

TALAS DRYER

Talas Dryer

Talas Dryer is a device for monitoring and drying winding insulation of alternating current driven electric motors. Talas Dryer is installed close to the motor control center (MCC) and it is connected to the phases and earth of the electric motor's feed circuit. Talas Dryer has Modbus protocol for automation and control system integration. It is also possible to transfer measuring and operational data via M2M-modem to Talas Monitoring system. Talas Monitoring is an intellectual monitoring system that allows its users to monitor their electric motors from any computer or smart device. Talas Dryer can be purchased with connection box that allows using it for Ex-classified motors (ATEX Box) and using one Talas Dryer for monitoring and drying several electric motors (Talas Multiplexer).

Operation

Talas Dryer dries, heats and measures electric motors by feeding direct current to phases of a de-energized electric motor. Talas Dryer switches on the drying mode when the insulation resistance has fallen below the low value and it stops the drying after the insulation resistance has reached the high value (low and high values can be given by the user). Talas Dryer also has an intellectual standby heating mode. In the standby heating mode, it feeds low current impulses to the windings. Insulation resistance is also measured during the standby heating mode. When the motor is running Talas Dryer goes into standby mode and starts measuring the insulation resistance 15 minutes (default setting) after the motor has switched off. It is also possible to control Talas Dryer with commands from the centralized automation system.

Where to use?

New and old electric motors that are installed or will be installed to a humid place, to a place where they could be in direct contact with water (flooding) or where they may experience significant changes in surrounding air temperature. The nominal voltage of the electric motors should be less than 1000V and the nominal current should be less than 300A (approximately 200kW, 400V and 320kW, 690V). Great alternative for energy consuming heating cables and block heaters offered by motor manufacturers.

Check datasheet for more information
(<http://talaselectric.com/dryer/>)

Technical Information:

Manufacturer: Talas Electric Oy
Model: TD-10/50, TD-20/50, TD-30/50, TD-50/50,
TD-90/50, TD-130/50
Input voltage: 220-240 VAC
Input current: 5-10 AAC (depending on the model)
Input frequency: 50-60Hz
Input power: 400W – 1500W (depending on the model)

IP: 20
Output voltage: 3-50 VDC, Optional test voltage 105VDC
Output current: 0-130 ADC (depending on the model)
Measuring zone: 0 – 20M Ω (50VDC), Optional 0 – 60M Ω (105VDC)
Communications protocol: Modbus
Communication interface: RS-485

