10kV

Pole-mounted smart combined transformer



Overview

Pole–mounted smart combined transformer, researched and developed independently by People Electric Appliance Group, is a new–generation intelligent power distribution product with its own intellectual property right. This product is composed of low–loss energy–saving transformer, pole–mounted intelligent transformer control cabinet, measuring box and monitoring equipment and so on. The product is installed on outdoor distribution transformer rack, and is a new alternative for traditional transformer and JP cabinets.

The application of pole–mounted smart combined transformer can simplify the installation process of equipment, save the time and space of equipment installation, improve safety performance of equipment, reduce energy consumption of equipment in operation, and save equipment investment; meanwhile, it can effectively prevent equipment theft and electricity stealing, and has the advantages such as convenient installation, operation and maintenance, intelligent protection and monitoring and intelligent reactive power compensation; the product's performance has reached the domestic advanced level.

Model designation

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- Rated voltage (kV)
- Rated capacity (kVA)
- Code of transformer performance level
- Three–phase
- Pole–mounted
- Intelligent
- Enterprise code

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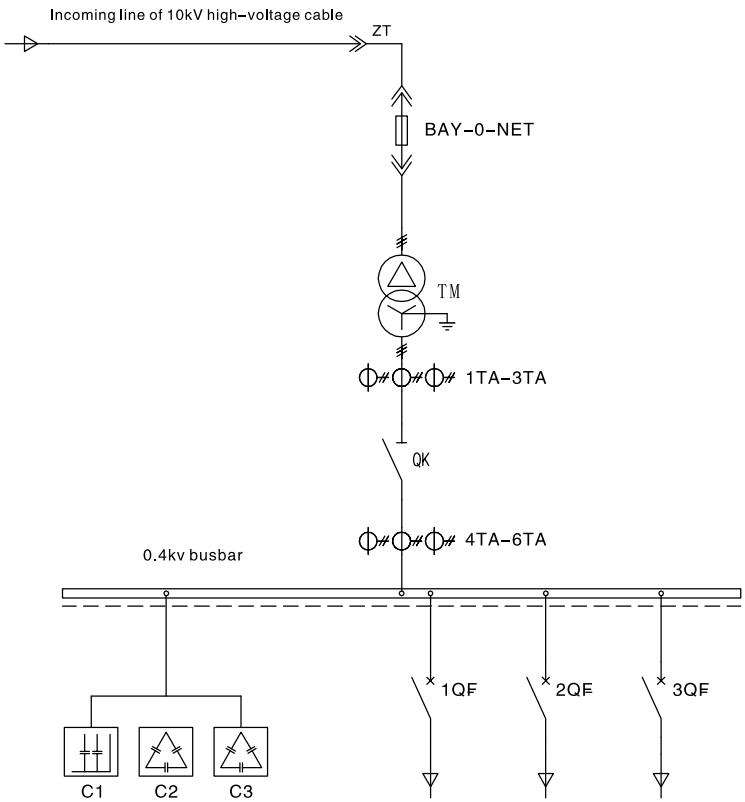
Technical parameters

No.	Item	Unit	Technical parameters
1	Rated primary voltage	kV	6~10
2	Rated secondary voltage	kV	0.4
3	Maximum working voltage	kV	12
4	Rated frequency	Hz	50
5	Rated capacity	kVA	100~400
6	1min power frequency withstand voltage	kV	35
7	Lightning impulse withstand voltage	kV	75
8	Voltage range		±2×2.5% or ±5%
9	Short circuit impedance	%	4
10	Link group		Dyn11 or Yyno
12	Inlet and outlet methods		Cable and overhead line
13	Outlet circuit	回	2–3
14	Reactive power compensation capacity		Transformer capacity 10%~40%
15	Compensation mode		Intelligent compensation
16	Method of primary side protection		Fuse protection
17	Method of primary side protection		Intelligent circuit breaker protection
18	Ambient temperature		–20~+40
19	Conditions of usage	℃	Outdoor type
20	Installation method		Cement double pole installation

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Primary schematic diagram



Zt:Elbow cable head

Bay-O-Net:Fuse

TM:Low-loss energy-saving transformer

QK:Knife switch

QF:Intelligent molded case circuit breaker

C:Intelligent capacitor

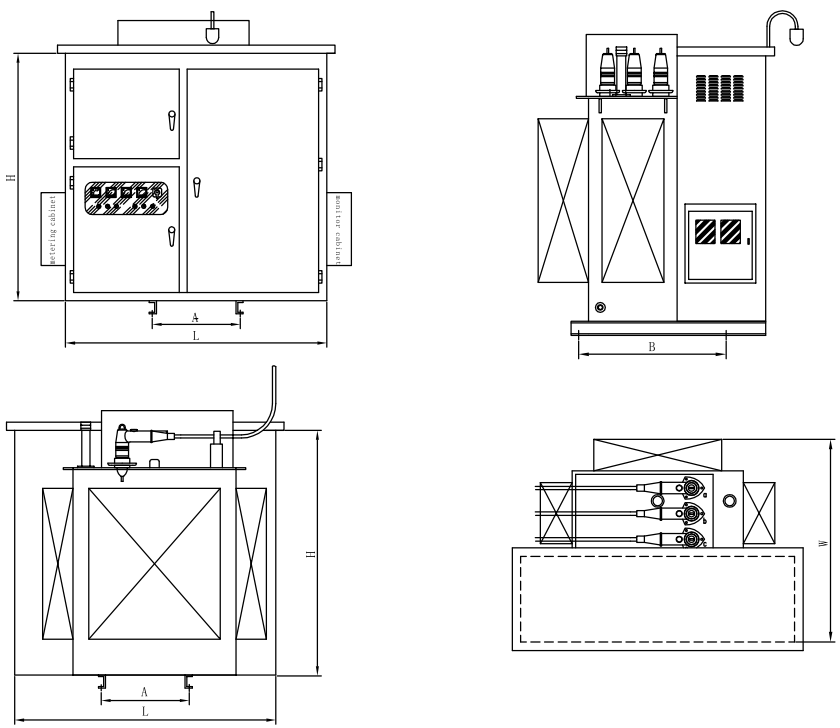
TA:Current transformer

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External dimensions of product



Capacity(KVA)	L	W	H	A	B
100	1100	960	1100	400	750
125	1100	980	1100	400	750
160	1200	1035	1200	550	850
200	1200	1050	1200	550	850
250	1200	1085	1200	550	850
315	1300	1115	1200	550	850
400	1300	1155	1200	550	850

Note: the above dimensions are only reference for design, and the full size shall prevail when ordering.