

Resistance welding equipment - Transformers - General specifications applicable to all transformers (ISO 5826:2014)

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

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Resistance welding equipment - Transformers - General specifications applicable to all transformers (ISO 5826:2014)

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EN ISO 5826:2014 (E)

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Foreword

This document (EN ISO 5826:2014) has been prepared by Technical Committee ISO/TC 44 "Welding and allied processes" in collaboration with Technical Committee CEN/TC 121 "Welding and allied processes" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2014, and conflicting national standards shall be withdrawn at the latest by August 2014.

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INTERNATIONAL STANDARD

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Resistance welding equipment — Transformers — General specifications applicable to all transformers

Matériel de soudage par résistance — Transformateurs — Spécifications générales applicables à tous les transformateurs



ISO 5826:2014(E)



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2. www.iso.org/directives

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The committee responsible for this document is ISO/TC 44, *Welding and allied processes*, Subcommittee SC 6, *Resistance welding* and allied mechanical joining.

This third edition cancels and replaces the second edition (ISO 5826:1999), which has been technically revised.

Requests for official interpretations of any aspect of this standard should be directed to the Secretariat of ISO/TC 44/SC 6 via your national standards body, a complete listing of which can be found at www. iso.org.

Resistance welding equipment — Transformers — General specifications applicable to all transformers

1 Scope

This International Standard gives specifications applicable to the following types of transformers for use in resistance welding equipment:

- single-phase transformers for a.c. welding, typically operating at 50 Hz or 60 Hz;
- single-phase transformers with connected rectifier for d.c. welding, typically operating at 50 Hz or 60 Hz;
- single-phase inverter transformers with connected rectifier for d.c. welding, typically operating at 400 Hz to 2 kHz;
- three-phase transformers with connected rectifier for d.c. welding, typically operating at 50 Hz or 60 Hz.

For the purposes of this International Standard, the term *transformer* can refer to the transformer alone or with connected rectifier (transformer-rectifier unit).

This International Standard applies to transformers built to protection class I or II according to IEC 61140.

NOTE The requirements of this International Standard can be supplemented by other resistance welding transformer standards, e.g. ISO 22829 and ISO 10656.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 669, Resistance welding — Resistance welding equipment — Mechanical and electrical requirements

IEC 60085, Electrical insulation — Thermal evaluation and designation

IEC 60529, Degrees of protection provided by enclosures (IP code)

IEC 61140, Protection against electric shock — Common aspects for installation and equipment

ISO 17657-3, Resistance welding — Welding current measurement for resistance welding — Part 3: Current sensing coil

ISO 17657-4, Resistance welding — Welding current measurement for resistance welding — Part 4: Calibration system

ISO 17677-1, Resistance welding — Vocabulary — Part 1: Spot, projection and seam welding

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