STB45T

YHDC®

Three-phase synchronous transformer

Sync signal and power supply voltage.

Product application

- Power industry
- Petroleum industry
- Military engineering
- Chemical industry

Product advantage

- Good stability
- Low noise
- High precision
- Small idle current

Product features

- Single crystal copper enameled wire
- High quality iron core - H18/0.35 (annealing)
- PBT engineering plastics, environmental protection, flame retardant, 120 degree of deformation
- Vacuum sealing, high temperature of 100 ℃ / 6 hours aging, life 20 years, high electric strength
- Reasonable structure, convenient installation, low noise, strong earthquake, airtight moistureproof
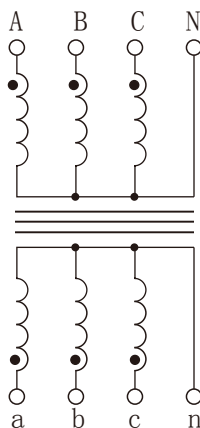
Typical technical index：

- Material of core——Silicon steel sheet

- Heat insulation level: B (130 ℃)

- Working temperature——-30℃～+40℃

- Frequency range——50Hz～60Hz

- Flame retardant properties: ul94-v0

- Formal test：Primary/secondary 3.5KVmax AC/1min 5mA（The normal use is not recommended for destructive testing samples）

 Factory test: primary/secondary 3.5KVmax AC/1s 5mA

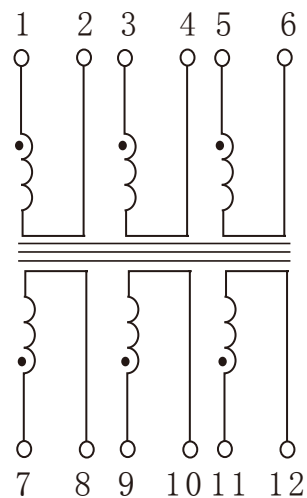| Technical indicators and electrical parameters							Remarks
Primary input voltage	110	220	380	400	660	V	Voltage fluctuation range ±20%
Secondary output voltage	24/36/110/220/380					V	Other voltage output can be customized
Power	45					VA	Max power
Voltage regulation	≤25					%	Reference value
Temperature rise	≤30					℃	Reference value
Connection	①	②	③				Common connection can be customized other connection
Pri/sec strength connection	3.5					KV	At least 5~7 times the input voltage
Weight	700					g	For reference only

Common connection :(orange input terminal/green output terminal)
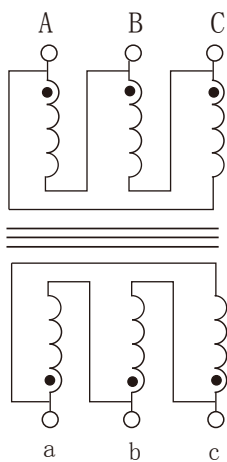
①Triangular connection ②Star connection ③Independent winding

Line voltage/phase voltage

*Order format: y connection/model + power input voltage (phase voltage/line voltage) * 3 + output voltage (phase voltage/line voltage) * 3

    Example：　Y connection　　　STB45T　45VA/400V（line）＊3/110V（line）＊3

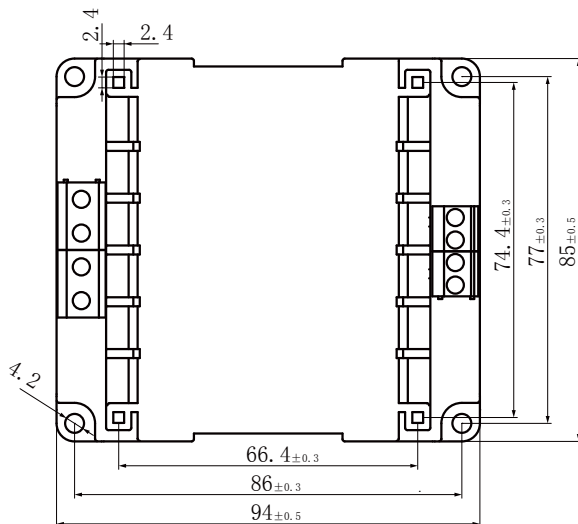   Triangulation/model + power + input voltage *3+ output voltage *3

    Example：　Delta connection　　STB45T　45VA/400V＊3/110V＊3

*Other connections can be customized　　Hybrid connection/model + power + input voltage *3+ output voltage *3
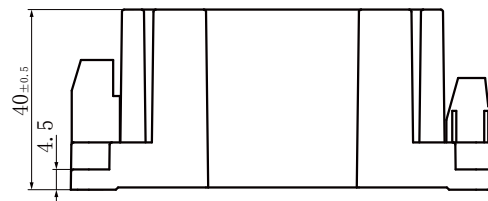
        Example：　Y/Delta connection　　　STB45T　45VA/400V（line）＊3/110V＊3

*Y connection need labeling phase voltage/line voltage; Triangular and independent windings need not be labeled
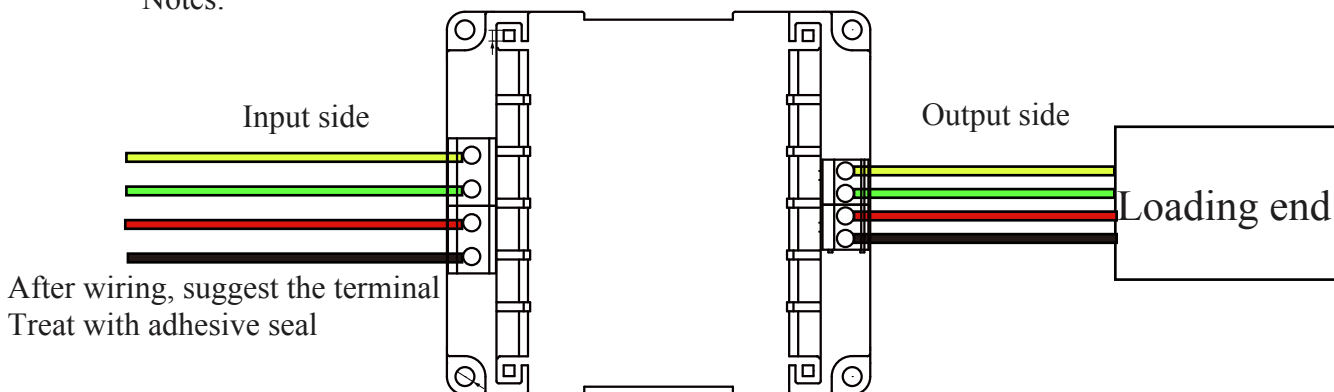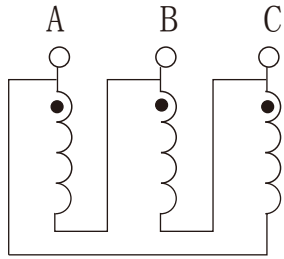
Outline size：（in:mm）

Front view   Side view

    *Make 6 terminals on each side of the independent winding

Notes:

Input side   Output side

Loading end

After wiring, suggest the terminal
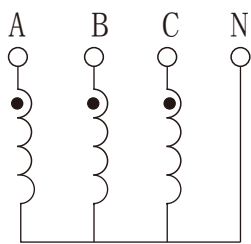Treat with adhesive seal

A   B   C

Triangular-connected three-phase voltage, line voltage is 380V,

So the phase voltage is 380V.

Triangle connection: connect the power supply or load of each phase end to end,

And each connected point is drawn out as the three phase lines of the three-phase electricity.

Corner joint

A   B   C   N

Star connection of three-phase voltage and line voltage is 380 v,
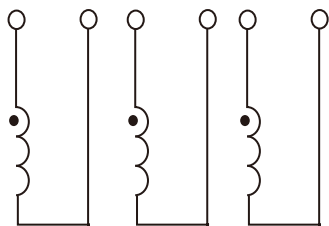
So the phase voltage is 220V.

Star connection: connect the ends of the three windings of the three-phase power supply together.

It becomes a common point N.

Three terminal lines are drawn from the beginning A, B and C as input

Y connection

Three independent coils

External short sub

Delta connection

I line $=\sqrt{3}\times I$ phase，U line=U phase，

P phase=I phase$\times U$ phase，

P=3P phase=$\sqrt{3}\times I$ line$\times U$ phase=$\sqrt{3}\times I$ line$\times U$ line

Y connection

I line=I phase，U line=$\sqrt{3}\times U$ phase，

P phase=U phase$\times I$ phase，

P=3P phase=$\sqrt{3}\times U$ line$\times I$ phase=$\sqrt{3}\times U$ line$\times I$ line；