



making Newnes Electrical Power Engineer's Handbook an invaluable guide for today's electrical power engineer. · A unique, concise reference book with contributions from eminent professionals in the field · Provides straightforward and practical explanations, plus key information needed by engineers on a day-to-day basis · Includes a summary of key standards at the end of each chapter

A Guide to the EU Directive on Electromagnetic Compatibility Products and Services Catalogue Guidelines on the Application of Council Directive 89/336/EEC of 3 May 1989 on the Approximation of the Laws of the Member States Relating to Electromagnetic Compatibility (Directive 89/336/EEC Amended by Directives 91/263/EEC, 92/31/EEC, 93/68/EEC, 93/97/EEC). Standards Catalogue Functional safety of machine controls Application of EN ISO 13849 DGVV/IFA

All electric and electronic products designed and produced for export to the European Economic Area (EEA) must now conform to the new EMC Directive 89/336/EEC, which came into force in 1996. Under these regulations, all devices designated for free trade must satisfy certain minimum requirements regarding safety and electromagnetic compatibility. CE Marking for the EMC Directive is a pivotal guide to achieving certification. It examines the requirements imposed by the EMC Directive and the various routes, which must be taken to achieve full compliance. This comprehensive volume explains how companies can certify their own products, saving both time and money. It contains the complete text of the EMC Directive and answers frequently asked questions on the certification process. Practical examples and well-organized diagrams and drawings make this book invaluable to the electrical and electronic product designer or manufacturer.

This Part applies to transfer switching equipment (TSE) to be used in power systems with interruption of the supply to the load during transfer, the rated voltage of which does not exceed 1000V a.c. or 1500V d.c. It covers: — Manually operated switching equipment (MTSE); — Remotely operated transfer switching equipment (RTSE); — Automatic transfer switching equipment (ATSE). It covers TSE provided with or without an enclosure. Devices necessary for the control (e.g. control switches, etc.) and the protection (e.g. circuit-breakers, etc.) of a TSE shall comply with the relevant national standards. TSE used only for emergency lighting may be subject to specific rules and/or legal requirements and are not, therefore, covered by this standard.

The EN ISO 13849-1 standard, "Safety of machinery – Safety-related parts of control systems", contains provisions governing the design of such parts. This report is an update of BGIA Report 2/2008e of the same name. It describes the essential subject-matter of the standard in its third, revised 2015 edition, and explains its application with reference to numerous examples from the fields of electromechanics, fluidics, electronics and programmable electronics, including control systems employing mixed technologies. The standard is placed in its context of the essential safety requirements of the Machinery Directive, and possible methods for risk assessment are presented. Based upon this information, the report can be used to select the required Performance Level PL<sub>r</sub> for safety functions in control systems. The Performance Level PL which is actually attained is explained in detail. The requirements for attainment of the relevant Performance Level and its associated Categories, component reliability, levels of diagnostic coverage, software safety and measures for the prevention of systematic and common-cause failures are all discussed comprehensively. Background information is also provided on implementation of the requirements in real-case control systems. Numerous example circuits show, down to component level, how Performance Levels a to e can be engineered in the selected

technologies with Categories B to 4. The examples provide information on the safety principles employed and on components with well-tried safety functionality. Numerous literature references permit closer study of the examples provided. The report shows how the requirements of EN ISO 13849-1 can be implemented in engineering practice, and thus makes a contribution to consistent application and interpretation of the standard at national and international level.

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