https://www.rockwill.com

H59

HV/LV distribution transformer

Three Phases Transformer
Pad Mounted



Comply with IEC 60076 & NF C52-112
Provided customized manufacture
Whole solutions for design, assembly, test...
Accountable solution for safety and reliability
Wide range offering, easy business and convenient installation

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Rockwill Group is one of the leading high technical enterprises professional deals in medium high voltage switchgear and components develop, manufacture and sales.
Located in Wengyang Industrial Zone, Wenzhou, used to known as Yueqing Real Electric Works (Registered in 1986), we have more than 20 years experiences in Medium & high voltage field. We strategically cooperate with worldwide high reputation medium& high voltage switchgear manufacturer and research institute, successfully developed series of medium voltage mutually; filled the blank in China.
We also teamed up with province grade intelligence high voltage switch laboratory, together developed new generation intelligence simultaneous technical vacuum switch, electronic current transformer, digital integrated substation etc. through the cooperation we obtain plenty achievements and build up experience technical team. Plentiful talent backup, advanced production equipment, perfect quality control system and reverse inspection procedure are powerful guarantee of our reliable product quality and high reputation.
We have always insisted the faith on grow together with customers, and to provide a safe, simply, green and efficient medium & high voltage switchgear and components.

ROCKWILL®, China. Provide with best support.
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ROCKWILL® Electric strives to bring our customers the latest technology and competitive pricing and best service for distribution automatic.
With the development of the power industry, driven by urbanization, equipment intensification, technological advancements, and the urgent need for scenario adaptability, Rockwill has successfully developed the Top-Mounted High/ Low Voltage Bushing Transformer (commonly known as the H59 Distribution Transformer), leveraging years of electrical design experience and integrating global advanced technical concepts.
The H59 refers to a power transformer where both the high-voltage and low-voltage bushings are vertically installed on the top of the unit. This structural design allows all high- and low-voltage leads to be routed through the top, making it suitable for scenarios with strict lateral space constraints or requiring vertical busbar connections. It is a common type of oil-immersed transformer.

Service environment

Temperature	Maximum ambient temperature: +50℃; Top oil temperature rise: +50℃ Average winding temperature rise: +55℃
Humidity:	Daily average humidity 100%.
Above sea level:	Maximum installation altitude: 1000m.

Note:

1. If it needs to be installed in plateau areas with an altitude higher than 1,000 meters, it is essential to consult with the manufacturer to take necessary measures to strengthen insulation during the ordering process.
2. If it needs specific temperature rise requirements, please consult the manufacturer.

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This range of transformers complies with the following standards:

IEC 60076 and 60354, NF C52-112-1, HD 428.1, and HN 52-S-20.

The transformers meet the following specifications:

- ◇ Oil-immersed in mineral oil
- ◇ High-voltage (HV) and low-voltage (LV) windings made of copper
- ◇ Outdoor installation
- ◇ Natural oil and air circulation cooling (ONAN)
- ◇ Sealed tank with full oil filling
- ◇ Bolted cover on tank
- ◇ Standard anti-corrosion treatment and coating
- ◇ Color: RAL 7033 Gray

Additional specifications can be provided upon customers' request.

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Each transformer is equipped with:

- ◇ 1 × Five-position regulating off-circuit tap changer
- ◇ 3 × Plug-in HV bushings according to HN 52-S-61
- ◇ 4 × Dry-type LV bushings
- ◇ 2 × Lifting and untanking lugs
- ◇ 2 × Grounding terminals
- ◇ 1 × Nameplate
- ◇ 1 × Integrated protection device
- ◇ 1 × Oil drain valve
- ◇ 4 × Flat orientable rolling pads



Note: The fittings are for standard configurations, and we can customize them according to customer specifications.

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The Deadbreaker Bushing Inter is molded from high quality insulating epoxy material. It meets all the requirements of the IEC 60137 standard. The interface is Type A, per the specifications of standard EN 50181 and 50180. The Enoch Deadbreak Bushing Inter is for use in equipment insulated with oil fluid, typically for transformers, switchgear capacitors.

For 15kV or 20kV transformers, we typically use Deadbreak Straight Receptacles and Deadbreak Elbows. Both are fully shielded and insulated termination for connecting underground cable to transformers, switchgear, and other apparatus equipped with deadbreak bushings, junctions, or other deadbreak connectors.



Deadbreak Straight Receptacle



Deadbreak Elbow

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For 630A 33kV transformers, we typically use T Cable Connectors, which provide a fully screened and fully submersible connection when mated with the proper bushing or plug. For connection of polymeric cable to transformers, switchgear, motors, and other requirements equipment with a pre-molded separable connector. These 36kV 630A T Cable Connector are made by EPDM with the good quality.

The 630A 33kV Apparatus Bushing are designed for European type Cable Branch Cabinet, Power Surrounding Supply Cabinet, Used in European type Cable Branch Cabinet connecting with high voltage and wind power substation. These bushings can connect with the deadbreak cable connector. These bushing are made by Epoxy Resin with good mechanical and electrical properties.



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The DMCR and DGPT2 are two type of protection relay that integrates detection, measurement and control functionalities into a single unit. It is designed for the hermetically sealed oil immersed transformers without gas cushion. This device enables complete control the tank's internal parameters, i.e. pressure, temperature, oil level & gas detection.



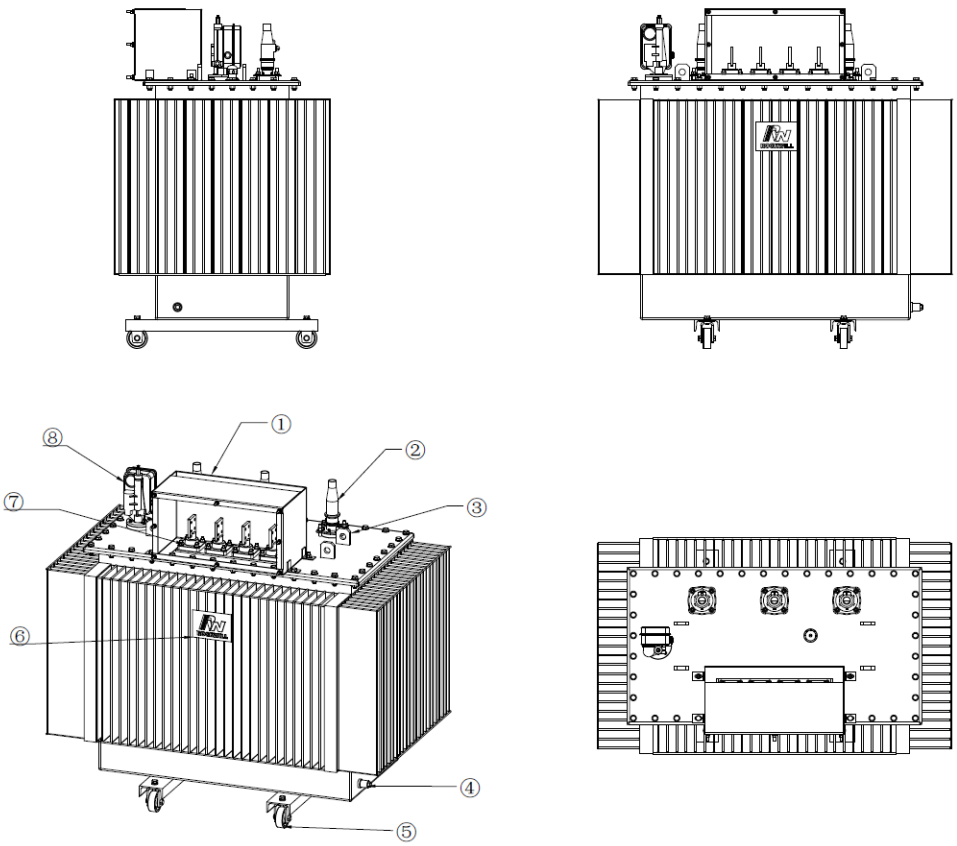
DMCR



DGPT2

Note: We offer various types of relays, and customers can select the appropriate ones based on their specific requirements.

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① LV cable box
② Plug-in HV bushing
③ Lifting lug
④ Oil drain valve
⑤ Roller
⑥ Nameplate
⑦ Dry-type LV bushing
⑧ Integrated protection device

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- **Rated primary voltage**: 15kV or 20kV or30kV

Dual primary voltage design: 10/20kV. For 15/20kV or 20/33kV configurations (unless otherwise specified).

- **Rated secondary voltage:**

Low voltage (LV): 230V, 440V, 515V, 690V, 1000V

Medium voltage (MV): 3000V to 10000V (special case for MV /MV transformers).

- **Tapping**: ±2×2.5%

- **Winding connection**:

Supports any winding configuration or specific phase angle

High-voltage winding with neutral terminal (for step-up transformers).

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Power	No-load loss	Load loss	Impedance voltage	Efficiency (%)			
kVA	W	W	%	75%		100%	
				cosΦ =0.8	cosΦ =1	cosΦ =0.8	cosΦ =1
50	145	1350	4	97.07	97.65	96.40	97.10
100	210	2150	4	97.69	98.14	97.13	97.69
160	460	2350	4	98.18	98.54	97.85	98.27
250	650	3250	4	98.37	98.70	98.09	98.46
400	930	4600	4	98.56	98.84	98.30	98.64
630	1300	6500	4	98.71	98.96	98.48	98.78
800	1220	10700	6	98.51	98.81	98.17	98.53
1000	1400	13000	6	98.57	98.85	98.23	98.58
1250	1800	16000	6	98.58	98.86	98.25	98.60
1600	2200	20000	6	98.62	98.89	98.30	98.63
2000	2600	25500	6	98.61	98.88	98.27	98.61
2500	3350	32000	6	98.60	98.87	98.26	98.61

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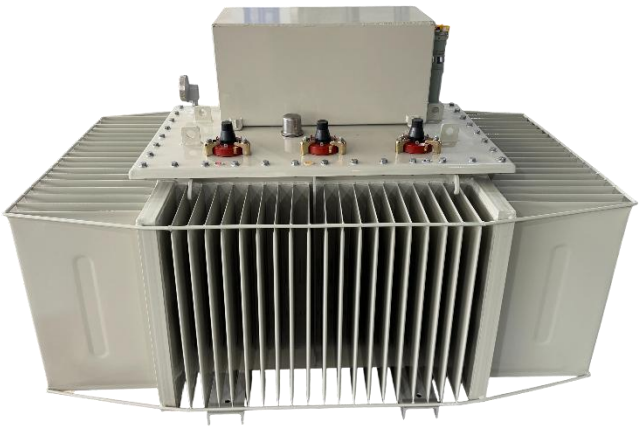


Field service operation and warranty issues:

ROCKWILL® can provide competent, well trained field service representatives to provide technical guidance and advisory assistance for the installation, overhaul, repair and maintenance of ROCKWILL® equipment, processes and systems.

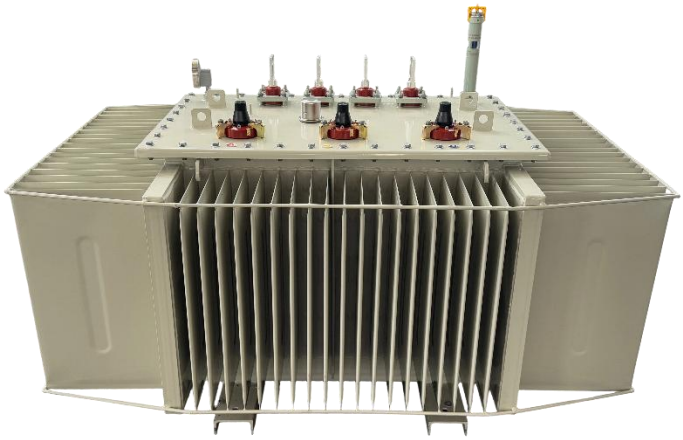
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