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INTERSTATE COUNCIL FOR STANDARDIZATION, METROLOGY AND CERTIFICATION
(ISC)

IEC 62019-
2016

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(IEC 62019:2003,)



2017

IEC 62019—2016

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5 IEC 62019:2003 « -
 » («Electrical accessories — Circuit-breakers and similar equipment for household use — Auxiliary contact units», IDT). -

IEC 62019:2003 -
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 (IEC). -

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 16 « 2011 . Ne 004/2011. », -

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IEC 62019—2016

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in

IEC 62019—2016

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Electrical accessories. Circuit-breakers and similar equipment for household use.
Auxiliary contact units

— 2018—07—01

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IEC 60947-5-4.

- a)
- b)
 - 1)
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- c)
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IEC 60050(441):1984, International Electrotechnical Vocabulary (IEV) — Chapter 441: Switchgear, controlgear and fuses (441.
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IEC 62019—2016

IEC 60065:19984 Audio, video and similar apparatus — Safety requirements (*; -)

IEC 60112:19794 Method for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions (-)

IEC 60249-2 (). Base materials for printed circuits — Part 2: Specifications (- 2.)

IEC 60384-14:19934 Fixed capacitors for uses in electronic equipment—Part 14. Sectional specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains (14.)

IEC 60617 (all parts). Graphical symbols for diagrams ()

IEC 60664-3:19924 Insulation coordination for equipment within low-voltage systems — Part 3: Use of coating to achieve insulation coordination of printed board assemblies (- 3.)

IEC 60898:19954 Electrical accessories — Circuit-breakers for overcurrent protection for household and similar installations ()

IEC 60998-2-2:19916: Connecting devices for low voltage circuits for household and similar purposes — Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units (- 2*2.)

IEC 60947-5-1:1997⁷i. Low-voltage switchgear and controlgear — Part 5: Control circuit devices and switching elements — Section one: Electromechanical control circuit devices (- 5.)

IEC 60947-5-4:19964 Low-voltage switchgear and controlgear — Part 5: Control circuit devices and switching elements — Section 4: Methods of assessing the performance of low-energy contacts. Special tests (- 5-4.)

IEC 61008-1:1996⁹. Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) — Part 1: General rules (- 1.)

" IEC 60065:2014. , , -

2> IEC 60112:2009. , ,

IEC 60384-14:2016. , ,

4> IEC 60664-3:2010. , ,

IEC 60898-1:2015. , ,

IEC 60996-2-2:2002. , ,

7> IEC 60947-5-1:2016. , ,

IEC 60947-5-4:2002. , ,

•* IEC 61006-1:2013. , ,

IEC 61009-1:1996¹⁾. Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) — Part 1: General rules ()

IEC 61210:1993⁴ Connecting devices — Flat quick-connect terminations for electrical copper conductors — Safety requirements ()

ISO 306:1994⁴ Plastics — Thermoplastic materials — Determination of Vicat softening temperature (VST) ()

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3.1

(auxiliary contact):

(IEC60050-441).

3.2

(auxiliary contact unit):

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(contact element (of an auxiliary contact]):

60050-441,

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(mini-gap contact element):

1.2 1 2.

3.5

(normal gap contact element):

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(1. 5.4);

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(4);

¹⁾ IEC 61009-1:2013.

²⁾ IEC 61210:2010.

³⁾ ISO 306:2013.

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IEC 60947-5-1).			
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	-12 DC-13 DC-14	

5.5 — (. IEC 60050-441)
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- a) :
 - b) , :
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 - e) () (/); , 1000 ;
 - h) () (. 5.2.3), 50/60 ;
 - i) - , ;
 - j) , ;

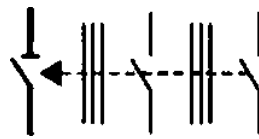
IEC 62019—2016

k) , IP 20;
 l) , () .

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6.2

IEC 60445.



6.3

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- a) IEC 60896 (7) ;
- b) IEC 61008-1 (7) ,
- c) IEC 61009-1 (7) () ;
- () .

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8.1

8.1.1 ,

- a) IEC 60898 (8.1.4) ;
- b) IEC 61008-1 (8.1.4) ,
- c) IEC 61009-1 (8.1.4) () ;
- () .

8.1.2

- a) IEC 60898 (8.1.5) ;

IEC 62019—2016

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IEC 60112.

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- a) IEC 60898 (8.4) ;
- b) IEC61008-1 (8.4) .
- c) IEC 61009-1 (8.4) .

(.3.1 (60898).

9.3.3.

8.2.2

- a) IEC 60898 (8.3) ;
- b) IEC 61008*1 (8.3) ;
- c) IEC61009-1 (8.3) .

9.3.4.

8.2.3

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9.3.6.

8.2.4

9.3.7.

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8.4

9.3.5.

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no IEC 61867.

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9.1.1

9.1.2

IEC 60898 (.3.1) IEC 61008*1 (.3.1). IEC 61009-1 (.3.1).

a) (.9.3.3);

b) (.9.3.4);

c) (.9.3.6.3);

d) (.9.3.6.4);

e) (.9.3.7);

f) (.9.2).

9.2

a)

b)

IEC 62019—2016

- c) ;
- d) 50 , 10 ;
- e) ;
- f) , 75 ;
- 960 * ;
- 850 * *

- IEC 60898 (9.3—9.6.9.13—9.15)
- IEC 61008-1 (9.3—9.6.9.12—9.14)
- IEC61009-1 (9.3—9.6.9.13—9.15)

9.3
9.3.1
9.3.1.1

- a) (1):
 - 1) (. 9.3.3);
 - 2) (. 9.3.4);
 - 3) (. 9.2);
- b) (2):
 - 1) (. 9.3.6.4 9.3.6.5);
- c) (3):
 - 1) (. 9.3.6.3 9.3.6.5).

- d) (4.5 6):
 - 1) (. 9.3.7);
 -) (7): (. 9.3.5).

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9.3.2

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9.3.3

1 (. 5.2.2).

- a) IEC 60898 (9.8) ;
- b) IEC 61008-1 (9.8) ;
- c) IEC61009-1 (9.8) .

9.3.4

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- a) IEC 60898 (8.1.2.9.10.1.1 9.10.2) ()
- b) IEC 61008-1(9.9.2.1 9.15) ;
- c) IEC 61009-1 (9.9.1.2) 9.11)

9.3.6

IEC 60947-5-1.

9.3.6.1

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IEC 62019—2016

- b) : -0.05;
 - c) : ±5 % ();
 - d) : ±5%;
 - e) : +15%.
- 9.3.6.2

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-12	1	1	0.90	1	1	0.90	4000	4 2 ⁴¹	2
-13	2	1	0.65	1	1	0.65	4000	4 2 ⁴¹	0.05 (2)* ¹
-14	6	1	0.30	1	1	0.30	4000	4 2 ⁴¹	0.05 (2)* ¹
-15	10	1	0.30	1	1	0.30	4000	4 2 ⁴¹	0.05 (2) ^{3'}
DC	W.	U _{AJ} ,	„	,	/.			51	,
-12	1	1	1	1	1	1	4000	4 2 ⁴¹	2
DC-13	1	1	6 ^	1	1		4000	4 2 ⁴¹	2
DC-14	10	1	15	1	1	15	4000	4 2 ⁴¹	0.05 (2)* ¹

I_1 — ; U_1 — 95 %

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	U/U.	Cos		/				21,	
-12									
-13	10	1.1	0.65	1.1	1.1	0.65	10	4 2 ^{4>}	0.04 0.2 (2) ^{JI}
-14	6	1.1	0.70	6	1.1	0.70	10	4 2"	0.04 0.2 ⁴¹
-15	10	1.1	0.30	10	1,1	0.30	10	4 2"	0.04 0.2"
DC-12									
DC-13	1.1	1.1	6	i.i	1.1	6 "	10	4 2"	0.3)
-14	10	1.1	15	10	1.1	15	10	4 2"	» 0.2 ^{SI}

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9.3.7.2

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IEC 60249-2,

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IEC 62019—2016

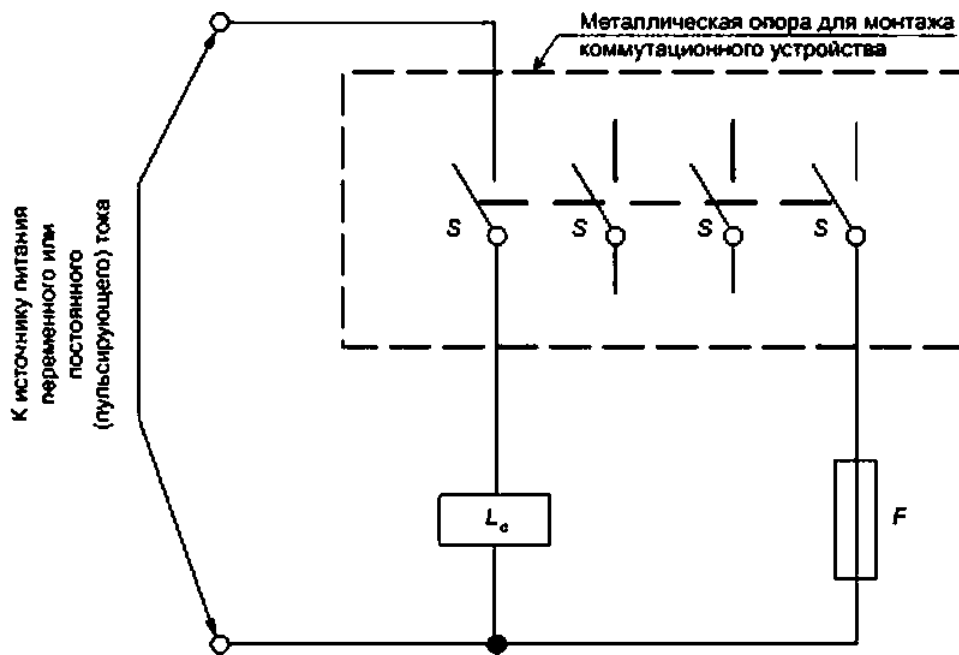
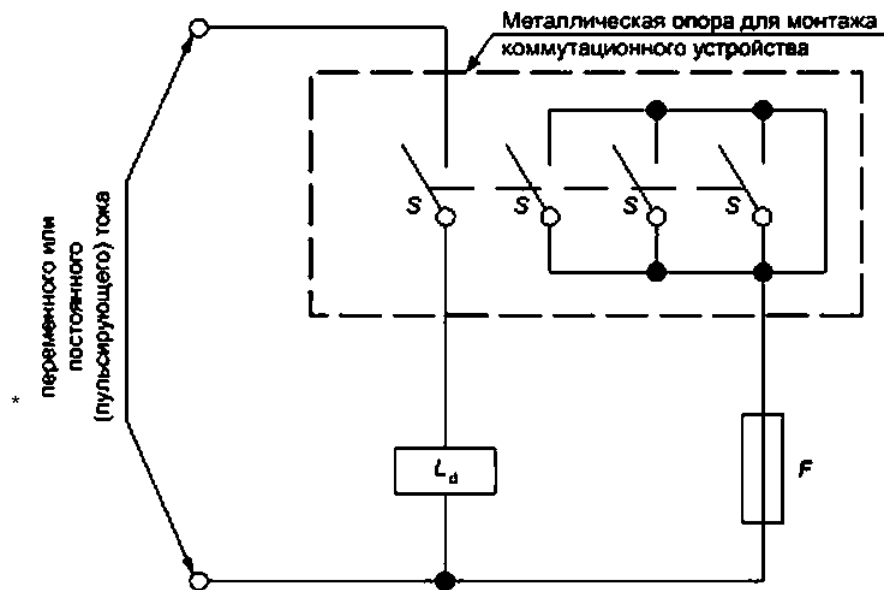


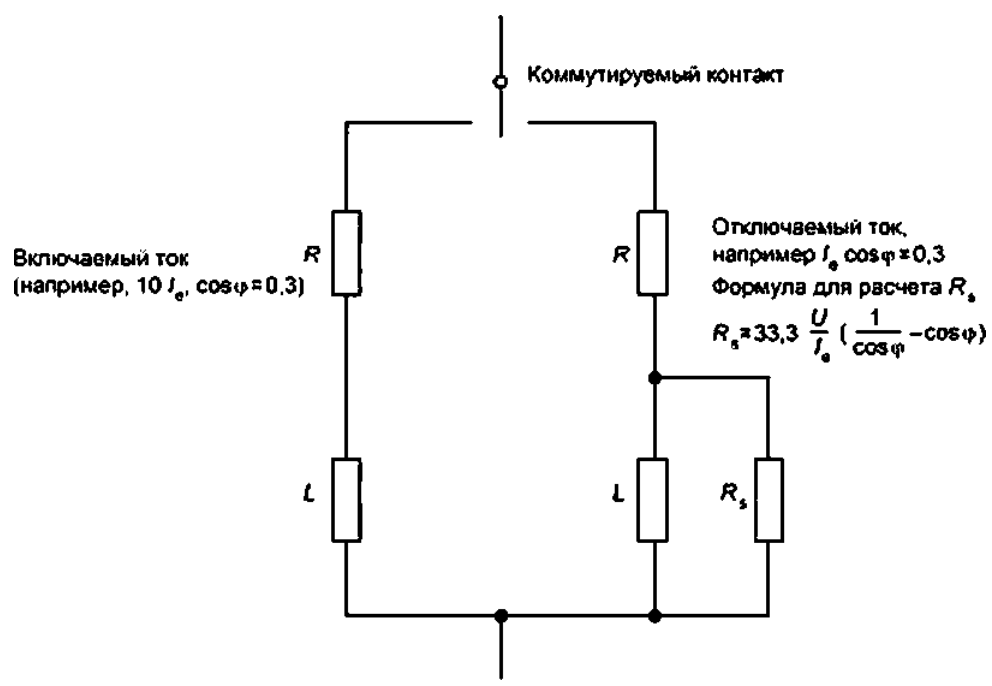
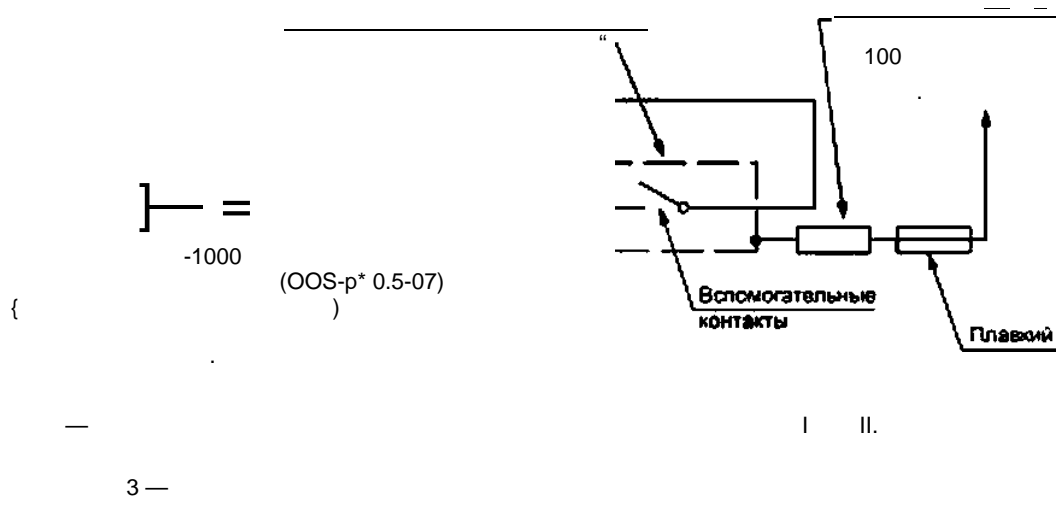
Рисунок 2а — Контактные элементы одинаковой полярности, электрически не разделенные



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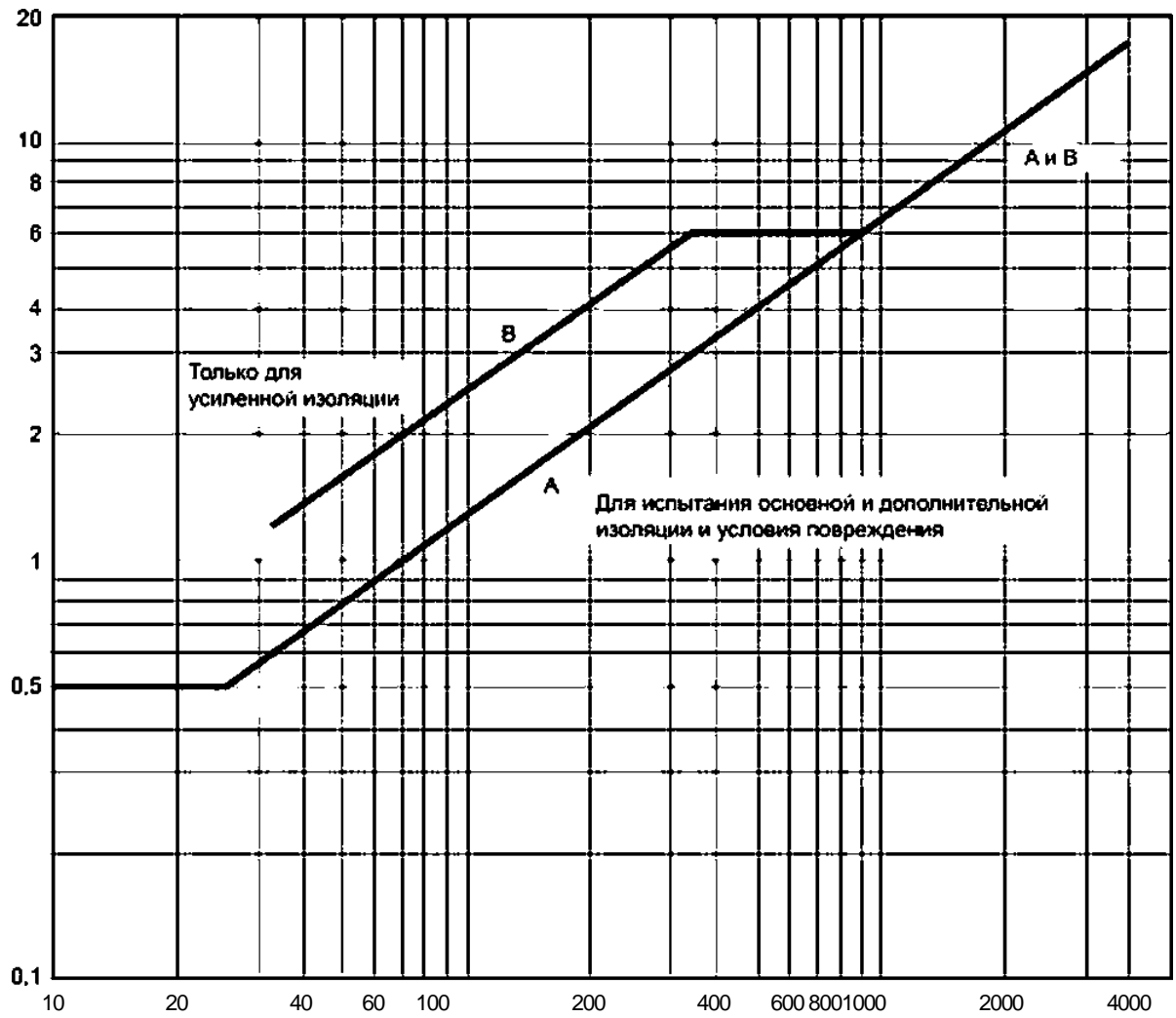


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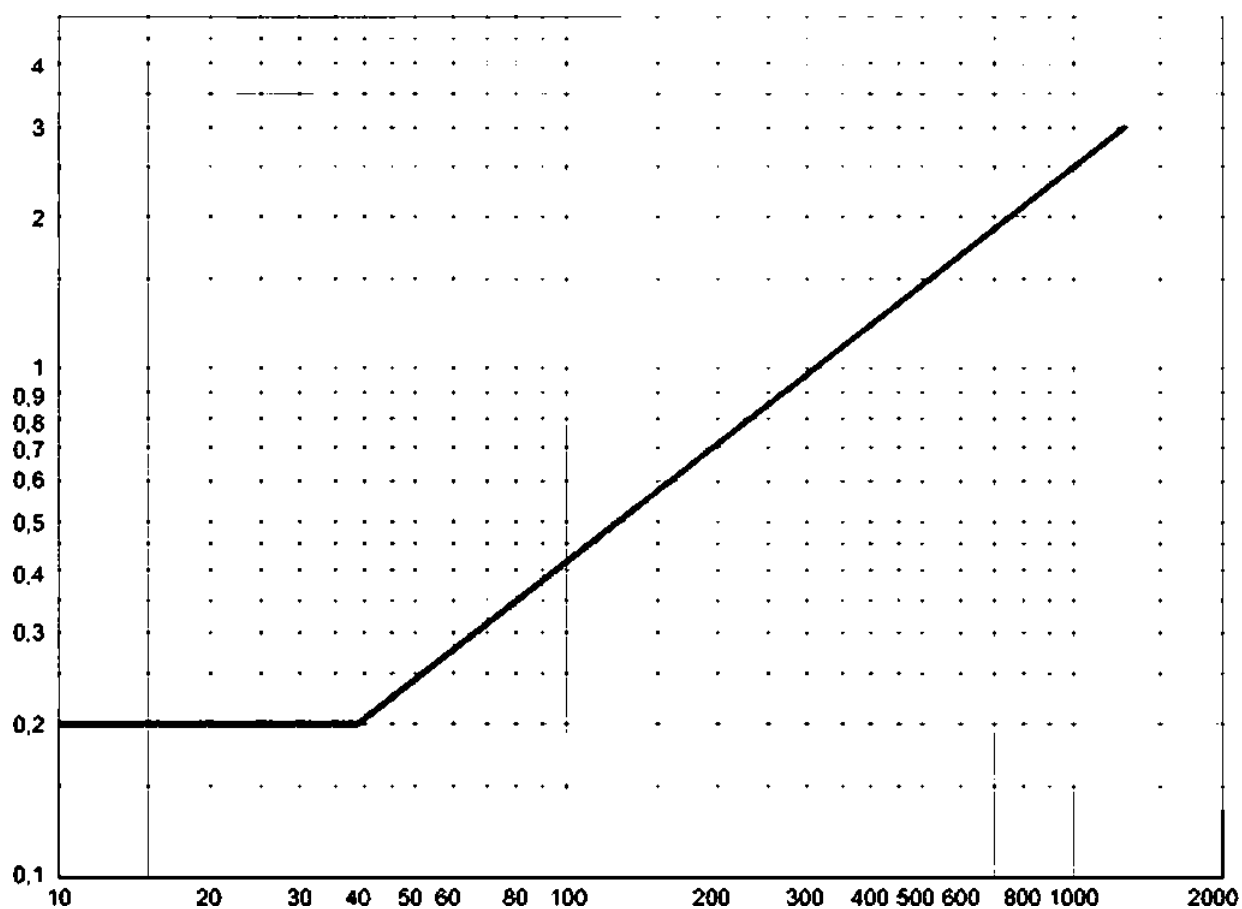
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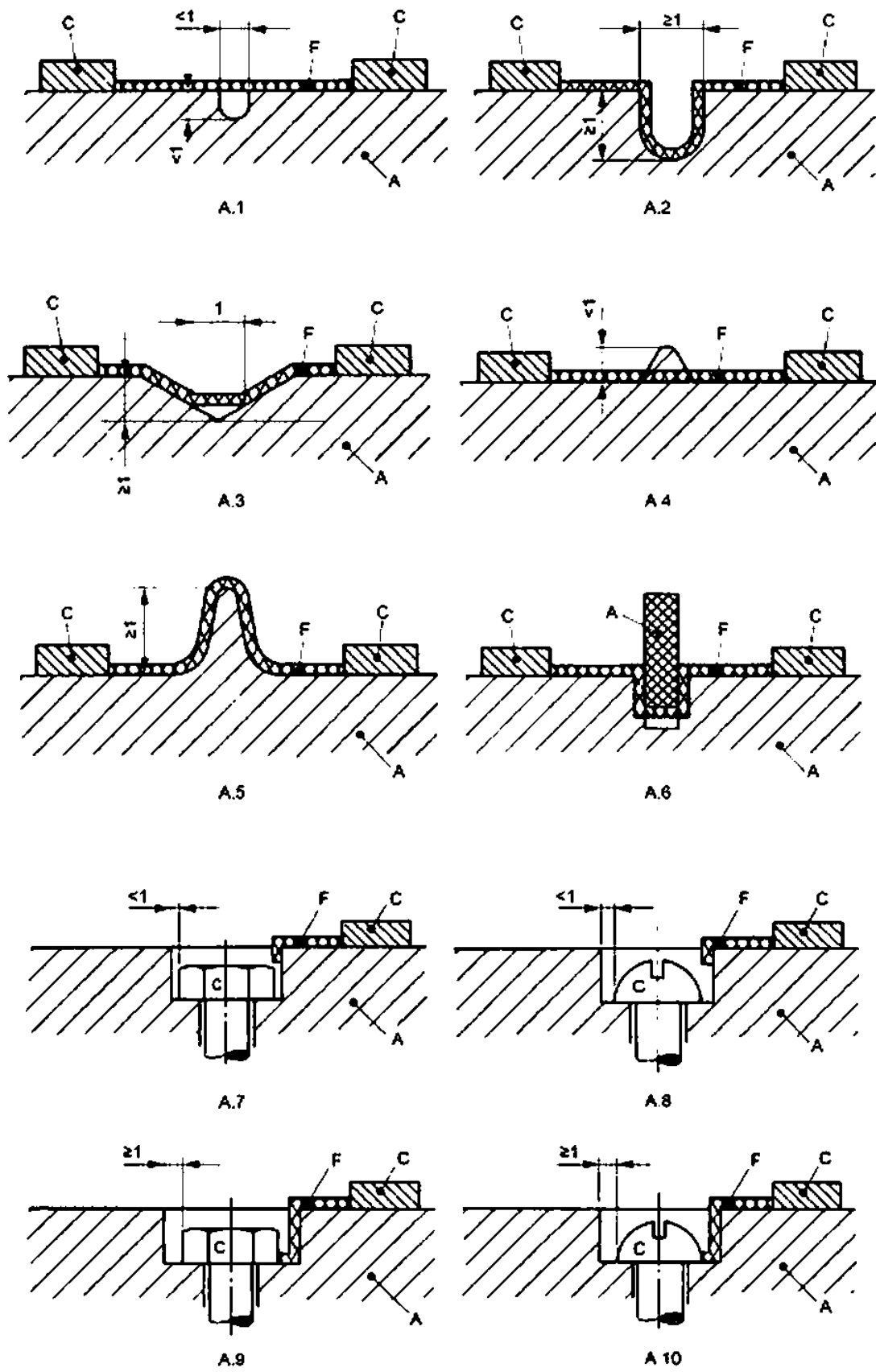
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Рисунки А.1—А.10 — Примеры определения расстояний утечки

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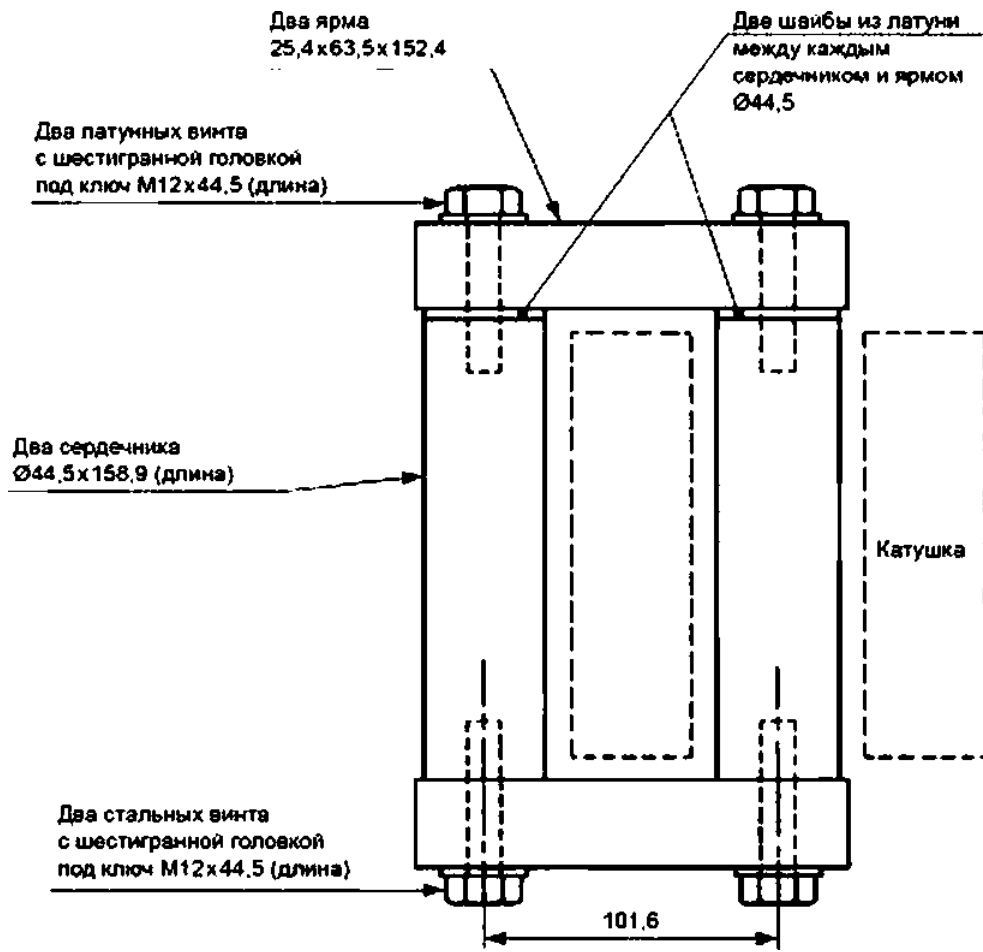
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	0_s					
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-15	6.0		—	—	7200	720
-15	6.0	3.00	—	—	7200	720
-15	6.0	3.00	1.90	1.64	7200	720
-15	3.0	—	—	—	3600	360
-15	3.0	1.50	—	—	3600	360
-15	3.0	1.50	0.9S	0.82	3600	360
-15	1.5	—	—	—	1800	180
-15	1.5	0.75	—	—	1800	180
-15	1.5	0.75	0.47	0.41	1800	180
-14	0.6	—	—	—	432	72
-14	0.6	0.3	—	—	432	72
-14	0.3	—	—	—	216	36
—	U_s				—	—
—	125 6	250	—	—	—	—
-13	2.20	—	—	—	275	275
DC-13	2.20	1.10	—	—	275	275
DC-13	1.10	—	—	—	138	138
DC-13	1.10	0.55	—	—	138	138
DC-13	0.55	—	—	—	69	69
-13	0.55	0.27	—	—	69	69
-13	0.22		—	—	26	28
-13	0.22	0.10	—	—	28	28

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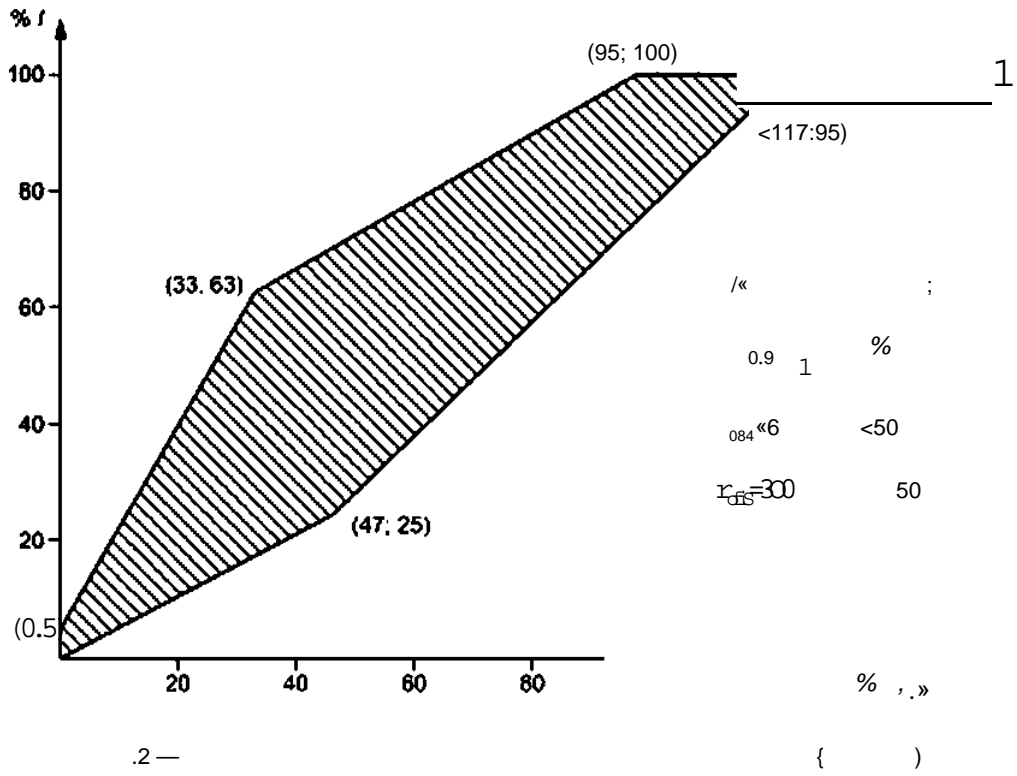
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125	7000	0.52	74	1.10	138
250	14000	0.26	295	0.55	138
600	33400	0.10	1680	0.20	120



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IEC 60050-441:1984		441: « - »
IEC 60085:1998		IEC 60065—2013 « -, - »
IEC 60112:1979		27473—87 « »
IEC 60249-2 ()	MOD	26246 () -
IEC 60384-14:1993		« 14: : - » -
IEC 60617 ()	-	•
IEC 60664-3:1992		« 3. » -
IEC 60898:1995		30325—1995 « »* -
IEC 60998-2-2:1991		IEC 60998-2-2—2013 « 2-2. » -
IEC 60947-5-1:1997		IEC 60947-S-1—2014 « 5-1. »
IEC 60947-5-4:1996		IEC 60947-5-4—2014 « 5-4. » -
IEC 61008-1:1996		IEC 61008-1—2012 « 1. »

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IEC 61009-1:1996		IEC 61009-1—2014 « », » 1.
IEC 61210:1993		IEC 61210—2011 « »
ISO 306:1994	MOD	15088—2014 « »
<p>* — • — • MOD —</p>		

- IEC 60112 Method for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions"
()
- IEC 60446 8 > and safety 1 for men-machine interface, marking and identification — Identification of equipment terminals and of terminations of certain designated conductors. Including general rules for an alphanumeric system"
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- IEC 60664-1:1992 insulation coordination for equipment within low-voltage systems — Part 1: Principles, requirements and tests ()
- IEC 61867 Electrical accessories for household and similar use — Electromagnetic compatibility (EMC)"
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