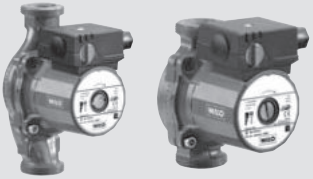

Wilo-Star RS, RSD, ST, RSG, AC

D	**Einbau- und Betriebsanleitung**
GB	**Installation and operating instructions**
F	**Notice de montage et de mise en service**
NL	**Montage- en bedieningsvoorschrift**
I	**Istruzioni di montaggio, uso e manutenzione**
E	**Instrucciones de instalación y funcionamiento**
S	**Installations- och skötselinstruktioner**
FIN	**Huolto- ja käyttöohje**
H	**Beépítési és üzemeltetési utasítás**
PL	**Instrukcja montażu i obsługi**
CZ	**Návod k montáži a obsluze**
SK	**Návod na montáž a obsluhu**
RO	**Instrucfliuni de montaj øi expolatare**
GR	**Οδηγίες εγκατάστασης και λειτουργίας**
RUS	**Инструкция по монтажу и эксплуатации**
LT	**Montavimo ir naudojimo instrukcija**
LV	**Uzstādīšanas un ekspluatācijas instrukcija**
UK	**Інструкція по монтажу та експлуатації**
TR	**Montaj ve kullanma kılavuzu**

4131013-Ed.01/2009-02 DDD

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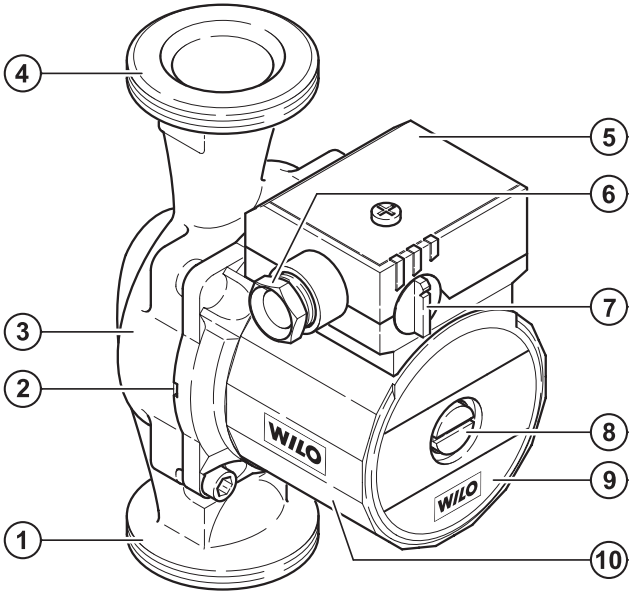

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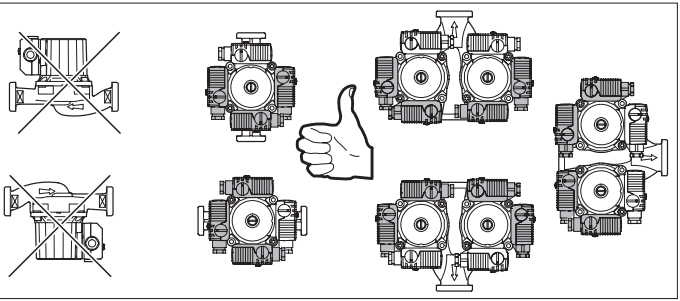

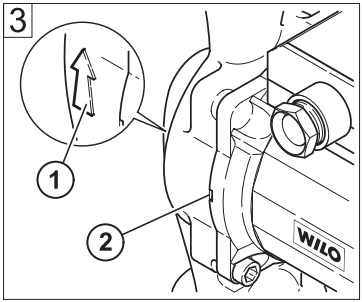
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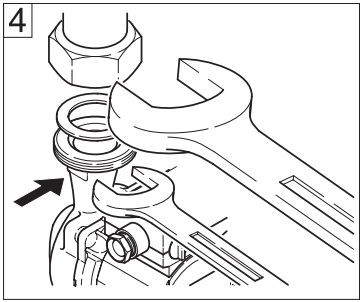
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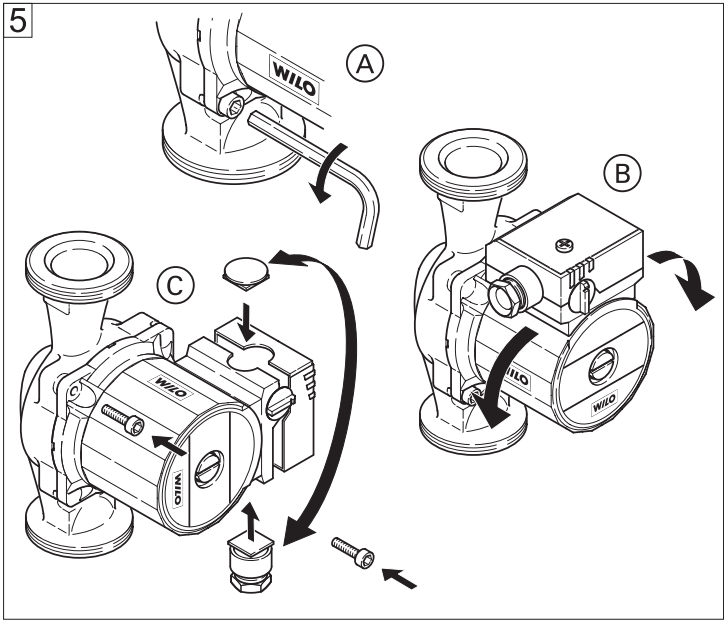
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A
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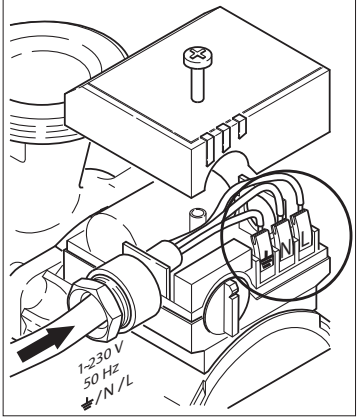
6



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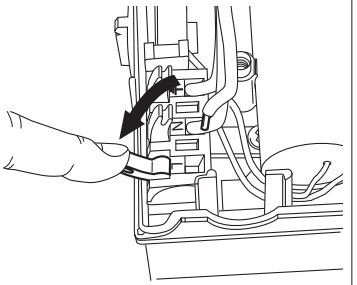

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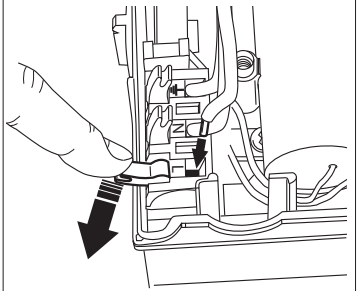

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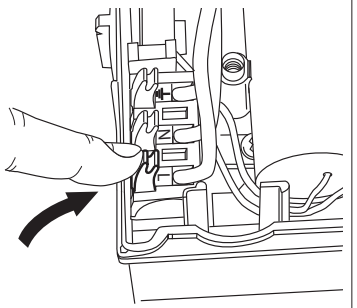
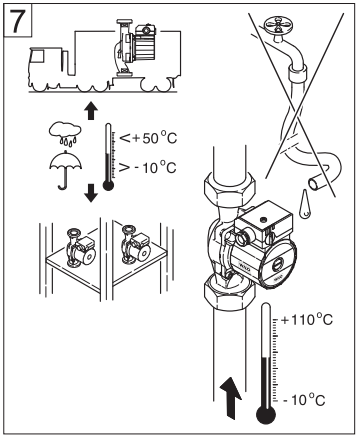
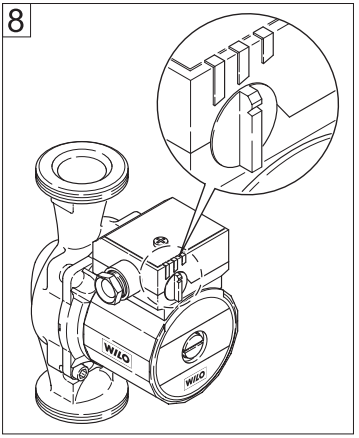



7
<+50°C
>-10°C
+110°C
-10°C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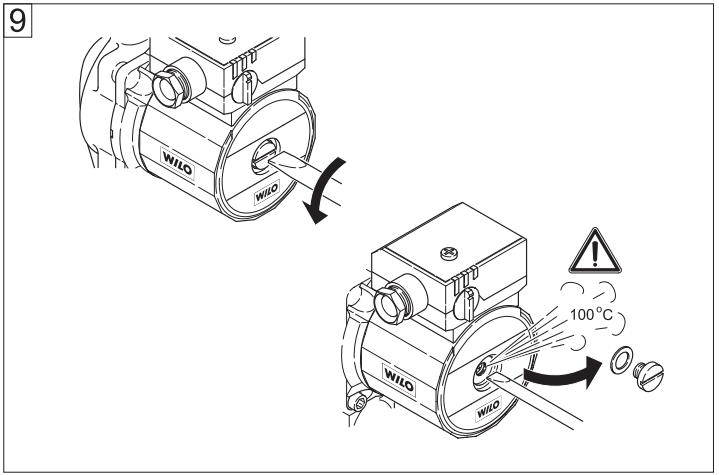
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WILO

1 General Information

These Operating Instructions explain the functions and operation of the pump when installed and ready for use. The figures referred to in the text can be found on the fold-out page at the front.

Use as prescribed

The circulating pump (hereafter referred to simply as pump or general unit) is used to pump liquids in pipe systems.

The pump must not be used for handling drinking water or food related liquids.

Its main fields of application are:

- Hot-water heating, various systems,
- Industrial, closed circulating systems.

Specific details:

- Type ST: for thermal solar systems
- Type RSG: for geothermal systems
- Type AC: for air-conditioning units and cold-water distribution.

Terms (Fig. 1)

1 Suction joint
2 Condensate outlet
3 Pump housing
4 Pressure joint
5 Terminal box
6 Cable entry
7 Speed switch
8 Ventilation
9 Rating plate
10 Motor housing

Rating plate **Star-RS 30/4**

Heating circulating pumps, glandless pumps
RS Screwed pipe pump
RSD Double pump
ST Solarthermal pump
RSG Geothermal heat pump
AC Air-conditioning pump
Nominal width [mm]
15, 20 (Rp1/2), 25 (Rp1), 30 (Rp1 1/4)
Maximum delivery head [m]

Connection and electrical data

Voltage:	1~230V ±10%
Mains frequency:	50Hz
Power consumption P_{max}:	Rating plate
Motor speed, max.:	Rating plate
Protection category IP:	Rating plate
Speed setting:	3 stages *
Fitting length:	130/180 mm
Perm. operating pressure, max.:	10 bar
Perm. medium temperatures min./max.:	-10/+110 °C

Perm. ambient
temperatures max.: +40 °C
Min. inlet pressure** at suction side at
+ 50 °C: 0.05 bar
+ 95 °C: 0.3 bar
+ 110 °C: 1.0 bar

* For double pumps the additional switchgear S2R 3D is required for time-controlled main/reserve or additional/peak-load operation.

** The values are valid up to 300 m above sea level. For higher elevations add: 0.01 bar/100 m.
The minimim inlet pressure must be maintained in order to avoid cavitation noise!

Permissible fluids:
- Heating water acc. to VDI 2035
- Water and water/glycol mixtures in a ratio up to 1:1. Glycol mixtures require a reassessment of pump hydraulic data in line with the increased viscosity and depending on mixing ratios. Only approved makes of additives with corrosion inhibitors must be used in strict compliance with manufacturers' instructions.
- For use of other kinds of fluids consult WILO first.

2 Safety

These instructions contains basic reference which must be strictly adhered. It is therefore imperative for the installer and operator to carefully read these instructions prior to installation and commissioning.

Please observe, not only the safety directions under the main heading „safety rules“, but also those added and specially marked under the ensuing headers.

Safety marks contained in these instructions

Safety rules contained herein which, if not complied with, may be dangerous to persons are specially highlighted by the following danger symbols:

Danger from electrical causes:

Safety references which, if not complied with, may cause damage to the pump / installation or impair its functions are highlighted by the word:

ATTENTION!

Staff training

The personnel installing the pump / unit must have the appropriate qualifications for this work.

Dangers from non-observance of safety rules

Non-observance of safety reference may cause personal injury or damage to the pump or installation. Failure to comply with the safety references could invalidate warranty and/or damage claims.
In particular, non-compliance may, for example, cause the following dangerous situations:

– Failure of important pump or unit functions,
– Causing personal injury due to electrical or mechanical causes.

Safety rules for the operator
Local regulations for the prevention of accidents must be observed.
Dangers caused by electrical energy must be excluded. Local or general regulations [e.g. IEC, VDE, etc.] and directives from local energy supply companies are to be followed.

Safety rules for inspection and installation work
The operator must ensure that all inspection and installation work is carried out by authorised and qualified specialists who have carefully studied these instructions.
Work on the pump/unit must be carried out only with the machine switched off and at compete standstill.

Unauthorized modification and manufacture of spare parts
Alterations to the pump or installation may only be carried out with the manufacturer's agreement.
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.

Unauthorised operating methods
The operating safety of the pump or installation supplied can only be guaranteed if it is used in accordance with paragraph 1 of the operating instructions. Under no circumstances should the limit values given in the data sheet be exceeded.

3 Transport/Interim storage

ATTENTION! The pump contains electronic components and must be protected against moisture from outside and mechanical damage (shock / impact) (Fig. 7). It must not be exposed to temperatures outside the range -10 °C to +50 °C. (Fig. 7).

4 Description of pump/accessories

Products delivered
– Complete pump
– 2 flat gaskets,
– Installation and operating instructions

Pump description
In the wet-running pump all rotating parts are surrounded by the flow medium, including the motor rotor.
A shaft seal, which would be subject to wear and tear, is not required. The pumping medium lubricates the friction bearing and cools both bearing and rotor.
No **motor overload protection** is required.
Even the maximum overload current cannot damage the motor. The motor operates non-overloading.

Speed setting (Fig. 8)
The speed of the pump can be adjusted with a 3-position rotary button. In position 3 the speed is approx. 40...50 % of the maximum speed with the power consumption being reduced to 50 %.

Particular features of the pumps
Double pumps contain two identically constructed pump heads in a common pump housing with integrated change-over flap. Each pump can run in single mode, and both pumps can also run simultaneously in parallel mode. The operating modes are main/reserve operation or incremental/peak-load operation. The pump heads can be selected of different capacities. Double pumps are suitable of adapting a pipe system to suit individual load characteristics. The S2R 3D control unit must be connected to control the different operating modes.
The **ST...** and **RSG...** pumps are pumps with special hydraulics for use in solar thermal systems (Type ST...) or geothermal systems (Type RSG...).
The **AC 20/...-I(O)** pump is an air-conditioning pump with a plasitc (composite) pump housing for use in air-conditioning units and cold-water distribution.
In the AC ../..**-I**:
(I = **i**nline) pump the pump housing is designed „inline"-, i. e. suction and pressure connections are in line.
The AC ../..**-O**:
(O = **o**ffline) pump is equipped with axial suction and radial discharge connection.

Accessories
Accessories must be ordered separately.
- Inserts for the pipe connection of the screwed-pipe pump.
- S2R 3D switchgear for double pump.
- Thermal insulating units for later insulation of the ST/RSG 25 pump.

5 Assembly/ Installation

Installation

ATTENTION! **Installation and service by qualified personnel only!**

- Assembly should only take place once all welding and soldering work and the rinsing of the pipe network has been completed. Dirt can have an adverse effect on the functioning of the pump.
- The pump must be installed in an easily accessible position to facilitate inspection or replacement.
- It is recommended that shut-off devices be fitted before and after the pump. This will save having to drain and refill the system if the pump needs replacing. The fittings are to be installed so that any water that escapes cannot drip onto the pump motor or terminal box.
- When installed into the flow pipe of an open-vented system, the open safety vent must be connected to the system on the inlet side of the pump.

- Pump to be mounted with the shaft in the horizontal plane in such a way that it is not stressed by the pipework. (Installation positions in Fig. 2).
- An arrow on the pump casing indicates the direction of flow (Fig. 3, pos.1).
- Secure the pump against twisting by using a spanner (Fig. 4).
- In order to attain the correct terminal box position the motor housing can be turned once the motor fastening screws have been losened (Fig. 5).

ATTENTION! Do not damage the flat gasket. If necessary use a new gasket: Ø 86 x Ø 76 x 2.0 mm EP.

ATTENTION! For units which are to be insulated, only the pump housing may be insulated. The motor and condensate openings must remain free (Fig. 3, pos. 2).

Electrical connection

Electrical connection must be carried out by a qualified and licensed electrician in strict conformity to ruling national conditions and local regulations (e.g. VDE regulations in Germany).

- According to Part 1 of the VDE 0730, the pump must be connected to the electrical supply by a solid wire equipped with a plug connection or an all-pole switch. The width of the contact gap must be at least 3 mm.
- To guarantee protection against dripping water and the strain relief of the PG screwed joint, a connecting cable of suitable external diameter is to be used (e.g. H 05 VV-F 3 G 1.5).
- When using the pump in units where the water temperature exceeds 90 °C, a connecting cable with corresponding heat resistance must be used.
- The supply cable must be laid in such a way that it never touches the pipework and/or the pump and motor casing.
- Check that the mains current and voltage comply with the data on the rating plate.
- Make mains connection as shown in Fig. 6.
- The connecting cable can be fed through the PG screwed joint either to the left or right. If necessary, the blind plug and PG screwed joint are to be exchanged. If the terminal box is positioned on the side, always insert the PG screwed joint from below (Fig. 5)

Caution risk of short-circuit! After electrical connections the terminal box cover must be closed properly, to protect against moisture.

- Pump/installation must be earthed in compliance with regulations.
- When connecting automatic switchgear (for double pumps), follow the appropriate Installation and Operating Instructions.

6 Operation

System filling and venting

The pump may need venting e.g. if the heating and pump are working but the heating element remains cold. If there is air in the pump chamber, the pump will not pump water.

Carefully fill the unit with water.

Solar thermal systems must be filled with ready for use mixtures. The pump must not be used to mix the medium in the system.

The pump is normally vented automatically after a short operatinal period. Short-term dry running will not damage the pump. If it becomes necessary to vent the pump, please observe the following procedure:

– Switch off pump,

Risk of burning if the pump is touched!

Depending on the operating condition of the pump and/or installation (fluid temperature) the pump/motor can become very hot.

– Close the valve on the discharge side.

Risk of scalding!

Depending on the fluid temperature and the system pressure, if the vent screw is completely loosened hot liquid or vapour can escape or even shoot out at high pressure.

– Carefully loosen and fully remove the vent plug with a suitable screwdriver (Fig. 9).
– Carefully push pump shaft back several times with screwdriver.
– Protect all electrical parts against the leaking water.
– Switch-on pump.

ATTENTION! It is possible that the pump blocks with the vent plug open, depending on the system pressure.

– After 15...30 s tighten the vent plug.
– Re-open isolating valve,

Speed setting

If the rooms cannot be sufficiently heated, the speed of the pump may be too low. In this case you will need to switch to a higher speed.

If, on the other hand, the pump is set at too high a speed, flow noise may occur in the lines and in particular at throttled thermostatic valves. This can be rectified by switching to a lower speed.

The speed is changed by means of a rotary button at the terminal box. 3 represents the lowest and 1 the highest speed.

7 Maintenance

Prior maintenance or repair work switch off the pump and secure against unauthorized switching.

8 Problems, Causes and Remedies

Motor is switched on but fails to run:

- Check electrical fuses,
- Check voltage of pump (observe rating plate data),
- Check capacitor size (observe rating plate data!).
- Motor is blocked, e.g. by deposits from the heating water.
- Remedies: Fully remove vent plug, check and if necessary rectify free running of pump rotor by turning the slotted end of the shaft with a screwdriver (Fig. 9).

At high water temperatures and system pressure close isolating valves before and after the pump. First, allow pump to cool down

Noisy pump operation

- Cavitation due to insufficient inlet pressure.
- Remedies: increase system pressure within the permissible range.
- Check speed setting, if necessary switch to a lower speed.

If the fault cannot be rectified, contact your nearest WILO Customer Service.

9 Spare parts

All rating plate data must be stated when ordering spare parts.

Subject to technical alterations!

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

Hiermit erklären wir, dass die Bauarten der Baureihe :
Herewith, we declare that this product:
Par le présent, nous déclarons que cet agrégat :

Star RS
Star RSD
Star RSG
Star ST
Star AC

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:
Applied harmonized standards, in particular:
Normes harmonisées, notamment:

EN 1050
EN 61000-6-1
EN 61000-6-2
EN 61000-6-3
EN 61000-6-4
EN 61335-2-51

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, 07.11.2008

i. V.
Erwin Prieß
Quality Manager

WILO SE
Nortkirchenstraße 100
44263 Dortmund
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: 1)

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: 1)

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: 1)

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 voltagem2006/95/EG

Normas harmonizadas aplicadas, especialmente: 1)

S **CE- försäkran**
Härmed förklarar vi att denna maskin i levererat utförande motsvarar följande tillämpliga bestämmelser:

EG–Elektromagnetisk kompatibilitet – riktlinje 2004/108/EG

EG–Lågspänningsdirektiv 2006/95/EG

Tillämpade harmoniserade normer, i synnerhet: 1)

N **EU-Overensstemmelseserklæring**
Vi erklærer hermed at denne enheten 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: 1)

FIN **CE-standardinmukaisuusseloste**
Ilmoitamme täten, että tämä laite vastaa seuraavia asiaankuuluvia määräyksiä:

Sähkömagneettinen soveltuvuus 2004/108/EG

Matalajännite direktiivit: 2006/95/EG

Käytetyt yhteensovitetut standardit, erityisesti: 1)

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: 1)

H **EK. Azonossági nyilatkozat**
Ezennel kijelentjük,hogy az berendezés az alábbiaknak megfelel:

Elektromágneses zavarás/türés: 2004/108/EG

Kisfeszültségü berendezések irány-Elve: 2006/95/EG

Felhasznált harmonizált szabványok, különösen: 1)

CZ **Prohlášení o shodě EU**
Prohlašujeme tímto, že tento agregát v dodaném provedení odpovídá následujícím příslušným ustanovením:

Směrnicím EU–EMV 2004/108/EG

Směrnicím EU–nízké napětí 2006/95/EG

Použité harmonizační normy, zejména: 1)

PL **Deklaracja Zgodności CE**
Niniejszym deklarujemy z pełną odpowiedzialnością że dostarczony wyrób jest zgdony z następującymi dokumentami:

Odpowiedniość elektromagnetyczna 2004/108/EG

Normie niskich napięć 2006/95/EG

Wyroby są zgodne ze szczegółowymi normami zharmonizowanymi: 1)

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 : 1)

GR **Δήλωση προσαρμογής της Ε.Ε.**
Δηλώνουμε ότι το προϊόν αυτό σ' αυτή την κατάσταση παράδοσης ικανοποιεί τις ακόλουθες διατάξεις :

Ηλεκτρομαγνητική συμβατότητα EG-2004/108/EG

Οδηγία χαμηλής τάσης EG–2006/95/EG

Εναρμονισμένα χρησιμοποιούμενα πρότυπα, ιδιαίτερα: 1)

TR **EC Uygunluk Teyid Belgesi**
Bu cihazın teslim edildiği şekliyle aşağıdaki standartlara uygun olduğunu teyid ederiz:

Elektromanyetik Uyumluluk 2004/108/EG

Alçak gerilim direktifi 2006/95/EG

Kısmen kullanılan standartlar: 1)

1) **EN 1050,**
EN 61000-6-1
EN 61000-6-2,
EN 61000-6-3,
EN 61000-6-4,
EN 60335-2-51.

i.V.

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Quality Manager

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