## - Product Introduction

The ZS series on-load tap changer is suitable for the tap connection of oil-immersed power transformers or industrial transformers with rated voltages of $10 \mathrm{kV}, 35 \mathrm{kV}$, maximum rated through currents of $100 \mathrm{~A}, 200 \mathrm{~A}, 400 \mathrm{~A}$, and rated frequency of 50 Hz to change the voltage regulating coil under load The position changes the transformation ratio to achieve the purpose of improving power quality.
The on-load tap-changer is equipped with YK-3A and YK-4A controllers to realize manual, automatic and remote control of the on-load tap-changer.

- Model Description


Note 1: Pressure regulation method:
(Neutral point linear regulation, without neutral point output)
DA (Delta connection linear regulation)
A1 (Neutral point linear regulation, with neutral point output)
B (Middle bridge)
X1, X2 (for arc suppression coil)

Note 2: The simple OLTC has the following models:


- ZS 10kV Technical Data

| Item |  | Mode | ZSIII100-A | ZSIII200-A |  | ZSIII100-X2 | ZSIII100-X1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Max.rated through current (A) |  | 100 | 200 |  | 100 | 100 |
| 2 | Rated frequency (Hz) |  | 50 or 60 |  |  |  |  |
| 3 | Phase |  | 3 | 3 |  | 1 | 1 |
| 4 | Connection method |  | Y/D | Y |  | Arbitrary | Arbitrary |
| 5 | Withstand short circuit Thermal (3s) |  | 2 | 4 |  | 2 | 2 |
|  | capacity (kA) Dynamic (peak) |  | 50 | 10 |  | 5 | 5 |
| 6 | Max.rated step voltage (V) |  | 300 | 300 | 300 | 1000 | 600 |
| 7 | Max. working positions |  | 9 | 9 | 9 | 9 | 11, 14 |
| 8 | $$ |  | 10 |  |  |  |  |
|  |  |  |  |  | 12 |  |  |
|  |  |  | 75 | 75 | 75 | 75 | 75 |
|  |  | To the ground | 35 | 35 | 35 | 34 | 35 |
|  |  | Interphase | 18 | 35 | 18 | - | - |
|  |  | Max and min taps | 18 | 18 | 18 | 35 | 25 |
|  |  | Between adjacent contacts | 18 | 18 | 18 | 30 | 18 |
| 9 | Mechanical life |  | $>500000$ times |  |  |  |  |
| 10 | Electrical life |  | $>50000$ times |  |  |  |  |
| 11 | Sealing test | Work pressure | 0.03 MPa |  |  |  |  |
|  |  | Test pressure | No leakage under 0.08 MPa for 24 hours |  |  |  |  |
| 12 | Weight (without oil) kg |  | 50 | 80 |  | 35 | 60 |
| 13 | With automatic controller |  | YK-4A |  |  |  |  |

Note: ZSIII100 is a single-resistance transition method, which is only used for transformers with the same power direction. It is not suitable for connecting transformers. The tap position of tap changer "1" must be connected to the tap with the most turns of the transformer coil.

- ZS 35kV Technical Data


