

10kV

10KV,300mm ²	.....
10KV,180mm ² -1km	.....
10KV,300mm ² -1.5km	.....
10KV,300mm ² -2km	.....
10KV,300mm ² -2km	.....
10KV,400mm ² -2km	.....
10KV/35kv,300mm ²	.....
10KV,300mm ² -5km	.....
10KV,630mm ² -3.5km	.....
10KV,185mm ² -2km	.....
10KV,400mm ² -3km	.....
10KV/35kv,300mm ² -8km	.....
10KV,185mm ² -1.2km	.....
10KV,300mm ² -8km	.....

10KV,300mm²

10KV,300mm² 1km F 30-300Hz
 17.4KV

1 10KV,300mm² 1km F 17.4KV
 $I=2 \text{ fCU} =2 \times 35 \times 0.37 \times 10^{-6} \times 17.4 \times 10^3 = 1.5A$

2 L=1/ 2C=56H

36KVA/18KV 2

18KVA/18KV/1A/112H

1 36KVA

2 380V 50Hz

3 18KV

4 2A

5 30-300Hz

6 1%

7 15min

8 15min 65K

9 Q 30(f=45Hz)

10

11

1.5

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		18KV/18KV 2	
10KV/300mm ²	10-1000m	1	1.2KV

1		4KVA/1.2KV/0.4KV		1	
2		4KW/380V		1	
3		18KVA/18KV		2	
4		30KV-2000pF		1	
5				1	

10KV/180mm²-1km

10KV/240mm² 500m, F 30-300Hz

22KV

10KV/180mm² 1000m, F 30-300Hz

22KV

1 10KV,180mm² 1km F 22KV

$$I=2 \quad f_{CU} = 2 \quad \times 45 \times 0.31 \times 10^{-6} \times 22 \times 10^3 = 1.9A$$

2 L=1/ 2C=40H

44KVA/22KV 2

22KVA/22KV/1A/80H

1 44KA

2 380V 50Hz

3 22KV

4 2A

5 30-300Hz

6 1%

7 15min

8 15min 65K

9 Q 30(f=45Hz)

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11 1.5

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		22KV/22KV 2	
10KV/240mm ²	10-500m		1KV
10KV/180mm ²	10-1000m		1KV

1		3KVA/1KV/0.4KV		1	
2		3KW/380V		1	
3		22KVA/22KV		2	
4		30KV-2000pF		1	
5				1	

10KV/300mm²-1.5km

10KV/300mm² 1.5Km, F 30-300Hz
22KV

1 10KV,300mm² 1.5km F 22KV

$$I=2 \quad f_{CU} = 2 \quad \times 35 \times 0.56 \times 10^{-6} \times 22 \times 10^3 = 2.8A$$

2 L=1/ 2C=354H

73KVA/22KV 2

36.5KVA/22KV/1.66A/70H

1 73KA

2 380V 50Hz

3 22KV

4 3.3A

5 30-300Hz

6 1%

7 15min

8 15min 65K

9 Q 30(f=45Hz)

10

11 1.5

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		36.5KV/22KV 2	
10KV/300mm ²	10-1500m		1.5KV

1		6KVA/1.5KV/0.4KV		1	
2		6KW/380V		1	
3		36.5KVA/22KV		2	
4		30KV-2000pF		1	
5				1	

10KV,300mm²-2km

10KV,300mm ²	2km	F	17.4KV
1 8.7KV/10KV,300mm ²	2km	F	
30-300Hz,	17.4KV,	40Hz,	I=2 fCU =2
$x40x0.74x10^{-6}x17.4x10^3=3.2A$			
2	L=1/	2C=22H	
	4A	20KV	
	40KVA/20KV/2A/44H,		80KVA
		80KVA/40KV	2
	40KVA/20KV/2A/44H		
1	80KVA		
2	380V	50Hz	
3	40KV	20KV	
4	2A;4A		
5	30-300Hz		
6		1%	
7		15min,	1.1 1

8		15min	65K
9	Q	30(f=45Hz)	
10			
11		1.5	

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1		4KVA/1KV/0.4KV		1	
2		4KW/380V		1	
3		40KVA/20KV		2	

4		40KV-2000pF		1	
5				1	

10KV,300mm²-2km

10KV,300mm ²	2km	F	
30-300Hz	22KV		
1 10KV,300mm ²	2km	F	30-300Hz,
22KV,	$I=2 \text{ fCU} =2 \times 35 \times 0.74 \times 10^{-6} \times 22 \times 10^3 = 3.6A$		
2	$L=1/ 2C=28H$		
			22KVA/22KV/112H
			88KVA/22KV 4
			22KVA/22KV/1A/112H
1	88KVA		
2	380V	50Hz	
3	22KV		
4	4A		
5	30-300Hz		
6		1%	
7		15min,	1.1 1
8		15min	65K

9 Q 30(f=45Hz)

10

11 1.5

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		22KV/22KV 4	
10KV/300mm ²	2000m	4	1.5KV

1		6KVA/1.5KV/0.4KV		1	
2		6KW/380V		1	
3		22KVA/22KV		4	
4		30KV-2000pF		1	
5				1	

10KV,400mm²-2km

10KV,400mm² 2km F 30-300Hz
 22KV

1 10KV,300mm² 2km F 22KV

$$I=2 \quad fCU = 2 \quad \times 35 \times 0.84 \times 10^{-6} \times 22 \times 10^3 = 4A$$

2 L=1/ 2C=28H

88KVA/22KV 2

44KVA/22KV/2A/56H

1 88KVA

2 380V 50Hz

3 22KV

4 4A

5 30-300Hz

6 1%

7 15min

8 15min 65K

9 Q 30(f=45Hz)

10

11 1.5

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		44KV/22KV 2	
10KV/300mm ²	10-2000m	1	1.5KV

1		6KVA/1.5KV/0.4KV		1	
2		6KW/380V		1	
3		44KVA/22KV		2	
4		30KV-2000pF		1	
5				1	

10KV/35KV,300mm²

1	35KV/300mm ²		1000m,
F	30-300Hz	52KV	
2	10KV,300mm ²		3000m
F	30-300Hz	22KV	
1	10KV,300mm ²	3km	F
30-300Hz,	22KV.	37Hz	
	$I=2 \quad f_{CU} = 2 \quad x37x1.11x10^{-6}x22x10^3=5.7A$		
2		$L=1/ \quad 2C=16H$	
3			44KVA/22KV/48H
4	35KV/300mm ²	1km	F
30-300Hz,	22KV.	52Hz	
			$L=48 \quad 3=144H$
	$F=1/2 \quad VLC=1/ \quad 2x3.14xv1445x0.9x10^{-6} =30Hz$		
	$I=1/2 \quad f_{CU} = 2 \quad x30x0.19x10^{-6}x52x10^3=1.86A$		
			132KVA/22KV/66KV 3
			44KVA/22KV/2A/48H

1	132KVA			
2	220V/380V		50Hz	
3	22KV 66KV			
4	6A 2A			
5	30-300Hz			
6			1%	
7		60min	1.1	1
8		60min	65K	
9		Q 30(f=45Hz)		
10				
11		1.5		

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10kv

		44KV/22KV 3	
10KV/300mm ²	3000m		3KV
35KV/300mm ²	1000m		1KV

1		6KVA/1KV/3kv/0.4KV	1	
2		6KW/220V/380V	1	
3		44KVA/22KV	3	
4		60KV-1500pF	1	
5			1	

10KV,300mm²-5km

1 10KV,300mm² 5km F/km
 30-300Hz 21.75KV.

2 35KV,300mm² 1.5km F/km
 30-300Hz 65KV.

26KVA/66KV 3

88KVA/22KV/4A

1 264KVA

2 AC:380V 50Hz

3 22KV;66KV

4 12A;4A

5 30-300Hz

6 1%

7 60min

8 60min 65K

9 Q 30(f=45Hz)

10

11

1.5

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		88KV/22KV 3	
10KV/300mm ²	10-1000m	1 3	1KV
35KV/300mm ²	10-1500m		3kv

10

11

1.5

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		49.5KV/22KV 4	
10KV/630mm ²	10-3500m		1KV

1		9KVA/1KV/0.4KV		1	
2		9KW/380V		1	
3		49.5KVA/22KV		4	
4		30KV-2000pF		1	
5				1	

10KV/185mm²-2km

1	10KV/240mm ²	2Km,	F
30-300Hz	22KV		
2	10KV/185mm ²	2Km,	F
30-300Hz	22KV		
3	10KV/150mm ²	2Km,	F
30-300Hz	22KV		
4	10KV/120mm ²	2.5Km,	F
30-300Hz	22KV		
5	10KV/95mm ²	3Km,	F
30-300Hz	22KV		
6	10KV/70mm ²	4Km,	F
30-300Hz	22KV		
7	10KV/185mm ²	5Km,	F
30-300Hz	22KV		
8	10KV/35mm ²	5Km,	F
30-300Hz	22KV		
9	10KV/25mm ²	5Km,	F
30-300Hz	22KV		

11

1.5

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1		6KVA/1KV/0.4KV		1	
2		6KW/380V		1	
3		44KVA/25KV		3	
4		30KV-2000pF		1	
5				1	

10KV/40mm²-3km

10KV/400mm ²		3000m	F
30-300Hz	22KV		
1	10KV,300mm ²	3km	F
30-300Hz,	22KV.	30Hz	
	$I=2 \text{ fCU} =2 \times 30 \times 1.26 \times 10^{-6} \times 22 \times 10^3 = 5.2A$		
2	$L=1/ \text{ }^2C=20H$		
3	44KVA/22KV/60H		
	132KVA/22KV/66KV 3		
	44KVA/22KV/2A/60H		
1	132KVA		
2	380V	50Hz	
3	22KV		
4	6A		
5	30-300Hz		
6	1%		
7	60min	1.1	1

8 60min 65K

9 Q 30(f=45Hz)

10

11 1.5

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		44KV/22KV 3	
10KV/400mm ²	3000m	1KV	

1		6KVA/1KV/0.4KV		1	
2		6KW/380V		1	
3		44KVA/22KV		3	
4		30KV-2000pF		1	
5				1	

10KV/35KV,300mm²-8km

1	10KV/300mm ²		8000m	
F	30-300Hz	22KV.		
2	35KV/300mm ²		3000m	
F	30-300Hz	52KV.		
1	10KV/300mm ²		8000m	
F	30-300Hz	22KV.		6
	54/6=9			
	$f=1/2$	$vLC=1/(2 \times 3.14 \times V^9 \times 2.96 \times 10^{-6})$		
	$I=2$	$fCU = 2 \times 30.8 \times 2.96 \times 10^{-6} \times 22 \times 10^3 = 12.5A$		
2	35KV/300mm ²		3000m	
F	30-300Hz	52KV		$I=2$ fCU =2
	$x35 \times 0.57 \times 10^{-6} \times 52 \times 10^3 = 6.5A$			
	$L=1/$	$^2C=36H$		
		67.5KVA/27KV/54H		
		405KVA/54KV/108KV/162KV		6
		67.5KVA/27KV/2.5A/54H		

1	405KVA			
2	380V	50Hz		
3	54KV 27KV			
4	7.5A 1.5A			
5	30-300Hz			
6		1%		
7		60min	1.1	1
8		60min	65K	
9	Q	30(f=45Hz)		
10				
11		1.5		

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		67.5KV/27KV		6
10KV/300mm ²	8000m	6		1KV
35KV/300mm ²	3000m	2	3	3KV

1		25KVA/1KV/3KV/0.4KV		1	
2		25KW/380V		1	
3		67.5KVA/27KV		6	
4		60KV-1500pF		1	
5				1	

10KV/185mm²-1.2km

1 10KV/185mm² F
 30-300Hz 22KV.

2 35KV/10000KVA F
 45-65Hz 68KV.

1 10KV/185mm²
 F 30-300Hz 22KV.
 $I=2 f_{CU} =2 \times 35 \times 0.37 \times 10^{-6} \times 22 \times 10^3 = 1.8A$
 $L=1/ \quad ^2C=56H$

27KVA/27KV/112H

2 35KV F
 68KV 4 112 4=448H

80KV/5000Pf

$f=1/2 \quad \sqrt{LC}=1/(2 \times 3.14 \times V448 \times 0.015 \times 10^{-6})=61Hz$
 $I=2 f_{CU} =2 \times 61 \times 0.01 \times 10^{-6} \times 68 \times 10^3 = 0.3A$

108KVA/108KV/27KV 4

27KVA/27KV/1A/112H

1	108KVA		
2	380V	50Hz	
3	108KV	27KV	
4	1A	4A	
5	30-300Hz		
6			1%
7		15min	
8		15min	65K
9		Q 30(f=45Hz)	
10			
11		1.5	

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		27KV/27KV 4	
10KV	1200m	2	1KV
35KV		4	3KV

1		6KVA/1KV/3KV/0.4KV		1	
2		6KW/380V		1	
3		27KVA/27KV		6	
4		100KV-1500pF		1	
5				1	

10kv

10KV/300mm²-8km

1 10KV/300mm² 8km
 F 30-300Hz 22KV.
 2 35KV/300mm² 3km
 F 30-300Hz, 52KV.
 1 35KV/300mm² 3km
 F 30-300Hz, 52KV.
 $I=2 fCU =2 x35x0.57x10^{-6}x52x10^3=6.5A$
 $L=1/ ^2C=36H$
 6 67.5KVA/27KV/54H

2 10KV/300mm² 8km
 F 30-300Hz 22KV.
 6 54/6=9
 $f=1/2 \sqrt{LC}=1/(2x3.14xV9x2.96x10^{-6})=30.8Hz$
 $I=2 fCU =2 x30.8x2.96x10^{-6}x22x10^3=12.5A$
 405KVA//54KV/108KV/162KV 6
 67.5KVA/27KV/2.5A/54H

1	405KVA			
2	380V	50Hz		
3	54KV 27KV			
4	7.5A 15A			
5	30-300Hz			
6		1%		
7		60min	1.1	1
8		60min	65K	
9	Q	30(f=45Hz)		
10				
11		1.5		

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		67.5KV/27KV		6
10KV/300mm ² 22KV	8km	6		1KV
35KV/300mm ² 52KV	3km	2	3	3KV

1		25KVA/1KV/3KV/0.4KV		1	
2		25KW/380V		1	
3		67.5KVA/27KV		6	
4		60KV-1500pF		1	
5				1	

