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1.2.1.

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2021 9 1

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2024 11 1

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591 2013

8								44	2015	5
29				80		2015	7	1		
9									55	
2015	3	23		021	79		2015	7	1	
10								2	2019	9 1
11									2025	5
2025	1	27								
12										
	2020	3		2020	4	1				
13							<			>
		2021	12		2021	12	31			
2022	6		2022	4	2					
14								“	”	
		2025	4		2025	2	10			
15										
	2016	8		2016	2	5				
16					2015					
2015	5		2015	5	1					
17									2015	
					2015	80		2015	8	19
18										
	2011	95		2011	7	1				
19										
					2011	142		2011	7	1
20										

3

2019 78

2019 62 2019 12 26

2020 1 2020 5 30

341 2021

25

2017 45 2017 12 23

26

2012 144 2012 8 30

27

 $\angle$
$$>$$

2017 22 2017 11 28

28

2018 21

2018 8 31

29 < 2015 > “1674 [≤60] ”

“1674”

2022

8 2023 1 1

30

 $\angle$

2015

$$>$$

2022	300	2023	1	1
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31

2022 317 2022 12 20

1.2.2.

1

GB50156-2021

2	GB6944-2012	
3	GB 12268-2012	
4	GB 18218-2018	
5	GB 17914 2013	
6	GB 50058-2014	
7	AQ 3009-2007	
8	GB/T 6441-1986	
9	GB/T 13861-2022	
10	GB 50140-2005	
11	GB 50057-2010	
12	GB 12158-2006	
13	GB/T 50610-2010	
14	GB 50395-2007	
15	GB/T 29639-2020	
16	YJ/T 9007-2019	
17	AQ 3010 2022	
18	GB/T 50493-2019	
19	-	SH/T
3178-2015		
20	GB30871-2022	
21	(XF/T 3004 2020)	
22	GB55036-2022	
23	GB/T 13869-2017	
24	GB/T 34661-2017	
25	GB/T 35579-2017	
26	GB/T 50759-2022	
27	AQ 8001-2007	

1.2.3.

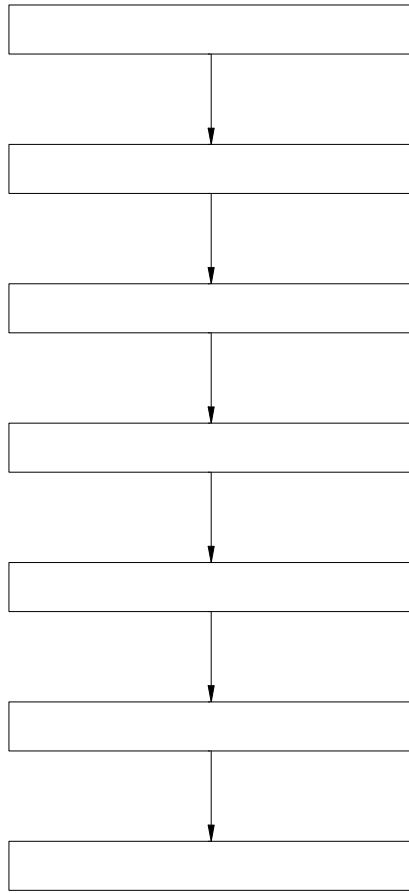
1	2005	4	
2			2002
11			
3		2003	7

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- 3
- 4
- 5

1.4

1-1



1 1

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1y[V&VEP\$\$uH r 9

4

1

20m³

1

25m³

1

30m³

1

30m³

n

GB50156-20 0 GJ m"

19.8

37.7

-37.7

28.7

-20.4

68%

87%

42%

102.22Kpa

790.9mm

2.6m/s

21.06m/s

26.9d

33.0cm

1.43m

7

0.10g

2.3

7m m "

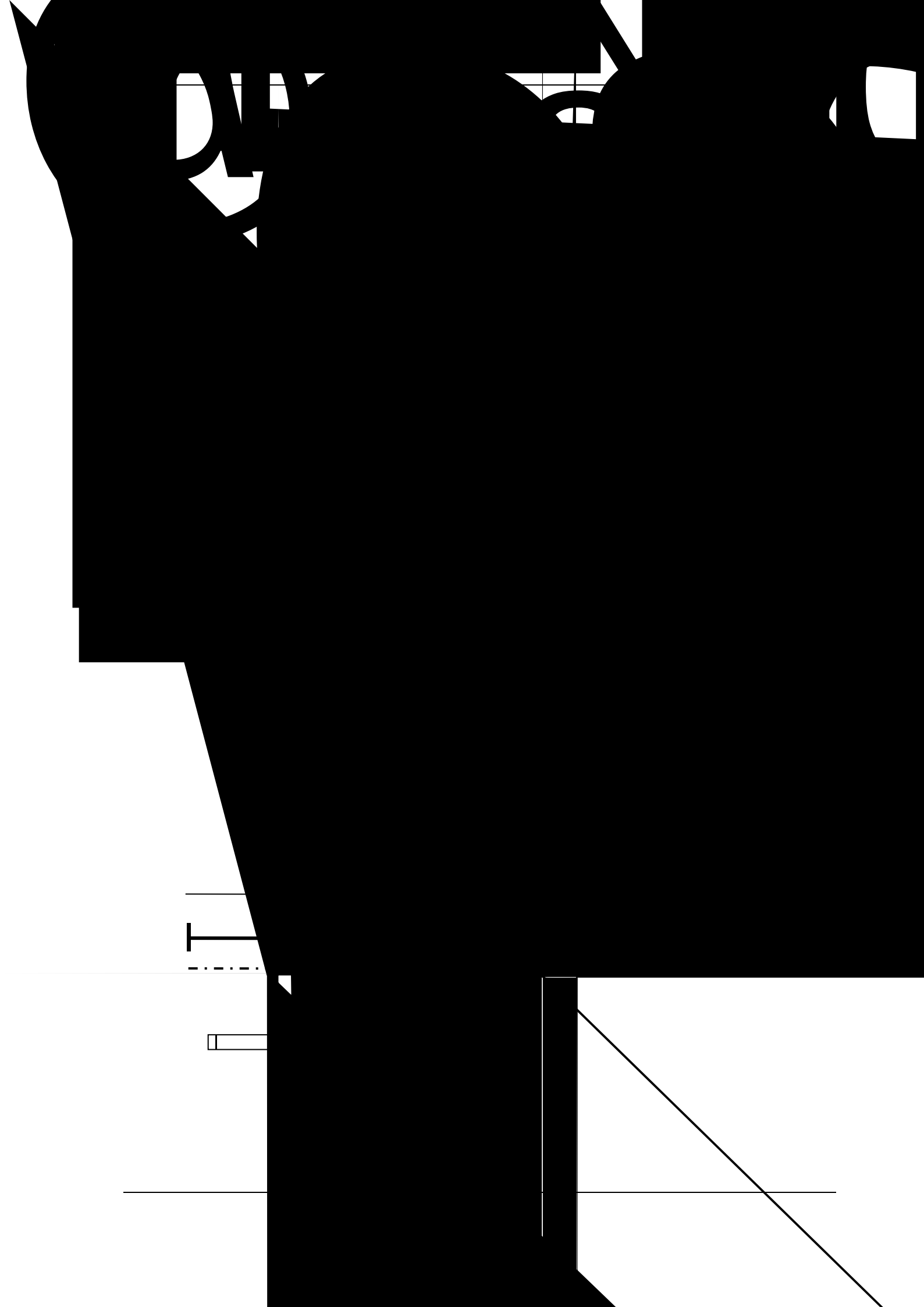
m "

1

, m "

”

∇ E



2-1

m

				5.5	21.5
	1			8.5	20.5
	2			8.5	20.5
				5	31
				35 50	41 58
				10.5	25.5
				5	30
				11	38.5
				5	29
	1			8.5	26
	2			8.5	29
				5	41.5
				35 50	48 68
				10.5	24.5
				5	23
				11	32
				5	20
	1			8.5	17
	2			8.5	17

				3	20
	1			6	38
	2			6	35
				3	29.5
				25	36
				9	40
				3	35.5
				6	44
				5	29
	1			8.5	29
	2			8.5	26
				5	29.5
				35 50	39 51
				10.5	37
				5	36
				11	44.5

2-2

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530m²

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225m²

H=6m

3

320

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9		18		-	5 8 4m 4 3m 1
10		1	DCGN-24		
11		1	YVS-CM		

2.5

141

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1.0 1.2

(+150Pa)

150Pa

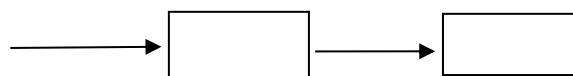
2-2 2-3 2-4 2-5 2-6



2-2

2-3

2-4



2-5

2-6

2.7

2.7.1

2.7.2

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2

a.

5

b.

c.

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4

380/220V

TN-S

UPS

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RS

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8

4m 4

18

5

3m 1

3.

3.1

3.1.1

GB18218-2018

1

2

3.1.2

1

2

$$S=q_1/Q_1+q_2/Q_2+.....+q_n/Q_n\geq 1$$

S——

q₁ q₂... q_n——

t

$$Q_1 \quad Q_2 \dots Q_n \frac{t}{3}$$

3.1.3

$$23 \leq 60 \qquad 3-1$$

3-1		
1		200t
2		5000t

$$\frac{56.25t}{30m^3} \qquad \frac{75m^3}{0.75} \qquad 0.89 \qquad 26.7t$$

$$S=56.25/200+26.7/5000=0.28659<1$$

,

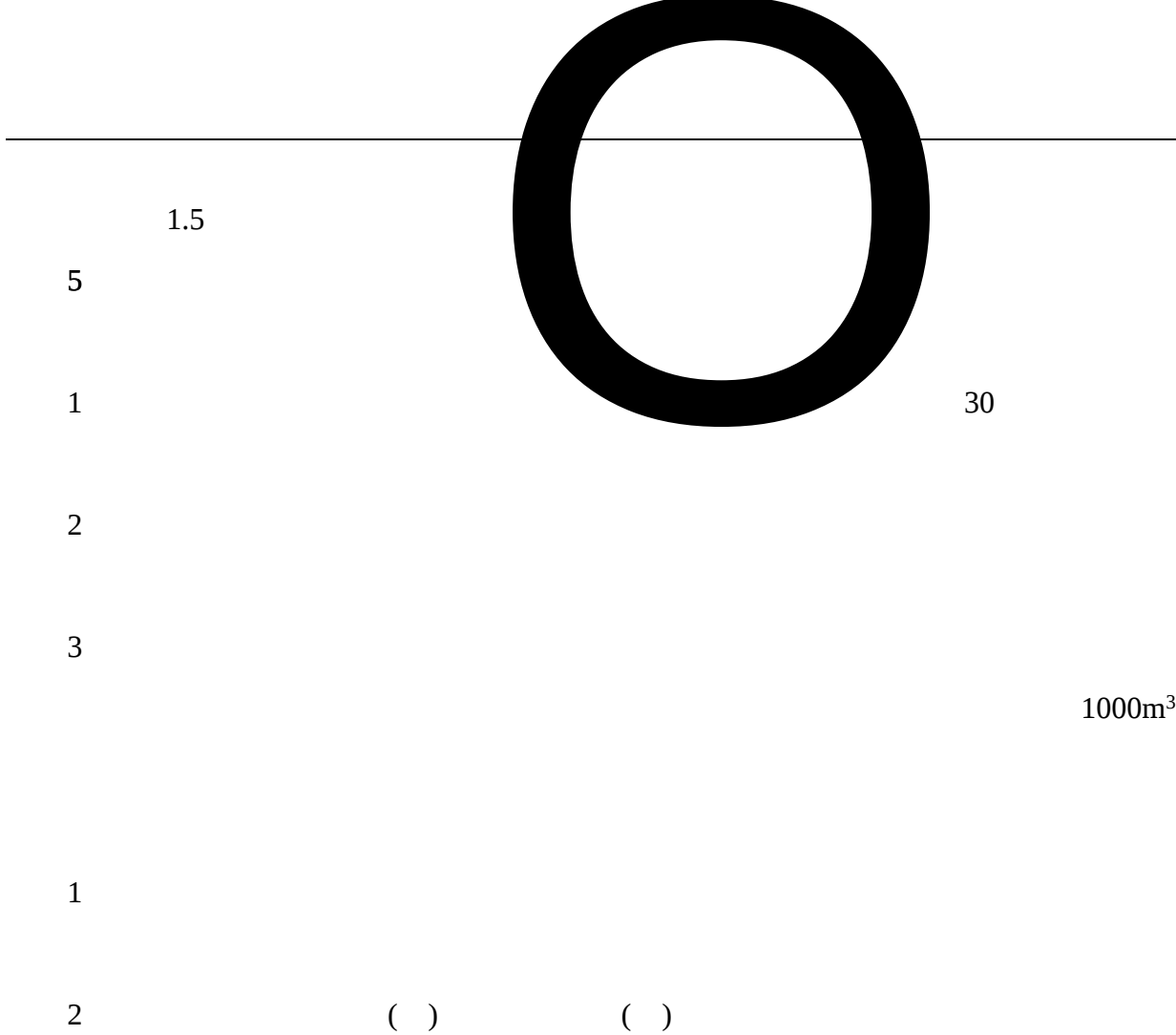
3.2

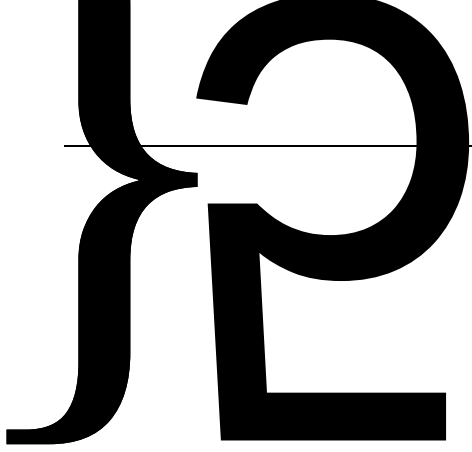
3.2.1

$$\frac{1}{2^*} \qquad \frac{1B}{2} \qquad \frac{2}{2}$$

$$1630$$

$$\frac{95}{98} \quad \frac{3}{E10} \qquad \frac{=1}{0.72} \quad \frac{0.775}{92} \qquad =1 \quad \text{€}$$



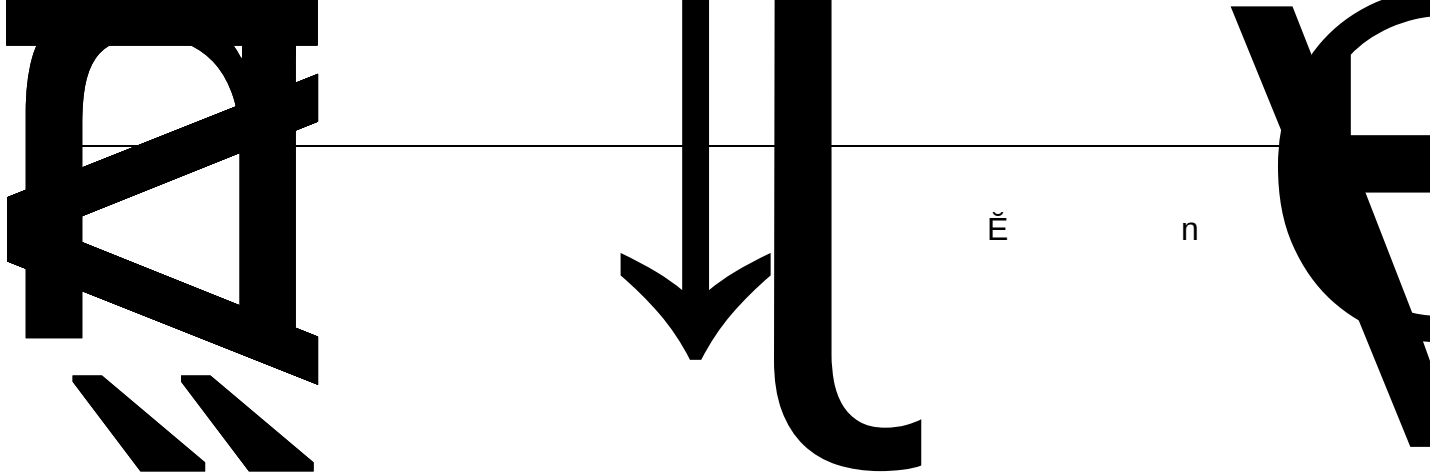


15min

5 0 -10 60 -20
50 -35 -50 45

15min

10



6			

3.3.1

1

70m

6 46

2

1987 2 4

1986 5 2

*

3

4

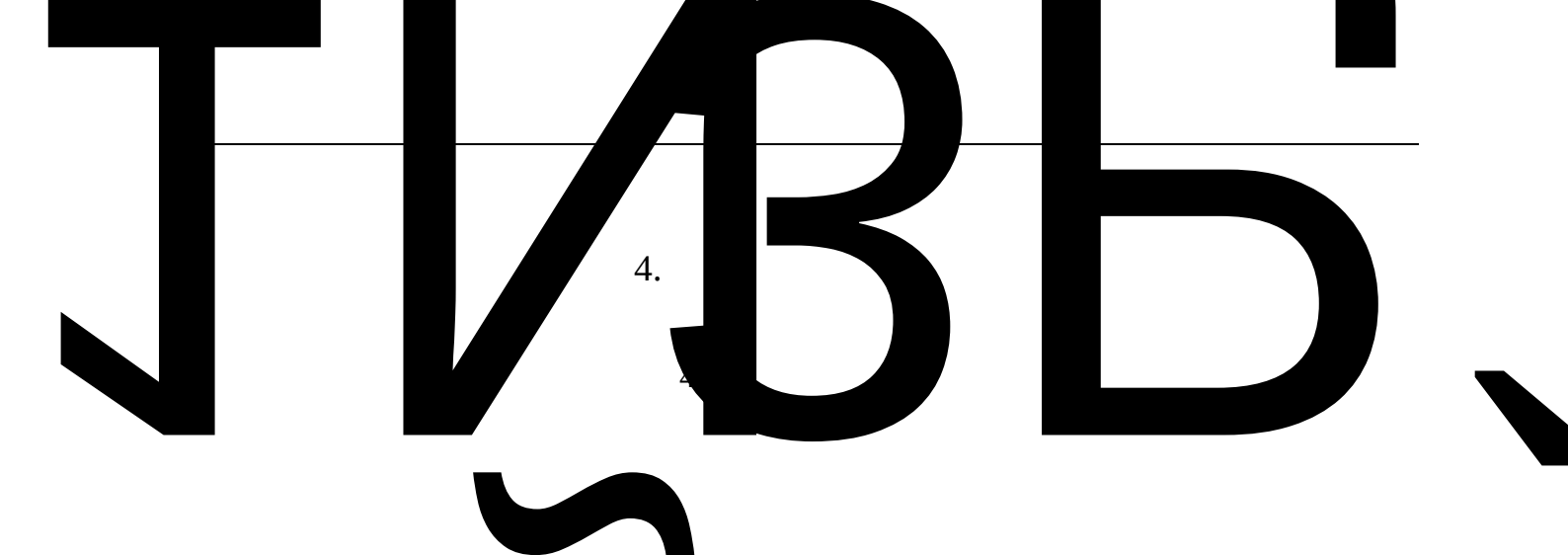
"é 7\$4\$60.'@ Đ

3.3.2

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BRV



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	1		
	2		
	3		

2024 4 9

5-3

1

GB50156-2021
3.0.4

2

GB50156 3.0.9
GB50156-2021

GB20120-505
9

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					4.0.4	
						4.0.4
4					GB50156-2021 4.0.12	
5					GB50156-2021 4.0.13	
1					GB50156-2021 5.0.1	
2						
		6m	4m			9m
				8%	GB50156-2021 5.0.2	8%
3					GB50156-2021 5.0.3	
4			“	” “		“
	”				GB50156-2021 5.0.5	” “

1.2m³

100mm 1.2m

6
GB50156-2021
(5.0.7

7
GB50156-2021
5.0.8

8

	12 GB50156 5.0.13-1	GB50156-2021 5.0.13	2-1 2-2	
	13 C	GB50156-2021 5.0.16		

5-4

	1	GB50156-2021 6.1.1		
	2	GB50156-2021 6.1.2		
	3 6.1.4 0.08MPa	GB50156-2021 6.1.4	SF	
	4 - SH/T3178	GB50156-2021 6.1.5	SF - SH/T3178	

5					
		$10^9\Omega$			
	$10^9\Omega$				SF
			GB50156-2021		
			6.1.7		
		$A=0.04V_t$			
6.					SF
	11.2		GB50156-2021		
			6.1.8		
					SF
7					
			GB50156-2021	0	
			6.1.9		
8					
		80mm			SF
	4mm				
			GB50156-2021		
			6.1.10		JÒ
9					
			GB50156-2021		

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	11	GB50156-2021 6.1.13		
	12	GB50156-2021 6.1.14		
	13 90% 95%	GB50156-2021 6.1.15		
	14 0.8L/h	GB50156-2021 6.1.16		
	15 SH 3022	GB50156-2021 6.1.17	SF	
	1	GB50156-2021 6.2.1		
	2 50L/min	GB50156-2021 6.2.2	5-50L/min	
	3	GB50156-2021 6.2.3		

4

GB50156-2021

8.2.4

5

GB50156-2021

6.2.5

1

GB50156-2021

6.3.1

2

GB50156-2021

6.3.2

3

GB50156-2021

6.3.3

1V-

0

4

GB50156-2021

6.3.8

50mm

100mm

45°

100mm

T

45°

150mm

200mm

150mm

200mm

9

4m

	4mm $10^{10}\Omega$ $10^8\Omega\cdot m$ 100kV		$10^8\Omega\cdot m$ $10^{10}\Omega$	
	13	GB50156-2021 6.3.13		
	14	GB50156-2021 6.3.14		
	15 2‰ 1%	GB50156-2021 6.3.15	2‰ 1%	
	16 0.4m 0.2m 100mm	GB50156-2021 6.3.17	0.5m 0.2m 0.5m	

17

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021

6.3

18

6.3.12

1

2.8m/s

2

GB50156-2021

6.3.19

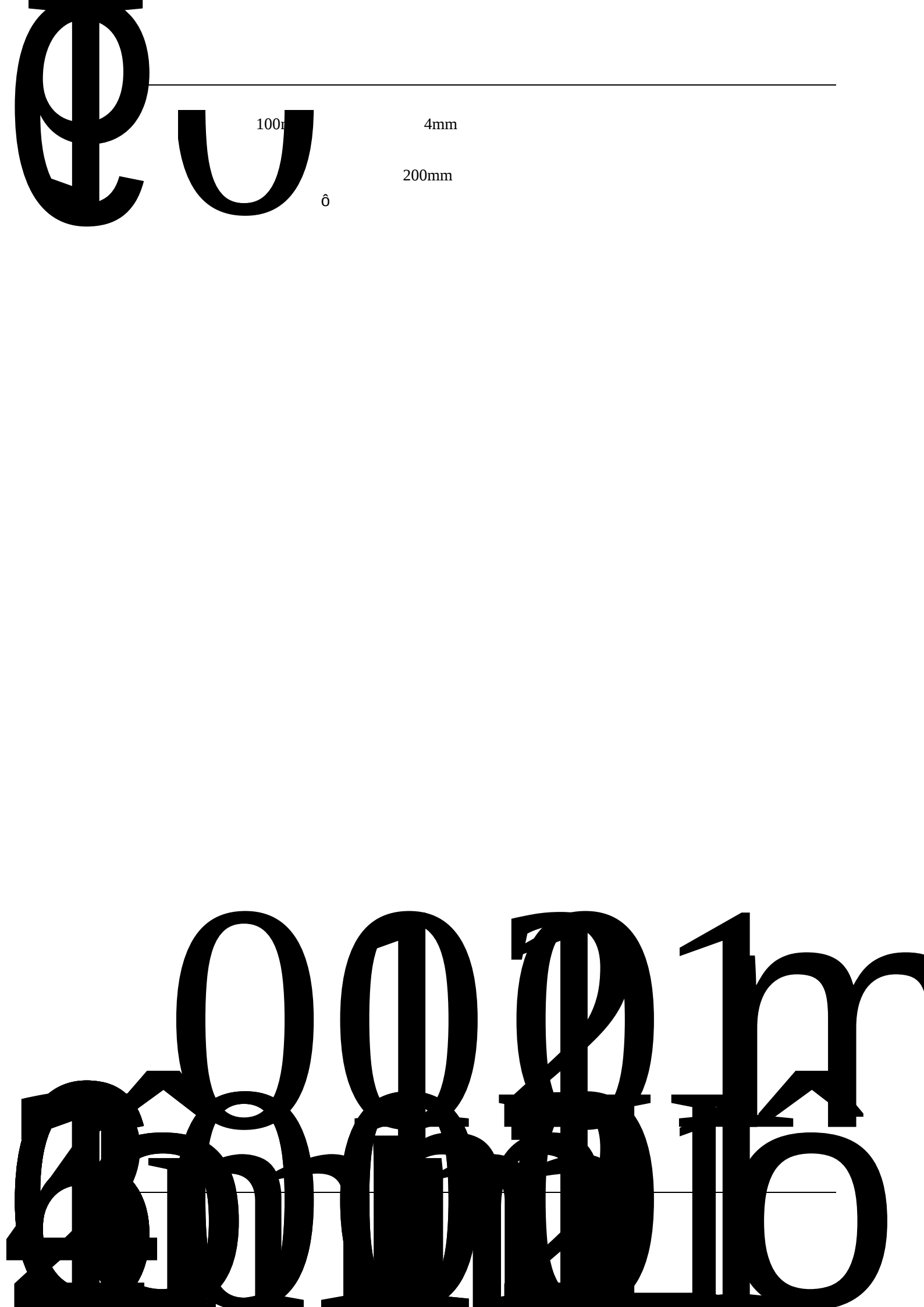
19

GB/T21447

GB50156-2021

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6.3.20

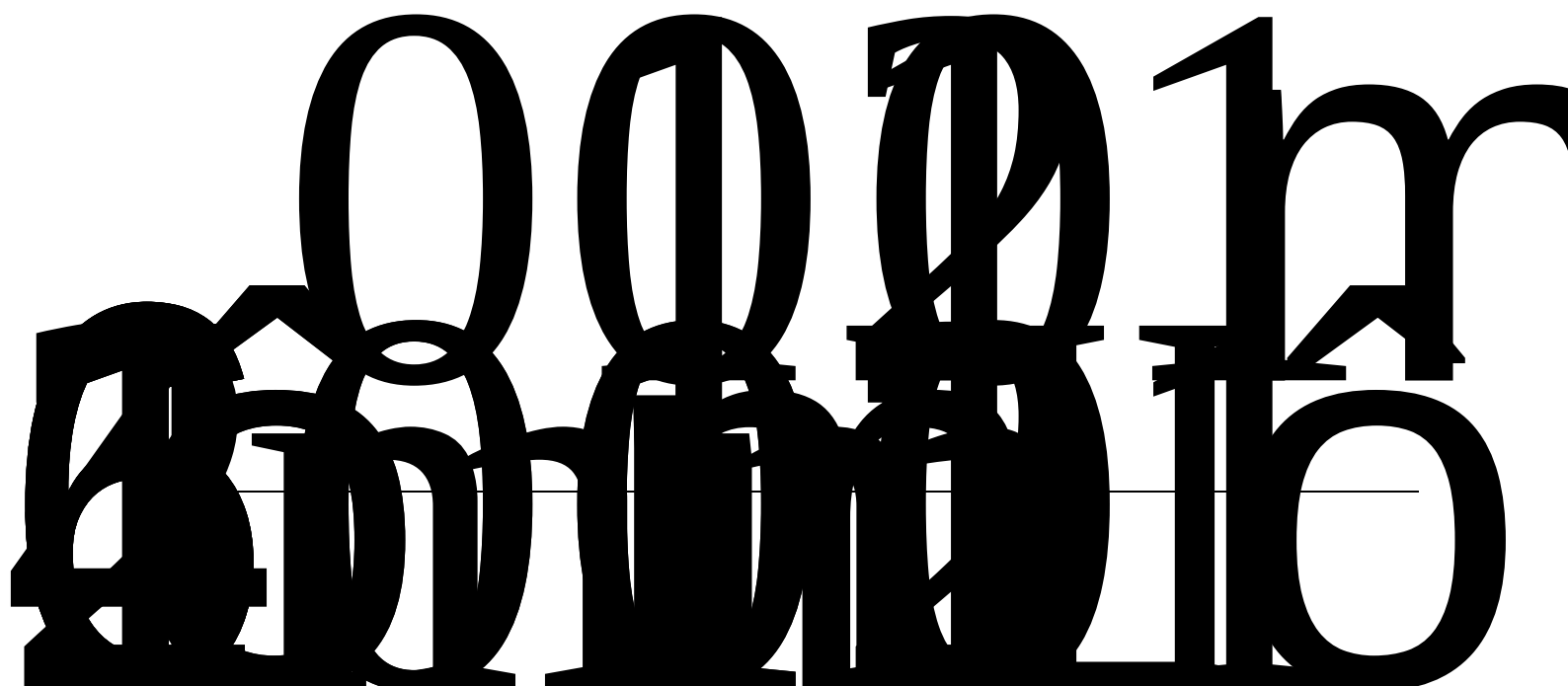


100mm

4mm

200mm

0



	GB/T50493-2019
	3.0.8

3

0.5m	GB/T50493-2019
	6.1.1

4

0.3m~0.6m	GB/T50493-2019
	6.1.2

5

5-6

1

GB50156-2021
13.1.1

2

380/220V

GB50156-2021
1

7					
		GB50058		GB50156-2021 13.1.7	
8					IP44
		IP44		GB50156-2021 13.1.8	
1					
	2			GB50156-2021 13.2.1	2
2					
			4Ω	GB50156-2021 13.2.2	

6

GB50156-2021

13.2.8

7 380/220V

380V

TN-S

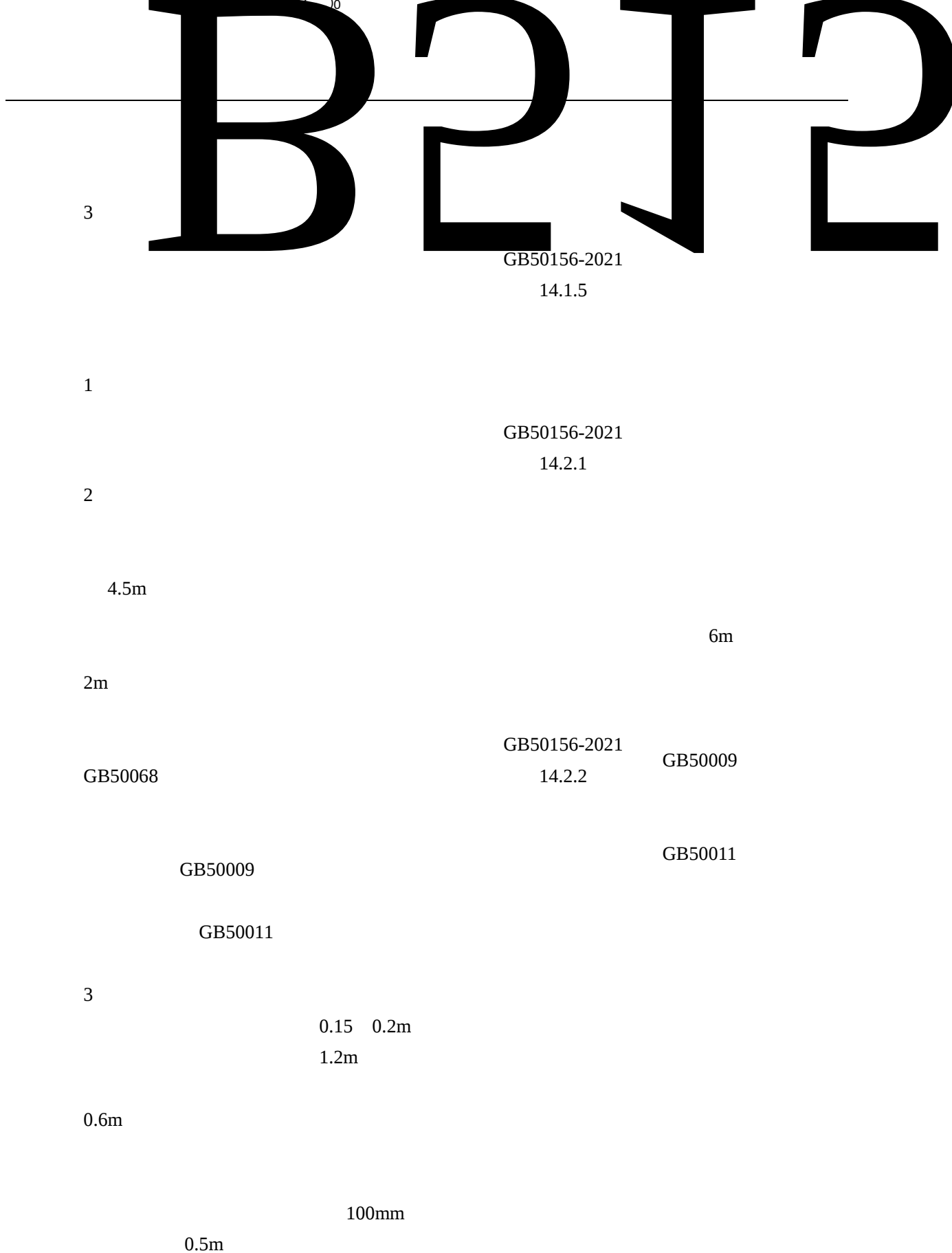
TN-C-S

	13 100Ω	GB50156-2021 13.2.15		
	14 1	GB50156-2021 13.2.16	1	
	1	5.0.1		
	2	5.0.5		
	3	5.0.8		
	1	GB50156-2021 13.5.1		

	2.			
	1			
	2	GB50156-2021 13.5.2		
	3.	GB50156-2021 13.5.4		

5-7

	1			
	140kw			
	2m	GB50156-2021 14.1.3		
	2			
	12			
	5	GB50156-2021 14.1.4		
	300cm ² /m ²			
	2			

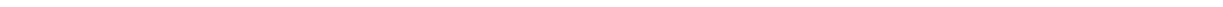
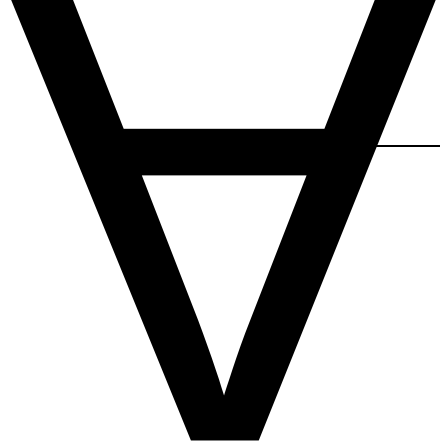


	5		GB50156-2021 14.2.9		
	6	300m ²	GB50156-2021 14.2.10		
	7	B GB50016	GB50156-2021 14.2.11	B	
	8	3h	GB50156-2021 14.2.12		
	9		GB50156-2021 14.2.13		
	10	25m 5.0.13 3.0h	GB50156-2021 14.2.14		
	11		GB50156-2021 14.2.15		

UPS

5-9





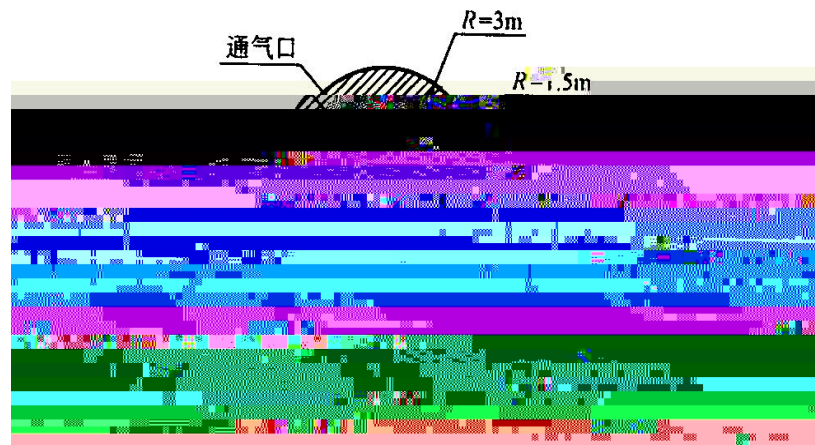
7.

1.

3
1.5m

3m

2



2

5.

3

1

0

2

1.5m 0.75m

0.5m

1

3

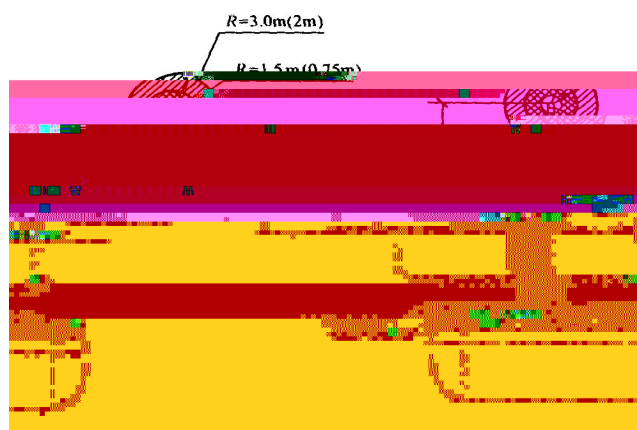
1.5m

1m

3m 2m

1.5m

2



3

