



УДК 665.642.2

## СИСТЕМА КОНТРОЛЯ ПОТЕРЬ ЭНЕРГИИ



## CONTROL SYSTEM OF ENERGY LOSS

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**Аннотация.** Выбор устройства и программного обеспечения позволяет оптимизировать параметры качества системы и контролировать погрешности измерений, а также размер параметров измерений.

**Annotation.** Choosing device and software is optimizing quality parameters of the system and controlling errors in measurement also the size of the measurement parameters.

**Ключевые слова:** потеря электроэнергии, асинхронные двигатели, передача энергии, частота, амплитуда, фаза.

**Keywords:** electricity loss, asynchronous motors, power transmission, frequency, amplitude, phase.

It is often required effective use electricity from the electrical grid for increasing efficiency of production. The main problem in this situation it is how to decrease electricity loss. The main part of the loss is in the asynchronous motors which have power transmission. There are some consumer of electricity which have inductance character. They are also have power losses and they producing reactive power [1].

In thus thesis we will see how to improve efficiency of using electricity and controlling active and reactive power. It is recommended to create control system for measuring main parameters of the electrical devices. For measuring voltage with control system we need to know frequency, amplitude and phase.

Choosing device and software is optimizing quality parameters of the system and controlling errors in measurement also the size of the measurement parameters. At the same times provides using measurement and conversion.

The first results show that this system will reduce power loss and harmful compensation [2].

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