## SLOVENSKI

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## SIST EN 60317-0-4:2001/oprA2:2005

## PREDSTANDARD

februar 2005

Specifikacije za posebne vrste navijalnih žic – 0-4. del: Splošne zahteve – Bakrena žica s pravokotnim prerezom, gola ali emajlirana, ovita z optičnimi vlakni in impregnirana s smolo ali lakom

Specifications for particular types of winding wires – Part 0-4: General requirements – Glass-fibre wound resin or varnish impregnated, bare or enamelled rectangular copper wire

ICS 29.060.10

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# 55/925/CDV

#### COMMITTEE DRAFT FOR VOTE (CDV) PROJET DE COMITÉ POUR VOTE (CDV)

	Project number Numéro de projet	IEC 60317-0-4, A2 Ed. 2						
IEC/TC or SC: <b>TC 55</b> CEI/CE ou SC:	Date of circulation Date de diffusion <b>2004-11-19</b>	Closing date for voting (Voting mandatory for P-members) Date de clôture du vote (Vote obligatoire pour les membres (P)) <b>2005-04-22</b>						
Titre du CE/SC: Fils de bobinage		TC/SC Title: Winding Wires						
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Also of interest to the following committe Intéresse également les comités suivants	s	Supersedes document Remplace le document 55/899/CD - 55/912/CC						
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Titre : Amendement 2 à la CEI 60	)317-0-4, Ed. 2:	Title : Amendment 2 to IEC 60317-0-4, Ed. 2:						

Spécifications pour types particuliers de fils de Specifications for particular types of winding bobinage - Partie 0-4: Prescriptions générales - wire - Part 0-4: General requirements - Glass-Fil de section rectangulaire en cuivre nu ou fibre wound resin or varnish impregnated, bare émaillé guipé de fibres de verre imprégnées de or enamelled rectangular copper wire vernis ou de résine

Note	d'introduction	

Introductory note

l'accroissement des dimensions.

La révision la plus importante proposée dans ce The most critical revision proposed in this CDV CDV est la révision de la Table 4 pour is the revised in Table 4 for increase in dimensions.

ATTENTION	ATTENTION
CDV soumis en parallèle au vote (CEI) et à l'enquête (CENELEC)	Parallel IEC CDV/CENELEC Enquiry

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### INTERNATIONAL ELECTROTECHNICAL COMMISSION

### SPECIFICATIONS FOR PARTICULAR TYPES OF WINDING WIRES -

#### Part 0-4: General requirements – Glass-fibre wound resin or varnish impregnated, bare or enamelled rectangular copper wire

#### FOREWORD

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International Standard IEC 60317-0-4 has been prepared by IEC technical committee 55: Winding wires.

This amendment is the second for the second edition of IEC 60317-0-4, issued 1997-11, and constitutes a technical revision.

The main changes with respect to the previous edition are as follows:

- new definition for "normal vision"
- new requirements for appearance
- revisions to increase in dimensions

The committee has decided that this publication remains valid until 2008. At this date, in accordance with the committee's decision, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

#### INTRODUCTION

This part of IEC 60317 is one of a series that deals with insulated wires used for windings in electrical equipment. The series has three groups describing:

- 1) Winding wires Test methods (IEC 60851);
- 2) Specifications for particular types of winding wires (IEC 60317);
- 3) Packaging of winding wires (IEC 60264).

### SPECIFICATIONS FOR PARTICULAR TYPES OF WINDING WIRES -

#### Part 0-4: General requirements – Glass-fibre wound resin or varnish impregnated, bare or enamelled rectangular copper wire

Page 9

#### 1 Scope

Replace the first paragraph by the following:

This part of IEC 60317 specifies general requirements of glass-fibre wound resin or varnish impregnated, bare or enamelled rectangular copper wire.

#### 2 Normative references

Remove the year of publication from all normative references

#### 3 Definitions and general notes on methods of test

Replace the title of this clause by the following new title:

#### 3 Definitions, general notes on methods of test, and appearance

Page 11

Add the following definition:

**normal vision** 20/20 vision, with corrective lenses, if necessary.

Add the following subclause:

#### 3.3 Appearance

The fibrous covering shall be essentially smooth and continuous, and free from physical damage and foreign material when examined with normal vision, as wound on the original spool or reel.

Note: Evidence of physical damage includes gashes, broken fibre strands, and the like.

#### 4 Dimensions

#### 4.1 Conductor dimensions

Replace the second paragraph by the following:

Preferred sizes are combinations of width and thickness both according to the R 20 and R 40 series.

#### 4.4 Increase in dimensions due to the insulation

Replace Table 4 by the following:

		Increase in dimensions											
Nom	ninal	mm											
width cond	of the uctor		Glass-fibre covering over bare conductor					Glass-fibre covering over grade 2 enamelled wire					
mm		Single covering (Grade G1)			Double covering (Grade G2)			Single covering (Grade 2G1)			Double covering (Grade 2G2)		
Over	Up to and incl.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.
_	3,15	0.10	0.14	0.18	0.21	0.27	0.33	0.23	0.29	0.35	0.35	0.42	0.49
3,15	6,30	0.12	0.16	0.20	0.23	0.30	0.37	0.25	0.31	0.37	0.38	0.45	0.52
6,30	12,50	0.14	0.19	0.24	0.27	0.35	0.43	0.27	0.34	0.41	0.43	0.50	0.57
12,50	16,00	0.17	0.23	0.29	0.31	0.39	0.47	0.30	0.38	0.46	0.46	0.54	0.62

#### Table 4 – Increase in dimensions

NOTE 1 The maximum increase due to the glass-fibre covering may be exceeded provided the overall dimension of the covered wire does not exceed the sum of the maximum thickness of the bare wire plus the maximum increase due to the grade 2 enamel and the glass-fibre covering.

NOTE 2 The increase in width due to the glass-fibre covering shall be equal to or less than the maximum increase in thickness given in table 4. Note 1 applies to the increase in width as well as the increase in thickness.

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#### 5 Electrical resistance

Replace the value for resistivity in the second paragraph by the following:

"...a resistivity of 1/58  $\Omega$  mm² m^-1."

Page 23

#### 13 Breakdown voltage

Replace in table 7, the value 2 00, in the fourth line, by 2 000.

#### 14 Continuity of isolation

Replace the title of this clause by the following new title:

#### 14 Continuity of insulation

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Add the following new clause and requirements:

### 23 Pin hole test

Test inappropriate

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