

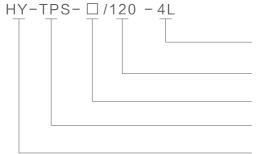


Intelligent Phase-change System Series (HY-TPS)

Intelligent Phase-change System Series

HY-TPS Intelligent phase-change system adopts the power carrier communication way, realizes data exchange between the master switch and the branch phase-change switch, can adjust the unbalanced three-phase automatically in the case of without breaking down the user power supply. Because of the zero-crossing switching technology and preemptive time-sharing communication mechanism, effectively overcome the shortcomings of traditional artificial encountered adjust three-phase unbalanced and conflict and interference between different branch communication. HY - TPS are widely used in the 380V/220V low voltage power distribution system, is becoming one of low voltage distribution three-phase unbalanced load solution.

MODEL 3



Method of connecting wire:3L Three-phase three-wire system/4L Three-phase four-wire system

Rated current: 120A

Voltage level: 0.22/0.38 kV

Intelligent phase-change system series

Huayi LV electric brand name

PRODUCT FEATURE ♦

The load side realizes balance

Realize all-round balance from the load side to the entire transformer area

Triple locking against short circuit

Fire test pressure interlock, control power supply interlock and control signal interlock

The power consumption of the device is small

- Operation power consumption of the equipment≤8W
- The phase-change process is continuous, smart zero-crossing switching and shock-proof

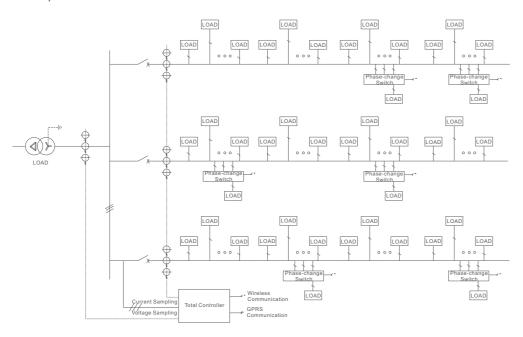
No maintenance or management

■ Without a specialist maintenance and management after putting into operation



WORKING PRINCIPLE S

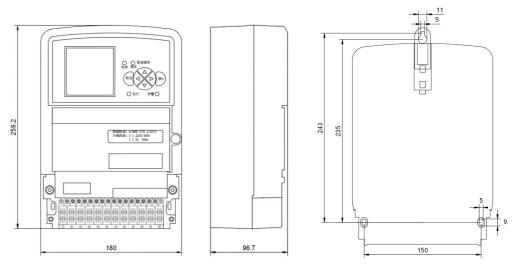
HY-TPS consists of master switch and phase-change switch, master switch collects and analyzes the three-phase load data of the station area, intelligently controls the phase-change switch to switch the single-phase load, and realizes the three-phase balance of the entire station area from the load end.



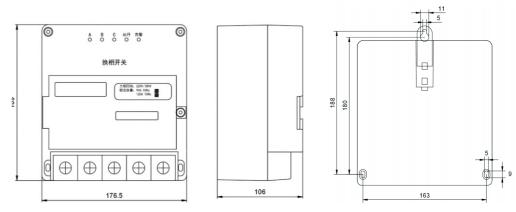
TECHNICAL PARAMETERS **●**

Item	Parameters	
	Phase-changeSwitch	Master-control Switch
Rated Operational Voltage	AC380V/220V	AC380V/220V
Nominal Insulation Voltage	AC660V	AC660V
Rated Withstand Voltage	AC2500V (1min power frequency)	AC2500V (1min power frequency)
Overall Power Consumption	≤10W	≤10W
Rated Current	120A	1
Commutation Time	≤10ms	1
Texture	stainless steel	stainless steel
Protection Grade	IP65	IP65
Boundary Dimension (Width*Depth*Height)/mm	177*106*189	180*97*206
Installation Way	pole-mounted,wall-mounted	pole-mounted, wall-mounted
Communication Interface	1	RS485、RS232
Communication Mode	wireless communication (communication distance≥1. 5km)	wireless communication (communication distance≥1.5km)
Ambient Temperature	-40~+70℃	-40~+70°C
Working Altitude	≤2000m,special elevation needs to be customized	\$\leq\$2000m, special elevation needs to be customized
Relative Humidity	40℃, ≤95%	40℃, ≤95%

装置外形尺寸 ≥



size figure of master switch



size figure of phase-change switch

Note: this size is for reference only, refer to the manual for details

TYPICAL CASE 3

Question scene: A certain station area in Linyi, Shandong

Problem description: A certain station area in Linyi, Shandong with 315kVA public substation capacity, 190 families power users, radius of power supply is about 530 meters. Before installation, the specific unbalance is about 67.6%, imbalance problems urgently need governance

Treatment measure: install a set of HY-TPS series intelligent phase-change switch for governance, including 1 set of master switch, 19 sets of phase-change switches

Governance effect: after the devices put into operation, degree of unbalance is down to 12.3%, decreasing amplitude is reached 81.8%, governance effect is remarkable



post governance

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