REQUIREMENTS FOR OVERVOLTAGE PROTECTION
BS 7671:2018 18TH EDITION IET WIRING REGULATIONS (443.4)

1 Where overvoltage could cause serious injury/loss of human life or interruption of public services, disruption to commercial and industrial activity or affects a large number or co-located individuals.

2 For all other cases (not listed in 1) a risk assessment should be carried out, using the method shown in regulation 443.5, to determine whether protection against transient overvoltage of an atmospheric origin is required.

3 An exception may be permitted for single dwelling units if the total value of the installation and the equipment connected to it does not justify the protection.

If risk level calculation is less than 1,000

Protection against the effects of transient overvoltages should be provided.

If no risk assessment carried out.

Protection against the effects of overvoltages of atmospheric origin should be provided.

(For single dwelling see No.3 above)

The decision to install protection will depend on the assessment (made by the designer) of the value of the installation and equipment connected to the installation of the dwelling.

Where overvoltage protection is provided by the use of surge protection devices, selection and installation of these devices shall be in accordance with Section 534 of BS 7671.

#63 Surge Protection - safeguarding your data and productivity.

#34 Overvoltage protection. We’ve been doing it for years.

#27 Overvoltage protection for household appliances and personal devices.

For further information contact Wylex Technical - Telephone: 01543 438320 eMail: wylex.technical@electrium.co.uk

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This overview is not a substitute for the IET wiring regulations which should always be used for electrical design & electrical installation works.