

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

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English Version

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

Matériel de soudage par résistance - Transformateurs -
Spécifications générales applicables à tous les
transformateurs (ISO 5826:2014)

Widerstandsschweißeinrichtungen - Transformatoren -
Allgemeine Anforderungen anwendbar für alle
Transformatoren (ISO 5826:2014)

This European Standard was approved by CEN on 3 February 2014.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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of an identical text or by endorsement, at the latest by August 2014, and conflicting national standards shall be withdrawn at the latest by August 2014.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 5826:2014 has been approved by CEN as EN ISO 5826:2014 without any modification.

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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*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 17677-1 and ISO 669, and the following apply.