



55192  
2012

**3**

**IEC 60060-3:2006 (NEQ)**



Н  
2014

55192-2012

- 1 «
- 2 8 37 «
- 3 26 2012 . Ns 1184-
- 4 60060-3:2006 «
3. «High-voltage test techniques • Part 3: Definitions and requirements for on-site testing», NEQ) (IEC 60060-3:2006 «High-voltage test techniques • Part 3: Definitions and requirements for on-site testing», NEQ)
- 5

1.0—2G12 ( 1 8).

« \* », .

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( )

— ,

(gost.ru)

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3

Electrical equipment and . . . installations on up to 3 kV voltages and higher.  
Test methods of the electrical equipment insulation dielectric strength on the crnstalation site

-2014-01-01

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• : .

• , , , .

- , 1516.2-97:

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• :

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2

6

1516.3-96 : 1 750 .

1516.2\*97 3

17512-82 3 8 .

1

« » , « »

( ) .

1

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3

3.1 1516.2-97. (on-site test): 17512-82.

3.2 :

( ),

3.3 :

20

,

3.4 :

3.5 :

,

3.6 :

3.7 :

3.8 :

/

3.8.1 :

,

3.8.2 :

3.8.3 :

3.8.4 :

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3.9

3.9.1 :

( 1 • ) :

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2 •  
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3 \* ,  
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( ,  
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)

3.9.2.

( 60060-2:1994. 3.1.2)

3.9.3.

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( )

( 60060-2:1994. 3.1.3 )

3.9.4

( 60060-2:1994. 3.1.4)

60060-2:1994)

3.9.5

( 60080-2:1994. 3.2. )

3.9.6

1 •

( ),

2 •

( 60060-2:1994. 3.3).

3.9.7

( 60060-2:1994. 3.4)

3.9.8

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1 - { ... }  
2 -

3.9.9

( )  
3.9.10

3.9.11

1 -

2

3.9.12

3.9.13

3.9.14

60060-2.

3.9.15

3.9.16

3.9.17

3.9.16

3.9.19  
)

4

4.1

17512-82.

4.2

17512-82.

(on-site).

4.3

4.3.1

4.3.2.

1:

( )

( ),

1%.

( )

3%.

3%.

60060-

2

(

4.3.3.

2.

20%

5%.

17512-82.

4.4

( )

5

5.1

17512-82.

5.2

5.2.1

5.2.2

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5.2.3

-8

1.4.

5.2.4

5.3

5.3.1

5.3.1.1

3%

: 8

5.3.1.2

( )

$\pm 3\%$

60

5.3.1.3

( )

$\pm 5\%$

5.4

5.4.1

4.

60060\*2

5.4.2

( )

5%.

3%.

10%

5.4.3

$\pm 2\%$

1.

2.

0.5



5.4.4

0.5  $T_N$

5.6.

5.4.2.

5.4.5

5.5

4

5.6

U.

75% U. 2% U.

60

6

6.1

1516.2-97.

6.2

6.2.1

( )

( )

6.2.2

( )

6.2.3

( )

( )

( 60060-1:1989. 15.3).

6.3

6.3.1

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10 500

$v2 \pm 15\%$

$2 \pm 5\%$

2%

6.3.2

$\pm 3\%$

60

$\pm 5\%$

6.3.3

6.3.3.1

( . . ),

0.1 (

( . 8 . . . )

0,5 \*

1.0

10

6.3.3.2

( . . ) .

. 8

6.4

6.4.1

( . . )



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7.2.2

( . . .1).

1.2/50,

60060\*1

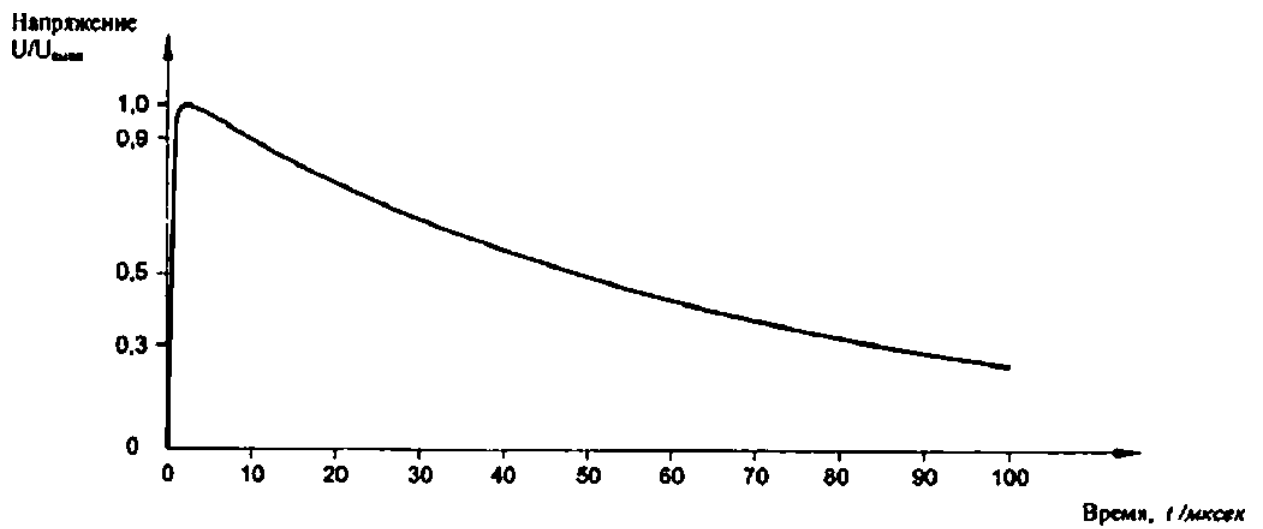
7.2.3

15 400

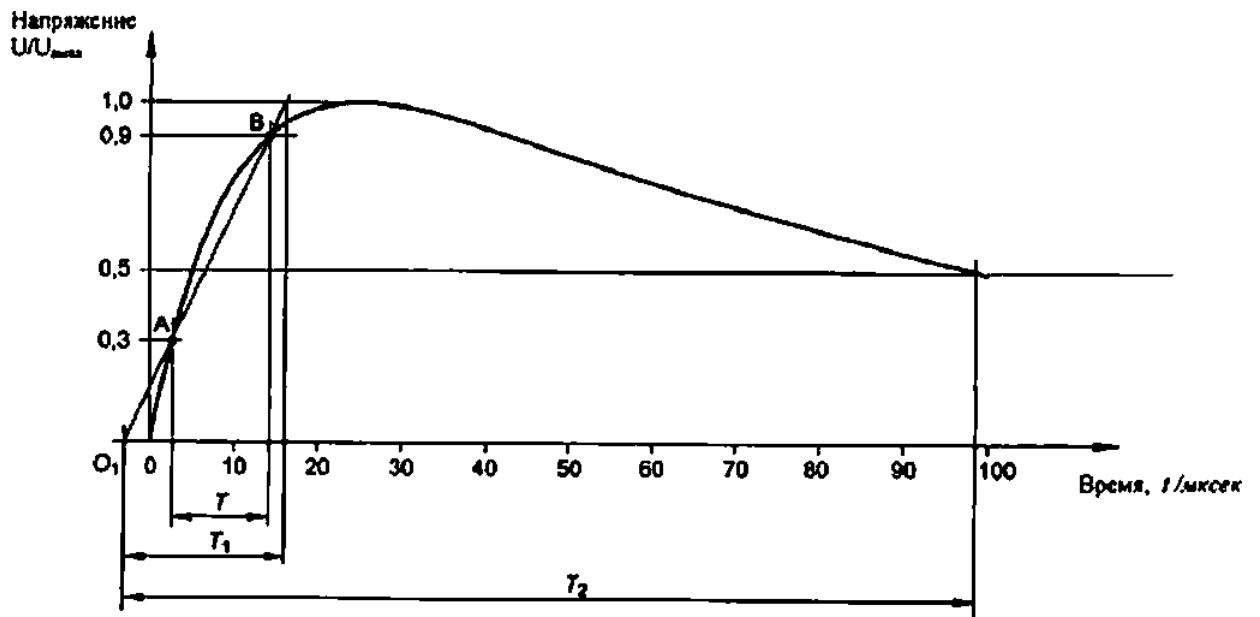
( . . .2).

7.2.4

1516.2\*97



а)  $T_1/T_2 = 0.8 / 50$  мкс

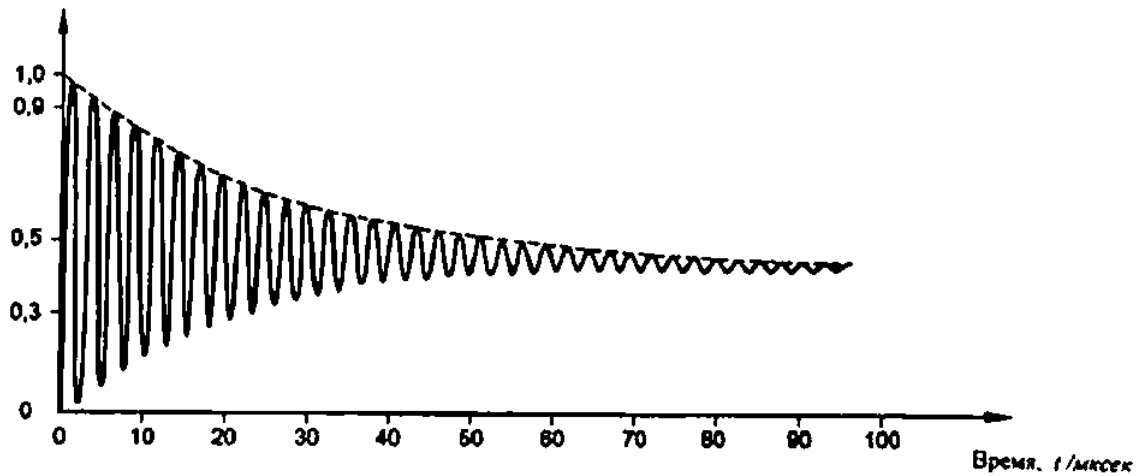


$T_1 = 1.67$

)  $T_2 = 20/100$

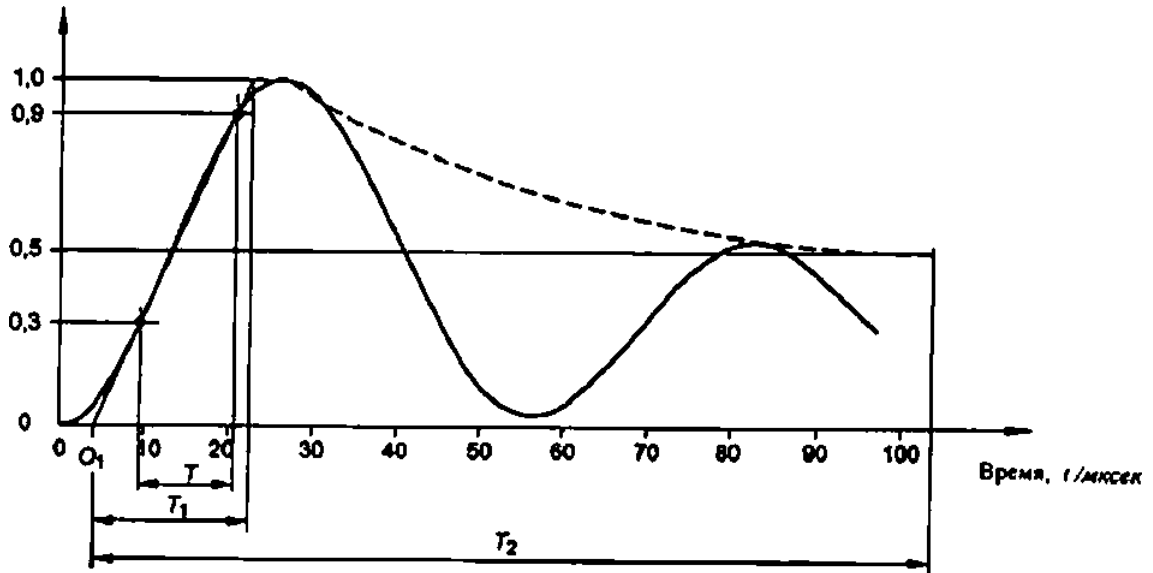
1 -

! ).



а)  $T_1 / T_2 = 0,8 / 50$  мкс, 370 кГц

IMU,



$\tau = 1,67$   
 $\tau / T_2 = 20 / 100 = 0,2$

2-

7.2.5 ( )

1,67

30%

90%

( 60060-1:1989. 18.1.4).

7.2.6 (0<)

0,3

30%

( . 1 . 2).

30% 90%

( 60060-1:1989. 18.1.5 ).

7.2.7. (T)

0«

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7.3  
7.3.1  
7.3.2  
7.3.3  
7.4  
7.4.1  
7.4.2  
7.4.3  
7.4.4  
7.4.5

$Q_t$

40 100 0.8 20

5% \*

$\pm 5\%$

7.3.1.

4.

( )

5%;

10%;

$\pm 5\%$

$\pm 2\%$

$\pm 2\%$

10%.

( )

7.5  
7.5.1

4

7.5.2

( )

2%

2%

7.6

3.4.

7.6.1

( )

7.6.2

( )

15

7.6.3

8

8.1

8.2

60060-1.

8.2.1

3.3,

3.

60060-1

250/2500

8.2.2

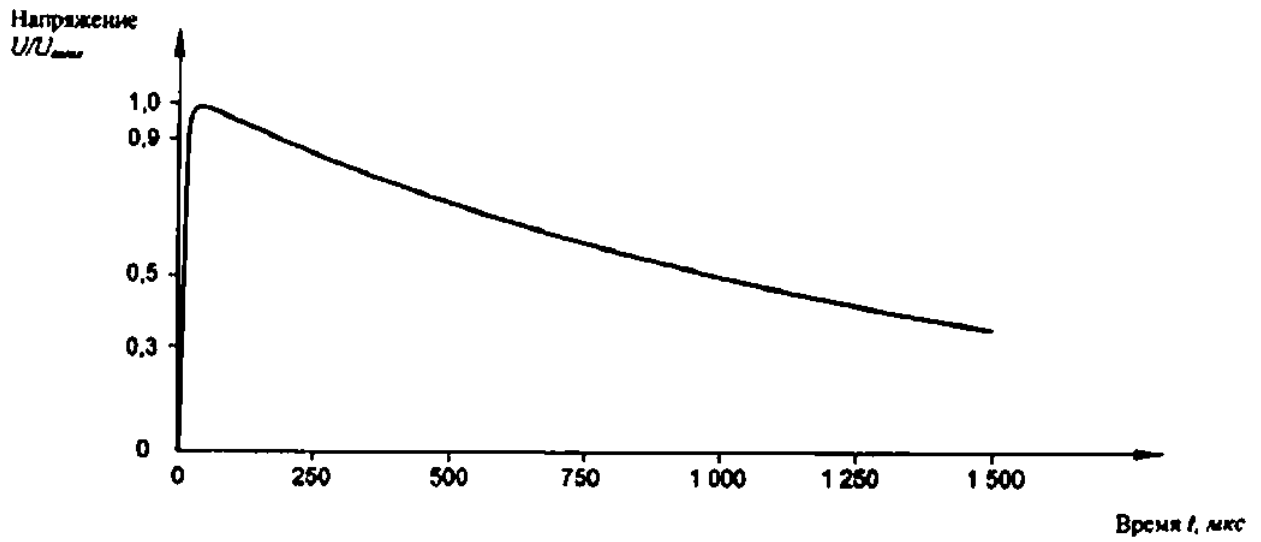
3.3.

55192-2012

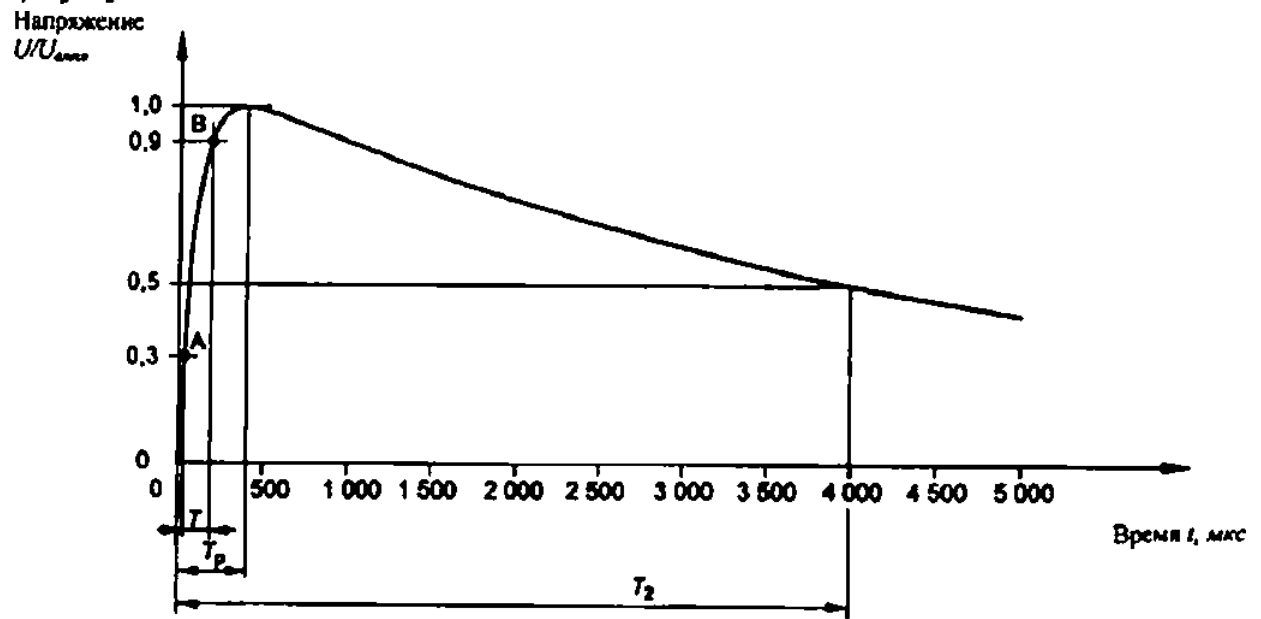
1 15

( . . 4).

8.2.3



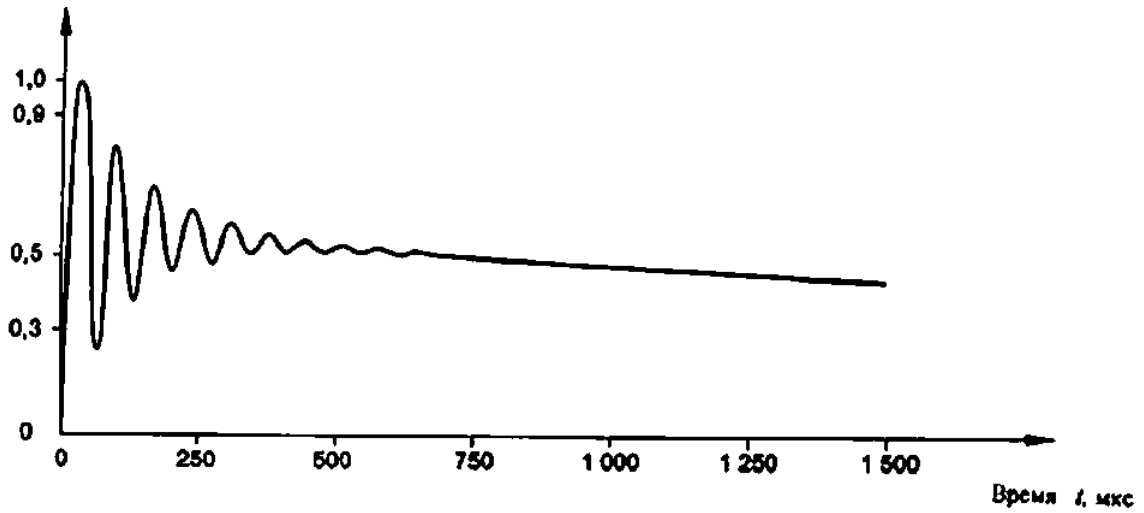
а)  $T_p / T_2 = 20 / 1\ 000$  мкс



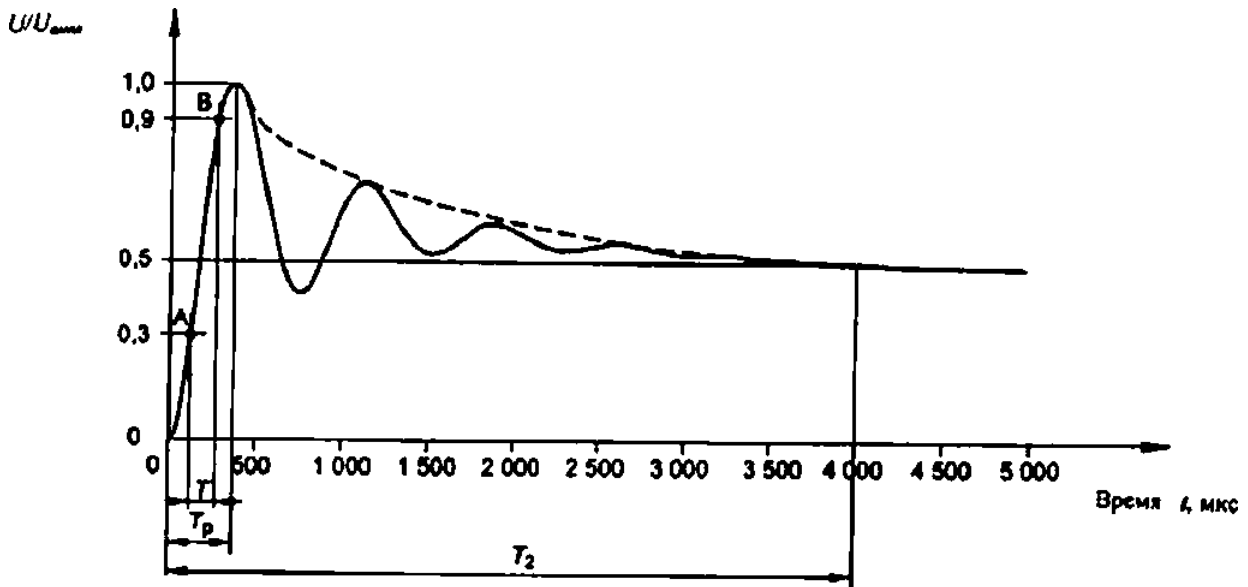
\* 2.4  
 ) / 2 \* 400 / 4 000

3-





)  $T_p / T_2 = 20 / 1\ 000$  мкс . 15 кГц



$= 2.4$   
 ) / \* 400 / 4000 . 1

4\*

8.2.4 ( )

2.4  
 30% 90%

8.2.5 ( )

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8.2.6

8.3

8.3.1

400

8.3.2

8.3.3

8.4

8.4.1

6.4.2

•

•

8.4.3

8.4.4

•

•

8.4.5

8.5

8.5.1

8.5.2  
( )

2%  
2%.

8.6  
.3.8.  
8.6.1 ( )

8.6.2 ( )

8.6.3 60060\*1.

9  
9.1  
9.2  
9.2.1 (VLF)

9.2.2 (VLF)  
(r.m.s.)

9.2.3

9.2.4 (r.m.s.)

1 •  
2 \*

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9.3

9.3.1

0.01

1

1 •

(VLF)

$\sqrt{2} \pm 15\%$ .

2 •

42  $\pm 5\%$ .

2%.

(VLF)

1.0  $\pm 5\%$ .

9.3.2

$\pm 5\%$

9.3.3.

VLF

VLF

15%.

9.4

9.4.1

4.

9.4.2

5%.

9.4.3

$\pm 2\%$

9.4.4

0.5

$\pm 2\%$

0.5

9.4.5

VLF

9.5

4

9.6

10

10.1

10.2

10.2.1

10.2.2

10.2.3

10.2.4

10.2.5

10.2.6

10.2.7

10.2.8

10.2.9

10.2.10

10.2.11

10.2.12

10.2.13

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10.2.15

10.2.16

10.2.17

10.2.18

10.2.19

10.2.20

10.2.21

10.2.22

10.2.23

10.2.24

10.2.25

10.2.26

10.2.27

10.2.28

10.2.29

10.2.30

10.2.31

10.2.32

10.2.33

10.2.34

10.2.35

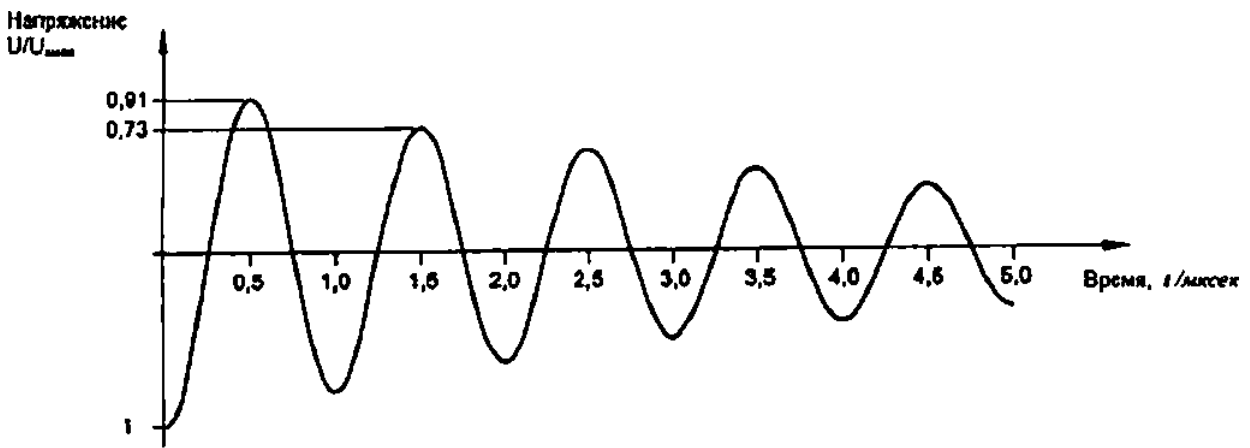


Рисунок 5 - Затухающее переменное напряжение  
( $f_s=1$  .  $D=0.2$ )

10.2.4

10.2.5

10.3

10.3.1

10.3.2

10.3.3

10.3.4

10.3.5

10.3.6

10.3.7

10.3.8

10.3.9

10.3.10

40%

$\pm 5\%$

10.3.1

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10.3.3

10.4

10.4.1

4.

f,

$D_r$

f,

$D_r$

10.4.2

5%

1,

$D_r$

10%.

10.4.3

$\pm 2\%$

10.4.4

$\pm 2\%$

1000

f, ( 1000 )

$\pm 2\%$

10.4.5

( )

10.5

10.5.1

4

10.5.2

( )

2%  
2%

10.6

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621.3.048.027.4:621.317.333.6:066.354

29.0.20

341000

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01.07.2014. 60x64 V  
. . . 2.79. 65 . . 2533.

« »

123995 . .. 4.  
www.gostinfo.ru info@gostinfo.ru