



## PAD MOUNTED TRANSFORMERS



**Pad mounted transformers**, are equipments used in underground distribution systems, which are installed on a base or concrete slab called “pedestal”. They are used for residential applications, shopping centers, buildings, hotels, among others, and in general in those cases in which safety, space or aesthetics power supply is required with shielded medium voltage underground dry cable.

The line of pad-mounted transformers of the Rymel brand, offers equipment with great safety and reliability for electrical networks, due to the fact that they have built-in connection, protection and maneuver elements typical of a substation. Pedestal transformers can be three-phase or single-phase. The transformer uses high voltage dead front type terminals, that is, it does not have exposed energized parts and is located inside a cabinet, with safety sealed compartments, which have doors and locks for both the low voltage side and the high voltage side, which makes it a very safe equipment.

Rymel has a complete manufacturing line of pad-mounted transformers, using high-quality materials and certified manufacturing processes (ISO 9001, ISO 14001, ISO 45001, BASC, UL), which result in equipment with a high safety margin that meets with IEEE C57.12.34, IEEE C57.12.28, IEEE C57.12.29, IEEE C57.12.38, NTC 3997, NTC 5074 and RETIE standards.



TECHNICAL CHARACTERISTICS		
	ONE PHASE	THREE PHASES
<b>CAPACITY</b>	From 5 kVA up to 500 kVA	From 30 kVA up to 5000 kVA
<b>PHASES</b>	1	3
<b>TENSION</b>	Up to 34 kV	
<b>BIL</b>	Up to 200 kV	
<b>WINDING MATERIAL</b>	Aluminum or copper	
<b>COOLING CLASS</b>	ONAN	ONAN-ONAF
<b>FREQUENCY</b>	60 0 50 Hz	
<b>TAP CHANGER</b>	± 2, 2.5% or according to customer requirements.	
<b>TYPE</b>	Radial or Loop Feed	
<b>TEMPERATURE RAISE</b>	Typically 65/65°C, or according to customer requirements.	
<b>K FACTOR</b>	K1, K2, K4, K6, K9, K13, K20 or according to customer requirements.	
<b>TYPE OF EFFICIENCY</b>	Class A, B, C o D; DOE	
<b>TYPE OF INSULATION</b>	Mineral or Biodegradable	
<b>TANK</b>	Manufactured with cold rolled and hot rolled sheet steel with a desing that allows it to withstand internal pressure and mechanical syress. Or with stainless steel.	
<b>PAINT SYSTEM</b>	Special electrostatic paint of great resistance and durability, especially for outdoors and corrosive enviroments.	
<b>GASKETS</b>	Highly durable and compatible with dielectric oil, to guarantee the life of the equipment.	
<b>ACCESSORIES</b>	<ul style="list-style-type: none"> <li>- Dead front type high tension bushings (wells, inserts, elbows). <ul style="list-style-type: none"> <li>- Low tension bushings</li> </ul> </li> <li>- Support for parking hubs in AT <ul style="list-style-type: none"> <li>- Overpressure valve</li> <li>- Oil level gage</li> </ul> </li> <li>- Drain valve with sampling mechanism <ul style="list-style-type: none"> <li>- Ground connector</li> <li>- Lifting and fixing devices</li> </ul> </li> <li>- Nameplate made of high-strength anodized aluminum <ul style="list-style-type: none"> <li>- Tap switch</li> </ul> </li> <li>- High and low voltage cabinets with doors and locks</li> </ul>	
<b>STANDARD</b>	IEEE C57.12.34, IEEE C57.12.28, IEEE C57.12.29, IEEE C57.12.38, NTC 3997, NTC 5074 and RETIE	

#### ELEMENTS OR PROTECTION AND MANEUVER

- Removable and interchangeable Bay-O-Net type fuses, which protect the equipment against external events such as extreme overloads and external short circuits in the secondary network.
- Built-in limiting fuses that protect the primary network from high current faults in the windings.
- DPS or elbow-type surge arresters, which protect the equipment against overvoltages produced in the network.
- Breaker with opening capacity under load, which allows to carry out switching operations.

