



Transformer Premagnetization System RPRM

(PREMAG SYSTEM)

The RPRM System is a full customize Unit that prepare power transformer for the connection to network.
The Unit designed for Heavy Industry and Marine Applications.

RUTECH
ENERGY SYSTEMS

Transformer Premagnetization System RPRM

Rutech has 15 years of experience in the field of power systems and is a UNI EN ISO 9001 certified company.

Cause and Effect

The connection of a power transformer to the network can arise some problems such as high inrush currents, sometimes up to 20 times of the nominal current. This inrush period can last for more than 5 or 10 seconds. That can cause many problems like: voltage drop on the network and physical tension on the cables and the windings of the transformer itself.

Solution

The Rutech premag system is a system that prepares the power transformer for the connection to the network.

The premag is connected to the windings of the secondary of the power transformer and premagnetize the core prior the connection of the primary to the network, after the premagnetization of the core the power transformer is ready to be connected to the network. The result is no inrush current.

After that the transformer can be connected to the network without any inrush current and without any voltage drop to the network and any physical tension to the cables and the transformer itself.

The result of the no inrush current, is very important especially for "weak networks" because of no voltage drop.

For industrial applications also with several power transformers after a blackout, the premag system reduces a lot the time for the recovery because of the no inrush current.

Every premag system is ready for use, with terminals for the connections of the power cables and for control signals. The premag system can also be equipped with remote control unit for manual use.

Rutech can provide premag systems for all kinds of power transformers of all manufacturers.

Every premag system is custom made and it is based on the specific characteristics of each power transformer.

Benefits and Features

- Inrush current $< 1 \times I_n$
- No voltage drop on weak networks
- Faster recovery time after a blackout
- No physical stress on the construction of the transformer
- Increasing the life time of the transformer
- Solution for all kinds of power transformer, low or medium voltage
- PLC controlled system for the complete control of the premagnetization process

Applications

- Pre magnetization Medium Voltage Transformers
- Industry Substations
- Grid connected P/V Plants
- Hospitals Substations
- Container Terminals Query Cranes
- Harbor Cranes
- Vessels Substations



ALL PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHER.

RUTECH
ENERGY SYSTEMS

20, Themidos str., 177 78 Tavros - Athens, Greece
T: +30 210 9531260-1, F: +30 210 9510380
email: info@rutech.gr www.rutech.gr



ISO 9001: 2015