

Irish Standard
I.S. EN IEC 60076-22-2:2019

Power transformers - Part 22-2: Power transformer and reactor fittings - Removable radiators

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#### I.S. EN IEC 60076-22-2:2019

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I.S. EN IEC 60076-22-2:2019 is the adopted Irish version of the European Document EN IEC 60076-22-2:2019, Power transformers - Part 22-2: Power transformer and reactor fittings - Removable radiators

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**EUROPEAN STANDARD** 

EN 60076-22-2

NORME EUROPÉENNE

**EUROPÄISCHE NORM** 

June 2019

ICS 29.180

### **English Version**

# Power transformer and reactor cooling equipment - Part 22-2: Removable radiators (IEC 60076-22-2:2019)

Transformateurs de puissance - Partie 22-2: Accessoires pour transformateurs de puissance et bobines d'inductance - Radiateurs détachables (IEC 60076-22-2:2019)

Leistungstransformatoren und Drosselspulen Kühlungseinrichtung - Teil 22-2: Abnehmbare Kühler (IEC 60076-22-2:2019)

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

#### EN 60076-22-2:2019 (E)

# **European foreword**

The text of document 14/895/CDV, future edition 1 of IEC 60076-22-2, prepared by IEC/TC 14 "Power transformers" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60076-22-2:2019.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2019-12-28 level by publication of an identical national standard or by endorsement
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IEC 60076-6 NOTE Harmonized as EN 60076-6

EN 60076-22-2:2019 (E)

# **Annex ZA**

(normative)

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NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60076-1	-	Power transformers - Part 1: General	EN 60076-1	-
IEC 60076-7	-	Power transformers Part 7: Loading guide for oil-immersed power transformers	-	-
IEC 60296	-	Fluids for electrotechnical applications - Unused mineral insulating oils for transformers and switchgear	EN 60296	-
ISO 4406	-	Hydraulic fluid power – Fluids - Method for coding the level of contamination by solid particles	-	-
ISO 12944	series	Paints and varnishes - Corrosion protection of steel structures by protective paint systems - Part 1: General introduction	EN ISO 12944	series

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IEC 60076-22-2

Edition 1.0 2019-01

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



Power transformers -

Part 22-2: Power transformer and reactor fittings – Removable radiators

Transformateurs de puissance -

Partie 22-2: Accessoires pour transformateurs de puissance et bobines d'inductance – Radiateurs détachables





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IEC 60076-22-2

Edition 1.0 2019-01

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



Power transformers -

Part 22-2: Power transformer and reactor fittings – Removable radiators

Transformateurs de puissance -

Partie 22-2: Accessoires pour transformateurs de puissance et bobines d'inductance – Radiateurs détachables

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#### POWER TRANSFORMERS -

# Part 22-2: Power transformer and reactor fittings – Removable radiators

### **FOREWORD**

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CDV	Report on voting	
14/895/CDV	14/917A/RVC	

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 60076 series, published under the general title *Power transformers*, can be found on the IEC website.

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# INTRODUCTION

Under the part title "Power transformer and reactor fittings" this part of IEC 60076-22 covers the removable radiators used in the cooling circuits of power transformers and reactors.

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### **POWER TRANSFORMERS -**

# Part 22-2: Power transformer and reactor fittings – Removable radiators

#### 1 Scope

This part of IEC 60076 applies to radiators mounted on liquid immersed power transformers according to IEC 60076-1 and reactors according to IEC 60076-6 with and without conservator for indoor or outdoor installation. It outlines the service conditions and the mechanical and electrical requirements that are common to this equipment.

It also outlines the operation requirements specific to this equipment as well as the preferred dimensions relevant for interchangeability and the type and routine tests to be performed.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60076-1, Power transformers – Part 1: General

IEC 60076-7, Power transformers – Part 7: Loading guide for oil-immersed power transformers

IEC 60296, Fluids for electrotechnical applications – Unused mineral insulating oils for transformers and switchgear

ISO 4406, Hydraulic fluid power – Fluids – Method for coding the level of contamination by solid particles

ISO 12944 (all parts), Paints and varnishes – Corrosion protection of steel structures by protective paint systems

#### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

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- ISO Online browsing platform: available at http://www.iso.org/obp

#### 3.1

### removable radiator

component through which the transformer insulating liquid circulates and is cooled

Note 1 to entry: The component is removable from the transformer for shipment and maintenance purposes.



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