BRITISH STANDARD

BS 5581:1978
EN 50013:1977

Specification for

Low voltage switchgear and controlgear for industrial use — Terminal marking and distinctive number for particular control switches

This European Standard EN 50013 was given as from 31 May 1978 the status of a British Standard

UDC 621.316.54:621.3.027.2:003.62

Cooperating organizations

The European Committee for Electrotechnical Standardization (CENELEC), under whose supervision this European Standard was prepared, comprises the National Committees of the following countries.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 4, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

This British Standard was published under the authority of the Executive Board on 31 May 1978

The following BSI references relate to the work on this standard:
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Draft for comment 73/26491 DC

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Amendments issued since publication

Amd. No.	Date of issue	Comments

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Key words: Electrical switchgear and controlgear — industrial use — low voltage — terminal — marking — distinctive number — auxiliary contact — control switch — push button — limit switch — contactor relay

English version

Low voltage switchgear and controlgear for industrial use Terminal marking and distinctive number for particular control switches

Appareillage industriel à basse tension
Marquage des bornes et nombre caracteristique pour des auxiliaires de commande particuliers

Industrielle Niederspannungs-Schaltgeräte
Anschlussbezeichnungen und Kennzahlen für bestimmte Befehlsgeräte

This European Standard was accepted by CENELEC on 31 January 1977. CENELEC members are committed in accordance with CENELEC Internal Regulations to give this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CENELEC General Secretariat or to any CENELEC member.

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CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B-1050 Brussels

Foreword

This European Standard has been prepared by CENELEC Technical Committee 17X.

Control switch contacts may be given a distinctive number and terminal marking in accordance with the General rules, EN 50005. On this basis, it is desirable to lay down more detailed rules for particular control switches, such as those defined in clause **1**.

Contents

1 Scope

This standard applies to control switches according to IEC Standard 337-1, with two definite positions (such as push-buttons, limit-switches and similar devices), irrespective of their construction, having terminal marking in accordance with the corresponding marking of contactor relays designated by the distinctive letter E (see EN 50011).

The use of this standard is recommended where terminal marking is a requirement of the relevant standard for control switches, or is usual practice.

2 Terminal marking rule

The contact terminal marking of a control switch is formed, in principle, by two figures.

2.1 Function number. The unit number is a function number, i.e.

1 – 2 for break-contacts;

3 – 4 for make-contacts;

1 – 2 – 4 for change-over contacts.

2.2 Sequence number. The figure of the tens is a continuous sequence number beginning with 1 (except for control switches designated 01), independently of the contact function.

The terminals belonging to the *same* contacts are marked with the *same* sequence number.

The sequence number may be omitted from the terminal marking only if additional information provided by the manufacturer or the user clearly gives such number.

NOTE The dots before the function shown in the above examples are used merely to show the relationship, and do not need to be used in practice.

3 Distinctive number

The quantity and type of the contact elements of a control switch according to this standard are indicated by a distinctive number.

In accordance with EN 50005, clause **6**, the first figure of the distinctive number gives the quantity of make-contact elements the second one the quantity of break-contact elements. The third one, if any, gives the quantity of change-over contact elements in the control switch.

4 Terminal numbering sequence

For control switches having the same distinctive number, the terminal marking is specified according to Table 1.

The position of the contact elements on the control switch may not correspond to that shown on the diagram of Table 1.

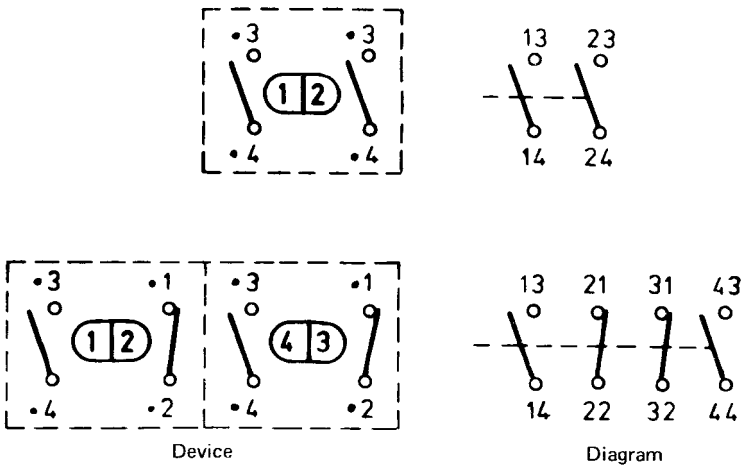
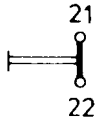
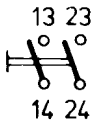
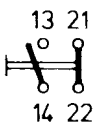
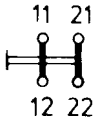
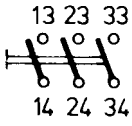
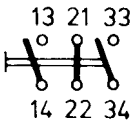
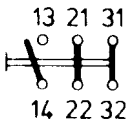
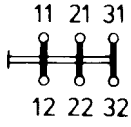
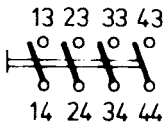
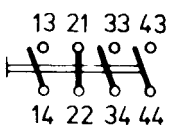
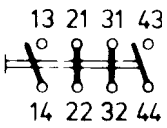
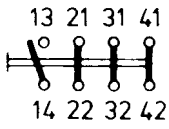
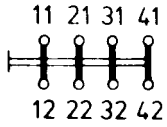
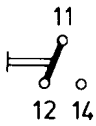
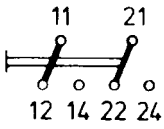


Table 1 — Diagrams of control switches

Distinc. number	Contact elements	Distinc. number	Contact elements	Distinc. number	Contact elements	Distinc. number	Contact elements	Distinc. number	Contact elements
10								01	
20		11						02	
30		21		12				03	
40		31		22		13		04	
001									
002									

National appendix A

The United Kingdom participation in the preparation of this European Standard came under the direction of the Power Electrical Engineering Standards Committee of BSI. The committee consists of representatives from the following Government departments and scientific and industrial organizations:

Associated Offices Technical Committee
Association of Short Circuit Testing Authorities*
British Electrical and Allied Manufacturers' Association (BEAMA)
British Railways Board
British Steel Corporation
Department of Energy (Electricity)
Electrical Contractors' Association*
Electrical Contractors' Association of Scotland
Electrical Research Association*
Electricity Supply Industry in England and Wales*
Engineering Equipment Users' Association*
Institution of Electrical Engineers*
Ministry of Defence*
National Coal Board*
Trades Union Congress

The organizations marked with an asterisk in the above list, together with the following, were directly represented on the committee involved with the work on this standard:

Association of Control Manufacturers (BEAMA)
Association of Supervisory and Executive Engineers
Control and Automation Manufacturers' Association (BEAMA)
Copper Development Association
Department of the Environment (PSA)
Electrical Installation Equipment Manufacturers' Association (BEAMA)
Electronic Components Industry Federation
Health and Safety Executive
The Transmission & Distribution Association (BEAMA)

National appendix B

With reference to the Foreword and clause **3**, EN 50005 has been published as BS 5472 "*Low voltage switchgear and controlgear for industrial use. Terminal marking and distinctive number. General rules*".

With reference to clause **1**, EN 50011 has been published as BS 5583 "*Low voltage switchgear and controlgear for industrial use. Terminal marking, distinctive number and distinctive letter for particular contactor relays*".

With reference to clause **1**, Part 1 "General requirements" of BS 4794 "*Control switches*" is technically equivalent to IEC 337-1.

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