dispret of pollution Dispret of pollution Operational violage Instude violage test Housing material fame resistance Endedded communication KOC Projecal infertee	proportional to active implexp Energy UL 94	s p/kWh class kV - VAC 1.2/50 ps-kV class -	1 1000 1 1 4 2 300 6 V0 W00 terminal SEUV cervit
Dipsign aftership period Dipsign aftership period Foot mouths of all ED (meter constant) Safey Front-Cruck class Edit (2015) Productive class Edit (2015) Dipsign and the state of the s	proportional to active implexp Energy	s p/kWh class kV - VAC 1.2/50 ps-kV class - -	1000 1 1 4 2 300 6 V0 W0 K000 terminal SELV circuit
Display refresh period Diplatian metrological LED Final metrological LED Diplatian metrological LED Final metrological LED Diplatian LED Diplatian LED Diplatian LED Diplatian	proportional to active implemp Energy UL 04 heart with 7	s p/kWh class kV - VAC 1.2/50 µs-kV class - - - P07/IDRV	1 1000 1 1 4 4 2 2 300 6 6 1 100 10 1 1 1 1 1 1 1 1 1 1 1 1
Display refresh period Display refresh period Protection setvological LED Optical metrological LED Protective Protective Protective Protective Protective Display of publics Display of publics Display of publics Protective	proportional to active implexp Energy UL 04 head with 7 +/- didded head	s p/kWh class kV - VAC 1.2/50 ps-kV class - - - - POZIDRIV mm	1000 1000 1 1 4 2 300 6 V0
Dipsky refresh period Dipsky refresh period Port monopolical IED Operation autorological IED Solidy Solidy Dipsky refresh period Dipsky refre	proportional to active impleme Energy UL 94 bead with 7, -/- dided head bead with 7, -/-	s p/kWh class kV v v v class class class class class pOZIDRIV mm mm mm	1 1000 1 4 2 300 6 V0 V0 V0 V0 V0 V0 V0 V0 V0 V0
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Dipsky arterich period Dipsky arterich period Post and enclosed LED (meter constant) Safe Post-and period LED (meter constant) Safe Protechage left Post-and period Diperst of philose Diper	proportional to active implexp Energy UL 04 Head with Z +/- addited Head oblig Viet run ment solid with run ment stranded with with inever min (mag) solid with run ment stranded with with sleever min (mag)	s p/kWh class KV · · · · · · · · · · · · ·	1000 1000 4 4 300 50 V0 V0 V0 V0 V0 V0 V0 V0 V0 V
Display refresh period Display refresh period Protectional topological IED Protections State Protective class Adv values test EV S0470-3.7.2 Dispres of pollution Dispres of pollution Dispres of pollution Protective class Proteclass Protective class Proteclass Pro	proportional to active implexp Energy UL 94 head with 2 +/- stoffed head solid witer min. (max) stranded wire with sleeve min. (max) stranded wire with sleeve min. (max) stranded wire with sleeve min. (max)	s p/kWh class K/ V/26 v/260 ps/V class - - POZDRIV mm ² mm ² mm ² mm ² mm ² mm ²	1000 1 4 5 6 6 800 terminal 800 terminal 800 terminal 800 terminal 15 (55) 15 (55) 15 (55) 15 (55) 15 (55) 15 (55) 15 (55) 15 (55) 15 (55
Display refresh period Display refresh period Point methological LED (meter constant) Safe(Forter.constant) Safe(Safe(Safe) Forter.constant(Safe(Safe) Productive (ass (Safe)(Sa	preportional to active implexp Energy UL, 04 head with Z +/- stoted head solid view min. (max) advanded wire with skever min. (max) advanded wire with skever min. (max)	s p/xWs class W class W class W class V class V class V class P 02208W mm mm ² mm ² mm ² class Clas	1000 1000 4 4 300 6 5 10 5 10 5 12 15 15 15 15 15 15 15 15 15 15
Display refresh period Display refresh period Port monological LED (rect constant) Solidy Display and period	proportional to active implexp Energy UL 04 Head with 7 +/- didded head solid wite min. impai stranded wite with sleeve min. (max) atranded wite with sleeve min. (max)	s p/kWh class kW class k v class k v class s v class poculation po	1000 8 4 4 5 6 6 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Display refresh period Display refresh period Protectional Section (LED (meter constant) Safe) Protections (LED (meter constant) Safe) Protective class (LED 50470-3, 7, 2) Display outpart (LED 50470-3, 7, 2) Screeding of the training terminals Screeding of the training terminals Terminal capacity for tariff and communication Terminal capacity for tariff	proportional to active implexp Energy UL, 04 head with Z +/- active this active mini, final solid with a mini active soli	s p/kWh class W - VAC class -	1000 1000 4 4 4 300 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Display refresh period Display refresh period Port methodical LED (meter constant) Solidy Port mouther red LED (meter constant) Solidy Display to the LED (meter constant) Dispect of political Dispect of politi	proportional to active impleme Energy UL 94 Inter a with 7, c-f- diffed head addid with minimat stranded with with slevve mini, (max) addid with minimat stranded with with slevve mini, (max) interned.	s p/Wh class W class W class W class V class V class P	1 1000 1 1 1 4 4 2 2 3 6 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
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Display refresh period Display refresh period Post and retrological LED (net constant) Solidy Post and the second sec	proportional to active implexp Energy UL 04 hoad with 7_4/_ dided in 7_4/_ dided in 7_4/_ dided with row implexe min. (max) stranded wire with slever min. (max) stranded wire with slever min. (max) findoor weads wername. not condension	s p/Wh class k W class W class W class W class W class P class	1 1000 10
Display refresh period Display refresh period Protectional Comparison (LED Foot mounted red LED (meter constant) Safey Protective class Avoidings test (SI S0470-3, 7, 2) Dispute of polation Display of polation Display of polation Display of polation Display of polation Provide test Display of polation Display Display of polation Display Di	proportional to active implexp Energy UL 04 Head with 2 +/- stored head solid write min. (max) stranded write with aleve min. (max)	s p/t/Wh class k/ v/ac class k/ v/ac class	1 1000 1 1 1000 1 1 1 1 1 1 1 1 1 1 1 1

Per l'installazione in armadio necessaria protezione almeno IP51.

Dimensioni



Coprimorsetti sigillabili



CE

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Three-phase Digital Energy meters - Direct connection 63A

Product and Applications description

· This Energy-meter provides the essential measurement capabilities required to monitor a three phase electrical installation.

Direct connected (up to 63 A)

· LCD display and 3 push-button keys (to read Energies, V, I, PF, F, P, Q and to configure some parameters) 1 push botton and 1 LED dedicated to KNX.

- Display with 8 digits · Self supplied (by the input voltage itself).

Device is intended to be installed on DIN rail.

Main Menu



Main Page: The value of the currently growing Active 3-phase Energy is represented (or the ast one that has grown). The Energy is always Active, and may be Active Imported (right arrow), Active Exported (left arrow), with Tariff T1 or T2, depending on the current Energy flowing.

Second Active Energy Page

Third Active Energy Page

Fourth Energy Page: In the second, third and fourth pages the other 3 energy registers are Represented

Firmware Release Page: You can read the index of firmware release.



Display Test Page: All the display segments are visible.

Whichever the page on the display, if no key is pushed for at least 20 sec., the main page appears again

Partial Counter

Partial Active Energy Counters:

By pushing the "Partial key" partial active energy counters are readable in the main, second, third and fourth pages (i.e. for monthly energy consumption).

These counters are resettable, see the energy reset section. By pushing the "Partial key" in any of the four pages, you go back to the Main menu

Diagnostic Messages

L1 L3 T2	1583
PhRSE L1 L2 L3	{rr

82

trror

One or more missing phase: In case one or more phase is not detected, the correseponding icon disappears from the bottom row of the display. E.G. L2 is not detected. Phase sequence error: When the three phases are not in the correct zero-

crossing sequence this message appears and the icons L1 and L2 blink. To make this message to disappears, you can keep pushed the "Menu key" for at least 4 seconds.

Error condition:

When the display shows the message "Error 2 or Error 3", the meter has got a malfunction and must be replaced

KNX Application and Address programming







7) Once the operation is completed, the LED will switch OFF

the KNX when required by the tool. 6) The KNX LED will turn ON

Once the metering equipment is installed, in order to have KNX correctly working, the KNX application (.WD4) and the

On the top right corner of the metering equipment front, there are a LED and a push button key dedicated to the KNX $\,$

address downloading. When you turn on the metering equipment, the LED should remain OFF. Also, if you push the KNX key without connecting the KNX bus to the metering equipment or if the KNX external interface is not powered, the LED remains OFF.

To prepare the KNX communication, proceed in the 1) With the power supply totally disconnected, connect both mains and KNX plug-in connector 2) Turn on the metering equipment

3) Launch the KNX programming tools in a personal computer and connect the computer to the meter by means of

4) Select the operation (application downloading/address writing/application downloading & address writing) 5) If the selected operation involves the address writing, push

address writing are required to be downloaded.

address downloading.

a KNX interface.



Energy Value Running tarif

Energy line (L1-2-3)

Energy value "Partial"

Energy Import

Energy Export Precision control LED

Push - Buttons



KNX address writing

Command button for "Partial" reading selection

Menu key for reading selection

Energy Reset



In all pages representing an Energy value, a pressure of 20 sec. of the "Menu key" allows to enter in the zeroing menu, consequently on the display "see image aside" appears. The key must be released. In order to confirm the operation and get back to default visualization, push it again for 4 seconds, otherwise after 4 sec., the reset will have no effect.



Wiring Diagram





Neutral wire must be connected to the meter

Installation Instruction

WARNING

Device must be installed keeping a minimum distance of 4mm between electrical power line (mains - 230V) and red / black bus connector or bus cable.

- Device may be used for indoor installations in dry locations. Device must be mounted by an authorised installer.
- Device must be installed in a location that is accessible only to qualified installers
- The applicable safety and accident prevention regulations must be observed.
- Device must not be opened. Any faulty device should be returned to manufacturer.
- For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.
- KNX bus allows you to remotely send commands to the system actuators. Always make sure that the execution of remote commands do not lead to hazardous situations, and . that the user always has a warning about which commands can be activated remotely.

Technical Data

Data in compliance with CLC/TR 50579 , EN 62059-32-1, EN 50470-1, EN 50470-3

Convert above aboviation			
General characteristics	DIN 42990	DIN	4 modulos
Mounting	EN 60715	25 mm	DIN rail
Denth	EN 00/13	mm	70
• Weight		a	412
Operating features		0	
Connection	to three-phase network	n° wires	4
 Storage of energy values and config. 	Internal flash memory	-	yes
• Tariff	for active energy	n° 2	T1 and T2
Approval (according to EN 50470-1, EN 50470-3)	Use to Newtoni		000
Reference Voltage Un Deference Voltage Un	Line to Neutral	VAC	400
Deference Current (Irof)	Line to Line	A A A A A A A A A A A A A A A A A A A	400
Minimum Current (Imin)		2	0.25
Maximum Current (Imax)		Â	63
Starting Current (Ist)		Â	0.015
Reference Frequency (fn)		Α	50
 Number of phases (number of wires) 		-	3 (4)
Measures		kWh	\rightarrow kWh T1, \leftarrow kWh T1
- Antonio Francisco	in the FN F0470 Ot and A dive Develop	alaas	\rightarrow kWh T2, \leftarrow kWh T2
Accuracy Active Energy	es (accor. to EN 50470-3) and Active Powers	class	В
Suppry vortage and Power Consumption		MAC	02 276 / 460 400
Maximum Dower Dissination (Voltage circuit)		VA (WA	s2 /0 6)
Maximum VA burden (Current circuit) @ Imax		VA	<0.7
Voltage Input Waveform		-	AC
Overload capability			
Voltage	continuous; phase/phase	VAC	480
	1 second: phase/phase	VAC	800
	continuous; phase/N	VAC	276
	1 second: phase/N	VAC	300
• Current	continuous	A	63
Moscuring Fostures	temporary (10 ms)	A	1890
Notitione ranne	nhaea/nhaea	VAC	160 490
- wonage range	nhase/N	VAC	92
Current range (secondary winding)	property	A	0.015 63
Frequency range		Hz	45 65
Measured Quantities			kWh
Display features			
Display type	LCD		9 (2 Decimal)
- Antina Frances	Energy digits dimension	mm	6x3
Active Energy	7 digits + 2 decimal digits	min max. Kwn	0.01 99999999.99
Hunning Tariff Dienlay refreeb period	1 digit	•	1
Ontical motrological LED		0	-
Front mounted red LED (meter constant)	proportional to active imp/exp Energy	n/kWh	1000
Safety			
Protective class		class	1
 AC voltage test (EN 50470-3, 7.2) 		kV	4
Degree of pollution			2
Operational voltage		VAC	300
Impulse voltage test	18.04	1.2/50 µs-kV	6
Housing material name resistance	UL 94	Class	VU
Diversional interface			KNY terminal
Invaluation class			SELV circuit
Connection terminals		-	occi oliout
 Screwdriver for mains terminals 	head with Z +/-	POZIDRIV	P72
 Screwdriver for tariff and communication terminals 	slotted head	mm	0.8 x 3.5
 Terminal capacity main current paths 	solid wire min. (max)	mm ²	1.5 (35)
	stranded wire with sleeve min. (max)	mm ²	1.5 (35)
 Terminal capacity for tariff and communication 	solid wire min. (max)	mm ²	1 (4)
	stranded wire with sleeve min. (max)	mm ²	1 (2.5)
Environmental conditions (storage)		00	25 . 70
International Conditions (operating)		°U	-23 +10
Temperature range		°C	-25 +55
Mechanical environment			M1
Electromegnetic environment			F2
Installation	Indoor	-	Ves
Altitude (max.)		meters	≈2000
Humidity	yearly average, not condensing		≈75%
	on 30 days per year (not condensing)		≈95%
100 II			10.2 1 10 10 10

For the installation in a cabinet at least with IP51 protection.

Dimension



Sealable terminal covers



CE

Eelectron spa



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DISPOSAL

The crossed-out bin symbol on the equipment or packaging means the product must not be included with other general waste at the end of its working life. The user must take the worn product to a sorted waste centre, or return it to the retailer when purchasing a new one. An efficient sorted waste collection for the environmentally friendly disposal of the used device, or its subsequent recycling, helps avoid the potential negative effects on the environment and people's health, and encourages the re-use and/or recycling of the construction materials.