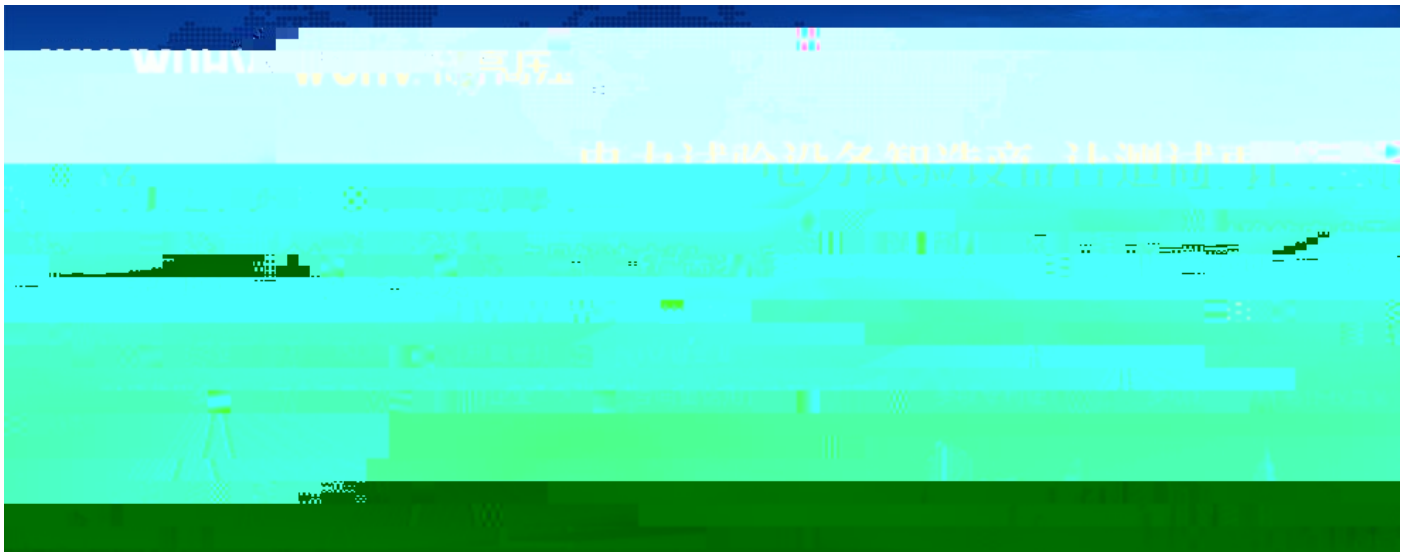
UHV-540kVA/270kV



13886160371

2026 8 12

武汉
官方网址：http://www.whtgy.com

ˈ ɻ ɝ ⱳ 3

ɛ ɻ l 3

Ᵽ ɻ l ˈ Ǔ 3

ⱺ ɻ l Ǐ 4

ˊ ɻ 5

ˁ ɻ U 6

ˏˏˏ ɻ Ǐ 6

ˮ ɻ ɵ ꓶ 8

Ӣ ɻ Ǐ !! 8

UHV-540kVA/270kV

' ɻ ɜ ֆ

1 10kV/300mm² 8km ≤3.004uF 30-300Hz

22kV 5min

2 35kV/300mm² 4km ≤0.778uF 30-300Hz

52kV 60min

3 110kV/630mm² 0.5km ≤0.092uF 30-300Hz

128kV 60min

4 110kV/63000kVA ≤0.02uF 45-65Hz

160kV 1min

5 110kV 30-300Hz 265kV

1min

ε ɻ l

1		UHV-30kW		1
2		UHV-30kVA/1.5/3/6kV/0.4kV		1
		UHV-15kVA/16kV		1
3		UHV-54kVA/27kV		10
4		UHV-F500pF/270kV		1

Ꝑ ɻ l ˡ Ǔ

UHV

1

2

武汉特高压电力科技有限公司 官方网址：http://www.whtgy.com

3

4

5

6 DSP

7

1/Q

8

1/Q

1/10-1/30

9

10

1/Q

11

غ ا ا ا

1. 540kVA
2. 54kV 135kV 270kV
3. 10A 4A 2A
4. 1.5
5. 30-300Hz
6.
7. Q≥30(f=45Hz)

8. ≤1%

9. 380V 50Hz

10. 60min 1.1 1

11. 60min ≤65K

12.

20 -55

14. ≤90%RH

15. : ≤3000

540kVA **54kVA/27kV/2A/65H**

1 10kV/300mm² 8km ≤3.004uF 30-300Hz

22kV 5min

L=65/8=8.125H

$f=1/2\pi\sqrt{LC}=1/(2\times3.14\times\sqrt{8.125\times3.004\times10^{-6}})=32.22Hz$

$I=2\pi fCU=2\pi\times32.22\times3.004\times10^{-6}\times22\times10^{3}=13.38A$

2 35kV/300mm² 4km ≤0.778uF 30-300Hz

52kV 60min

1.1 $L=65\times2\times1.1/5=28.6H$

$f=1/2\pi\sqrt{LC}=1/(2\times3.14\times\sqrt{28.6\times0.778\times10^{-6}})=33.74Hz$

$I=2\pi fCU=2\pi\times33.74\times0.778\times10^{-6}\times52\times10^{3}=8.58A$

3 110kV/630mm² 0.5km ≤0.092uF 30-300Hz

128kV 60min

1.3 $L=65\times5\times1.3/2=211.25H$

$f=1/2\pi\sqrt{LC}=1/(2\times3.14\times\sqrt{211.25\times0.092\times10^{-6}})=36.1Hz$

$I=2\pi fCU=2\pi\times36.1\times0.092\times10^{-6}\times128\times10^{3}=2.67A$

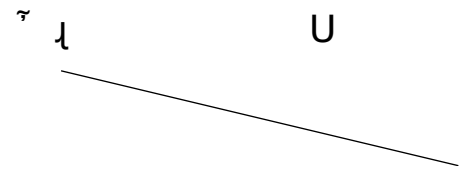
4 110kV/63000kVA ≤0.02uF 45-65Hz

160kV 1min

1.3 $L=65\times6\times1.3=507H$

$f=1/2\pi\sqrt{LC}=1/(2\times3.14\times\sqrt{507\times0.02\times10^{-6}})=49.98Hz$

$$I = 2\pi fCU = 2\pi \times 49.98 \times 0.02 \times 10^{-6} \times 160 \times 10^{3} = 1A$$



1		UHV-30kW		1
2		UHV-30kVA/1.5/3/6kV/0.4kV		1
		UHV-15kVA/16kV/0.4kV		1
3		UHV-54kVA/27kV		10
4		UHV-F500pF/270kV		1
5				1
6				1
7				1
8				1
9				1

DL/T 596-2021
GB50150-2016
GB10229-88
GB1094-2013
GB1094.1-GB1094.6-96
GB2900
GB/T16927.1~2-2013
DL/T474.4-2018
DL/T1015
GB/T311.1-2012
GB191-2008
JB/T9641-1999
GB/T19749-2016
GB4793-1995
GB/T3859.2-2013
GB/T2423.8-2018
DL/T849.6-2016