

Wilo-Stratos ECO

GB	Installation and operating instructions	CZ	Návod k montáži a obsluze
F	Notice de montage et de mise en service	RUS	Инструкция по монтажу и эксплуатации
NL	Inbouw- en bedieningsvoorschriften	EST	Päigaldus- ja kasutusjuhend
E	Instrucciones de instalación y funcionamiento	LV	Uzstādīšanas un ekspluatācijas instrukcija
I	Istruzioni di montaggio, uso e manutenzione	LT	Montavimo ir naudojimo instrukcija
P	Manual de instalação e funcionamento	SK	Návod na montáž a obsluhu
TR	Montaj ve kullanma kılavuzu	SLO	Navodila za vgradnjo in obratovanje
GR	Οδηγίες εγκατάστασης και λειτουργίας	RO	Instrucțiuni de montaj și exploatare
H	Beépítési és üzemeltetési utasítás	BG	Инструкция за монтаж и експлоатация
PL	Instrukcja montażu i obsługi		

Fig.1:

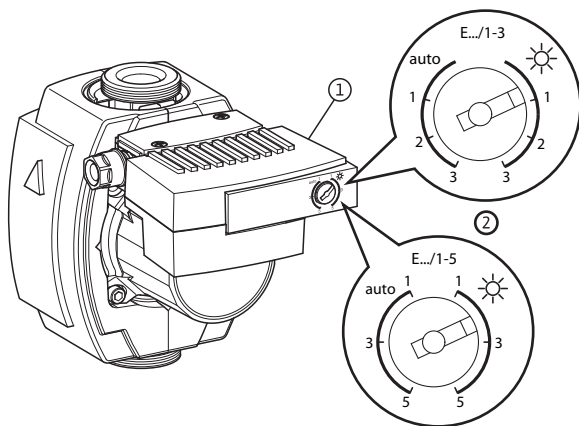


Fig.2:

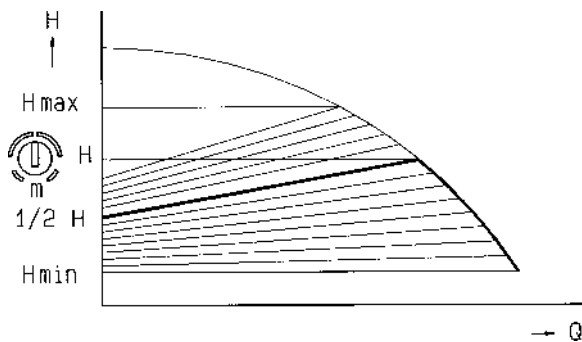


Fig.3:

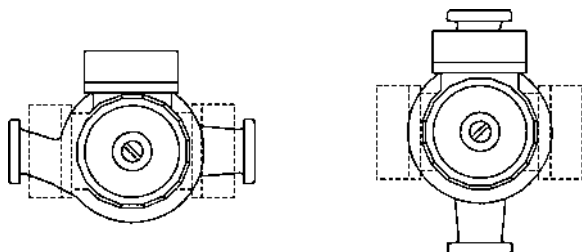
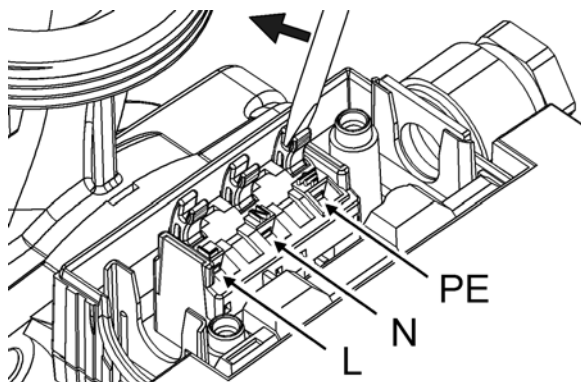


Fig.4:



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1 General

1.1 About this document

These installation and operating instructions are an integral part of the product. They must be kept readily available at the place where the product is installed. Strict adherence to these instructions is a precondition for the proper use and correct operation of the product.

These installation and operating instructions conform to the relevant version of the product and the underlying safety standards valid at the time of going to press.

2 Safety

These instructions contain important information which must be followed when installing and operating the pump. It is therefore imperative that they be read by both the installer and the operator before the pump is installed or operated. Both the general safety instructions in this section and the more specific safety points in the following sections should be observed.

2.1 Instruction symbols used in this operating manual

Symbols:



General danger symbol



Hazards from electrical causes



NOTE: ...

Signal words:

DANGER!

Imminently hazardous situation.

Will result in death or serious injury if not avoided.

WARNING!

Risk of (serious) injury. 'Warning' implies that failure to comply with the safety instructions is likely to result in (severe) personal injury.

CAUTION!

Risk of damage to the pump/installation. 'Caution' alerts to user to potential product damage due to non-compliance with the safety instructions

NOTE:

Useful information on the handling of the product. It alerts the user to potential difficulties

2.2 Personnel qualification

The personnel installing the pump must have the appropriate qualification for this work.

2.3 Risks incurred by failure to comply with the safety instructions

Failure to comply with the safety precautions could result in personal injury or damage to the pump or installation. Failure to comply with the safety precautions could also invalidate any claim for damages.

In particular, failure to comply with these safety instructions could give rise, for example, to the following risks:

- Failure of important pump or system functions,
- Personal injury due to electrical and mechanical causes.

2.4 Safety instructions for the operator

The relevant accident precaution regulations must be observed.

Potential dangers caused by electrical energy must be excluded. Local or general regulations [e.g. IEC, BSI, UL etc.] and directives from local energy supply companies are to be followed.

2.5 Safety instructions for inspection and assembly

The operator must ensure that all inspection and assembly work is carried out by authorised and qualified specialists who have carefully studied these instructions.

Work on a pump or installation should only be carried out once the latter has been brought to a standstill.

2.6 Unauthorised modification and manufacture of spare parts

Changes to the pump/machinery may only be made in agreement with the manufacturer. The use of original spare parts and accessories authorised by the manufacturer will ensure safety. The use of any other parts may invalidate claims invoking the liability of the manufacturer for any consequences.

2.7 Improper use

The operating safety of the pump or installation can only be guaranteed if it is used in accordance with paragraph 4 of the operating instructions. All values must neither exceed nor fall below the limit values given in the catalogue or data sheet.

3 Transport and interim storage

Inspect the pump/system for transport damage immediately upon arrival. Any transport damage found must be reported to the carrier within the prescribed periods.



CAUTION! Risk of damage to the pump!

Risk of damage due to improper handling during transport or storage.

- **The pump is to be protected against moisture and mechanical damage due to impact/shock.**
- **The pumps must not be exposed to temperatures outside the range -10°C to +50°C.**

4 Applications

Stratos ECO:



WARNING! Health hazard!

The pump must not be used for pumping liquids in the fields of service/drinking water and food related liquids.

Series Wilo-Stratos ECO circulating pumps are intended for use in conjunction with hot water heating or similar water circulating systems of variable volume characteristics. The pump-integrated electronic differential pressure control provides infinitely-variable speed control to match pump capacity to actual load demand.

Stratos ECO-Z:

Series Wilo-Stratos ECO-Z circulating pumps are also suitable of handling liquids in the fields of service/drinking water and food related liquids.

5 Product data

5.1 Technical Data	StratosECO 25(30)/1-3	StratosECO 25(30)/1-5	StratosECO-Z 25/1-5
Mains power	1_230 V ± 10%, 50 Hz		
Max. power input P ₁ max	refer to name plate data		
Max. Speed	refer to name plate data		
Degree of protection IP	44		
Water temperature range*	from +15°C to +110°C		
Service water temperature for Stratos ECO-Z 25/1-5	from +15°C to +110°C		
Max. working pressure	10 bar		
Max. ambient temperature*	+40°C		
Inf. variable head control	1 – 3 m	1 – 5 m	1 – 5 m
Minimum static inlet pressure	0,3 bar / 1,0 bar		
for T _{max}	+95°C / +110°C		
Pipe connection size	Rp 1 (1¼)		
Port-to-port dimension	180 mm, 130 mm		

* Water temperature range max. 110 °C at ambient temperature max. 25 °C
max. 95 °C at ambient temperature max. 40 °C

5.2 Suitable fluids:

- Heating water acc. to VDI 2035,
- water and water/glycol mixtures up to a 1:1 ratio. Use of glycol mixtures require a reassessment of the pump hydraulic data in line with the increased viscosity at the various mixing ratios. Only approved makes of additives with corrosion inhibitors must be used in strict compliance with manufacturers' instructions.
- For the use of other fluids contact Wilo first.

5.3 Scope of supply

- Circulating pump, complete,
- Installation and operating instruction.

6 Description and operation

6.1 Pump description

Pump (Fig 1)

The circulating pump is fitted with a wet (canned rotor) motor.

The circulating water service pump **Stratos ECO-Z 25/1-5** is specially designed for use in conjunction with domestic/drinking water service systems. It is by material selection and design, corrosion proofed against any residual, parts in domestic/drinking water.

For thermal insulation the pump housing is lagged with an **insulation shell**.

The motor housing is with an electronic control modul (Item 1) capable of maintaining the pump generated differential pressure constant at a preset value between 1 and 3 m, or 1 and 5 m. Pump capacity is thus matched to the changing load demand which is particularly significant when using thermostatic control valves.

The essential advantages and benefits are:

- no bypass relief valves required,
- power savings,
- reduction of flow noise.

Control mode (Fig 2):

Variable differential pressure ($\Delta p-v$): The differential pressure setpoint levels being proportionally increased between $\frac{1}{2}H$ and H over the permissible flow range. The pump-generated differential pressure will thus be controlled to the respective level.

The pump **automatically** responds to the **night setback** of the central heating installation by electronic evaluation from a temperature sensor. The pump will then switch to the minimum speed. On renewed boiler heat up the pump will switch back to the previously adjusted setpoint level. The night setback control can be switched off (Fig. 1, Item 2):

- **auto:** Night setback ON, control operation to the preselected setpoint value and automatic, temperature-activated night setback (additional power savings).
- : Night setback OFF, control operation to the preselected setpoint value.

Factory setting: Night setback OFF.

NOTE:

In the case of insufficient heating/cooling capacity of the installation (too low a heat transfer) it must be checked whether the night setback control is on. In this case it must be switched off.

**Operating elements (Fig 1):**

- Dial knob for the differential pressure setpoint (Fig. 1, Item 2).
- Setting range:
 - Stratos ECO 25(30)/1-3: $H_{\min} = 1 \text{ m}$, $H_{\max} = 3 \text{ m}$
 - Stratos ECO 25(30)/1-5: $H_{\min} = 1 \text{ m}$, $H_{\max} = 5 \text{ m}$
 - Stratos ECO-Z 25/1-5: $H_{\min} = 1 \text{ m}$, $H_{\max} = 5 \text{ m}$

7 Installation and electrical connection

Installation and electrical connection should be carried out in accordance with local regulations and only by qualified personnel!



WARNING! Risk of personal injury!

The relevant accident precaution regulations must be observed.



WARNING! Risk of electric shock!

Potential dangers caused by electrical energy must be excluded.

Local or general regulations [e.g. IEC etc.] and directives from local energy supply companies are to be followed.

7.1 Installation

- Install pump only after completion of all welding/soldering and after the pipe system had been thoroughly flushed out.
- Mount the pump in an easily accessible location in order to facilitate later inspections or exchange.
- When installed in the flow pipe of an open-vented system, the safety vent must be connected on the inlet side of the pump.
- Isolating valves should be provided and installed at both suction and discharge ports of the pump in order to facilitate a possible pump exchange. They must be located in such a way to prevent valve spindle leakage from spilling onto the control module (upper valve turned sideways).
- Install pump free of stress and with the motor shaft horizontally located. For module locations refer to Fig. 3. Other arrangements on request.
- Directional arrows on pump body and the insulation shell indicate the direction of flow.
- If the mounting location of the module is to be altered, turn the motor housing as follows:

- Unclip insulation shell with the aid of a screwdriver and remove,
- undo the 2 Allen screws,
- turn motor housing including control module.



CAUTION! Risk of damage to the pump!

When turning on the motor housing the gasket may be damaged. Replace damaged gaskets immediately.

Size of gasket: Ø86 mm OD x Ø76 mm ID x 2,0 mm thick, EP.

- Reset and fix Allen screws,
- refit insulation shell.

7.2 Electrical connection



WARNING! Risk of electric shock!

Electrical connection must be carried out by an electrical installer authorised by the local power supply company in accordance with the applicable local regulations.

- Power supply must correspond to name plate data.
- Power wiring to be in accordance with Fig. 4:
 - power connections: L, N, PE.
 - max. line fuse: 10 A, slow action.
- The connecting cable can optionally be lead through the cable gland on either right or left. The gland and the blank plug (PG 11) must than be changed.
- Strictly comply with local earthing regulations.
- All wiring and external switchgear to comply with local regulations (use of conduits, switch air gaps and allpole switches) in strict accordance with locally ruling regulations.
- The incoming power cable must be of sufficiently large sized to maintain protection from moisture ingress and to ensure a tight gland grip (e.g. H05W-F3G1,5 or AVMH-3x1,5).
- Heat resisting cable must be used when installing the pump in systems with water temperatures above 90°C.
- Cable leads to be routed such to avoid any contact with the adjoining pipework and/or the pump or motor housings.

8 Starting-up



WARNING! Risk of burning!

Note the acute danger of the pump becoming very hot, depending on the operating conditions of the pump or system respectively (fluid temperature). Danger of burning when touching the pump!

8.1 Initial start-up

Ensure that the pipe system is properly filled and air-vented. The pump rotor space is automatically vented after a short running period. Short-term dryrunning will not do harm to the pump. If, however, manual venting of the pump may become necessary (not apply for air-venting pump) the following procedure is to be adopted:

- switch-off pump,
- close discharge isolating valve,



WARNING! Risk of scalding!

Depending on fluid temperature and system pressure there is the possibility of hot water in liquid or gaseous state suddenly erupting under great force when opening the vent plug. Note the severe danger of scalding!

- break through the perforation, centrically the name plate and open the vent screw carefully,
- protect electrical parts from released water,
- carefully move and push pump shaft with a screwdriver,



CAUTION! Risk of damage to the pump!

There is the possibility, depending on the system pressure, of the pump jamming with the vent plug open. Before switching on the pump refit and tighten the vent plug.

- refit and tighten vent plug,
- reopen discharge valve,
- switch on pump.

8.2 Adjusting the pump capacity

- Select desired control mode (refer to chapter 6.1).
- Preselect pump capacity (head) at the dial button according to requirements (Fig. 1, Item 2).
- If head requirements are not known it is recommended to begin with a 1,5 m setting.
- If the heating capacity proves insufficient increase head setting step by step.
- Reduce head setting step by step if the heating capacity is too high or noise generation is excessive.
- Select night setback mode; switch either to On or Off (refer to chapter 6.1).

9 Maintenance

Maintenance and repair work should only be carried out by qualified personnel!



WARNING! Risk of electric shock!

Potential dangers caused by electrical energy must be excluded.

- **The pump must be switched off for all repair work and secured against unauthorised operation.**
- **In principle, damage to the connecting cable should only be repaired by a qualified electrician.**

10 Problems, causes and remedies

Pump is switched-on but does not run:

- check electrical fuses,
- check voltage available at the pump (note nameplate data),
- Locked rotor:
 - switch off pump,



WARNING! Risk of scalding!

Depending on fluid temperature and system pressure there is the possibility of hot water in liquid or gaseous state suddenly erupting under great force when opening the vent plug. Note the severe danger of scalding!

- close isolating valves at both pump ports and let pump cool down. Remove vent plug, check freedom of rotation and re-lock pump rotor by turning the shaft at its slotted end with the aid of a screwdriver
- switch on pump.
- Should the blockage not be automatically resolved via the automatic deblocking system, please consult the manual procedural instructions as described above.

Noisy pump operation

- check differential pressure setting and adjust respectively.
- Heating capacity too low, possibilities to increase:
 - Stepp-up setpoint value,
 - switch off night setback,
To briefly switch off night setback mode (check on control operations) it is sufficient to just turn the dial button a little.
- On cavitation, increase system pressure within the permissible limit.

If no solution can be found, please contact your plumbing and heating specialist or your nearest Wilo Customer Service or representative.

11 Spare parts

Spare parts are ordered via a local specialist dealer and/or Wilo customer service.

In order to avoid queries and incorrect orders, make sure to mention all data indicated on the rating plate when placing your order.

Subject to technical alterations!

D **EG – Konformitätserklärung**
GB **EC – Declaration of conformity**
F **Déclaration de conformité CE**

*(gemäß 2004/108/EG Anhang IV,2 und 2006/95/EG Anhang III.B,
according 2004/108/EC annex IV,2 and 2006/95/EC annex III.B,
conforme 2004/108/CE appendice IV,2 et 2006/95/CE appendice III B)*

Hiermit erklären wir, dass die Bauarten der Baureihe :

Herewith, we declare that this product:

Par le présent, nous déclarons que cet agrégat :

Stratos ECO

Stratos ECO Z

Stratos ECO L

Stratos ECO ST

Stratos ECO BMS

in der gelieferten Ausführung folgenden einschlägigen Bestimmungen entspricht:

in its delivered state complies with the following relevant provisions:

est conforme aux dispositions suivants dont il relève:

Elektromagnetische Verträglichkeit – Richtlinie

2004/108/EG

Electromagnetic compatibility – directive

Compatibilité électromagnétique – directive

Niederspannungsrichtlinie

2006/95/EG

Low voltage directive

Directive basse-tension

und entsprechender nationaler Gesetzgebung.

and with the relevant national legislation.

et aux législations nationales les transposant.

Angewendete harmonisierte Normen, insbesondere:

EN 6035-2-51

Applied harmonized standards, in particular:

EN 61000-6-2

Normes harmonisées, notamment:

EN 61000-6-3

Bei einer mit uns nicht abgestimmten technischen Änderung der oben genannten Bauarten, verliert diese Erklärung ihre Gültigkeit.

If the above mentioned series are technically modified without our approval, this declaration shall no longer be applicable.

Si les gammes mentionnées ci-dessus sont modifiées sans notre approbation, cette déclaration perdra sa validité.

Dortmund, 20.05.2010

i. V. Erwin Prieß
Erwin Prieß
Quality Manager



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Germany

NL EG-verklaring van overeenstemming Hiermede verklaren wij dat dit aggregaat in de geleverde uitvoering voldoet aan de volgende bepalingen: Elektromagnetische compatibiliteit 2004/108/EG EG-laagspanningsrichtlijn 2006/95/EG gebruikte geharmoniseerde normen, in het bijzonder: zie vorige pagina	I Dichiarazione di conformità CE Con la presente si dichiara che i presenti prodotti sono conformi alle seguenti disposizioni e direttive rilevanti: Compatibilità elettromagnetica 2004/108/EG Direttiva bassa tensione 2006/95/EG norme armonizzate applicate, in particolare: vedi pagina precedente
E Declaración de conformidad CE Por la presente declaramos la conformidad del producto en su estado de suministro con las disposiciones pertinentes siguientes: Directiva sobre compatibilidad electromagnética 2004/108/EG Directiva sobre equipos de baja tensión 2006/95/EG normas armonizadas adoptadas, especialmente: véase página anterior	P Declaração de Conformidade CE Pela presente, declaramos que esta unidade no seu estado original, está conforme os seguintes requisitos: Compatibilidade electromagnética 2004/108/EG Directiva de baixa voltagem 2006/95/EG normas harmonizadas aplicadas, especialmente: ver página anterior
S CE- försäkrän Härmed förklarar vi att denna maskin i levererat utförande motsvarar följande tillämpliga bestämmelser: EG-Elektromagnetisk kompatibilitet – riktlinje 2004/108/EG EG-Lågsäpänningsdirektiv 2006/95/EG tillämpade harmoniserade normer, i synnerhet: se föregående sida	N EU-Overensstemmelseserklæring Vi erklærer hermed at denne enhet i utførelse som levert er i overensstemmelse med følgende relevante bestemmelser: EG-EMV-Elektromagnetisk kompatibilitet 2004/108/EG EG-Lavspenningsdirektiv 2006/95/EG anvendte harmoniserte standarder, særlig: se forrige side
FIN CE-standardinmukaissuuloste Ilmoitamme täten, että tämä laite vastaa seuraavia asiaankuuluvia määräyksiä: Sähkömagneettinen soveltuvuus 2004/108/EG Matalajännite direktiivit: 2006/95/EG käytetyt yhteensovitetut standardit, erityisesti: katso edellinen sivu.	DK EF-overensstemmelseserklæring Vi erklærer hermed, at denne enhed ved levering overholder følgende relevante bestemmelser: Elektromagnetisk kompatibilitet: 2004/108/EG Lavvolts-direktiv 2006/95/EG anvendte harmoniserede standarder, særligt: se forrige side
H EK-megfelelőségi nyilatkozat Ezennel kijelentjük, hogy az berendezés megfelel az alábbi irányelveknek: Elektromágneses összeférhetőség irányelv: 2004/108/EK Kisfeszültségű berendezések irányelv: 2006/95/EK alkalmazott harmonizált szabványoknak, különösen: lásd az előző oldalt	CZ Prohlášení o shodě ES Prohlašujeme tímto, že tento agregát v dodaném provedení odpovídá následujícím příslušným ustanovením: Směrnice o elektromagnetické kompatibilitě 2004/108/ES Směrnice pro nízké napětí 2006/95/ES použité harmonizační normy, zejména: viz předchozí strana
PL Deklaracja Zgodności WE Niniejszym deklarujemy z pełną odpowiedzialnością, że dostarczony wyrób jest zgodny z następującymi dokumentami: dyrektywą dot. kompatybilności elektromagnetycznej 2004/108/WE dyrektywą niskonapięciową 2006/95/WE stosowanymi normami zharmonizowanymi, a w szczególności: patrz poprzednia strona	RUS Декларация о соответствии Европейским нормам Настоящим документом заявляем, что данный агрегат в его объеме поставки соответствует следующим нормативным документам: Электромагнитная устойчивость 2004/108/EG Директивы по низковольтному напряжению 2006/95/EG Используемые согласованные стандарты и нормы, в частности: см. предыдущую страницу

GR Δήλωση συμμόρφωσης της ΕΕ Δηλώνουμε ότι το προϊόν αυτό σ' αυτή την κατάσταση παράδοσης ικανοποιεί τις ακόλουθες διατάξεις: Ηλεκτρομαγνητική συμβατότητα ΕΚ-2004/108/ΕΚ Οδηγία χαμηλής τάσης ΕΚ-2006/95/ΕΚ Εναρμονισμένα χρησιμοποιούμενα πρότυπα, ιδιαίτερα: Βλέπε προηγούμενη σελίδα	TR CE Uygunluk Teyid Belgesi Bu cihazın teslim edildiği şekliyle aşağıdaki standartlara uygun olduğunu teyid ederiz: Elektromanyetik Uyumluluk 2004/108/EG Alçak gerilim yönetmeliği 2006/95/EG Kismen kullanılan standartlar için: bkz. bir önceki sayfa
RO EC-Declarație de conformitate Prin prezenta declarăm că acest produs așa cum este livrat, corespunde cu următoarele prevederi aplicabile: Compatibilitatea electromagnetică – directiva 2004/108/EG Directiva privind tensiunea joasă 2006/95/EG standarde armonizate aplicate, înoseobi: vezi pagina precedentă	EST EÜ vastavusdeklaratsioon Käesolevaga tõendame, et see toode vastab järgmistele asjakohastele direktiividele: Elektromagnetilise ühilduvuse direktiiv 2004/108/EÜ Madalpinge direktiiv 2006/95/EÜ kohaldatud harmoneeritud standardid, eriti: vt eelmist lk
LV EC – atbilstības deklarācija Ar šo mēs apliecinām, ka šis izstrādājums atbilst sekojošiem noteikumiem: Elektromagnētiskās savietojamības direktīva 2004/108/EK Zemsprieguma direktīva 2006/95/EK piemēroti harmonizēti standarti, tai skaitā: skatīt iepriekšējo lappusi	LT EB atitikties deklaracija Šiuo pažymima, kad šis gaminyas atitinka šias normas ir direktyvas: Elektromagnetinio suderinamumo direktyvą 2004/108/EB Žemos įtampos direktyvą 2006/95/EB pritaikytus vieningus standartus, o būtent: žr. ankstesniame puslapyje
SK ES vyhlásenie o zhode Týmto vyhlasujeme, že konštrukcie tejto konštrukčnej série v dodanom vyhotovení vyhovujú nasledujúcim príslušným ustanoveniam: Elektromagnetická zhoda – smernica 2004/108/ES Nízkonapäťové zariadenia – smernica 2006/95/ES používané harmonizované normy, najmä: pozri predchádzajúcu stranu	SLO ES – izjava o skladnosti Izjavljamo, da dobavljenе vrste izvedbe te serije ustrezajo sledečim zadevnim določilom: Direktiva o elektromagnetni združljivosti 2004/108/ES Direktiva o nizki napetosti 2006/95/ES uporabljeni harmonizirani standardi, predvsem: glejte prejšnjo stran
BG EO-Декларация за съответствие Декларираме, че продуктът отговаря на следните изисквания: Електромагнитна съвместимост – директива 2004/108/EO Директива ниско напрежение 2006/95/EO Хармонизирани стандарти: вж. предната страница	M Dikjarazzjoni ta' konformità KE B'dan il-mezz, niddikjaraw li l-prodott tas-serje jissodisfaw id-dispożizzjonijiet rilevanti li ġejjin: Kompatibbiltà elettromanjetika - Direttiva 2004/108/KE Vultaġġ baxx - Direttiva 2006/95/KE kif ukoll standards armonizzati b' mod partikolari: ara l-paġna ta' qabel

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