MERHEIN
Technical Datasheet

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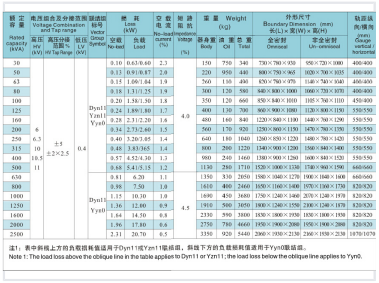
11kV Three-Phase Oil-Immersed Trans-former

This three-phase transformer is oil-immersed for enhanced insulation and cooling. It features on-load tap changing for voltage regulation without power interruption.



Rated capacity (kVA)	Voltage Combination and Tap range HV (kV)	HV Tap Range	LV (kV)	Vector Group Symbols	Loss (kW) No-load	Loss (kW) Load	No-load current (%)	Impedance Voltage (%)	Weight (kg) Body	Weight (kg) Oil	Weight (kg) Total	Boundary Dimension (mm) (长(L)×宽(W)×高(H)) Oil-immersed	Boundary Dimension (mm) (长(L)×宽(W)×高(H)) Un-oninsoul	Track Gauge (mm) Gauge-vertical / horizontal
30					0.10	0.63/0.60	2.3		150	750	340	730×780×950	950×720×1080	400/400
50					0.13	0.91/0.87	2.0		220	950	440	800×750×965	1020×700×1035	400/400
63					0.15	1.06/1.04	1.9		560	110	490	870×760×970	1140×740×1040	400/400
80					0.18	1.31/1.35	1.9		300	120	580	840×800×1000	1060×730×1070	400/400
100					0.20	1.58/1.50	1.8		350	120	660	850×840×1010	1105×760×1110	450/400
125				Dyn11 Yzn11 Yyn0	0.24	1.89/1.80	1.7	4.0	400	130	700	860×900×1080	1120×800×1150	550/550
160	6	±5 ±2×2.5	0.4		0.28	2.31/2.20	1.6		480	160	840	1220×840×1100	1440×760×1290	550/550
200	6.3				0.34	2.73/2.60	1.5		560	170	920	1250×900×1150	1470×780×1350	550/550
250	10				0.40	3.20/3.05	1.4		640	180	1040	1260×850×1220	1480×780×1420	550/550
315	10.5				0.48	3.83/3.65	1.4		800	200	1220	1340×900×1200	1580×840×1400	550/550
400	11				0.57	4.52/4.30	1.3		900	240	1460	1380×900×1260	1600×840×1320	550/550
500					0.68	5.4/5.15	1.2		1130	280	1710	1520×1000×1330	1730×960×1390	660/660
630					0.81	6.20	1.1		1350	330	2050	1580×1040×1270	1900×1040×1600	660/660
800					0.98	7.50	1.0		1610	400	2460	1650×1160×1400	1970×1360×1730	820/820
1000				Dyn11 Yyn0	1.15	10.10	1.0		1690	430	2680	1750×1240×1460	2070×1240×1870	820/820
1250					1.36	12.60	0.9	4.5	1910	500	3050	1800×1240×1550	2100×1240×1870	820/820
1600					1.64	14.50	0.8		2330	590	3600	1830×1800×1950	1850×1800×1930	820/820
2000					1.96	17.40	0.6		2750	760	4660	1950×1900×2000	1950×1900×2090	820/820
2500					2.31	20.70	0.5		3350	920	5440	2060×1930×2130	2300×1930×2130	1070/1070

注1：表中斜线上方的负载损耗值适用于Dyn11或Yzn11联结组，斜线下方的负载损耗值适用于Yyn0联结组。
Note 1: The load loss above the oblique line in the table applies to Dyn11 or Yzn11; the load loss below the oblique line applies to Yyn0.

ADDITIONAL IMAGES

Product Overview

High-Efficiency 11kV Oil-Immersed Transformer

This three-phase oil-immersed transformer is engineered for reliable power distribution in industrial and utility applications. It features excellent overload capacity and short-circuit withstand capability, ensuring stable performance under demanding conditions. Designed for longevity, the unit incorporates efficient heat dissipation and low-noise operation to meet modern infrastructure requirements.

Core Performance

Key Performance Advantages

- Excellent overload capacity
- High short-circuit withstand capacity
- Low operational losses
- Low noise emissions
- Efficient heat dissipation
- Long service lifespan

Electrical Specifications

Voltage Ratings

11 kV	0.4 kV	4.5 %
High Voltage (HV)	Low Voltage (LV)	Impedance Voltage

Vector Group Symbols	Dyn11, Yzn11, Yyn0
HV Tap Range	±5% or ±2×2.5%

Rooms 05–15, 13A/F South Tower, World Finance Centre, Harbour City, 17 Canton Rd, Tsim Sha Tsui, Kowloon, Hong Kong

Operating Conditions

Average Temperature Limits

- Hottest monthly average: +30°C
- Hottest yearly average: +20°C

Installation Standards

- Altitude: Below 1000m above sea level
- Power supply wave: Similar to sine wave
- Phase symmetry: Approximately symmetrical three-phase voltage
- Environment: Installation without evidence of filth

Ambient Air Temperature	-25°C to +40°C

Technical Data Table

Capacity and Loss Data

Rated Capacity (kVA)	No-load Loss (kW)	Load Loss (kW)	Total Weight (kg)
30	0.1	0.63/0.60	730
100	0.2	1.58/1.50	660
500	0.68	5.41/5.15	1710
1000	1.15	10.30	3680
2500	2.31	20.70	5440

Physical Construction

Cooling Method

Oil-Immersed • Cooling Fins

Enclosure Options	Omniseal, Un-omniseal