

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 $^{\circ}$ C / 6 hours aging, life 20 years, high electric strength
- Reasonable structure, convenient installation, low noise, strong earthquake, airtight moisture proof



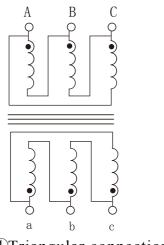
Typical technical index:

- •Material of core—Silicon steel sheet
- •Heat insulation level: B (130 °C)
- Working temperature— $-30 \,^{\circ}\text{C} \sim +40 \,^{\circ}\text{C}$
- •Frequency range——50Hz~60Hz
- •Flame retardant properties: u194-v0
- Formal test: Primary/secondary 3.5KVmax AC/1min 5mA (The normal use is not recommended for destructive testing samples)

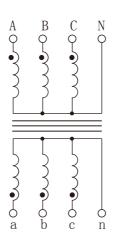
Factory test: primary/secondary 3.5KVmax AC/1s 5mA

Technical indicators and electrical parameters							Remarks
Primary input voltage	110	220	380	400	660	V	Voltage fluctuation range ±20%
Secondary output voltage		24/3	86/110/	220/380		V	Other voltage output can be customized
Power			30			VA	Max power
Voltage regulation			≤ 25			%	Reference value
Temperature rise			€30			$^{\circ}$ C	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			655			g	For reference only

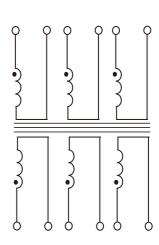
Common connection: (orange input terminal/green output terminal)



①Triangular connection



2Star connection



③Independent winding

Line voltage/phase voltage



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

Example: Y connection STB6517Z 30VA/400V (line) *3/110V (line) *3

Delta connection/model + + power input voltage * 3 * 3 + output voltage

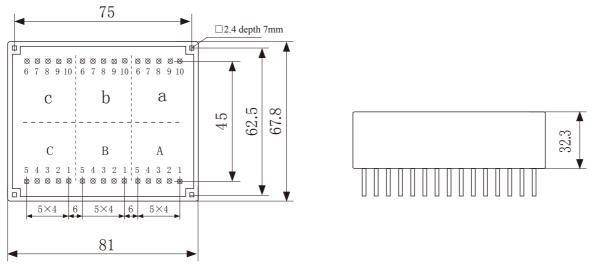
Example: Delta connection STB6517Z 30VA/400V*3/110V*3

*Other connections can be customized Hybrid connection/model + power + input voltage *3+ output voltage *3

Example: Y/Delta connection STB6517Z 30VA/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)

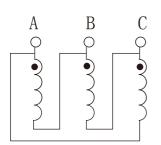


(pin out at designated foot position, no pin out at other foot positions)

Bottom view Side view

①Delta connection feet by default	2) Star connection feet by default	3 Independent winding default pin position
Input: A1	Input: A1	Input: A1-A5
B1	B1	B1-B5
C1	C1	C1-C5
	C5(Neutral N)	
Output: a9	Output: a10	Output: a7-a9
Ь9	b10	b7-b9
c9	c10	c7-c9
	c6(Neutral n)	





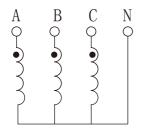
Triangular-connected three-phase voltage, line voltage is 380V,

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



Star connection of three-phase voltage and line voltage is 380 v,

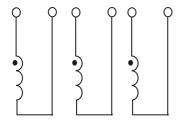
So the phase voltage is 220V.

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

It becomes a common point N.

Y connection

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



Three independent coils

External short sub

Delta connection

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

P phase=I phase × 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 × I phase,

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