



TECHNICAL REQUIREMENTS

ELECTRICAL

Document No. OL-TR-ER-000

OVERVOLTAGE PROTECTION

Document No. OL-TR-ER-032

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1. SCOPE

The present document is intended to define the technical requirements for the overvoltage protections.

2. REFERENCES

The following standards, acts of law and other documents are referenced in the standards:

Elektros įrenginių įrengimo bendrosios taisyklės, patvirtintos energetikos ministro 2012 m. vasario 3 d. įsakymu Nr. 1-22 (Žin., 2012, Nr. 18-816)

Elektros linijų ir instaliacijos įrengimo taisyklės, patvirtintos energetikos ministro 2011 m. gruodžio 20 d. įsakymu Nr. 1-309 (Žin., 2012, Nr. 2-58), įsakymo pakeitimas – 2012 m. gruodžio 12 d. įsakymu Nr. 1-268 (Žin., 2012, Nr. 147-7585)

Elektros įrenginių relinės apsaugos ir automatikos įrengimo taisyklės, patvirtintos energetikos ministro 2011 m. gegužės 27 d. įsakymu Nr. 1-134 (Žin., 2011, Nr. 67-3199)

Skirstyklų ir pastočių elektros įrenginių įrengimo taisyklės, patvirtintos energetikos ministro 2011 m. gruodžio 15 d. įsakymu Nr. 1-303 (Žin., 2011, Nr. 165-7886)

Specialiųjų patalpų ir technologinių procesų elektros įrenginių įrengimo taisyklės, patvirtintos energetikos ministro 2013 m. kovo 5 d. įsakymu Nr. 1-52 (Žin., 2013, Nr. 27-1299)

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General Requirements

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3. TERMS AND DEFINITIONS

For terms and definition see:

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Electrical. General

4. GENERAL

- 4.1 Transient operation in circuit with isolated zero point (compensated neutral) should be taken into account in 6 kV installations.
- 4.2 Electrical installation overvoltage protection should be coordinated with overvoltage protection of other installations requiring overvoltage protection, e.g. installations of guaranteed voltage, telephone, technical and aerial installations.
- 4.3 Overvoltage protection by means of Overvoltage Protectors will cover individual sections of bus bars in medium and low voltage switchgears. Usually consumers won't

be equipped with additional overvoltage protection devices, unless Vendor explicitly points it out.

- 4.4** Overvoltage Limiters should in LV should be connected through circuit breakers. The circuit breakers should disconnect failed Overvoltage Limiters without disturbance of continuous powering of electrical users.
- 4.5** The C+D class overvoltage protection shall be used for indoor installation of UPS powering and distribution panels.
- 4.6** The B+C class overvoltage protection shall be used for outdoor installation of UPS powering and distribution panels.
- 4.7** Obligatory Regulations of European Union should be applied (after earlier obtaining of OL'S acceptance) in the case when economic reasons indicate on solutions different from above mentioned ones