

( )  
INTERSTATE COUNCIL FOR STANDARDIZATION, METROLOGY AND CERTIFICATION  
(ISC)

**IEC 62955-  
2021**

**(RDC-DD),**

**3**

**(IEC 62955:2018, IDT)**

**2021**

,  
**1.0 «**  
**1.2 «**  
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 ,  
**1 «» («»)**  
**5**  
**2**  
**3 , ( - )**  
**26 2021 . 142- )**

( 3166) 004-97	( 3166)004-97	
	BY KG RU UZ	«»

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**2021 . 1125-**  
**12 IEC 62955—2021**  
**1 2022 .**  
**5 IEC 62955:2018 «**  
**(RDC-DD),**  
**3» [«Residual direct current detecting device (ROC-DD) to be used for mode 3 charging of electric vehicles». IDT].**  
**SC 23 «**  
**»**  
**23 «**  
**(IEC).**

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II

( )

, « »

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© « ». 2021



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IEC 60364-7-722

(RCD).  
30

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VI

(RDC-DD),  
3

Residual direct current detecting device (RDC-DD) to be used for mode 3 charging of electric vehicles

— 2022—03—01

1

<sup>1)</sup> (RDC-DD)	3	IEC 61851*1	IEC 60364*7*722),	-
( RDC-MD (	)	)	RDC-PD (	-
440	,	50 . 60	50/60	,
125	.			,
1 —		690		,
50 . 60	50/60	250 .		,
RDC-DD				6
2 —	6			
	F			
3 ( .	(RDC-DD),			-
4.1):				-
- RDC-MD (	)			-
- RDC-PD (	)			-
	,			-
	,			-
6	.			-
8		RDC-PD		-
				-
TN.	RDC-DD			-
IT.	RDC-DD			-
	RDC-DD			-
	RDC-DD			-
				-

RDC-DD

6

RDC-MD.

RDC-M

RDC-MD.

RDC-M

( , )  
N.

),

).

2

( ).

IEC 60068-2-30:2005. Environmental testing — Part 2\*30: Tests — Test Db: Damp heat, cyclic (12 h + \* 12 h cycle) [ 2\*30. Db ]

IEC 60068-3-4. Environmental testing — Part 3-4: Supporting documentation and guidance — Damp heat tests ( 3-4. )

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IEC 60228:2004. Conductors of insulated cables ( )

IEC 60364. (all parts) Low-voltage electrical installations ( ) ( )

) IEC 60529, Degrees of protection provided by enclosures (IP Code) [ , - ]

IEC 60664-1:20074 Insulation coordination for equipment within low-voltage systems — Part 1: Principles, requirements and tests ( 1. )

IEC 60664-3, Insulation coordination for equipment within low-voltage systems — Part 3: Use of coating, potting or moulding for protection against pollution ( 3. )

IEC 60695\*2-10. Fire hazard testing — Part 2-10: Glowing/hot-wire based test methods — Glowwire apparatus and common test procedure ( 2-10. )

IEC 60898-1:2015. Fire hazard testing — Part 1: Glowing/hot-wire based test methods — Glowwire apparatus and common test procedure ( 1. )

IEC 61008-1:2010, Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs)— Part 1: General rules ( )

IEC 61009-1:2010. Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) — Part 1: General rules ( )

IEC 61543:1995, Residual current-operated protective devices (RCDs) for household and similar use — Electromagnetic compatibility [ , ]

1) IEC 60664-1:2020.

( - ).  
]

IEC 61543:1995/AMD1:2004  
IEC 61543:1995/AMD2:2005

CISPR 14\*1, Electromagnetic compatibility — Requirements for household appliances, electric tools and similar apparatus — Part 1: Emission (

, 1. )

3 ,

8 IEC 62873-2.

ISO IEC ,

IEC Electropedia <http://www.electropedia.org>

/ ISO <http://www.iso.org/obp>  
— «RCD». IEC 62873-2. \*RDC-DDe.

3.1 , RDC-OD

3.1.1 : RDC-DD (residual direct current detecting device. RDC-DD):

6 ,

3.1.2 ; RDC-MD (residual direct current monitoring device. RDC-MD):

6 ,

3.1.3 ; RDC-PD (residual direct current protective device. RDC-PD):

6 ,

3.1.4 RDC-M (RDC-M-unit): ,

3.1.5 RDC-M (RDC-M-module): ,

1 —

3.2

/ — ;

/ — : ;

/ — : ;

(tndc — ;

, — ;

$U_e$  — ;

— ;

/ — ;

/ — ;

/ —

IEC 62955—2021

4

## RDC-DD (RDC-MD, RDC-PD)

4.1

RDC-DD

— L.  
 4.1.1 RDC-MO  
 4.1.1.1 RDC-MD  
 RDC-MD.

6

IEC 62423 IEC 61008 IEC 61009 F RDC-MD  
 — RDC-MD 30

L.I.  
 4.1.1.2 RDC-MD. RDC-M.

RDC-M.  
 6 ) ( ) IEC 61009 F  
 IEC 62423 IEC 61008 30 ;  
 ) IEC 62423 -  
 ) 30 :  
 IEC 60898\*1.

RDC-MD IEC 61008 IEC 61009  
 F IEC 62423 30  
 1 — RDC-MD

L.2.  
 4.1.1.3 RDC-MD. RDC-M.

RDC-M.  
 6 ) ( ) IEC 61009  
 F IEC 62423 30 ;  
 ) IEC 61008 F IEC 62423  
 ) 30 :  
 IEC 60898-1.

RDC-MD IEC 61008 IEC 61009 F  
 IEC 62423 , 30 ;  
 d) IEC 61008 IEC 61009 F RDC-MD  
 IEC 62423 30

( , ),  
 1 — N.  
 2 — RDC-MD

L.3.

**4.1.2**           **RDC-PD**  
**RDC-PD**

**6**

,  
1 —  
2 —           **RDC-PD**

**L.4.****4.2**

**RDC-DD;**  
**RDC-DD;**  
**RDC-DD.**

**4.3**

**RDC-DD.**  
**RDC-DD.**

—

•

•

**RDC-DD****4.4**

**RDC-DD**  
**RDC-DD**

1 —           **RDC-DD**

;|

**RDC-DD**2 —           **RDC-DD****J:****RDC-DD**3 —           **RDC-DD****4.5**

)               **5 °C**           **40** ;  
)               **25 \***           **40**

**5****RDC-DD****5.1****RDC-DD**

:  
-               */ ( . 5.2.2);*  
-               *( . 5.2.3);*  
-               */<sub>Andc</sub> ( . 5.2.4);*  
-               *U<sub>n</sub> ( . 5.2.1);*  
-               *( . 5.2.5);*  
-               *J<sub>m</sub> ( . 5.2.6);*  
-               *( . IEC 60529);*  
-               *( . 5.4.2);*  
-               */ ( . 5.4.3).*

## 5.2

5.2.1

(1/ )

5.2.1.1

(1/ )

( — )

)

RDC-DD

—

RDC-DD

5.2.1.2

( )

RDC-DD —

,

,

RDC-DD.

5.2.1.3

 $(t_{i,mD})$   
RDC-DD

4.

5.2.2

( / )

RDC-DD

RDC-DD

5.2.3

 $(I_{xdc})$ 

RDC-DD

RDC-DD

5.2.4

 $(I_{wde})$ 

RDC-DD

RDC-DD

5.2.5

RDC-DD —

RDC-DD

—

RDC-DD

5.2.6

( / )

RDC-DD

,

9.11.2.2.

## 5.3

5.3.1

 $(U_n)$ 

1.

1 —

ROC-DD	RDC-OD	RDC-DO 230/400 8 . . . . .	230 . . . . .	ROC-DD 120/240 . . . . .
	( , )	230		120
	( )	400		240
	( )			120/240

1

RDC-DO	RDC-DO	RDC-OD 230/400	230 . 400 .	RDC-OD 120/240	240 .
	(4- 230/400 . 230 . ) ( , )		230		
( )	( (3- 400 . 230/400 . 240 ) )		400		240
	( (4- 230/400 . ) )		400		
		120 . 100 . 100 / 200 . 100 . 120 / 208 .	120/240	240 . 240	

— ( ) ,

5.3.2 (I ) :

16. 20. 25. 32. 40. 63. 80, 100, 125

5.3.3

(I<sub>Adc</sub>)

0.006 .

5.3.4

(I<sub>An(jc)</sub>)o.s/A<sub>Ande</sub>.

5.3.5

50 . 60 . 50/60 .

5.3.6 (I )

1

10/ 500 . ,

17.

5.3.7

(I<sub>1</sub> )

/ 10 / 500 . ,

17.

5.3.8

(I )

5.3.8.1 10 000  
8 10 000/ 3000 . 4500 . 6000 . 10 000 .  
17.

1000 . 1500 .

2000 2500 . 7500 . 9000

IEC 62955—2021

5.3.8.2	10 000	
	10 000	25 000
20 000 .		17.

25 000		
--------	--	--

5.3.9	
(I <sub>%</sub> )	

5.3.9.1	10 000
10 000	
1	: 3000.4500.6000 10 000 .

17.

5.3.9.2	10 000	
	10 000	25 000
20 000 .		17.

25 000		
--------	--	--

5.3.10	
5.3.10.1	

2.

2 —

	60	200
10.0	0.3	0.1

5.3.10.2

) )	4.1.1.1. 4.1.1.2.	) 4.1.1.3. ( * * *
) 4.1.1.3.	d)	3.
3 — )		

{ ) }			
30		150	SA
	0.3	0.08	0.08

5.3.11

( « )	4
-------	---

4 —

<		
2.5		120/240")
4	230/400	120/240.240*

**4****14.**

)

,

**5.4**

( )

**5.4.1****5.4**

- RDC-MD : 4.1.1.1;
  - \* RDC-MD 4.1.1.2, );
  - \* RDC-MD 4.1.1.3, ) d);
  - \* RDC-PD 4.1.2.
- ( );  
RDC-DD

**IEC 60364.****RDC-DD****9.11.2.1****9.11.2.3****RDC-DD**

/

I<sub>t</sub>.**5.4.2**

( / )

**RDC-DD.****9.11.2.3.**

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**5.4.3**

( / )

**RDC-DD.****9.11.2.3.**

).

**6****F****30****RDC-DD**

(

)

:

)

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:

)

(

);

-

d)

;

**RDC-DD**

-

50/60 )

;

 $\Delta_{dc} = 0.006$  ;

)

0

25 \*

40 ' (JSjf).

-

)

,

;

h)

(

,

IP20);

-

j)

,

;

l)

,

;

IEC 62955—2021

m)

« »:

)

RDC-DD

RDC-DD.

, RDC-DD.

IP20

IEC 60529.

/

( , , , ),

), f) ),  
no a), b). ), k). l) ),

)

,

, RDC-DD.

 $P_t$  $I_0$ 

16.

,

RDC-DD.

/

« ».

RDC-DD.

,

,

,

« » («line») « » («load»),

].

,

,

«N».

,

(IEC 60417-5019-2006-08).

9.3.

(

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« »

«sol»;

(

)

« ».

RDC-DD

7

7.1

**RDC-DD.**

5.

5 —

71	5 ' 25 *	40 * 2h 40 '	20'
	2000		
40 '	50 % )		
			4)
	2*	- \$	2"
	15 %		12%
-	5 %		5%
	35 *		
2>			( .
90 % 20 " ).			
4)	RDC-DD		
s>			,
)	,		,
	20 *	60 *	

7.2

**RDC-DD**

7.3

**RDC-DD.**

2,

\*

;

,

IEC 62955—2021

**8**

**8.1**

**8.1.1**

RDC-MD

**4.1.1.2    4.1.1.3**

,

,

,

RDC-DD.

RDC-DD

RDC-DD

1

**IEC 60364**

**IEC 60479.**

RDC-DD

,

RDC-MD

**4.1.1.3**

,

RDC-MD

,

,

RDC-MD,

RDC-MD.

**8.1.2**

RDC-DD

,

,

RDC-DD

,

RDC-DD  
RDC-DD

( : , ).

1 —

**9.15.**

,

,

,

RDC-DD

**RDC-DD****RDC-DD.****RDC-DD****8.1.3****9.15.****1—****6.****RDC-DD.****2****III.****1. 2    4 (****2)****IEC 60664-1****2 —****RDC-OD****9.7.7.3.2.****9.7.7.3.2.****)****1****9.7.1.****2    4****b), ), d) )****9.7.2—9.7.6****9,7,7,2****14.****9.7.2,****)— ).****9.7.7.2****9.7.7.3.2****3****6****2****IEC 60664-3,****(      )****4.8.1 IEC 60664-1:2007.****5.3    6.1.3 IEC 60664-1:2007.****3****4 —****F.2 IEC 60664-1:2007: «****1.****0.04****F.4.».****F.4 IEC 60664-1:2007.****IEC 60664-3****2****IEC 60664-5.****HL2    HL3.**

£ 6—

				*1 „ iKa <sup>b</sup> > <1758 « <400												<400 « < 60081 <sup>1</sup>			<600 8« <sup>1</sup> »”!		
	1/^.			*1.																	
	2.5	4.0	4.0	120/240 120	120/240 240	230/400 230.400	>25 S50”	120	250	400	> 25 “ 50°	120	250	400	>25 t 50”	120	250	400			
	1 . ④ <sup>1</sup>	,	-			3.0	3.0	1.2	2.0	3.0	3.0	09	2.0	3.0	3.0	0.6	1.2	3.0	3.0		
	2 . ④*	-	-	15	3.0	3.0	1.2	15	3.0	4.0	0.9	1.5	3.0	3.0	0.6	1.5	3.0	3.0			
3 ., PELVHnH\$ELV9>	,	-	3.0	6.0	6.0	—	30	6.0	6.0	—	3.0	6.0	6.0	—	3.0	6.0	6.0				

IEC 62955—2021

**IEC 62955—2021**

**8.1.4** ,  
**8.1.4.1**

RDC-DD

( ),  
RDC-DD.

**9.4.**

**9.8, 9.11, 9.12, 9.13**

**9.20.**

**8.1.4.2** ,  
RDC-DD

**8.1.4.3**

**8.1.4.4**

,  
; ,  
, 58 %  
50 % ;

(9.22).

**8.1.5**  
**8.1.5.1**

RDC-DD

**9.5**

**8.1.5.2** RDC-DD

7.

F:

7 —

*1		**1	
		( - ^)	
—	13	1.0—2.5	1.0—2.5
13	16	1.0—4.0	1.0—4.0
16	25	1.5—6.0	1.5—6.0
25	32	2.5—10.0	2.5—6.0
32	50	4.0—16.0	4.0—10.0
50	80	10.0—25.0	10.0—16.0
RDC-DD			
>	,	50	,
	,	1 6 2	,
>		1.5 50 2	2 no 1 60226

8.1.5.3

8.1.5.4

32

8.1.5.5

ISO

9.4 9.5.2.

8.1.5.6

9.5.3.

8.1.5.7

9.4 9.5.2.

8.1.5.8

9.5.4.

**IEC 62955—2021**

**8.1.5.9**

**9.4.**

**8.1.5.10**

**8.1.5.11**

**8.2**

**RDC-DD**

**F.**

**RDC-DD**

( . 9.6).

**RDC-DD**

**RDC-DD**

**RDC-DD.**

**RDC-DD**

**RDC-DD**

**RDC-DD**

(8.2).

9.8.

8.3

RDC-DD

RDC-DD.

9.7.

8.4

8.4.1

RDC-DD,

8

9.8.2,

RDC-DD

8 —

	65
RDC-DD.	40
	25
RDC-DD.	60
	RDC-DD ,
	,
( . . 9.19)	
>	
	RDC-DD

8.4.2

8.

5.

8.5

RDC-DD

9.9.1.

9.9.2 9.9.3,

8.6

RDC-DD

RDC-DD

ISO 17409.

IEC 62955—2021

9.10.

8.7

RDC-DD

9.11.

8.8

RDC-DD

9.12.

8.9

RDC-DD

9.13.

8.10

RDC-DD.

9.14.

8.11

RDC-DD

RDC-DD

9.16.

8.12

RDC-DD

9.18.

RDC-DD

8.13

RDC-DD

8.14

( )

9.19 9.20.

8.15

\*

RDC-DD

9.21.

\*

RDC\*DD

,

\*

9.17.

**9**

9.1

9.1.1

RDC-DD

9.

9.—

	9.3 9.4 9.5 9.6 9.7 9.8 9.9 9.10 9.11 9.12 9.13 9.14 9.15 9.16 9.17 9.18 9.19 9.20 9.21 9.22

RDC-DD

( )

## 9.1.2

## 9.1.3

## 9.2

RDC-DD

20 25

RDC-DD.

10 —

« !	*6	6	13<„S20	20 < $i_n$ S 25	25<„S32	32< $r_{ft}$ S50	50 < S 63
S.MM <sup>2</sup>	1	1.5	2.5	4	6	10	16

2 —

AWG G.

± 5 %;

± 5 %.

9.8. 9.9. 9.10, 9.19.3 9.20

RDC-DD

1  
2£ 10<sup>2</sup>  
> 10<sup>2</sup>

11.

RDC-DD

9.10 9.11

0.1 (1 ±25 %) / .

RDC-DD.

RDC-DD.

9.3

15  
15  
(  
29.  
69' 0,68 / 3).

15

0.1 %  
65'

9.4

8.1.4

RDC-DD.

- 10  
. 5

11.

7.

11 —

		Н		
		I	II	III
—	2.8	0.2	0.4	0.4
2.8	3.0	0.25	0.5	0.5
3.0	3.2	0.3	0.6	0.6
32	3.6	0.4	0.8	0.8
3.6	4.1	0.7	1.2	1.2
4.1	4.7	0.8	1.8	1.8
4.7	5.3	0.8	2.0	2.0
5.3	6.0	1.2	2.5	3.0
6.0	8.0	2.5	3.5	6.0
8.0	10.0	—	4.0	10.0

III

III.

II. III

, , , ,

**RDC-DD.****9.5****9.5.1****8.1.5****9.4.**

7 (

6 2,

),

9.5.2. 9.5.3 9.5.4.

**9.5.2**

)

(

7.

)

1 6 2

1.5 50 2,

35 2,

AWG

G.

1

**11.****12.**

1

12—

,	2	Ov 1 4	4	to	10 10	10 50
.		50	60	80	90	100

**9.5.3**

7.

**11.**

9.5.4

7.

/

( ) . ,

11.

,

9.6

RDC-DD,

RDC-DD.

8.2)

RDC-DD.

90°

9.7

9.7.1

9.7.1.1

RDC-DD

RDC-DD,

;

( ), ;

9.7.1.2

91 % — 95 %.

± 1 "

20 30 °C.

9 (7+4)\* .

9.7.1.3

48

— 91 % — 95 %

(Na<sub>2</sub>SO<sub>4</sub>)(KNO<sub>3</sub>)

9.7.1.4

RDC-DD

9.7.2.9.7.3.9.7.4. 9.7.6 9.77.2 ( ).

9.7.2

9.7.1

RDC-DD

## IEC 62955—2021

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30—60 , , 500 .  
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 RDC-DD, ;  
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 RDC-DD; 8.2.  
 RDC-DD , , ;  
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 9.7.3 , , RDC-DD , , 9.7.2. , , 9.7.2.  
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## 9.7.4

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0	30	600
30	50	1000
50	110	1500
110	250	2000
250	500	2500

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RDC-DD.

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RDC-DD.

## 9.7.5

## 9.7.6

RDC-DD,

: 600<sup>25</sup>

: 5 %.

: 12<sup>\*2</sup>

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RDC-DD

9.9.2.3.

9.7.7 ( )

9.7.7.1

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± 30 %  
120 %

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977.2 RDC-DD 2

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9.77.2 97.4. 2

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RDC-DD,

14 RDC-DD. /

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• ( ) ( ) . ( ) . RDC-DD

9.7.2, )— ), , )— ).

14 —

	“ <sub>12&gt;50</sub> < - &				
		200	500	1000	2000
2.5	2.9	2.8	2.8	2.7	2.5
4	4.9	4.8	4.7	4.4	4.0

9.7.7.3

9.7.7.3.1

9.7.7.3, 8.1.3. 9.7.1.

4.

14  
RDC-DD.

9.7.7.3.2 RDC-DD

6

RDC-DD.

9.7.7.3.3 RDC-DD

RDC-DD.

14.

• ( ) ( ), ( ) ( ), ( ) ( ) . ( ) .  
 • ( ) ( ), ( ) ( ) ; RDC-DD.

**97.7.4.****97.7.4****RDC-DD.****IEC 60364-4-44:2007****IEC 60664-1****1200 + > U<sub>o</sub>****50 /60****44. .2****RDC-DD.****9.77.3.2.****1 —****RDC-DD****U& - 250****1200 \* 250****1450****5**

« ( ) ( ) , ( ) ( ), : ( ) ( ),

**2 —****9.9.2.3****RDC-DD****1.25/ ←****9.8****9.8.1****RDC-DD****1 RDC-DD.****9.8.2****/  
RDC-DD****1****RDC-DD****8.****9.8.3****8.**

**9.8.4****9.8.3,****9.8.1.****9.9****9.9.1****RDC-DD****0.85 1.1****9.9.2****9.9.3****3.****2.****(****)****IEC.****(2015) "****RDC-DD****9.9.2 9.9.3.****RDC-DD****9.9.2****RDC-DD****9.9.2.1****S1 S2.****RDC-DD****2****6****30****S3****II****3 6****9.9.2.2****S1 S2****RDC-DD****S3****II****I****2.****9.9.2.3****2.****S2****RDC-DD****S1.****S3****II****I****2.**

2.  
9.9.27

RDC-DD.

) S1 S2. 5.  
6,2 30 RDC-DD 2  
RDC-DD | II  
RDC-DD 3.1 6.2 S3.  
) 60 200  
S1 RDC-DD S2.

(I II) S3.

2.  
9.9.3

6	30	30	S1	S2.	RDC-DD	*
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RDC-DD

S1	RDC-DD.	3.	*
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S2  
\*Q %.

RDC-DD

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9.10.1

RDC-DD	,	8.
RDC-DD	,	
10.		
RDC-DD		

RDC-DD	,	1.9	2.1	
RDC-DD	2000			

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1) (R2 1): RDC-DD

S2 S4		R2 1		
S1	90 fr			
(66 ± 3)	10 % s tr s 90 %			
30 * 20			20	(200110)

2)	( 1):	S1 S2		
RDC-DD	,	S4 —		

1		( 1).		
,		0.6 %		

3)		(R1),	0.85 0.9;	RDC-DD
30 :	RDC-DD	,		

R1		S1. S2 S4		
30 .	30 A. R1			

ISO 17409:2015.8.2.2;		RDC*DD.	230
( )	1	30	
	9.	2	ISO 17409:2015.8.2.2.
9.10.2		S1	
	RDC-DD	:	
) 1000		S2 S4.	
RDC-DD		S3	1 ± 100
RDC-DD	RDC-DD.	2	± 100
RDC-DD.		:	
) 500		S2 S4.	
RDC-DD		S4	1 ± 100
RDC-DD	RDC-DD.	2	1100
RDC-DD		:	
) 500 1000	,	RDC-DD	
		S2 S4.	
RDC-DD.		S4	1 ± 100
RDC-DD.	2	± 100	RDC-DD
			60
8).			
9.10.3	RDC-DD	:	
9.10.3	RDC-DD	:	
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no 9.9.2.3	RDC-DD		
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RDC-DD			
9.7.3.	,	900	1
9.11	RDC-DD		
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15.	RDC-DD		
15 —	RDC-DD		
1		9.11.2.2	
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500		0.45	0.47	0.5	0,57					
	$I(\text{~}^2)$	0.4	0.45	0.53	0.68					
1000	' <**)	0.65	0.75	0.9	1.18					
	$P_t(\text{~}^2)$	0.50	0.9	1.5	2.7					
1500		1,02	1.1	1.25	1.5	1.9	2.1			
	$I^2/( \text{~}^2)$	1	1.5	2.4	4.1	9.75	22			
3000	< )	1.1	1.2	1.4	1,85	2.35	3.3	3.5	3.8	3,95
	$P_t(\text{~}^2)$	1.2	1.8	2.7	4.5	8.7	22.5	26	42	72.5
4500		1.15	1.3	1.5	2.05	2.7	3.9	4.3	4.8	5.6
	$P_t(\text{kA}2\text{c})$	1.45	2.1	3.1	5.0	9.7	28	31	45	82.0
6000		1.3	1.4	1.7	2.3	3	4.05	4.7	5.3	5.8
		1.6	2.4	3.7	6.0	11.5	25	31	48	65.0
10000	' < )	1,45	1.8	2.2	2.6	3.4	4.3	5.1	6	6.4
		1.9	2.7	4	6.5	12	24	31	48	60.0

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 $P_t$ 

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RDC-DD.

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500 </ <sub>e</sub> t 1500	0.93—0.98
1500</ \$3000	0.85—0.90
3000</ \$4500	0.75—0.80
4500 </ <sub>c</sub> S 6000	0.65—0.70
6000</ <sub>c</sub> S10 000	0.45—0.50
10 000</ <sub>c</sub> S25 000	0.20—0.25

d)

105 %

RDC-DD.

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105 %

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RDC-DD

G<sub>v</sub>

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RDC-DD

9.11.2.3,  
G<sub>2</sub>

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Z<sub>2</sub> / Z<sub>1</sub>.

9.11.2.2, 9.11.2.3,

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f) RDC-DD 9.11.2.1,  
f1)- , ,  
9.11.2.1. 9.11.2.1. f) 2). ,  
f) 1). 3 — ,  
RDC-DD \*  
1) RDC-DD .1.  
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4 — ,  
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6. 1.5 .0,12 RDC-DD. F  
( . ) 230 8. 0,16 — 50 400 .  
5 — 1500 , / 35  
, / , 40. 45. 50. 55  
2) .1, RDC-DD.  
, ( ) RDC-DD ( ) ( ) ( ).  
( ), ( ) RDC-DD ( ) ( ) ( ).  
F'n R'. 9.11.2.1, f) 1).  
6. , , , « ». .1.  
10 ) ; RDC-DD ; RDC-DD. ( ,  
; 9.11.2.3);

t — , —  
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h) RDC-DD  
RDC-DD , , F . , ,  
F.  
i) RDC-DD , , 9.11.2.2. 9.11.2.3,  
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9.7.2. , , , , 9.7.2.  
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1.25/<sub>sdc</sub>\* , ,  
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1 ) , ,  
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RDC-DD. , , 26.  
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( , , 26).  
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9 .11.2.2 („) RDC-DD , ,  
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RDC-DD. , ,  
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RDC-DD , ,  
9.11.2.1. G, RDC-DD , ,  
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R<sub>2</sub>. , , S<sub>n</sub>  
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9 .11.2.3 RDC-DD

RDC-DD,

( . 5.3.9).

RDC-DD

RDC-DD

RDC-DD.

9.11.2.1:

[ . 9.11.2.3, ] 15

RDC-DD.

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RDC-DD.

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RDC-DD

, 45° ± 5°.

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RDC-DD

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9.11.2.1.

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9.12.2.3

RDC-DD.

9.12.2.2

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(1000 ± 1)

- : (12.7 ± 0,0025) :
- : (10012) ;
- : (500 ± 2.5) .

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ASTM D 785-08.





IEC 62955—2021

9.13.2    9.13.3,  
            9.13.2    9.13.3.

9.14

RDC-OD

IEC 60695-2-10

RDC-DD.

(960 ± 15)';

(650 ± 10)'.

RDC-DD

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9.15.1

RDC-DD

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RDC-DD  
RDC-DD

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RDC-DD

9.9.2.1 9.9.2.3.

RDC-DD

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, 0.85t<sub>e</sub> 1.1 U<sub>e</sub>.

9.18

RDC-DD

9.18.1

RDC-OD (

0,5 /100 )

RDC-DD

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RDC-DD

20.

RDC-DD,

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RDC-DD

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: 200 0 %:

: 0.5 ± 30 %;

: 10 120 %;

: 60 %

## IEC 62955—2021

	RDC-DD			
RDC-DD		9.9.2.3	$I_{Adc}$	
9.18.2	8/20 )		3000 (	
9.18.2.1			,	
RDC-DD	8/20 (IEC 60060-2),		24.	
RDC-DD		25.	,	
	RDC-DD.			10
				30 .
	RDC-DD		$L$ ,	
	: 3000 +10 %:			:
		: 8 120 %;		
			: 20 120 %;	
		: 30 %		
	/ , ,		30 %	
9.18.2.2		RDC-DD		RDC-DD
	no 9.9.2.3	/ ,		RDC-DD
9.19				
9.19.1			9.19.2 9.19.3.	
	RDC-DO.			
9.19.2				
9.19.2.1		IEC 60068-2-30	IEC 60068-3-4.	
9.19.2.2				4 IEC 60068-2-30:2005.
pH = 7 ± 0.2. 8				500
pH	7,0 ± 1.0.			100
9.19.2.3				
	(55 ± 2) * :			
	28.			
9.19.2.4				
IEC 60068-3-4.			IEC 60068-2-3:2000 (	4)
)				
			RDC-DD	
9.9.2.3,	/			
)				
1)	RDC-DD.			

2)	(	21).	RDC-DD	(25 ± 3) °
i)	;		RDC-DD	
ii)			RDC-DD	(25 ± 3) °C
	,			( 5).
		RDC-DD	95 %	
(25±3)°				
3)	24-	(	22)	
i)				
	,	9.19.2.3.		
			3 ± 30	
		22.		
8				
RDC-DD				95 %,
«	»			RDC-DD
				95 %,
	;			
ii)				
	±2 *			12 ± 30
8				
15	,			
RDC-DD		90 %	100 %.	(93 ± 3) %,
iii)			(25 ± 3)	15
1.5	,			3—6 .
(25 ± 3) °C				22.
3	± 15			
8				
95 %,				
iv)	15			90 %;
95 %				(25 ± 3) *
9.19.2.5	24-			
		RDC-DD		
				,
	4—6			(
)	8	28	RDC-DD	
9.19.2.6				
				,
			9.9.2.3.	RDC-DD
				,
	1.25/	.		
9.19.3		40		,
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	RDC-DD			
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				RDC-DD
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11.				
		RDC-DD		
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				(40 ± 2)
				28

IEC 62955—2021

21	3	
RDC-DD		
RDC-DD 21		
	;	
	RDC-DD ( )	
	9.9.2.3.	RDC-DD
1,25/		
9.20		
RDC-DD	168	(40 ± 2)
		1.1
	RDC-DD ( )	
	9.9.2.3	RDC-DD
1.25/^		
—		23.
9.21	( )	
9.21.1		
	18.	
18 —		
4 S ! 61643:1995. 1 2004		
1.3		9.9.1
1.4		9.9.1
1.5		9.2
1.8		9.11
2.4		9.18

9.21.2

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IEC 61543

4 5 1 61543:199\$, 1 2 4'	
1.1	,
1.2	,
2.3	/
2.1	
2.5	

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4	5 IEC 61643:1996. 1:2004**	
2.2		
2.6		150
3.1		
IEC 62955	9.9.2.3.	5.1.1      0.5/ <sub>1&lt;te</sub> .
		IEC 61008-1    9.9.2.3
	, IEC 61543	«     ».
	«/  »	«RDC-DD».

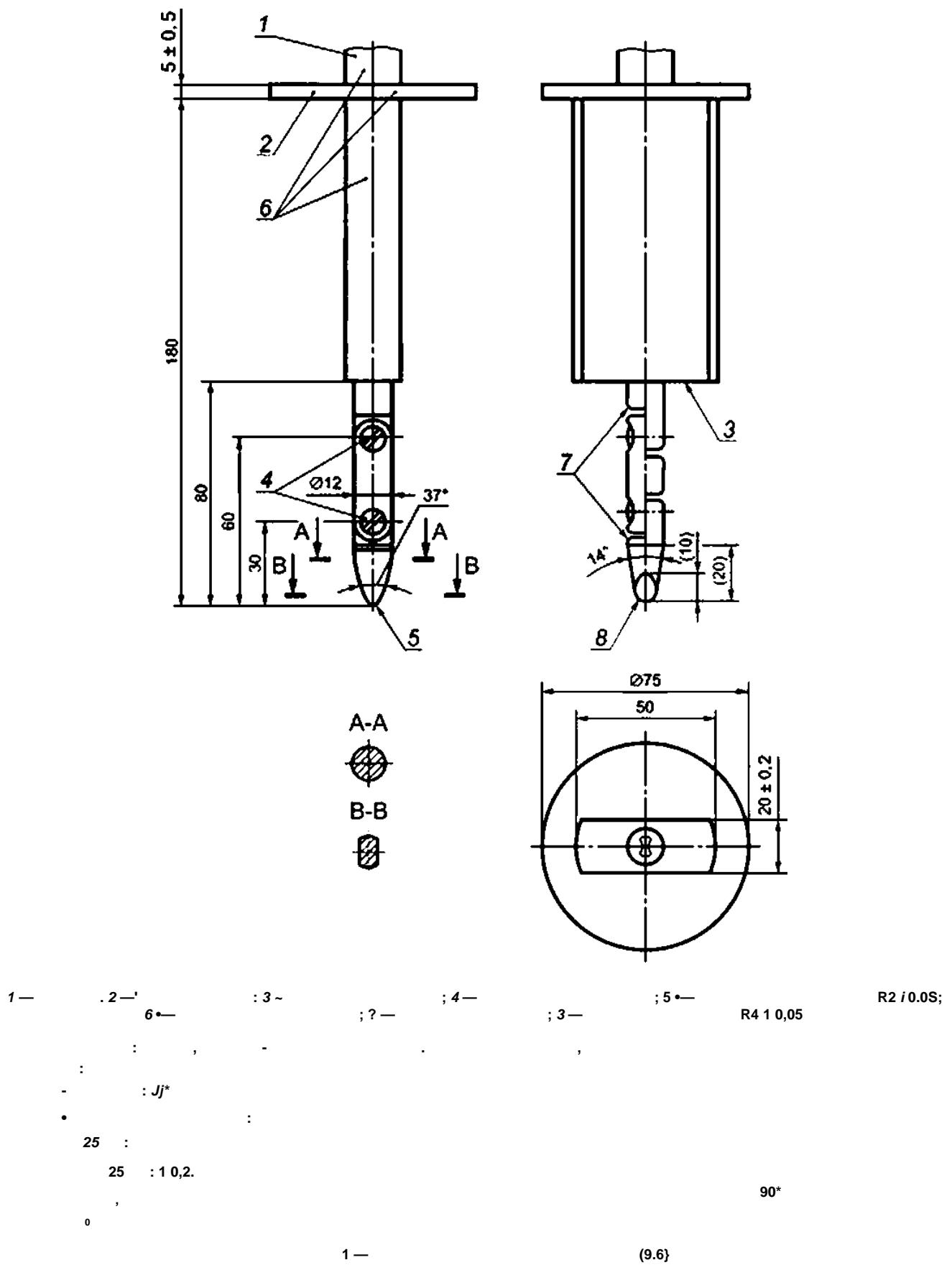
9.22

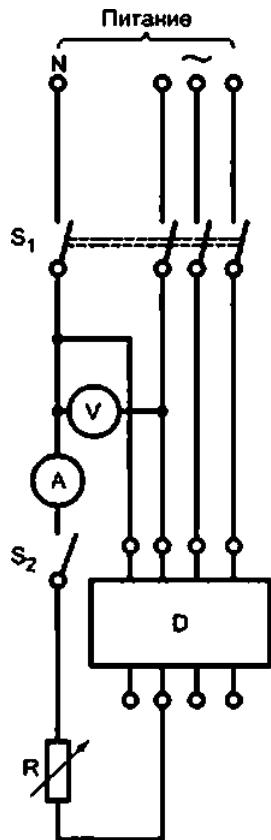
10  
 $(20 \pm 5) \text{ X.}$

10                          10                          10 %-

(20  $\pm$  5) °C.

10                          (10015)

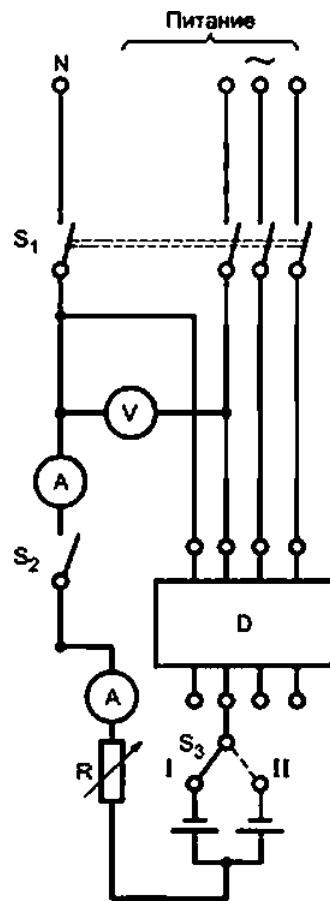




21

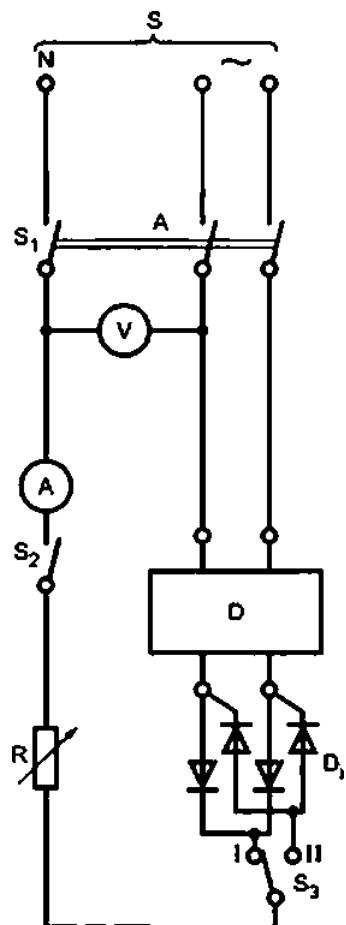
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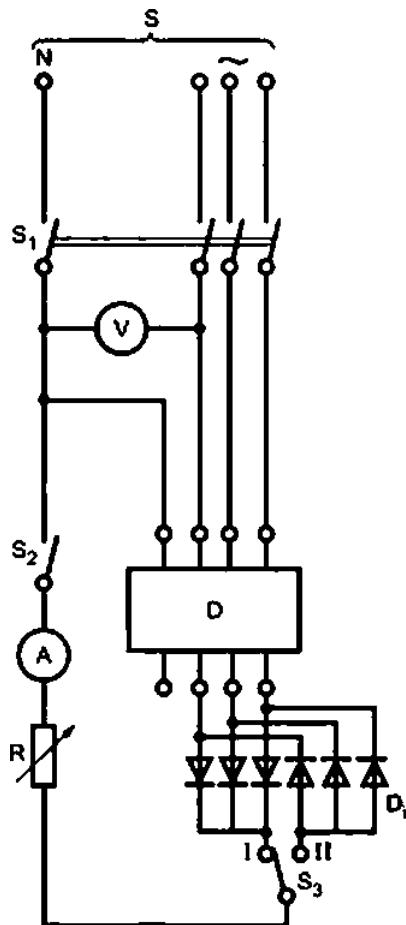


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RDC-DD

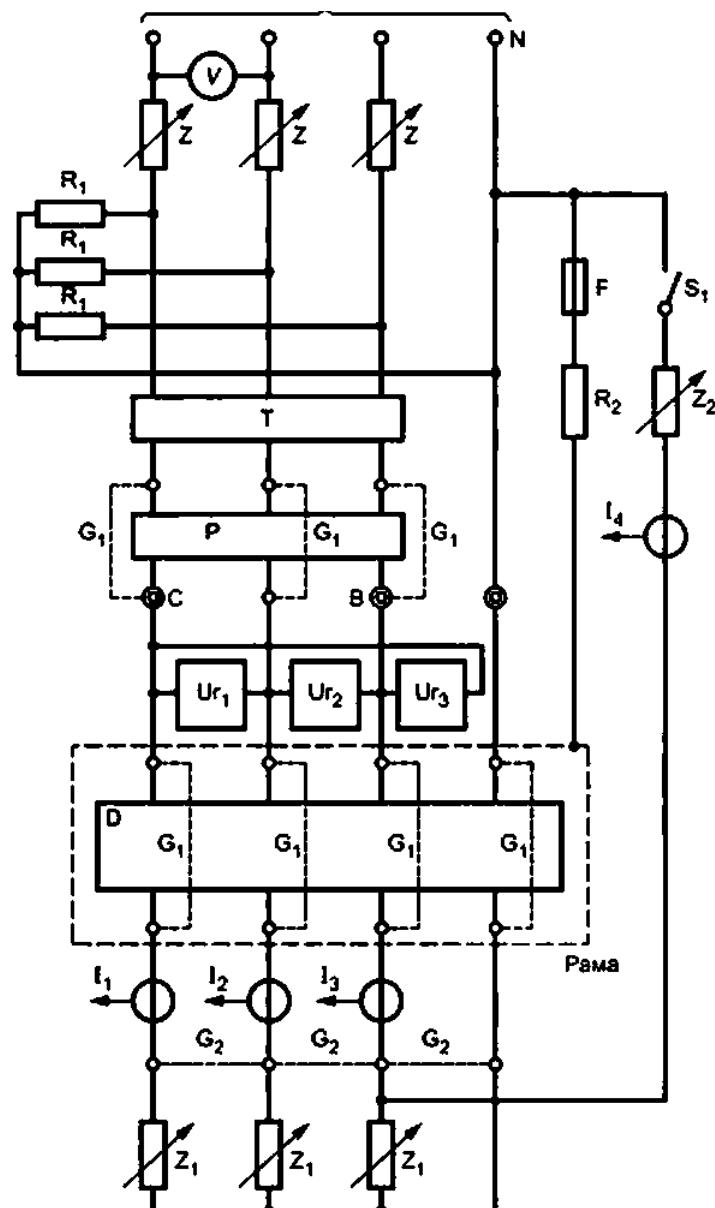
53



21

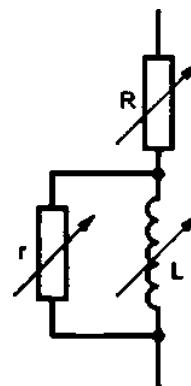
5 —

RDC-DD



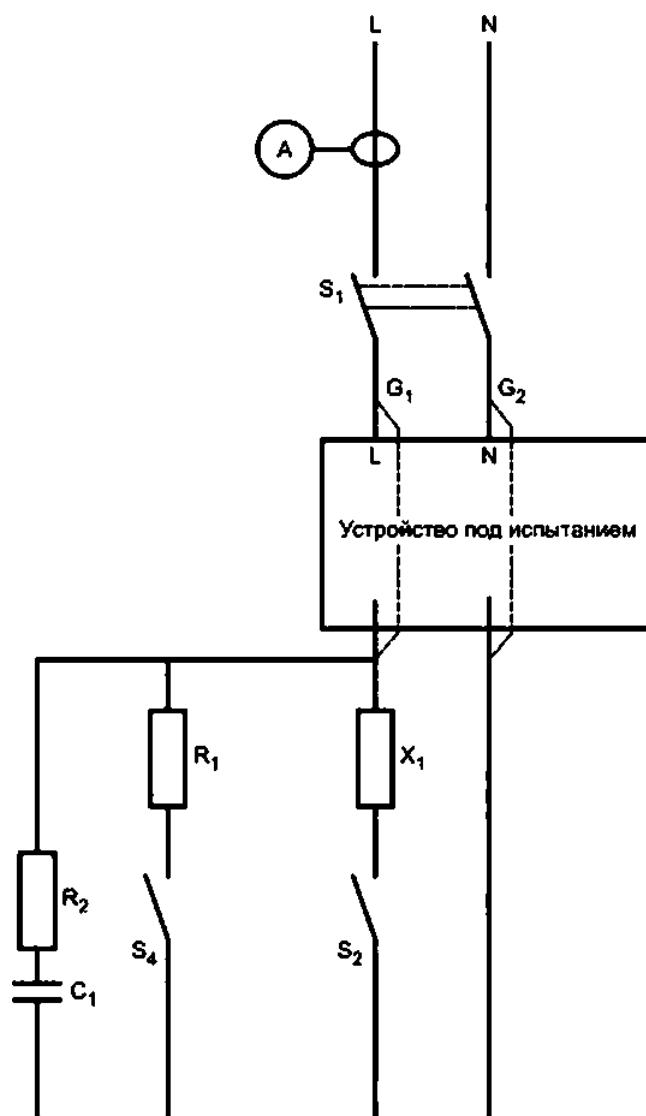
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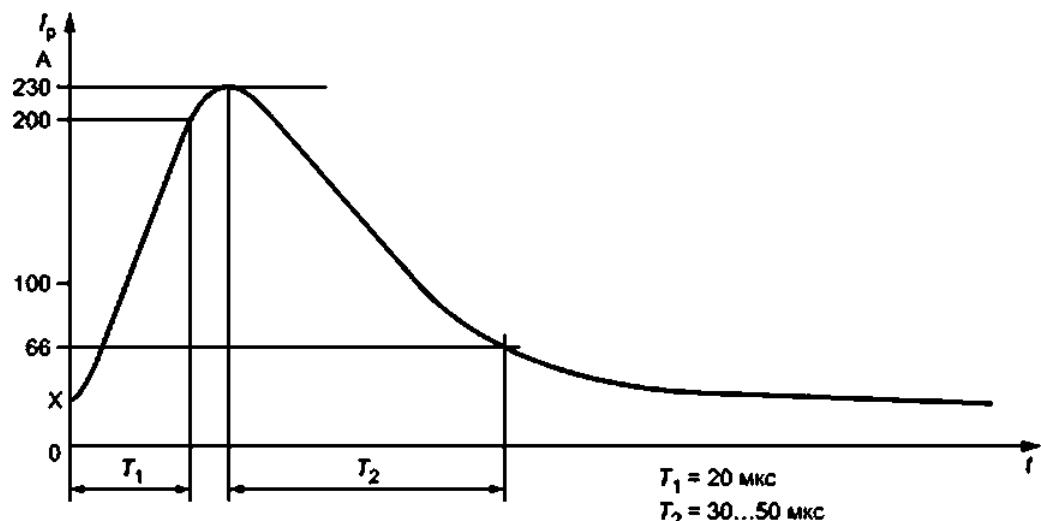
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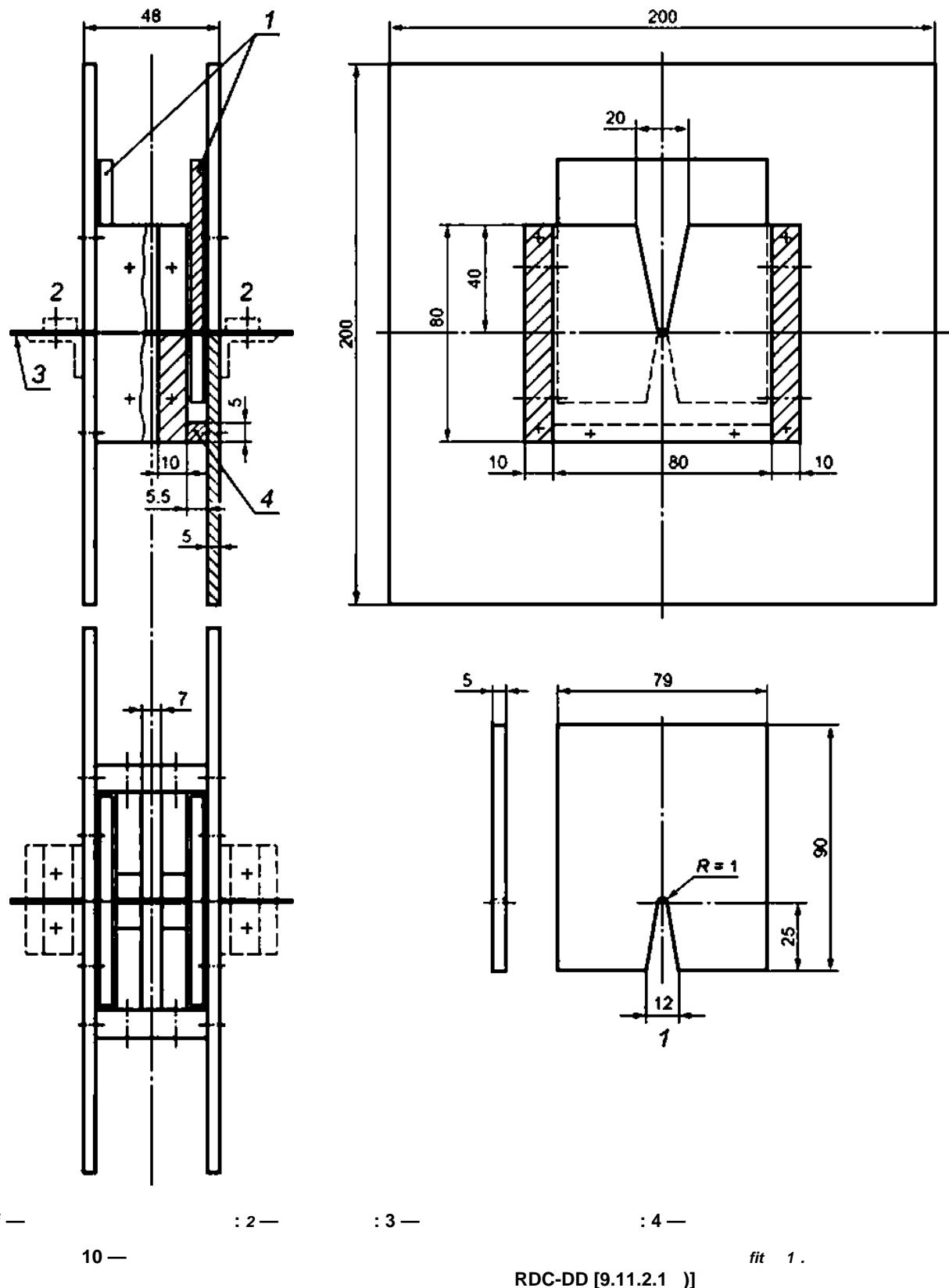
20 — RDC-DD

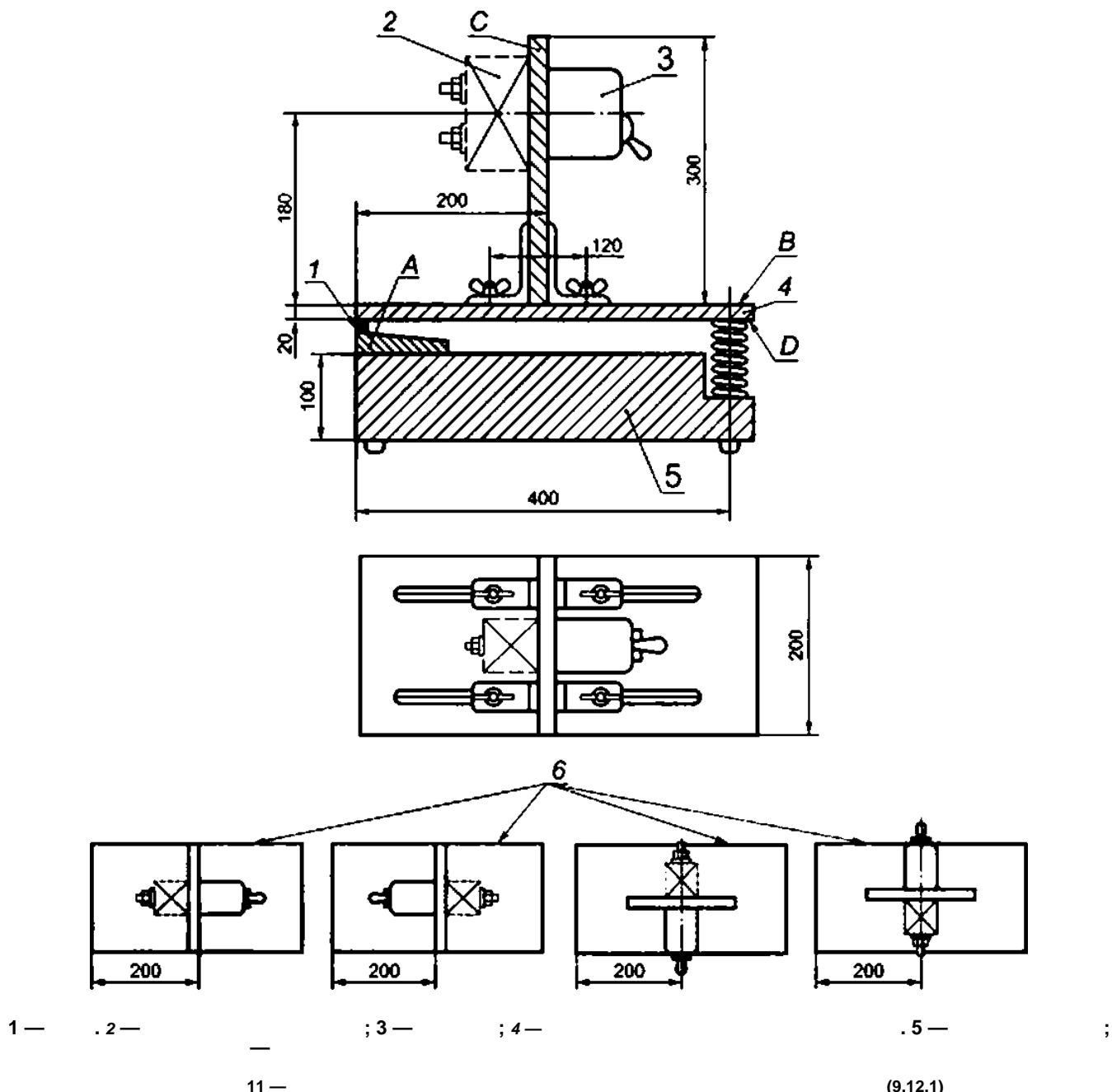
	( )	( )
,	$/ \text{S } 6 : 0.35$ $/ , > 6 : 4.5$	$6 : 2/\wedge)$
90'	$/^{\wedge} \text{S } 6 : 0^{\wedge} 5 / ,$ $/ , > 6 : 6.3$	$/ > 6 : 1.4 / ,$
135*	0-11/	
)	$/ < 6$	30 .

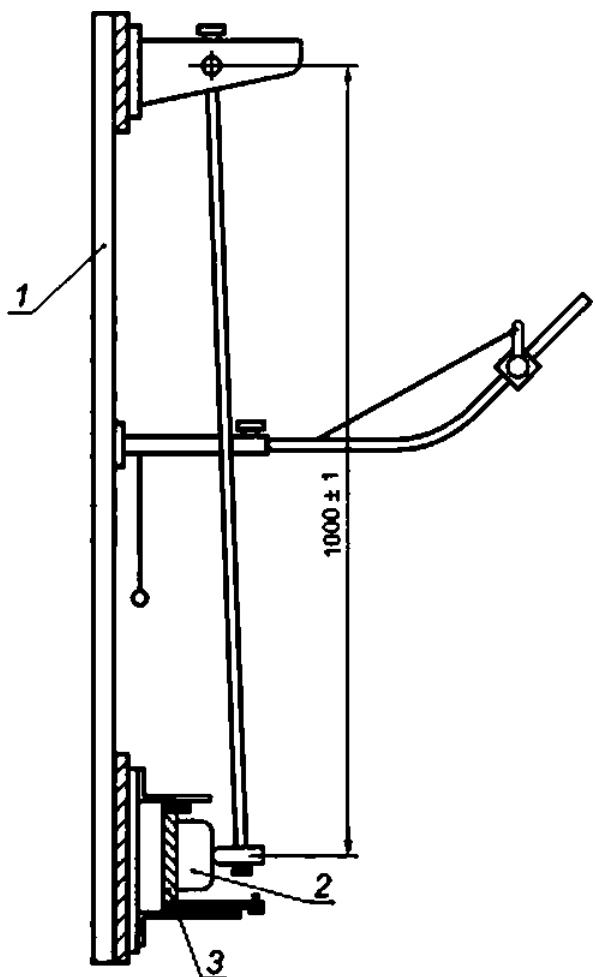
21 — 2—8

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$I_1, I_2, I_3$	) : ,
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s <sub>3</sub>	/
Uq, Ur <sub>2</sub> , Ur <sub>3</sub>	( )
V	
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	-
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$T$ $, I_2 \quad I_3,$ $Ur_v \quad Ur_2 \quad Ur_3$ $Z$ $R_c$	



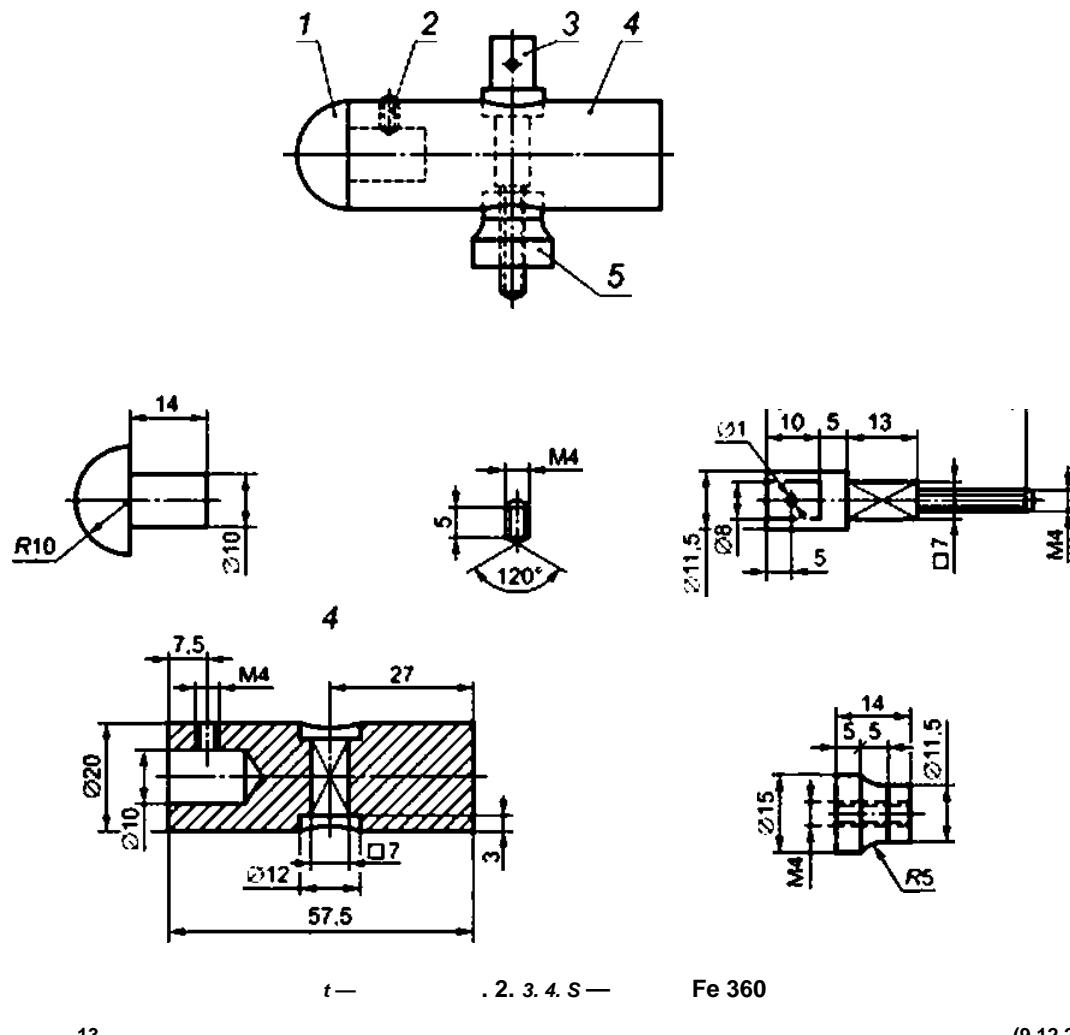


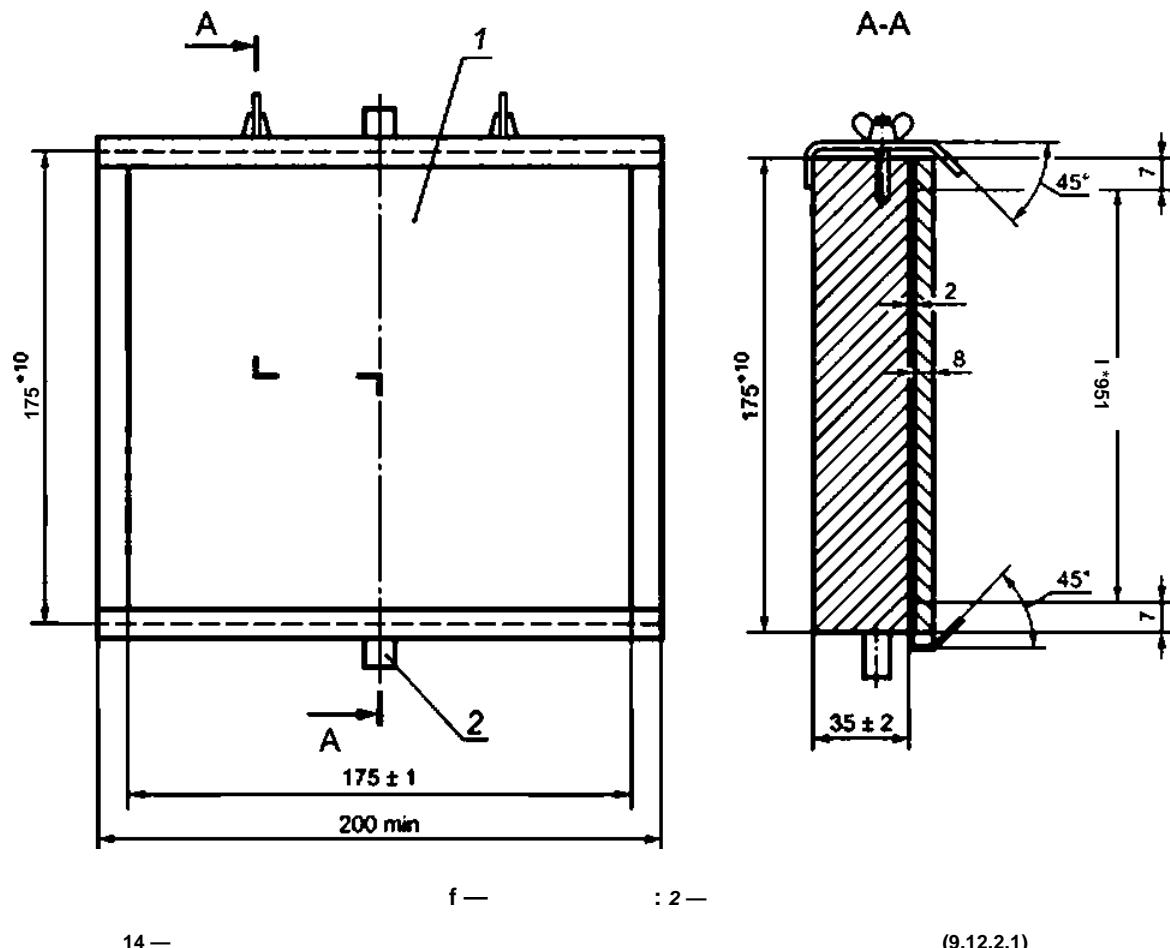


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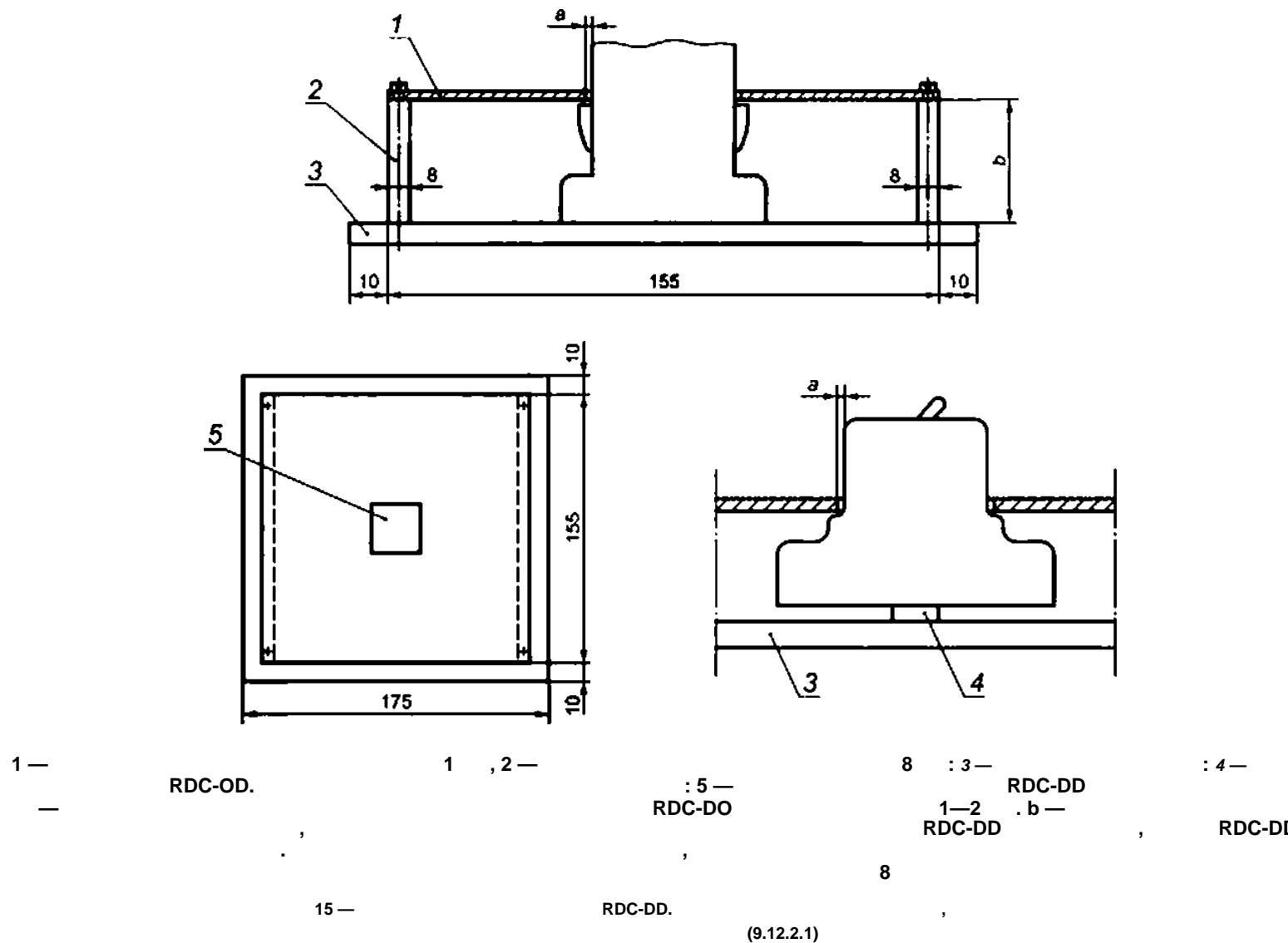
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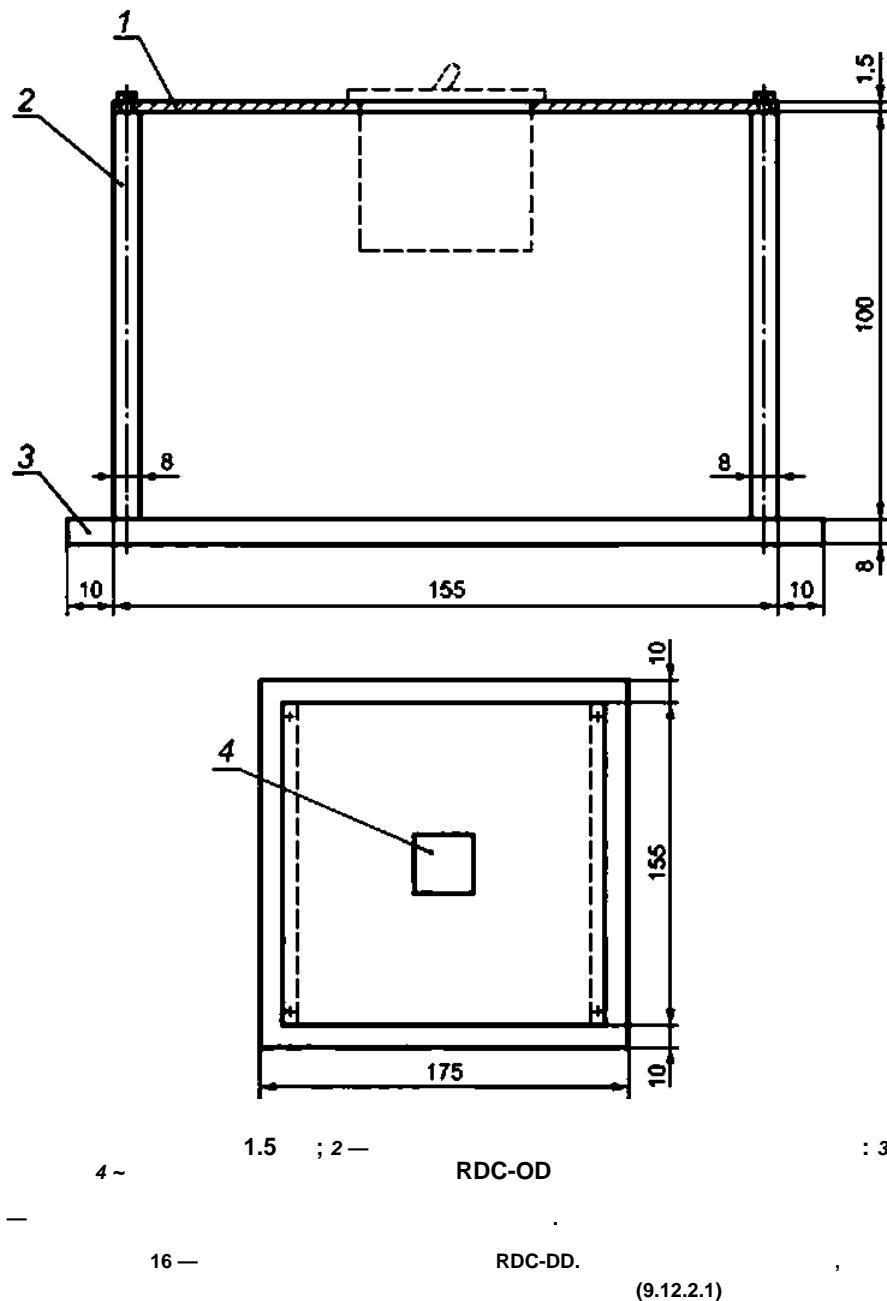
(9.12.2.1)



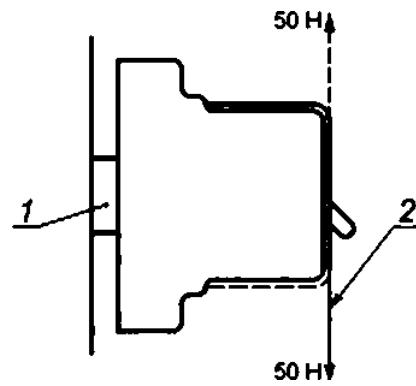


IEC 62955—2021





IEC 62955—2021

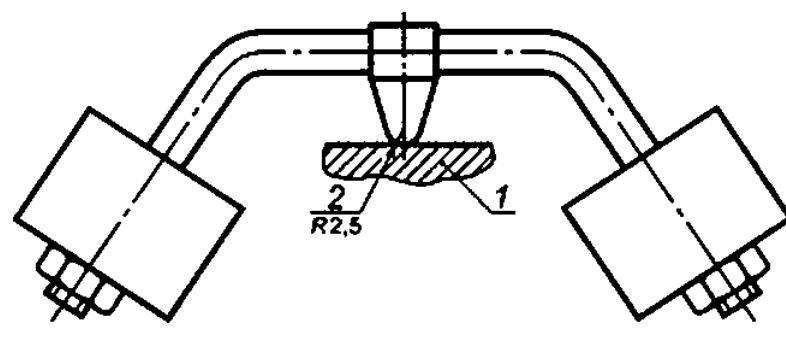


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RDC-DD.

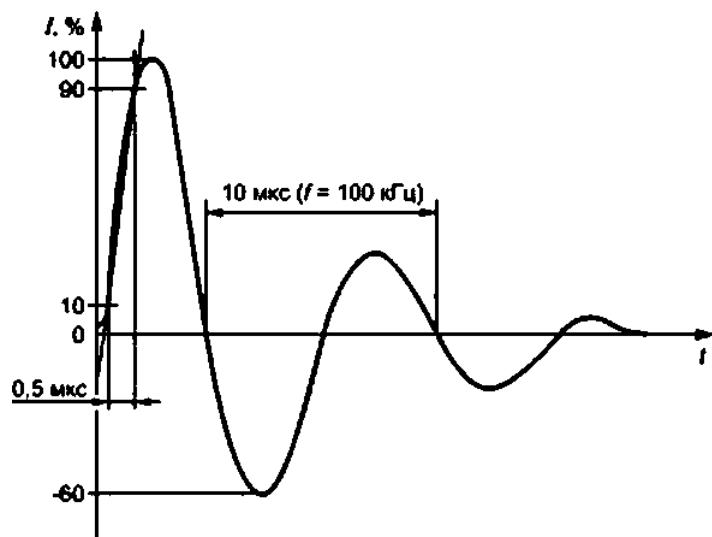
(9.12.2.2)



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18 —

(9.13.2)

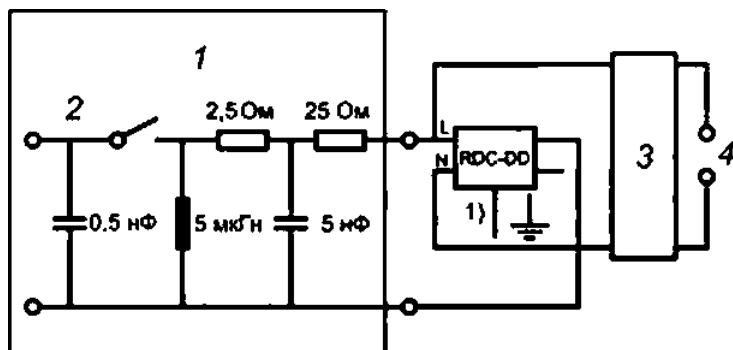


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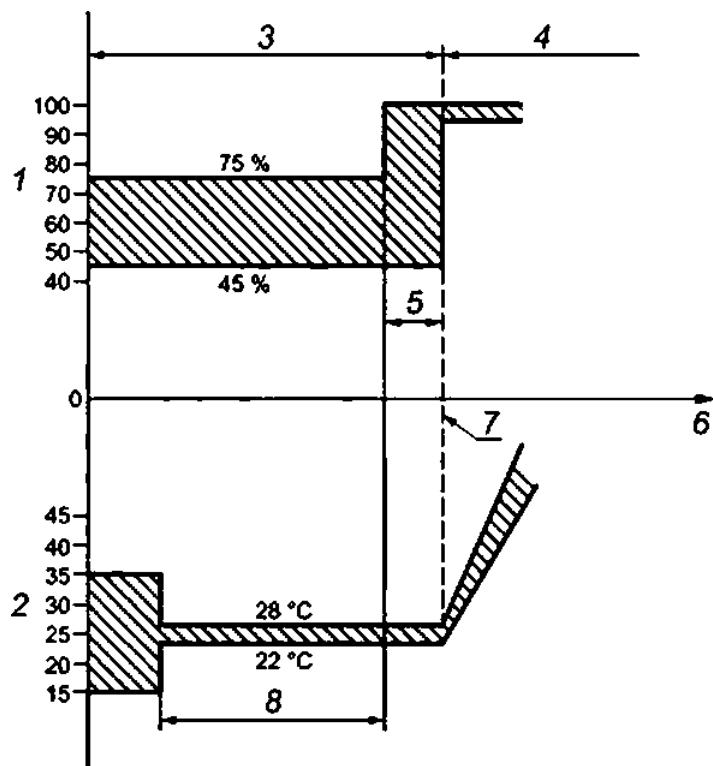
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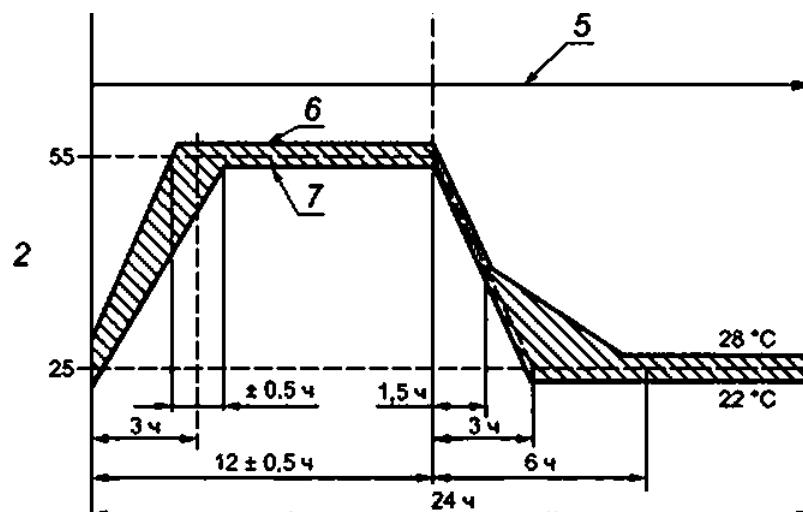
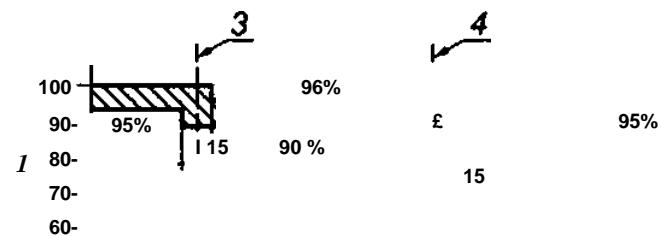
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RDC-DD,

20 — RDC-DD



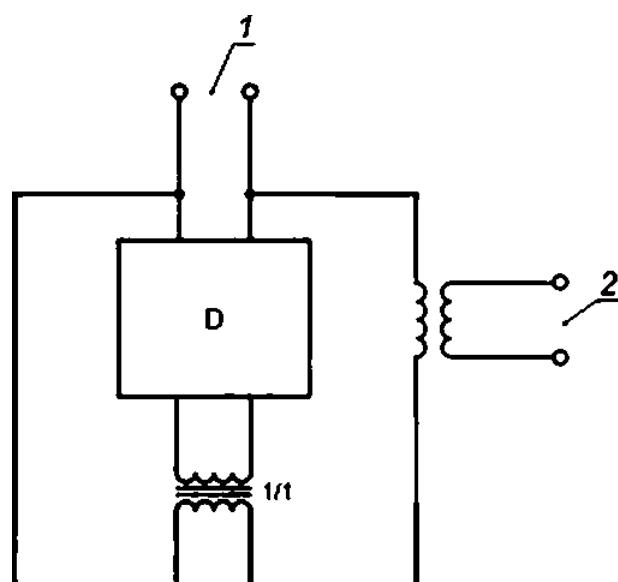
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IEC 62955—2021

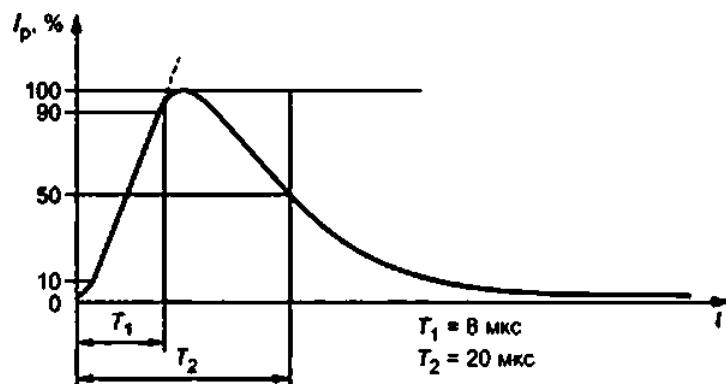


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(9.19.1.3)

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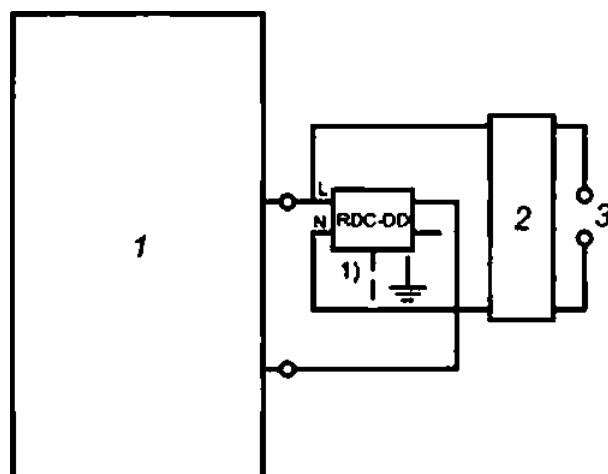


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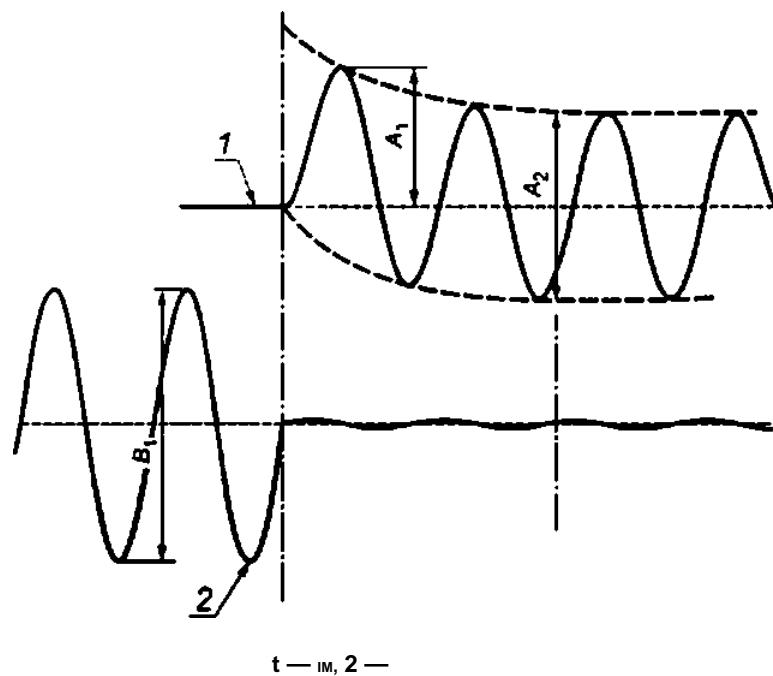
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RDC-DD

RDC-DD

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[9.11.2.1 j) 1)]

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## IEC 62955—2021

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IEC 61543:1995.

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<b>J<sup>e</sup>&gt;</b>	<b>3</b>	<b>2</b>	<b>3</b>
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		9.9.2.1. 9.9.2.2. 9.9.2.3. 9.9.2.4 9.9.3,	
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**RDC-DD**

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**RDC-DD**

RDC-DD

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9.16.  
.3.2 RDC-DD,  
(4.1), (4.3), (4.4) (4.5).

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Do	1	/		
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F	3	/	3	3 1
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G	3	/	3	3 1
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	3-	RDC-DD	
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	,	4-	RDC-DD.
9) RDC-DD.	3-	RDC-DD	4-
	4-	RDC-DD.	9.8

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IEC 60664-1  
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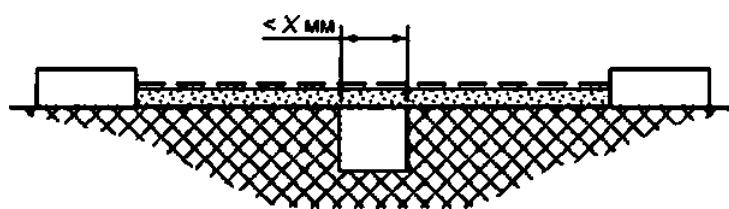
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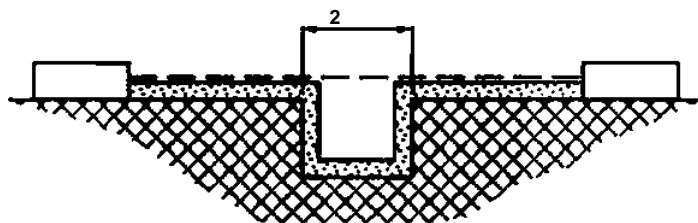
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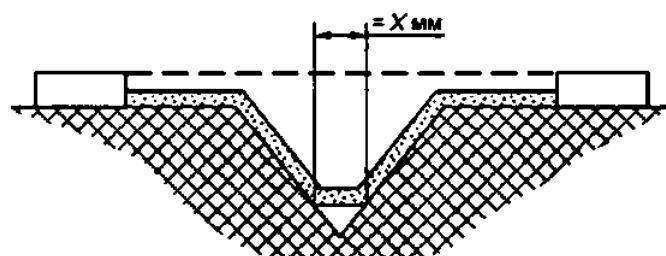
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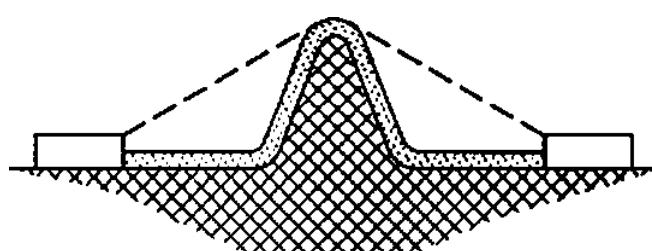
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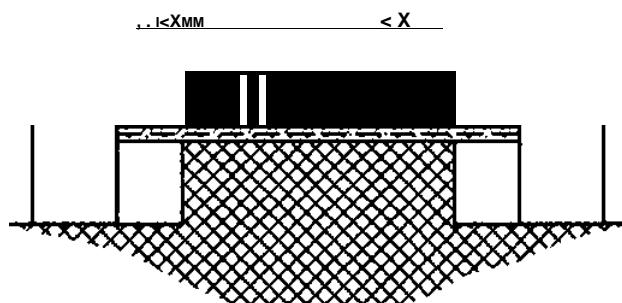
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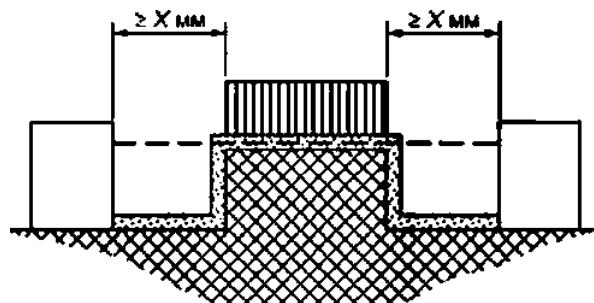
.1. 2

S



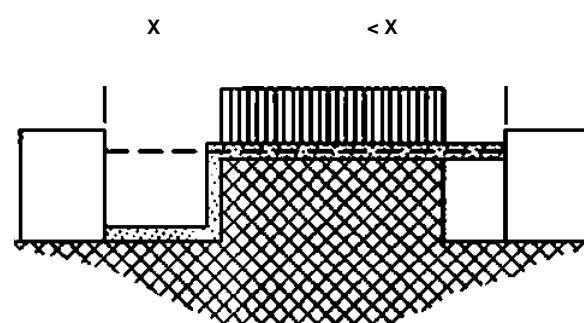
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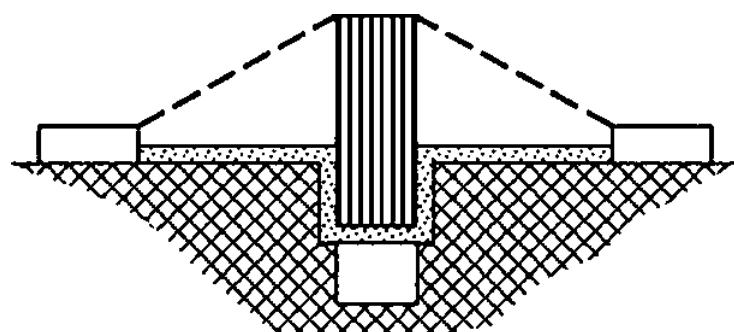


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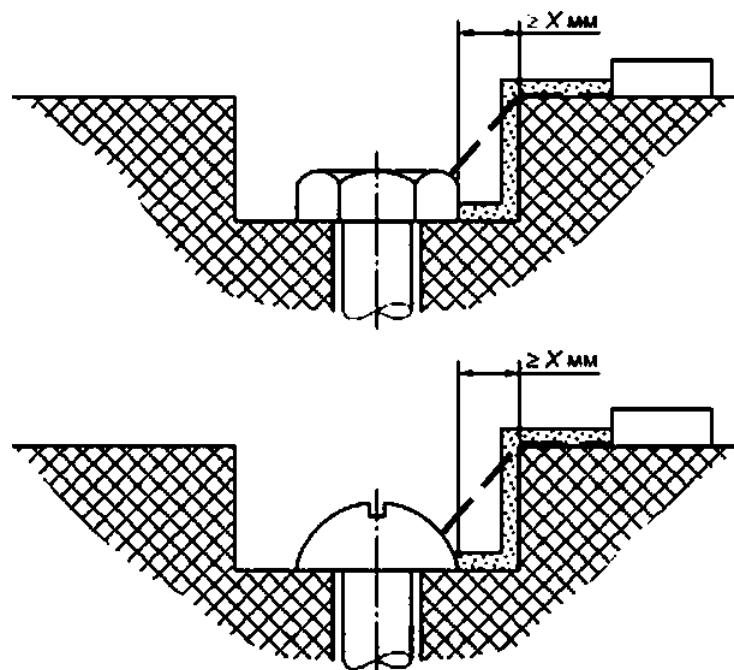
.1. 3

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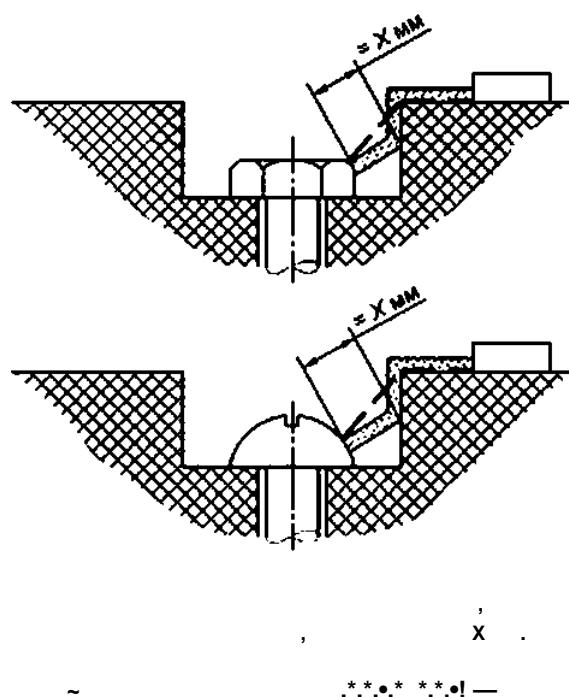


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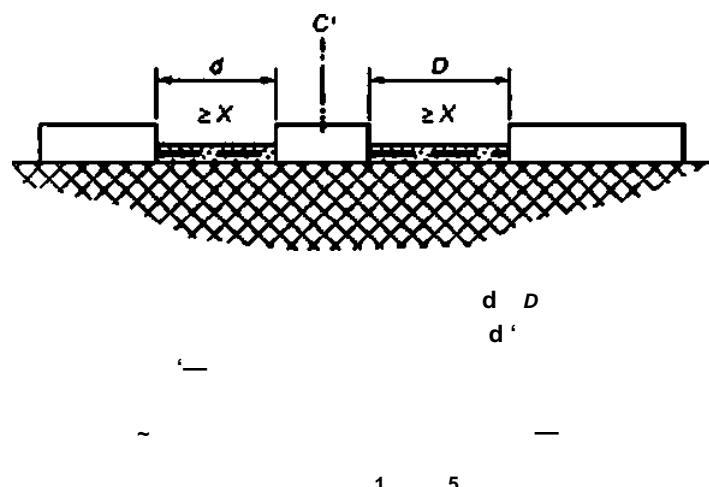
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(0,05 ± 0,01)

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$$23' \quad (0.92 \pm 0.05) / \quad 3; \\ - \qquad \qquad \qquad 110^* - 120' .$$

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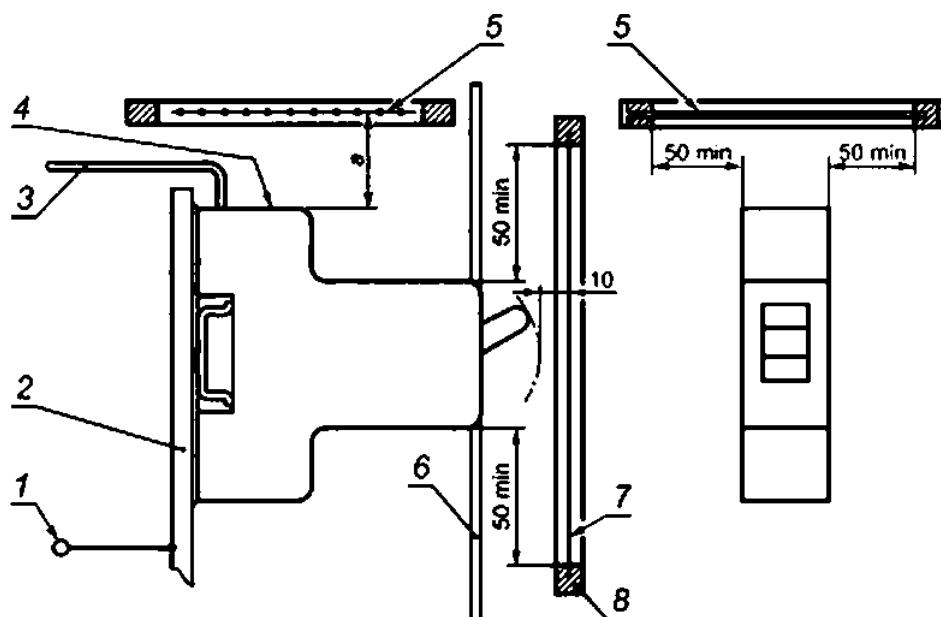
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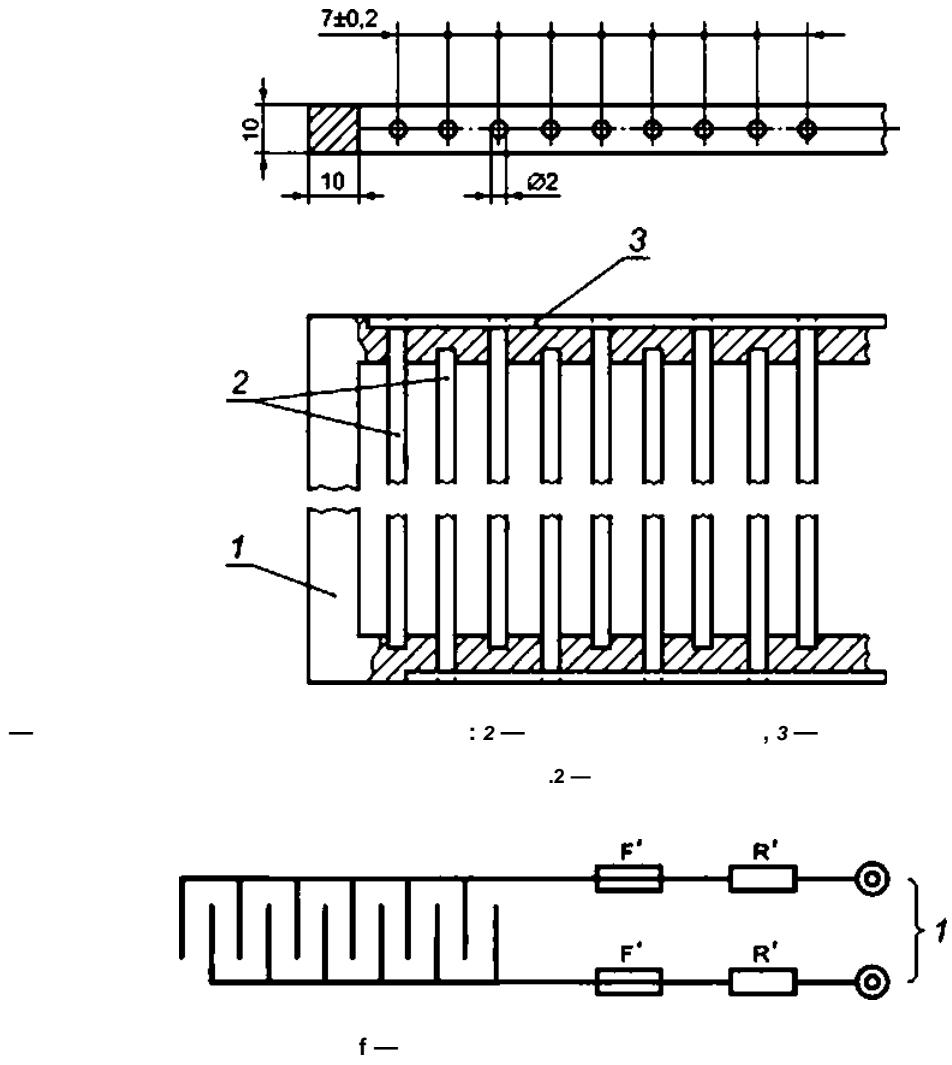
F'. 2 —

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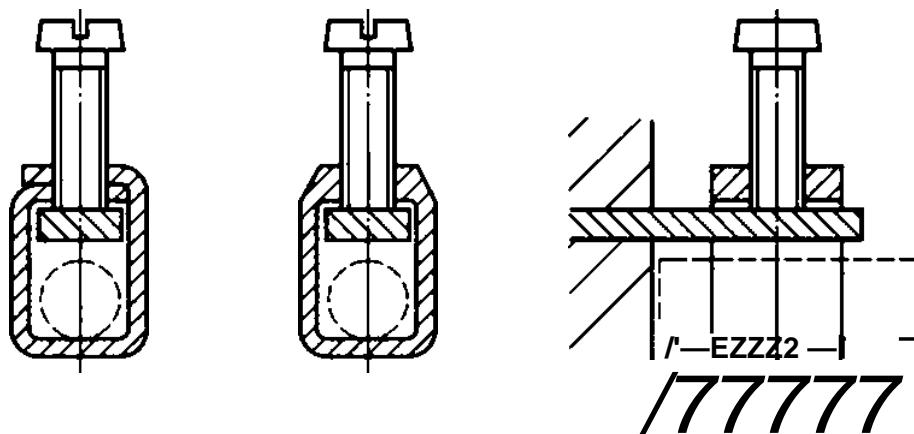
$I_d$  —  
 $i_{go}$  —  
 $LZR$  —  
 $t$  —  
 $\underline{\quad}$   
 $UR$   
 $)$   
 $)$   
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 $d)$   
 $f$   
 $\vdots$   
 $Rt/L.$   
 $I_d$   
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 $LIR.$   
 $i^{\wedge db-}$   
 $= \arctg wLIR.$

 $iv = 2nf. f =$ 

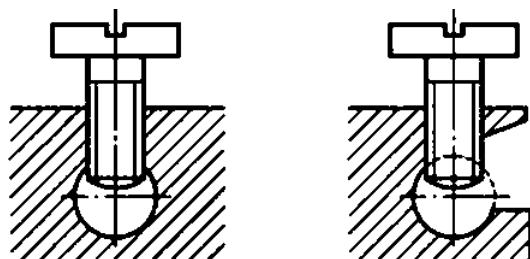
II.

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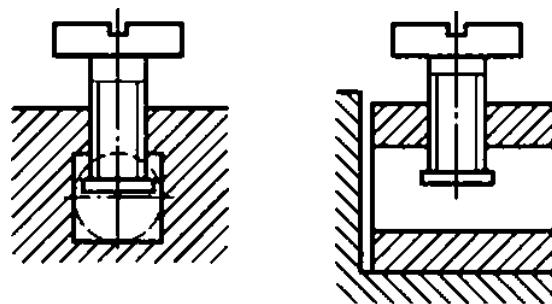
( . 8.1.5).



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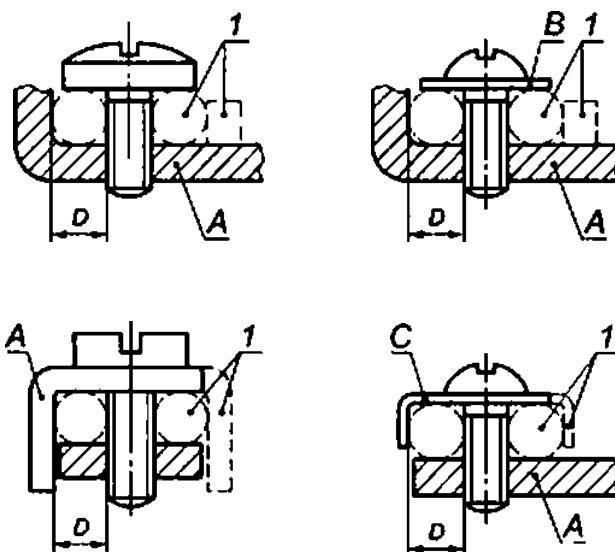


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F.1 —



F.2 —

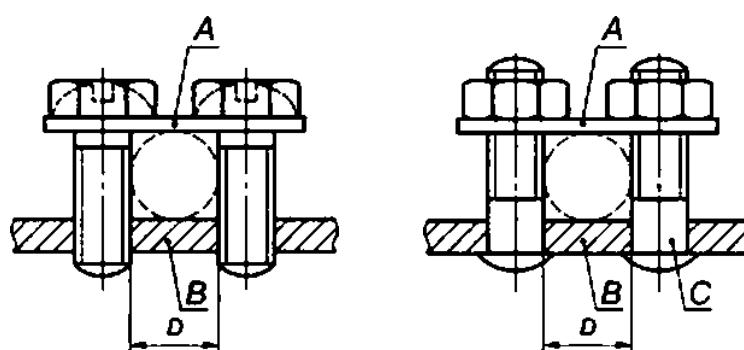


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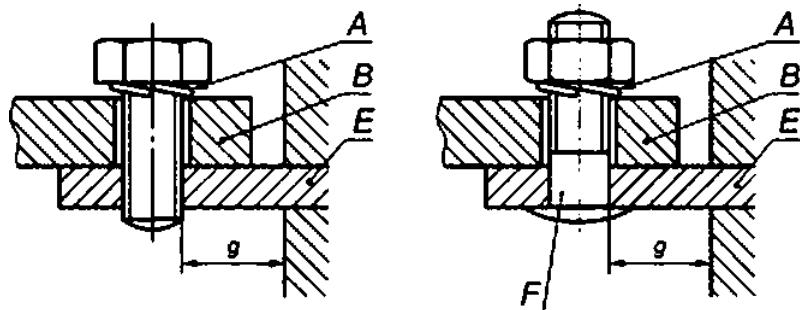
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F.5 —

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ISO AWG

tSO. 2	AWG	
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1.0	18	0,82
1.5	16	1.3
2.5	14	2.1
4.0	12	3.3
6.0	10	5.3
10.0	8	8.4
16.0	6	13.3
25.0	3	26.7
35.0	2	33.6
50.0	0	53.5

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	*1								
500	0.30	0.35	0.35	0.35	—	—	—	—	—
1000	0.30	0.35	0.40	0.50	—	—	—	—	—
1500	0.35	0.40	0.45	0.50	0.65	0.85	—	—	—
3000	0.35	0.40	0.45	0.50	0.60	0.80	0.95	1.05	1.15
4500	0.35	0.40	0.45	0.50	0.60	0.80	0.90	1.05	1.15
6000	0.35	0.40	0.45	0.50	0.60	0.75	0.90	0.95	1.00
10000	0.35	0.40	0.45	0.50	0.60	0.70	0.85	0.90	0.95

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RDC-DD

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RDC-OD

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1.3.1 (damping units): ,

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(screwless-type terminal): ,

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I.2.

I.3.3

(universal terminal): ,

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I.3.4

(non-universal terminal): ,

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I.3.5

(push-wire terminal): ,

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I.3.6

(unprepared conductor): ,

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RDC-OD

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RDC-DD.

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## 8.1.5.1 8.1.5.2 8.1.5.3 8.1.5.6 8.1.5.7

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182—187

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( $\dots$ ,  $\langle \dots \rangle$ ).

1.9.1 1.9.2.

18.3

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191 192

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1.0	1.2	1.4	1.0	1.5	18	1.02	1.16	18	1,28
1.5	1.5	1.7	1.5	1.8	16	1.29	1.46	16	1,60
2.5	1.9	2.2	2.5	2.3	14	1.63	1.84	14	2,08
4.0	2.4	2.7	4.0	2.9	12	2.05	2.32	12	2.70

**IEC 62955—2021****I.8.4****I.2.****I.2 —**

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13	>	13 20	»	»	1.0 1.5	»	2.5 4.0	»

**1.9.2 1.9.3.****1.8.5****1.8.8**

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**1.9.1 1.9.2.****I.8.7****1.9.4.****1.9****1.9.1**

9            9.4    9.5

**I.9.2****I.9.2.1****I.2.****1.8.2.****90\*****I.9.2.2****I.2.****1.8.2.****1.9.3****1.2.**

J.3.

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I.3 —

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1.5	40
2.5	50
4.0	60

I.9.4

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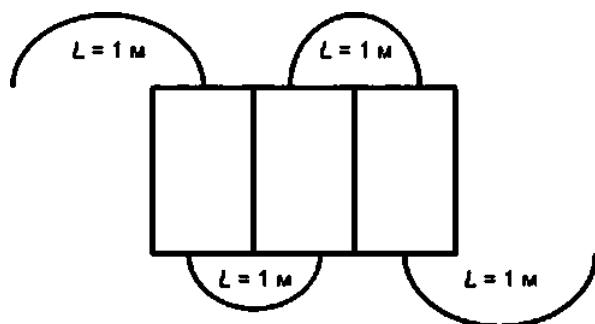
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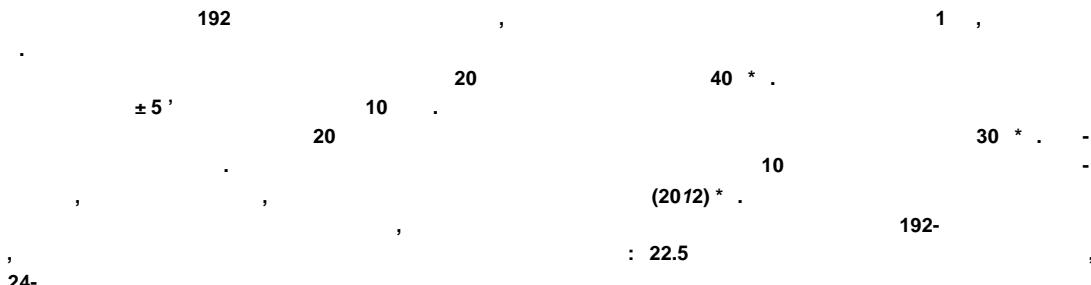
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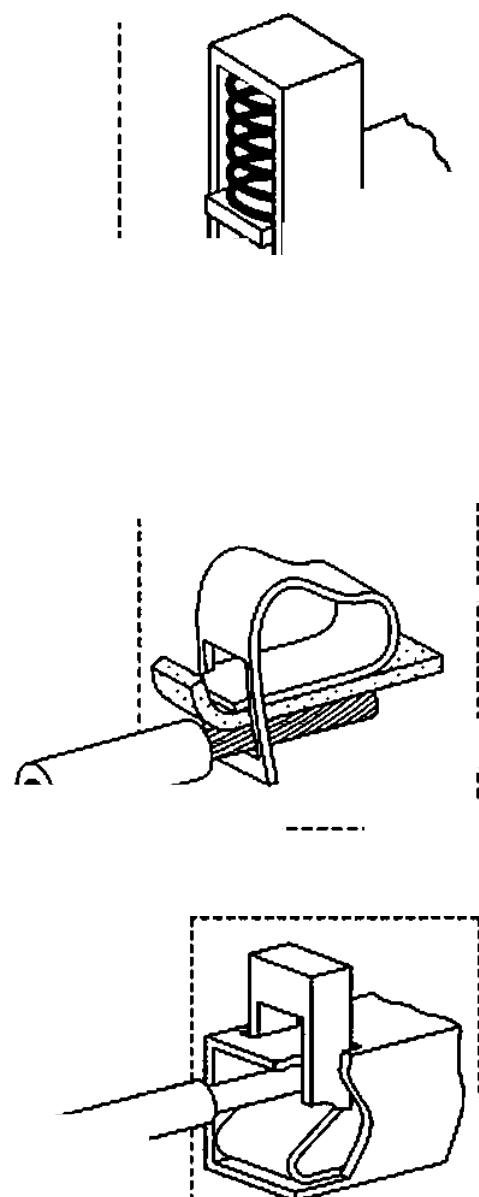
1.1 —

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I.2 —

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IEC 60228:2004, Conductors of insulated cables ( )

IEC 60998-1. Connecting devices for low-voltage circuits for household and similar purposes — Part 1: General requirements ( )

IEC 60998-2-2. Connecting devices (or low-voltage circuits for household and similar purposes— Part 2-2: Particular requirements (or connecting devices as separate entities with screwless-type clamping units ( 2-2.  
))

1 60999 (all parts). Connecting devices — Electrical copper conductors — Safety requirements for screw-type and screwless-type clamping units [ ( ) ]

ASTM 172-Ota. Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Members, for Electrical Conductors ( )

ICEAS-19-81/NEMA WC34 Rubber-insulated Wire and Cable ( )

ICEAS-68-516/NEMAWC84 Ethylene-Propylene-Rubber Insulated Wire and Cable' ( )

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(              )

**RDC-DD,**

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RDC-DD.

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( . J.3.2)

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4 2 ( AWG 12 )

RDC-DD

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3.2

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IEC 61210, Connecting devices — Flat quick-connect terminations for electrical copper conductors — Safety requirements ( )

J.3

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J.3.1 (Rat quick-connect termination): ,

J.3.2 (male tab): ,

J.3.3 (female connector): ,

J.3.4 (detent): ( ) ,

J.4

4.

J.5

5.

J.6

6).

IEC 61210

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J.1 —

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1.5	
2.5	
4.0	

J.7

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J.8

J.8.1

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8.1.3

J.8.2

8.1.3

8.1.5

J.8.3

J.8.3.1

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J.8.3.2

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RDC-DO.

J.2—J.5.

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J.3

J.6

J.4.

J.8.3.3

J.9.2.

J.9

J.9.1

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9.5

J.9.2

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RDC-DD,

J.2.

RDC-DD

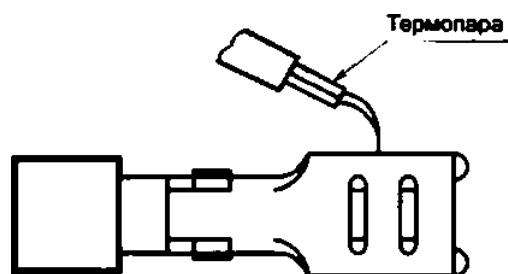
J.2 —

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RDC-DD.

9.8.3:

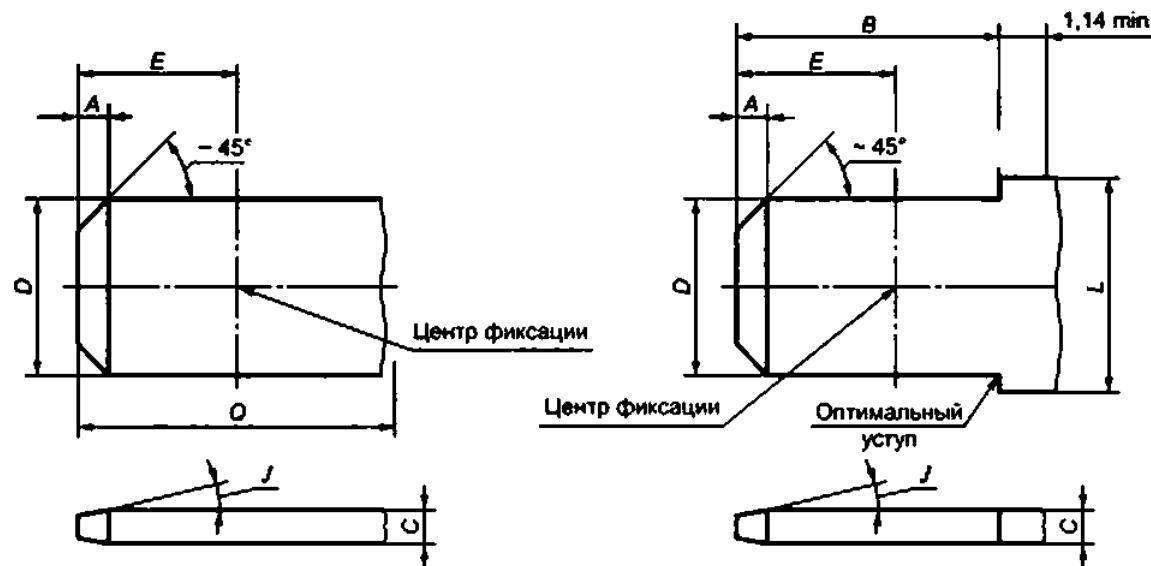
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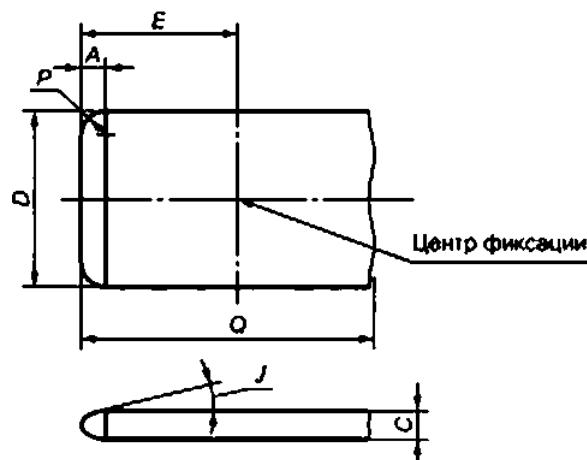
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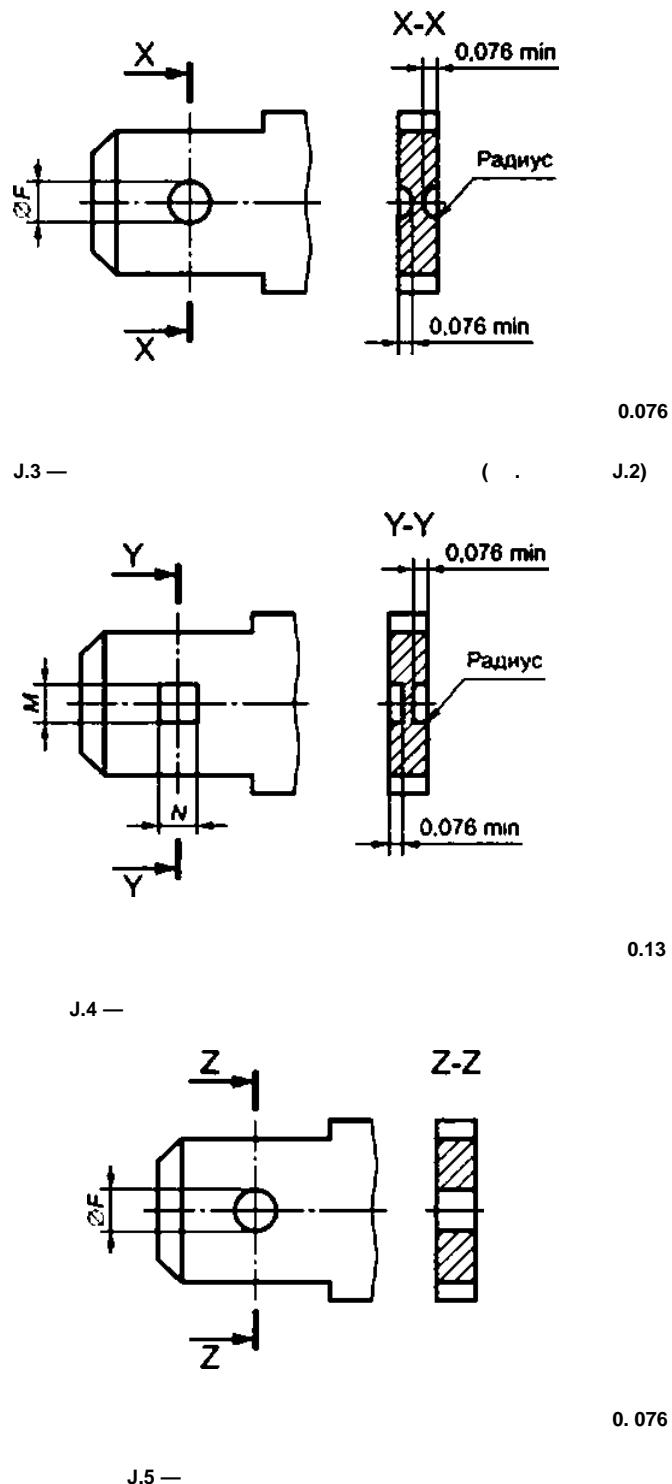


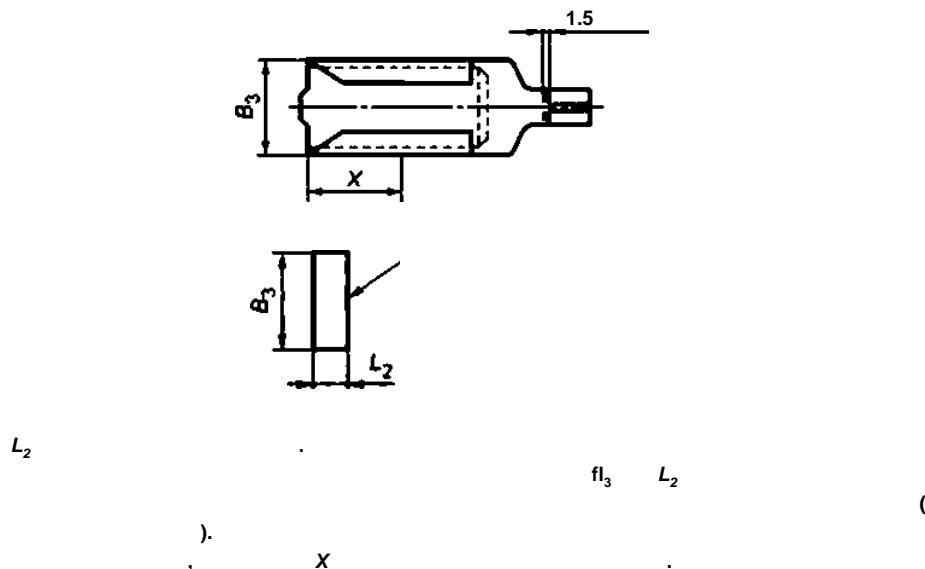
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IEC 61210. Connecting devices — Flat quick-connect terminations for electrical copper conductors — Safety requirements ( ).



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100 125	25.0 70.0

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2.5	1.9	2.2	2.5	2.3 )	14	1.71	1.95	14	2.08
4.0	2.4	2.7	4.0	2.9 )	12	2.15	2.45	12	2.70
6.0	2.9	3.3	4.0	2.9 )	10	2.72	3.09		
10.0	3.7	4.2	6.0	3.9	8	3.43	3.89	10	3.36
16.0	4.6	5.3	10.0	5.1	6	4.32	4.91	8	4.32
25.0		6.6	16.0	6.3	4	5.45	6.18	6	5.73
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## IEC 62955—2021

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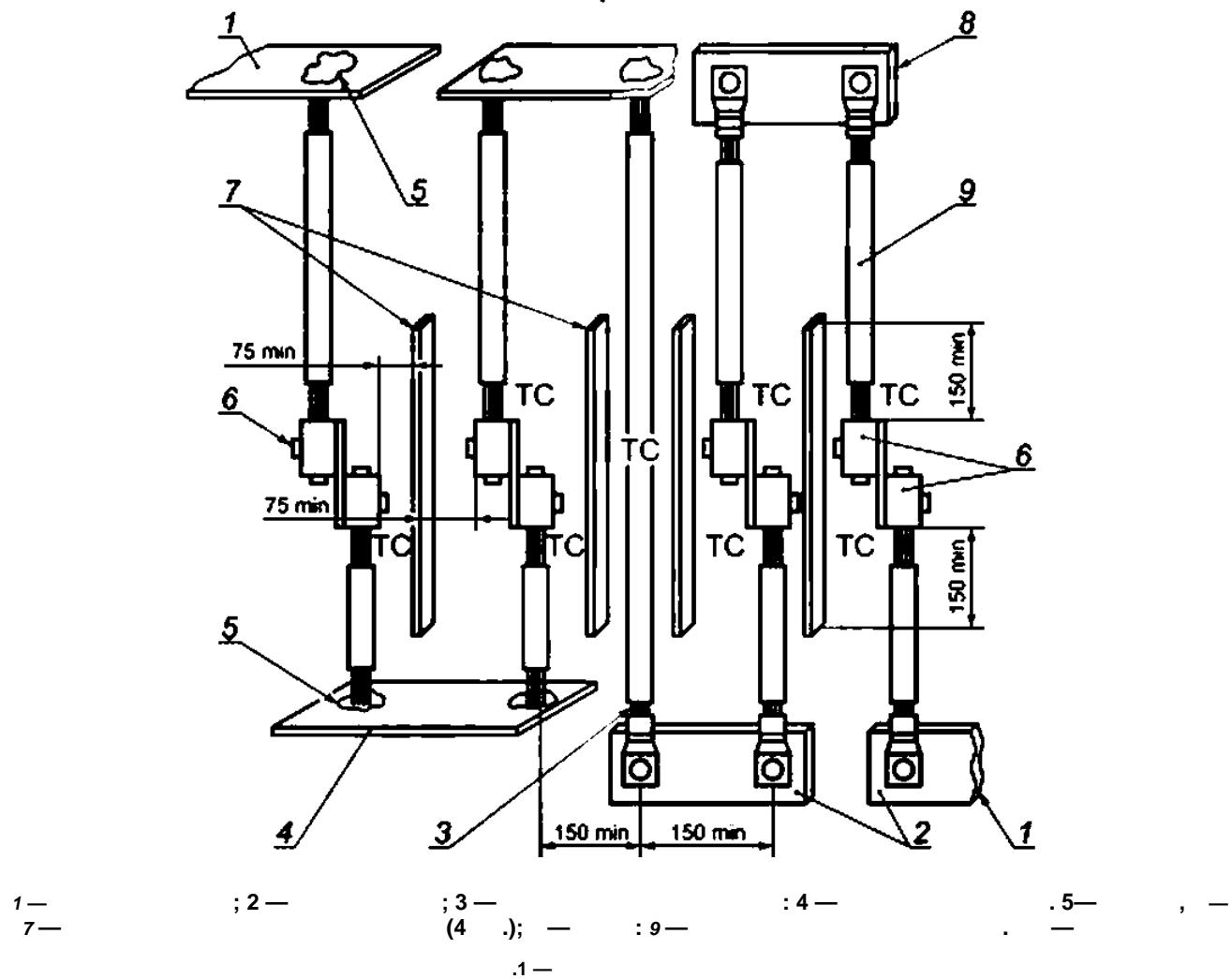
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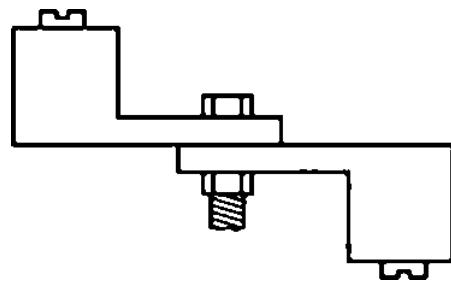
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65 < I <sub>a</sub> S 80	35.0	137	75</ <sub>f</sub> S90	2	123
80</ <sub>n</sub> S100	50.0	171	90</ <sub>f</sub> S100	1	152
100 < I <sub>a</sub> S 125	70.0	190	100</ <sub>f</sub> S120	0	190

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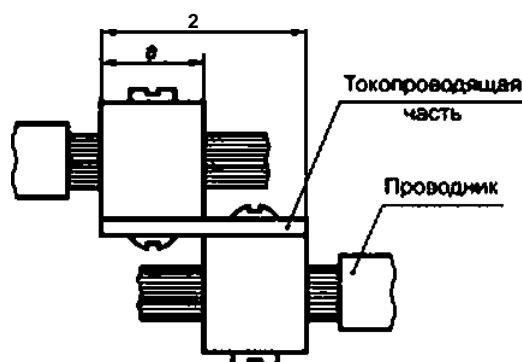
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		.	.		
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5	125	77	77	0	-0,82
6	175	78	77	1	0,18
7	225	79	76	3	2,18
8	275	78	76	2	1,18
9	350	77	78	-1	-1,82
10	425	77	79	-2	-2,82
11	500	81	78	3	2,18

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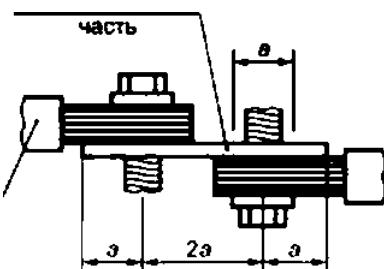




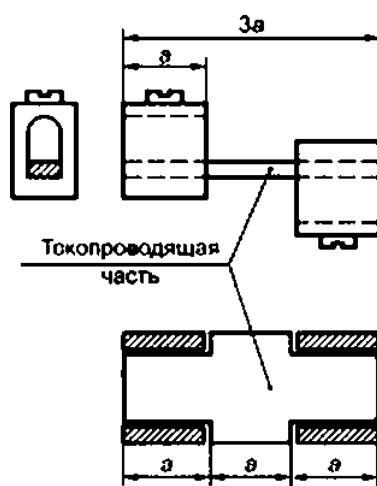
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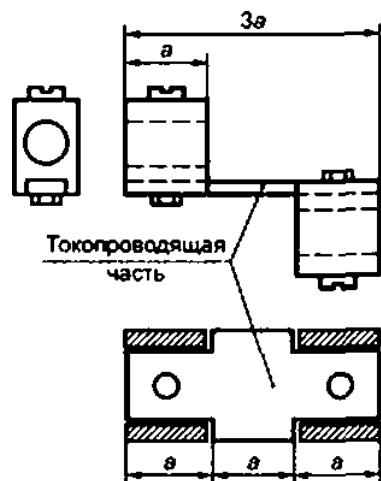
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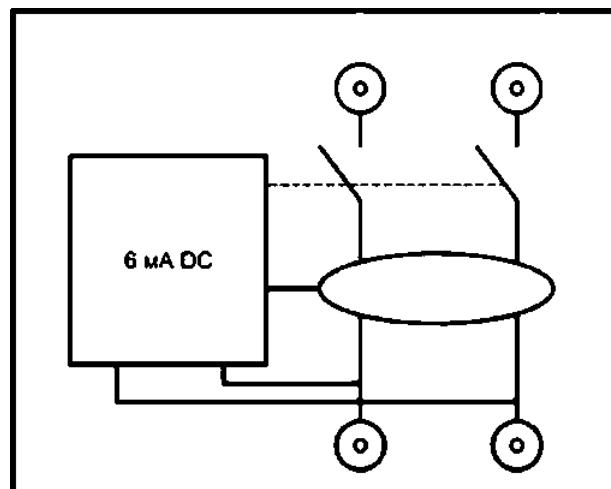


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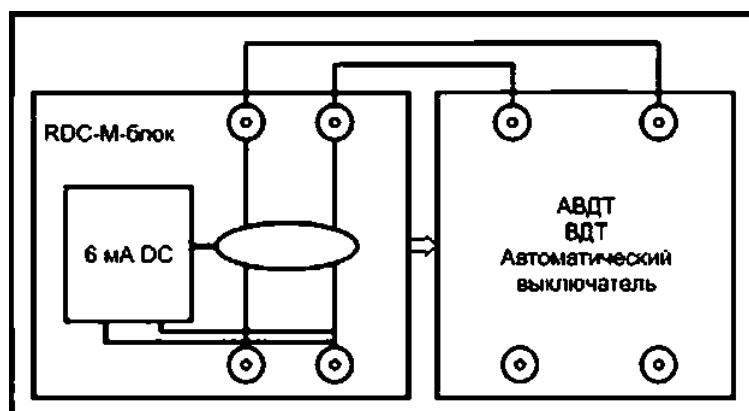
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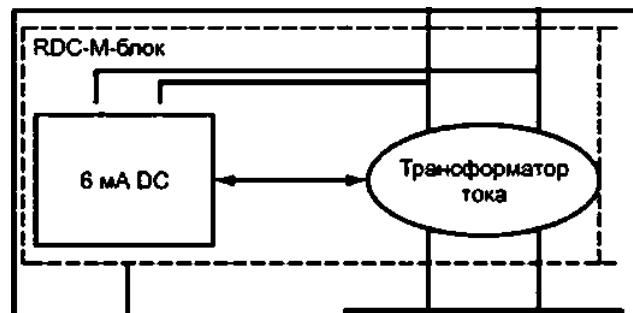
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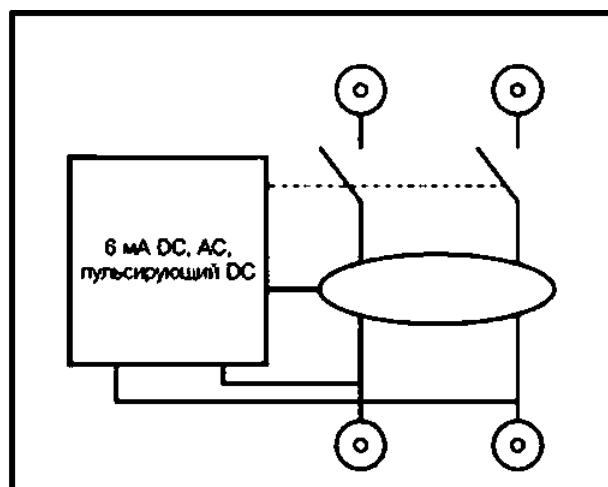


Рисунок L.4 — Устройство RDC-PD согласно классификации 4.1.2





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5 IEC 60896-1:2015

61 61008-1:2013,

6 IEC 61009-1:2010.

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**IEC 62955—2021****0.8.2****.8.2.1****0.1.****0.1 —**

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! 60068-2-30:2005	—	».)
IEC 60068-3-4	NEQ	28214-89 ( 68-2-28—81) « 2. »
IEC 60112	MOD	27473-87 ( 112—79) « »
IEC 60228:2004	MOD	22483—2012 (IEC 60228:2004) « ».
IEC 60364 ( )	MOD	30331.9—95 « . 4. ». 30331.6—95 « . 4. ». 30331.4—95 « . 4. ». 30331.7—95 « . 4. ». 30331.5—95 « . 4. »; 30331.1—2013 « . 1. ».
IEC 60529	IDT	14254—2015 (IEC 60529:2013) « , ( IP)»
IEC 60664-1:2007	—	•2)
IEC 60664-3	IDT	IEC 60664-3—2015 « 3. ».
IEC 60695-2-10	—	•3)
IEC 60898-1:2015	—	• 41

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**IEC 62955—2021**

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<b>IEC 61008-1:2010</b>		<b>IEC 61008-1—2012<sup>1)</sup> «</b> 1. »
<b>IEC 61009-1:2010</b>	—	<b>*.2)</b>
<b>IEC 61543:1995</b>	—	<b>*.3)</b>
<b>CJS PR 14-1</b>		<b>CISPR 14-1—2015 «</b> 1. »
<ul style="list-style-type: none"> <li>• —</li> <li>• —</li> <li>- MOD — ;</li> <li>• NEQ —</li> </ul>		

- ) IEC 61008-1—2020. IEC 61008-1:2013.  
 2) IEC 61009-1—2020. IEC 61009-1:2013.  
 3) 51329—2013 ( 61543:1995)  
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IEC 60038	IEC standard voltages { )
IEC 60050-441:1984	International Electrotechnical Vocabulary — Chapter 441. Switchgear, controlgear and fuses ( 441. )
IEC 60060-1:1989	High-voltage test techniques — Part 1: General definitions and test requirements ( 1. )
IEC 60060-2:1994	High-voltage test techniques — Part 2: Measuring systems ( 2. )
IEC 60269-1:2006	Low-voltage fuses — Part 1: General requirements ( 1. )
IEC 60364-4-44:2007	Low-voltage electrical installations — Part 4-44: Protection for safety — Protection against voltage disturbances and electromagnetic disturbances ( 4-44. )
IEC 60364-5-53:2001	Electrical installations of buildings — Part 5-53: Selection and erection of electrical equipment — isolation, switching and control ( 5-53. )
IEC 60364-7-722	Low-voltage electrical installations — Part 7-722: Requirements for special installations or locations — Supplies for electric vehicles ( 7-722. )
IEC 60417	Graphical symbols for use on equipment ( )
IEC 60695-2-11:2000	Fire hazard testing — Part 2-11: Glowing/hot-wire based test methods — Glow-wire flammability test method for end-products (GWEPT) ( 2-11. )
IEC/TR 60755:2008	General requirements for residual current operated protective devices [ ( ) ]
IEC 60884-1	Plugs and socket-outlets for household and similar purposes — Part 1: General requirements ( )
IEC 60947-1:2007	Low-voltage switchgear and controlgear — Part 1: General rules ( 1. )
IEC 62640	Residual current devices with or without overcurrent protection for socket-outlets for household and similar uses ( )
ISO 17409:2015	Electrically propelled road vehicles — Connection to an external electric power supply — Safety requirements ( )
ASTM D785-08	Standard Test Method (or Rockwell Hardness of Plastics and Electrical Insulating Materials ( )

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