



1.1

1.2

m r

1.3

m " λ Å v

1.7

1.15

“

”

“

”

1.16

3

2.1

2.2

	/	1
1	2500V 10G á	1,2
2	1%	3 4
3	0.2%	5 14
4	0.2% 0.2%	6
5	0.5% 0.02	7,8,14,16,17,20
6	0.2%	7,8,14,16,17,20
7	0.2%	7,8,14,16,17,20
8	150kVA 650V	7,8,14,16,17,18,20
9	GB/T 16927.2	9,10,11
10	3%	9
11	50kVA	9
12	50kVA 50kV	9
13	50kW	10,11
14	GB/T 7354	11
15	GB/T 507	12
16		

25		GB/T 16896.1	10
26		GB/T 16896.2	10
27			16
28		0.2%	17
29		0.2%	18
30		GB/T 1094.5	19
31		GB/T 16927.4	19

4.1

		A	B	C
1		T	T	
2		T	T	
3		T	T	
4		T	T	T
5		T		
6		T	T	
7		T		
8		T	T	T
9		T	T	T
10		T	T	
11		T	T	T
12		T	T	T
13		T	T	T
14		T	T	T
15		T	T	
16	Rct)	T	T	T
17	Ts) (TPY, TPX, TPS)	T	T	
18	Ek) Ek (TPY, TPX, TPS)	T	T	
19		T	T	T
20		T	T	T
21		T	T	
22	(TPY, TPX, TPS)	T	T	
23	FS (	T	T	
GB 20840.1-2010		1		
GB 20840.2-2014		2		

5.1

		A	B	C
1		T	T	
2		T	T	
3		T	T	
4		T	T	T
5		T		
6		T	T	
7		T		
8		T	T	T
9		T	T	T
10		T	T	T
11		T	T	
12		T	T	T
13		T	T	T
14		T	T	T
15		T	T	T
16		T	T	
17		T	T	T
18		T		
GB 20840.1-2010		1		
GB 20840.3-2013		3		

5.2

			1
	<i>/</i>		
1		(0~20)kΩ	1
2		50kV 2A	1,4
3		(0~400)kV	2
4		(0~400)kV	2
5		100±15S/cm	3
6		200kV 1A (50~200)Hz	3,10,11,12
7		35kV 10kV	4
8		(0~200)VA	4
9		(0~100)V	4,15
10		(1~50)N	5
11		IP66	5
12	SF6	(0~100)ppm	6
13		50kV 2A	7
14		/	7
15	PT	0~250V 0~20A	8
16		(-60~0)Ñ	9
17		(0-1000)pC;	11
18		20mA	12
19		100kV 50pF	12
20		(0~6)kV	13,14
21		(0~1)MPa	16
22		(0~80)kV	17
23		(-40~+70)Ñ	18

6.1

	A	B	C
1	T	T	
2	T	T	
3	T	T	
4	T	T	
5	T	T	T
6	T		
7	T	T	

6.2

			1
	/		
1		(0~20)k á	1
2	1	50kV 4A	1,8
3		(0~500)kV	2
4		(0~500)kV	3
5		100 ¥ 15S/cm	4
6	2	200kV 2A	4
7		35kV 10kV	5
8	3	50kV 4A (40~200)Hz	5
9		(0~200)VA	5
10		(0~100)V	5,18
11		(1~50)N	6
12		IP66	6
13	SF6	(0~100)ppm	7
14		20mA	8
15		100kV 50pF	8
16		50kV 2A	9,10,11
17		/	9,10,11
18		50kV	11
19	/	/	12
20		(-60~0) Ě	13
21	4	200kV 2A (40~200)Hz	14,15
22		(0~1000)pC	15
23		(0~6)kV	16,17
24		(0~1)MPa	19
25		(0~80)kV	20
26		(-40~+70) Ě	21,22

7.1

7.2

1 / 1
(0~200

8.1

		A	B	C
1		T	T	T
2	(tan å)	T	T	T
3		T	T	T
4		T	T	T
5		T	T	T
6		T	T	T
7		T	T	T
8		T	T	
9	(tan å)	T	T	
10		T	T	
11		T	T	
12		T	T	
13		T	T	
14	tg å	T	T	
15		T		
16		T		
17		T	T	
18		T		
19		T		
20		T	T	T
21		T	T	T
22		T		
DL/T 840-2003 GB/T 11024.1-2010 1000V 1 GB/T 11024.2-2001 1000V 2 GB/T 11024.4-2001 1000V 4				

8.2

			1
	<i>/</i>		
1		(0~45)kV (0~6000)kVar	1,2,3,4,8,9,14,15,19,22
2		(0~200)kV (0~20)mA	5,11,12,13
3	1	(0~100) Ě	6
4		(0~200)kV (0~20)mA	7,21
5		(0~100) Ě	9,14
6		(0~800)kV	10
7		(0~100)pC	15,19
8		200kA	16
9		(20~100)N ě m	17
10	2	(-50~100) Ě	18

9.1

		A	B	C
1		T	T	T
2		T	T	T
3		T	T	T
4	tan å	T	T	T
5		T		
6		T		
7		T	T	T
8		T	T	T
9		T		
10		T	T	T
11		T	T	T
12		T	T	T
13		T		
14		T	T	
15		T		
16		T		
17		T		
18		T	T	
GB/T 1094.6-2011 DL/T 1057-2007		6		

9.2

	/		1
1		2500V	1
		10G á	
2		0.2%	2
		0.2%	
3		0.2%	3 5
		0.2%	
4		0.2%	4
5		0.5%	6,7,18
6			

10.1

	A	B	C
1	T	T	T
2	T	T	T
3	T	T	T
4	T	T	T
5	T	T	T
6	T	T	T
7	T	T	T
8	T	T	T
9	T	T	
10	T	T	T
11	T		
12	T	T	T
13	T	T	
14	T	T	
15	T	T	
16	T	T	
17	T		
18	T	T	
19	T	T	
20	T	T	
21	T		
22	T		

10.2

	/	1
1	2500V 10G á	1
2	0.2%	2,14
3	0.2%	3
4	0.5%	4,5,14,20
5	0.02	4,5,14,19,20
6	0.2%	4,5,14,19,20
7	150kVA 650V	4,5,14,16,19,20
8	GB/T 16927.2	6
9	3%	6
10	50kVA	6
11	50kVA 50kV	

11.1

	A	B	C
1	T	T	T
2	T	T	
3	T	T	T
4	T	T	T
5	T	T	T
6	T	T	T
7	T	T	T
8	T	T	T
9	T	T	
10			

11.2

			1
	/		
1		GB/T 16927.2	1,3,8,15
2		3%	1,3,8
3		50kVA	1,3,8
4	1	50kVA 100kV	1,3
5		GB/T 16927.2	2,15
6		GB/T 16896.1	2,15
7		GB/T 16896.2	2,15
8		3%	6
9	2	50kVA 20kV	8
10		5min 12	9
11		0.5% 0.02	9
12		0.2%	9
13		0.2%	9
14		150kVA 650V	9,14
15		GB/T 1094.5	10
16		GB/T 16927.4	10
17		IP4X	11
18		IPX4	11
19		IP10	12
20		GB 17467	13
21			14
22			16
23			17

12.1

		A	B	C
1	Ч Ч	Т	Т	Т
2		Т	Т	
3		Т	Т	Т
4		Т	Т	Т
5		Т	Т	
6		Т		
7		Т	Т	
8		Т	Т	
9	EMC)	Т		
10		Т	Т	Т
11		Т		
12		Т	Т	Т
13		Т		
14		Т		
15		Т	Т	Т
16	Ч Ч	Т	Т	Т
DL/T 404-2007 3.6kV 40.5kV GB 3906-2006 3.6kV 40.5kV				
Ш				

12.2

	/		1
1		(0~150) kV	2,3
2		(0~200)kV	2,3
3		(0~20)m á	4
4		() 100A	5
5		(0~5000)A	5
6		0.2	5
7		0.5 Ň	5
8		3200kVA	6
9	SF6	(0.01~100)ppm	7
10		0~2500V	8
11		2000V	9
12		3200MVA	10
13			11,13
14		(0~)	11

13.2

14.1

		A	B	C
1	Ч	T	T	T
2		T		
3		T		
4		T		
5	UV	T		
6		T	T	
7		T	T	
8		T	T	T
9		T	T	
10		T	T	T
11		T	T	T
12		T	T	T
13		T	T	
14		T	T	
15		T		
16	EMC	T		
17		T	T	T
18		T	T	T
19		T	T	T
20		T		
21		T	T	T
22		T		
23		T		
24		T		
25		T		
26		T		
27		T		
28	Ч Ч	T	T	T
GB 7251.1-2013 GB 7251.12-2013 GB/T 15576-2008				

14.2

1 / (-70~+150)Ñ Ů ¥ 2 1

		¥ 30% × (250V~3000)V	
	±10%	200Ω ±20%	
21		75ns	16
	±20%		
	100A/m		
		100KHz 1MHz ±10%	
		0.1%	
		1.0dBm	
22	1.0dBm		16
		¥ 1dBm	
		-30dBc	
		-35dBc	
23			

15.1

		A	B	C
1	Ч	T	T	T
2		T	T	T
3		T	T	
4		T	T	T
5		T		
6		T	T	T
7		T	T	
7		T		
8		T		
9		T	T	
10	EMC	T		
11		T		
12		T		
13		T		
14		T	T	T
DL/T 402-2016 GB 1984-2014				

15.2

			1
	/		
1		0~4s 0.1	2
2		/	2
3		(0~220)V	
4		(0~5000)A	3
5		0.2	3
6		0.5 Ě	3
7		(0-20m) á	4
8		100A	
9		3200kVA	5
10		(0~50) kV	6
11		(0~200)kV	6
12		3200kVA	7,12,13
13			7,12
14			8
15	SF6	0.01~100ppm	9
16		0~2500V	10
17		(-25~40) Ě	11
18		2000V	14

16.1

			A	B	C
1	4		T	T	T
2					

16.2

/

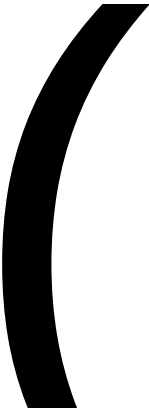
1

2

(0~4)s
0.1
/
(0~

1

2



17.1

		A	B	C
1	4	T	T	T
2		T	T	T
3		T	T	T
4		T	T	
5		T		
6		T		
7		T	T	T
8		T		
9		T	T	
10		T		
11		T		
12		T		
13		T	T	

17.2

	/		1
1		(0~0.1)mm	1
2		(0~150)kV	2
3		(0~200)kV	2
4		(	

18.1

		A	B	C
1	4	T	T	T
2		T	T	T
3		T	T	T
4		T	T	
5		T		
6				



19.1

19.2

/		1
1	-70~+150Ň	Ů Ť 2Ň
	(75%~98%)	Ů Ť 2Ň
	(25%~75%)	Ů Ť 5Ň
2	(1~2)ml/(h 80cm ²)	
	(RT-55)Ň	
	Ť 2Ň	2
3	1mL	
	(0~1000)Ň	
	15Ň	4
4	(290~400)nm	
	(10~70)Ň	5
5	1T;	6
6	(30~1000)m/s	7
7	(0~60)mm	
8	(0~10)kN	9

20.1

		A	B	C
1	Ч	T	T	T
2		T		
3		T		
4		T		
5	UV	T		
6		T	T	T
7		T	T	
8		T	T	T
9		T		
10		T	T	T
11		T	T	T
12		T	T	T
13		T	T	
14		T	T	T
15	Ч Ч	T	T	T
GB/T 7251.12-2013		2		
GB/T 7251.1-2013		1		
Q/GDW 13089-2014				

20.2

	/			1
1		-70~+150Ñ (75%~98%) (25%~75%)	Ů ¥ 2Ñ Ů ¥ 2Ñ Ů ¥ 5Ñ	2,3
2		(1-2)ml/(h 80cm ²) (RT-55)Ñ ¥ 2Ñ		2
3		1mL 0~1000Ñ 15Ñ		4
4		290nm 400nm +10~70Ñ(1Ñ		5
5		1T		6
6		30~1000m/s 0~60mm		7
9		10kN		9
10	IP	1mm √× ~ Ø		9
11		10A ×		11
12		б 0.5 m, ð ij		
		Q		
		т		
		0~		

И

21.1

					A	B	C
1					T	T	T
2					T	T	T
3					T	T	
4					T	T	
5					T	T	T
6	XLPE				T	T	T
7			10kV		T		
8		10kV			T		
9	5min				T		
10		3kV					

நீ @

 t 

5

32		T		
33		T		
34		T		
35	HEPR	T		
36	HEPR	T		
37	EPR HEPR	T		
38		T		
GB/T 12706.1 2008 1 kV (U_m 1.2 kV) 35 kV (U_m 40.5 kV) 1 1 kV (U_m 1.2 kV) 3 kV (U_m 3.6 kV) GB/T 12706.2 2008 1 kV (U_m 1.2 kV) 35 kV (U_m 40.5 kV) 2 6 kV (U_m 7.2 kV) 30 kV (U_m 36 kV) GB/T 12706.3 2008 1 kV (U_m 1.2 kV) 35 kV (U_m 40.5 kV) 3 35 kV (U_m 40.5 kV)				

		$23 \pm 0.1 \text{ MPa}$ $650 \text{ mL/min} \pm 10 \text{ L/min}$ $\pm 2\%$	
46		$1000 \pm 100 \text{ mm} \pm 2000$ $\pm 100 \text{ mm} \pm 4000 \pm 100 \text{ mm}$ $0.7 \text{ W} \cdot \text{m}^{-2} \cdot \text{K}^{-1}$ $77.7 \pm 4.8 \text{ L/min}$	34
47		10 IRHD 100 IRHD	35
48		0.025~0.030%	37

22.1

	A	B	C
1	T	T	T
2	T	T	T
3	T	T	
4	T	T	T

20	(0~120)g h	13,17
21	0~300 N ± 2 N	13,14,15,17,18
22	5~40 mm	14
23	0.70 $\pm$ 0.01 mm	15
24	-40~0 N	

23.1

		A	B	C
1		T	T	T
2		T	T	T
3		T	T	T
4		T	T	T
5		T	T	T
6		T	T	T
7		T	T	T
8	1%	T	T	T
9		T	T	T
10		T	T	T
11		T	T	T
12		T	T	
13		T	T	T
14		T	T	
15		T	T	
16		T	T	T
17		T		
18		T		
19		T		
20		T		
21		T		
22		T		
23		T		
24		T		
25		T		
26		T	T	

GB/T 1179-2008

23.2

	/		1
1		:1T/5T	3,5
2		1-10mm ;5-11mm	4,10
3		2~20M á	6

24.1

		A	B	C
1		T	T	T
2		T	T	T
3		T	T	T
4		T	T	T
5		T	T	T
6		T	T	T
7		T	T	
8		T		
9		T		
10		T		
11	4	T	T	
12		T	T	
13		T		
14		T		
15		T		
16		T	T	
17	m "			

24.2

			1
	/		
1		(0~2000) í m	4 12,16
2	/	50T,100T	5,6,7,13,17,18,19
3		36V	8
4		45V	9,10
5	1	1~3Hz	14
6	2	¥ 30 ¢ ;	15
7		(0~200)N í m	20
8	3	¥ 12mm	21,22,23
9	EMI	1MHz, (0~100)dB	24
10		(0~100)kV	24

25.1

25.2

26.1

					A	B	C
1					T	T	T
2					T	T	
3	5	1	6	#	T	T	

26.2

			1
	/		
1		(800~1200)kV	2,7,10
2		500kV	3,7,10,12,13
3	1	(500~1000)kN	4
4		5 100 Ň	5,6
5		0-60MPa	8
6		-	9,16
7		600kN/(-65~80) Ň	10
8	2	(500~2000)kN	11
9		Ů100kN ě m	11
10		50kV 1.5*1.5*1.5	14
11		Ů100kN ě m	15
12		Ů100kN ě m	17

27.1

		A	B	C
1		T	T	T
2		T	T	T
3		T		
4	-	T	T	T
5		T		
6		T	T	T
7	1000h	T	T	
8		T	T	T
9		T	T	
10		T	T	T
11		T	T	T
12		T	T	ic^ R'T Y Y
13				

31		T	T	T
32		T	T	T
33		T	T	
34		T		

GB/T 19519-2014

2014年10月1日实施

27.2

			1
	/		
1	1	500kN	1, 4, 19, 27
2		500kV	2
3		600kN / (-65~80) Њ	3
4		500kV	3
5		(800~1200)kV	3, 18, 20, 22, 33
6	1	0~50 kV	5, 9
7	A	(0~100)	6
8		(0~100) Њ	7
9			8
10		2500 N	10, 11, 12
11		-	13
12	Ч	(0~6)kV	14
13		200 kV	16
14	2	¥ 200 kV	17
15	3	200 kV	21
16	Ч	500 kV	23, 25
17		1MHz (0~100)dB	24
18		(0~50) kV	26
19		50kV 1.5*1.5*1.5	28
20		0~13mm	29
21		(0~1000)N	31
22	2	1000kN	32
23		1000kN	34

28.1

		A	B	C
1		T	T	T
2		T	T	T
3		T	T	T
4		T	T	T
5		T		
GB 4623-2014				

28.2

			1
	/		
1		0.01mm	1,3
2		0.1mm	4
3		(0~50)kN 0.1kN	3
4		(0~600)kN 1kN	5

29.1

		A	B	C
1		T	T	
2		T	T	T
3		T	T	T
4	4	T		

30.1

		A	B	C
1		T	T	T
2		T	T	T
3		T	T	T
4		T	T	T
5		T	T	T
6		T	T	T
7		T	T	
8		T		
DL/T 802.3-2007		3		

30.2

/	
1	0~25 mm ¥8 í mm (0~120)g
2	h 0.0001
3	0~10 kN 1
4	

b
0.5 mm B.P I

31.1

		A	B	C
1	4.5U ₀	T		
2	2.5U ₀	T		
3	é _t	T		
4		T		
5		T		
6		T		
7		T		
8		T		
9		T		
10		T		
11		T		
12	n	Ó		
		⊥		

31.2

			1
	<i>I</i>		
1	1	0~200 kV 3	1,2
2		0.5~1000 pC 1pC	13,14
3		0~3000 A 1	13,14
4		0~400 kV 2	3,4
5		0~3000 A 1	3,4
6		0~3000 A 1	8,9,11
7	2	0~75 kV 3	8,9,11
8		0~100 kA 1	5,6,7
9		0~40 kV 3	10
10		0.4 ± 0.1 L/ h m ³	10
11	1	0~10 kN 1	15
12		0~200 Ć ±2Ć	16
13		0~5 V 1	16
14		0~60 kV 3	17
15		0~1000 mA 1	17
16	2	0~2 kN 1	19
17		-30 Ć~ ±2Ć	19
18		0~100 pF 2%+0.0005Ш	20