

IO 50 SQFlex

Installation and operating instructions



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GRUNDFOS 

IO 50 SQFlex

English (GB)

Installation and operating instructions 6

Български (BG)

Упътване за монтаж и експлоатация. 11

Čeština (CZ)

Montážní a provozní návod 16

Deutsch (DE)

Montage- und Betriebsanleitung 21

Dansk (DK)

Monterings- og driftsinstruktion 26

Eesti (EE)

Paigaldus- ja kasutusjuhend 31

Español (ES)

Instrucciones de instalación y funcionamiento. 36

Suomi (FI)

Asennus- ja käyttöohjeet 41

Français (FR)

Notice d'installation et de fonctionnement. 46

Ελληνικά (GR)

Οδηγίες εγκατάστασης και λειτουργίας. 51

Hrvatski (HR)

Montažne i pogonske upute 56

Magyar (HU)

Telepítési és üzemeltetési utasítás 61

Italiano (IT)

Istruzioni di installazione e funzionamento 66

Lietuviškai (LT)

Įrengimo ir naudojimo instrukcija 71

Latviešu (LV)

Uzstādīšanas un ekspluatācijas instrukcija 76

Nederlands (NL)

Installatie- en bedieningsinstructies 81

Polski (PL)

Instrukcja montażu i eksploatacji 86

Português (PT)

Instruções de instalação e funcionamento 91

Română (RO)

Instrucțiuni de instalare și utilizare 96

Srpski (RS)

Uputstvo za instalaciju i rad 101

Русский (RU)

Паспорт, Руководство по монтажу и эксплуатации . . . 106

Svenska (SE)

Monterings- och driftsinstruktion 111

Slovensko (SI)

Navodila za montažo in obratovanje 116

Slovenčina (SK)

Návod na montáž a prevádzku	121
---------------------------------------	-----

Türkçe (TR)

Montaj ve kullanım kılavuzu	126
---------------------------------------	-----

Українська (UA)

Інструкції з монтажу та експлуатації	131
--	-----

中文 (CN)

安装和使用说明书	136
--------------------	-----

(AR) العربية

تعليمات التركيب و التشغيل	141
-------------------------------------	-----

Appendix A	146
-----------------------------	------------

EU declaration of conformity	148
---	------------

UK declaration of conformity	153
---	------------

Moroccan declaration of conformity	154
---	------------

Operating manual EAC	157
---------------------------------------	------------

English (GB) Installation and operating instructions

Original installation and operating instructions

Table of contents

1.	General information	6
1.1	Hazard statements	6
1.2	Notes	7
2.	Applications	8
3.	Installation	8
3.1	Mechanical installation	8
3.2	Electrical connection	8
4.	Technical data	10
5.	Disposing of the product	10

1. General information



Read this document before you install the product. Installation and operation must comply with local regulations and accepted codes of good practice.



The use of this product requires experience with and knowledge of the product. Persons with reduced physical, sensory or mental capabilities must not use this product, unless they are under supervision or have been instructed in the use of the product by a person responsible for their safety. Children must not use or play with this product.

1.1 Hazard statements

The symbols and hazard statements below may appear in Grundfos installation and operating instructions, safety instructions and service instructions.

**DANGER**

Indicates a hazardous situation which, if not avoided, will result in death or serious personal injury.

**WARNING**

Indicates a hazardous situation which, if not avoided, could result in death or serious personal injury.

**CAUTION**

Indicates a hazardous situation which, if not avoided, could result in minor or moderate personal injury.

The hazard statements are structured in the following way:

**SIGNAL WORD****Description of the hazard**

Consequence of ignoring the warning

- Action to avoid the hazard.

1.2 Notes

The symbols and notes below may appear in Grundfos installation and operating instructions, safety instructions and service instructions.



Observe these instructions for explosion-proof products.



A blue or grey circle with a white graphical symbol indicates that an action must be taken.



A red or grey circle with a diagonal bar, possibly with a black graphical symbol, indicates that an action must not be taken or must be stopped.



If these instructions are not observed, it may result in malfunction or damage to the equipment.



Tips and advice that make the work easier.

2. Applications

The IO 50 SQFlex switch box is made for solar-powered SQFlex systems and is an on/off switch for the system power supply.

In addition, the IO 50 functions as a connection point for all necessary cables.

By means of the on/off switch, it is possible to

- start/stop the pump
- reset alarms.

The electrical connection and protection must be carried out in accordance with local regulations.

3. Installation

WARNING

Death or serious personal injury



- Before starting any work on the IO 50, make sure that the power supply has been disconnected and that it cannot be accidentally connected.

3.1 Mechanical installation

The IO 50 SQFlex must be placed on a firm and stable surface that fits the box.

3.2 Electrical connection

The electrical connection must be carried out by an authorised electrician in accordance with local regulations.

Two typical wiring diagrams are shown in section A.1. *Appendix*:

- one DC conductor earthed (fig. Wiring diagram, one DC conductor earthed)

- floating DC supply or AC connection (fig. Wiring diagram, floating DC supply or AC connection).

Position of wire jumpers

Wiring	Place the wire jumpers between		
One DC conductor earthed	1L1 - 3L2	5L3 - 7L4	4T2 - 6T3
Floating DC supply	1L1 - 7L4	3L2 - 5L3	-

Explanation

The jumpers are necessary in order to meet the demands of the circuit breaker due to the complexity of handling DC currents. This means that contact sets in series connection are required.

WARNING

Death or serious personal injury



- Never make any connections in the IO 50 unless the power supply has been disconnected. The IO 50 must be connected in accordance with the rules and standards in force for the application in question.
- Use appropriate compression fittings to ensure watertight cable entries.
- The IO 50 must be earthed.

The DC supply voltage is stated on the nameplate. Make sure that the IO 50 is suitable for the power supply on which it will be used.

4. Technical data

System voltages

- DC: Maximum 300 V, PE.
- AC: Maximum 254 V, 50/60 Hz, PE.



All four relay contacts must be used to meet the rated DC voltage.
See the wiring diagrams in section A.1. *Appendix*.

Maximum current

16 A.

Ambient temperature

T_{amb.}: -30 °C to 50 °C.

Enclosure class

IP55 or NEMA 3R.

For EN 60947-3 related technical data, see A.2. *Appendix*.

5. Disposing of the product

This product or parts of it must be disposed of in an environmentally sound way.

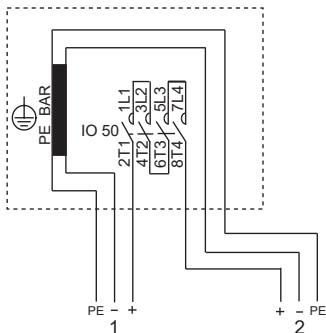
1. Use the public or private waste collection service.
2. If this is not possible, contact the nearest Grundfos company or service workshop.

See also end-of-life information at www.grundfos.com/product-recycling.

Appendix A

A.1. Appendix

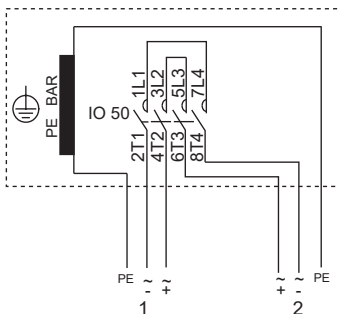
Wiring diagram, one DC conductor earthed



TM045893

Pos.	Description
1	Solar Module
2	SQ Flex

Wiring diagram, floating DC supply or AC connection



TM049755

Pos.	Description
1	Solar Module / AC Source
2	SQ Flex

A.2. Appendix

Technical data

Rated operational current AC-21A	(up to 690 V) 16 A
Rated operational current DC-21A (4 poles)	(up to 300 V) 16 A
Rated operational power AC-23A	(380-415 V, 500 V, 690 V) 7.5 kW
Conventional thermal current	fully enclosed 25 A
Rated impulse with voltage	0.5 kV
Rated insulation voltage	according to IEC/EN 60664-1 750 V
Rated short-circuit making capacity	(690 V AC) 0.705 kA
Rated short-time withstand current	for 1 s 0.5 kA
Rated conditional short-circuit current	6.5 kA rms
Pollution degree	3
Standards	IEC 60947-1, -3
Number of poles	4
Connecting capacity main circuit	screw clamp 0.75-10 mm ²
	screw clamp / PE terminal 2pcs, 1.5-6 mm ²
Cable outlets per side	2 × ø25.5 / 2 × ø25.5
Degree of protection	according to IEC 60529 IP65
Impact resistance	housing IK09
Tightening torque	0.8 Nm
Dimensions	
W x H x L	100 × 161 × 80 mm
Net weight	0.36 kg

EU declaration of conformity

GB: EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the product IO 50, to which the declaration below relates, is in conformity with the Council Directives listed below on the approximation of the laws of the EU member states.

BG: Декларация за съответствие на ЕО

Ние, фирма Grundfos, заявяваме с пълна отговорност, че продуктът IO 50, за който се отнася настоящата декларация, отговаря на следните директиви на Съвета за уеднаквяване на правните разпоредби на държавите-членки на ЕО.

CZ: Prohlášení o shodě EU

My firma Grundfos prohlašujeme na svou plnou odpovědnost, že výrobek IO 50, na který se toto prohlášení vztahuje, je v souladu s níže uvedenými ustanoveními směrnice Rady pro sblížení právních předpisů členských států Evropského společenství.

DE: EU-Konformitätserklärung

Wir, Grundfos, erklären in alleiniger Verantwortung, dass das Produkt IO 50, auf das sich diese Erklärung bezieht, mit den folgenden Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EU-Mitgliedsstaaten übereinstimmt.

DK: EU-overensstemmelseserklæring

Vi, Grundfos, erklærer under ansvar at produktet IO 50 som erklæringen nedenfor omhandler, er i overensstemmelse med Rådets direktiver der er nævnt nedenfor, om indbyrdes tilnærmelse til EU-medlemsstaternes lovgivning.

EE: EÜvastavusdeklaratsioon

Meie, Grundfos, kinnitame ja kanname ainuisikulist vastutust selle eest, et toode IO 50, mille kohta all olev deklaratsioon käib, on kooskõlas Nõukogu Direktiividega, mis on nimetatud all pool vastavalt vastuvõetud õigusaktidele ühtlustamise kohta EÜ liikmesriikides.

ES: Declaración de conformidad de la UE

Grundfos declara, bajo su exclusiva responsabilidad, que el producto IO 50 al que hace referencia la siguiente declaración cumple lo establecido por las siguientes Directivas del Consejo sobre la aproximación de las legislaciones de los Estados miembros de la UE.

FI: EU-vaatimustenmukaisuusvakuutus

Grundfos vakuuttaa omalla vastuullaan, että tuote IO 50, jota tämä vakuutus koskee, on EU:n jäsenvaltioiden lainsäädännön lähentämiseen tähtäävien Euroopan neuvoston direktiivien vaatimusten mukainen seuraavasti.

FR: Déclaration de conformité UE

Nous, Grundfos, déclarons sous notre seule responsabilité, que le produit IO 50, auquel se réfère cette déclaration, est conforme aux Directives du Conseil concernant le rapprochement des législations des États membres UE relatives aux normes énoncées ci-dessous.

GR: Δήλωση συμμόρφωσης ΕΕ

Εμείς, η Grundfos, δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι το προϊόν IO 50, στο οποίο αναφέρεται η παρακάτω δήλωση, συμμορφώνεται με τις παρακάτω Οδηγίες του Συμβουλίου περί προσέγγισης των νομοθεσιών των κρατών μελών της ΕΕ.

HR: EU deklaracija sukladnosti

Mi, Grundfos, izjavljujemo s punom odgovornošću da je proizvod IO 50, na koja se izjava odnosi u nastavku, u skladu s dolje navedenim direktivama Vijeća o usklađivanju zakona država članica EU-a.

HU: EU megfeleléségi nyilatkozat

Mi, a Grundfos vállalat, teljes felelősséggel kijelentjük, hogy a(z) IO 50 termék, amelyre az alábbi nyilatkozat vonatkozik, megfelel az Európai Unió tagállamainak jogi irányelveit összehangoló tanács alábbi előírásainak.

IT: Dichiarazione di conformità UE

Grundfos dichiara sotto la sua esclusiva responsabilità che il prodotto IO 50, al quale si riferisce questa dichiarazione, è conforme alle seguenti direttive del Consiglio riguardanti il riavvicinamento delle legislazioni degli Stati membri UE.

LT: ES atitikties deklaracija

Mes, Grundfos, su visa atsakomybe pareiškiame, kad produktas IO 50, kuriam skirta ši deklaracija, atitinka žemiau nurodytas Tarybos Direktyvas dėl ES šalių narių įstatymų suderinimo.

LV: ES atbilstības deklarācija

Sabiedrība Grundfos ar pilnu atbildību paziņo, ka produkts IO 50, uz kuru attiecas tālāk redzamā deklarācija, atbilst tālāk norādītajām Padomes direktīvām par ES dalībvalstu normatīvo aktu tuvināšanu.

NL: EU-conformiteitsverklaring

Wij, Grundfos, verklaren geheel onder eigen verantwoordelijkheid dat product IO 50, waarop de onderstaande verklaring betrekking heeft, in overeenstemming is met de onderstaande Richtlijnen van de Raad inzake de onderlinge aanpassing van de wetgeving van de EU-lidstaten.

PL: Deklaracja zgodności UE

My, Grundfos, oświadczamy z pełną odpowiedzialnością, że nasz produkt IO 50, którego deklaracja niniejsza dotyczy, jest zgodny z następującymi dyrektywami Rady w sprawie zbliżenia przepisów prawnych państw członkowskich.

PT: Declaração de conformidade UE

A Grundfos declara sob sua única responsabilidade que o produto IO 50, ao qual diz respeito a declaração abaixo, está em conformidade com as Directivas do Conselho sobre a aproximação das legislações dos Estados Membros da UE.

RO: Declarația de conformitate UE

Noi Grundfos declarăm pe propria răspundere că produsul IO 50, la care se referă această declarație, este în conformitate cu Directivele de Consiliu specificate mai jos privind armonizarea legilor statelor membre UE.

RS: Deklaracija o usklađenosti EU

Mi, kompanija Grundfos, izjavljujemo pod punom vlastitom odgovornošću da je proizvod IO 50, na koji se odnosi deklaracija ispod, u skladu sa dole prikazanim direktivama Saveta za usklađivanje zakona država članica EU.

RU: Декларация о соответствии нормам ЕС

Мы, компания Grundfos, со всей ответственностью заявляем, что изделие IO 50, к которому относится нижеприведённая декларация, соответствует нижеприведённым Директивам Совета Евросоюза о тождественности законов стран-членов ЕС.

SE: EU-försäkran om överensstämmelse

Vi, Grundfos, försäkrar under ansvar att produkten IO 50, som omfattas av nedanstående försäkran, är i överensstämmelse med de rådsdirektiv om inbördes närmande till EU-medlemsstaternas lagstiftning som listas nedan.

SI: Izjava o skladnosti EU

V Grundfosu s polno odgovornostjo izjavljamo, da je izdelek IO 50, na katerega se spodnja izjava nanaša, v skladu s spodnjimi direktivami Sveta o približevanju zakonodaje za izenačevanje pravnih predpisov držav članic EU.

SK: ES vyhlásenie o zhode

My, spoločnosť Grundfos, vyhlasujeme na svoju plnú zodpovednosť, že produkt IO 50, na ktorý sa vyhlásenie uvedené nižšie vzťahuje, je v súlade s ustanoveniami nižšie uvedených smerníc Rady pre zblíženie právnych predpisov členských štátov EÚ.

TR: AB uygunluk bildirgesi

Grundfos olarak, aşağıdaki bildirim konusu olan IO 50 ürünlerinin, AB üye ülkelerinin direktiflerinin yakınlaştırılmasıyla ilgili durumun aşağıdaki Konsey Direktifleriyle uyumlu olduğunu ve bununla ilgili olarak tüm sorumluluğun bize ait olduğunu beyan ederiz.

UA: Декларація відповідності директивам ЕУ

Ми, компанія Grundfos, під нашу одноосібну відповідальність заявляємо, що виріб IO 50, до якого відноситься нижченаведена декларація, відповідає директивам ЕУ, переліченим нижче, щодо тотожності законів країн-членів ЄС.

CN: 欧盟符合性声明

我们，格兰富，在我们的全权责任下声明，产品 IO 50 系列，其制造和性能完全符合以下所列欧盟委员会指令。

AR: إقرار مطابقة الاتحاد الأوروبي (EU)

نقر نحن، جرونڤوس، بمقتضى مسؤوليتنا الفردية بأن المنتج IO 50، الذي يختص به الإقرار أدناه، يكون مطابقاً لتوجيهات المجلس المذكورة أدناه بشأن التقريب بين قوانين الدول أعضاء الاتحاد الأوروبي (EU).

- Low Voltage Directive (2014/35/EU)
Standards used:
EN 60947-3:2009 + A1:2012 + A2:2015
- EMC Directive (2014/30/EU)
Standards used:
EN 60947-3:2009 + A1:2012
- RoHS Directives: (2011/65/EU and 2015/863/EU)
Standard used:
EN IEC 63000:2018

This EU declaration of conformity is only valid when published as part of the Grundfos installation and operating instructions (publication number 97823192).

Bjerringbro, 6th October 2021

A handwritten signature in black ink, reading 'Jan Lyngholm', written in a cursive style.

Jan Lyngholm

Technical Product Owner, Water Utility

Grundfos Holding A/S

Poul Due Jensens Vej 7

8850 Bjerringbro, Denmark

Manufacturer, person authorised to compile technical file and empowered to sign the EU declaration of conformity.

UK declaration of conformity

UK declaration of conformity

We, Grundfos, declare under our sole responsibility that the products to which the declaration below relates, are in conformity with UK regulations, standards and specifications to which conformity is declared, as listed below:

Valid for Grundfos products:

IO 50

- Electrical Equipment (Safety) Regulations 2016
Standards used:
EN 60947-3:2009 + A1:2012 + A2:2015
- Electromagnetic Compatibility Regulations 2016
Standards used:
EN 60947-3:2009 + A1:2012
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
Standard used:
EN IEC 63000:2018

This UK declaration of conformity is only valid when accompanying Grundfos instructions.

Bjerringbro, 6th October 2021



Jan Lyngholm

Technical Product Owner, Water Utility
Grundfos Holding A/S
Poul Due Jensens Vej 7
8850 Bjerringbro, Denmark

Manufacturer and person empowered to sign the UK declaration of conformity.
10000383495

Moroccan declaration of conformity



GB: Moroccan declaration of conformity

We, Grundfos, declare under our sole responsibility that the products to which the declaration below relates, are in conformity with Moroccan laws, orders, standards and specifications to which conformity is declared, as listed below:

Valid for Grundfos products:

IO 50

Law No 24-09, 2011 Safety of products and services and the following orders:

Order No 2573-14, 2015 Safety Requirements for Low Voltage Electrical Equipment

Standards used: NM EN 60947-3:2014

Order No 2574-14, 2015 Electromagnetic Compatibility

Standards used: NM EN 60947-3:2014

This Moroccan declaration of conformity is only valid when accompanying Grundfos instructions.



FR: Déclaration de conformité marocaine

Nous, Grundfos, déclarons sous notre seule responsabilité que les produits auxquels se réfère cette déclaration, sont conformes aux lois, ordonnances, normes et spécifications marocaines pour lesquelles la conformité est déclarée, comme indiqué ci-dessous :

Valable pour les produits Grundfos :

IO 50

Sécurité des produits et services, loi n° 24-09, 2011 et décrets suivants :

Exigences de sécurité pour les équipements électriques basse tension, ordonnance n° 2573-14, 2015

Normes utilisées : NM EN 60947-3:2014

Compatibilité électromagnétique, ordonnance n° 2574-14, 2015

Normes utilisées : NM EN 60947-3:2014

Cette déclaration de conformité marocaine est uniquement valide lorsqu'elle accompagne la notice d'installation et de fonctionnement Grundfos.



AR: إقرار المطابقة المغربي

نحن، جروندفوس، نفر تحت مسؤوليتنا وحدنا بأن المنتجات التي يتعلق بها الإقرار أدناه، تتوافق مع القوانين والقرارات والمعايير والمواصفات المغربية التي تم إقرار المطابقة بشأنها، كما هو موضح أدناه:

سار على منتجات جروندفوس:

IO 50

قانون رقم 24-09، 2011 بشأن سلامة المنتجات والخدمات والقرارات التالية:

القرار رقم 2573-14، 2015 متطلبات السلامة للمعدات الكهربائية ذات الجهد المنخفض

المعايير المستخدمة: NM EN 60947-3:2014

القرار رقم 2574-14، 2015 التوافق الكهرومغناطيسي

المعايير المستخدمة: NM EN 60947-3:2014

يكون إقرار المطابقة المغربي صالحاً فقط عند نشره كجزء من تعليمات جروندفوس.

Bjerringbro, 6th October 2021



Jan Lyngholm
 Technical Product Owner, Water Utility
 Grundfos Holding A/S
 Poul Due Jensens Vej 7
 8850 Bjerringbro, Denmark

GB: Manufacturer and person empowered to sign the Moroccan declaration of conformity.

FR: Fabricant et personne habilitée à signer la Déclaration de conformité marocaine.

AR: الجهة المصنعة والشخص المفوض بتوقيع إقرار المطابقة المغربي.

110000383507

Operating manual EAC

RUS

IO50

Руководство по эксплуатации

Руководство по эксплуатации на данное изделие является составным и включает в себя несколько частей:

Часть 1: настоящее «Руководство по эксплуатации».

Часть 2: электронная часть «Паспорт. Руководство по монтажу и эксплуатации» размещенная на сайте компании Грундфос. Перейдите по ссылке, указанной в конце документа.

Часть 3: информация о сроке изготовления, размещенная на фирменной табличке изделия.

Сведения о сертификации:

Пускатель типа IO50 сертифицирован на соответствие требованиям Технических регламентов Таможенного союза: ТР ТС 004/2011 «О безопасности низковольтного оборудования».

KAZ

IO50

Пайдалану бойынша нұсқаулық

Атаулы өнімге арналған пайдалану бойынша нұсқаулық құрамалы болып келеді және келесі бөлімдерден тұрады:

1 бөлім: атаулы «Пайдалану бойынша нұсқаулық»

2 бөлім: Грундфос компаниясының сайтында орналасқан электронды бөлім «Төлқұжат, Құрастыру және пайдалану бойынша нұсқаулық». Құжат соңында көрсетілген сілтеме арқылы өтіңіз.

3 бөлім: өнімнің фирмалық тақтасында орналасқан шығарылған уақыты жөніндегі мәлімет

Сертификаттау туралы ақпарат:

IO50 стартер түрі Кеден одағының техникалық регламентінің талаптарына сәйкес келеді: ТР ТС 004/2011

«Төмен вольтты жабдықтардың қауіпсіздігі туралы».

KG

IO50

Пайдалануу боюнча колдонмо

Аталган жабдууну пайдалануу боюнча колдонмо курамдык жана өзүнө бир нече бөлүкчөнү камтыйт:

1-Бөлүк: «Пайдалануу боюнча колдонмо»

2-Бөлүк: «Паспорт. Пайдалануу жана монтаж боюнча колдонмо» электрондук бөлүгү Грундфос компаниянын сайтында жайгашкан. Документтин аягында көрсөтүлгөн шилтемеге кайрылыңыз.

3-Бөлүк: жабдуунун фирмалык тактасында жайгашкан даярдоо мөөнөтү тууралуу маалымат.

Шайкештик жөнүндө декларация

IO50 башталгыч түрү Бажы бирлигинин Техникалык регламенттеринин талаптарына ылайык келүүгө тастыкталган: TR CU 004/2011 "Төмөн вольттуу жабдуулардын коопсуздугу жөнүндө".

ARM

IO50**Շահագործման ձեռնարկ**

Տվյալ սարքավորման շահագործման ձեռնարկը բաղկացած է մի քանի մասերից.

Մաս 1. սույն «Շահագործման ձեռնարկ»:

Մաս 2. էլեկտրոնային մաս. այն է՝ «Անձնագիր: Մոնտաժման և

շահագործման ձեռնարկ» տեղադրված «Գրունդֆոս». Անցեք փաստաթղթի վերջում նշված հղումով.

Մաս 3. տեղեկություն արտադրման ամսաթվի վերաբերյալ՝ նշված սարքավորման պիտակի վրա:

Տեղեկություններ հավաստագրման մասին

Սկսնակ IO50 տիպը հավաստագրված է Մաքսային միության տեխնիկական կանոնակարգի պահանջներին համապատասխան. TR CU 004/2011 «voltage»-ը լարման սարքավորումների անվտանգության մասին»:



<http://net.grundfos.com/qr/i/99936071>

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