BRITISH STANDARD

BS 5582:1978
EN 50012

Specification for

# Low voltage switchgear and controlgear for industrial use — Terminal marking and distinctive number for auxiliary contacts of particular contactors

This European Standard EN 50012 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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United Kingdom

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



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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.

EUROPEAN STANDARD

NORME EUROPÉENNE

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# EN 50012

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English version

# Low voltage switchgear and controlgear for industrial use Terminal marking and distinctive number for auxiliary contacts of particular contactors

Appareillage industrial à basse tension.
Marquage des bornes et nombre caracteristique pour les contacts auxiliaires de contacteurs particuliers

Industrielle Niederspannungs-Schaltgeräte.
Anschlussbezeichnungen und Kennzahlen für Hilfsschaltglieder von bestimmten Schützen

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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

Contactor auxiliary 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 auxiliary contacts of particular contactors, such as those defined in clause **1**.

## Contents

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

## 1 Scope

This standard applies to contactors according to IEC-Standard 158-1, irrespective of their power and construction, having terminal marking of auxiliary contacts 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 contactor auxiliary contacts, or is usual practice.

## 2 Terminal marking rule

The auxiliary contact terminal marking of a contactor 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;

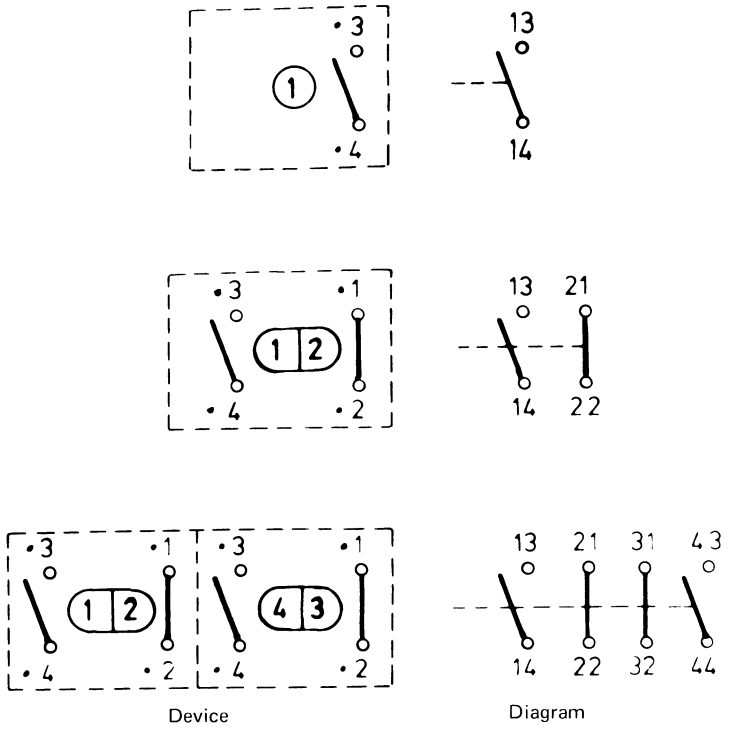
3 – 4 for make-contacts.

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

The terminals belonging to the *same* contact 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.

*Examples*




NOTE The dots before the function number shown in these 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 contactor auxiliary contact elements according to this standard are indicated by a distinctive number.

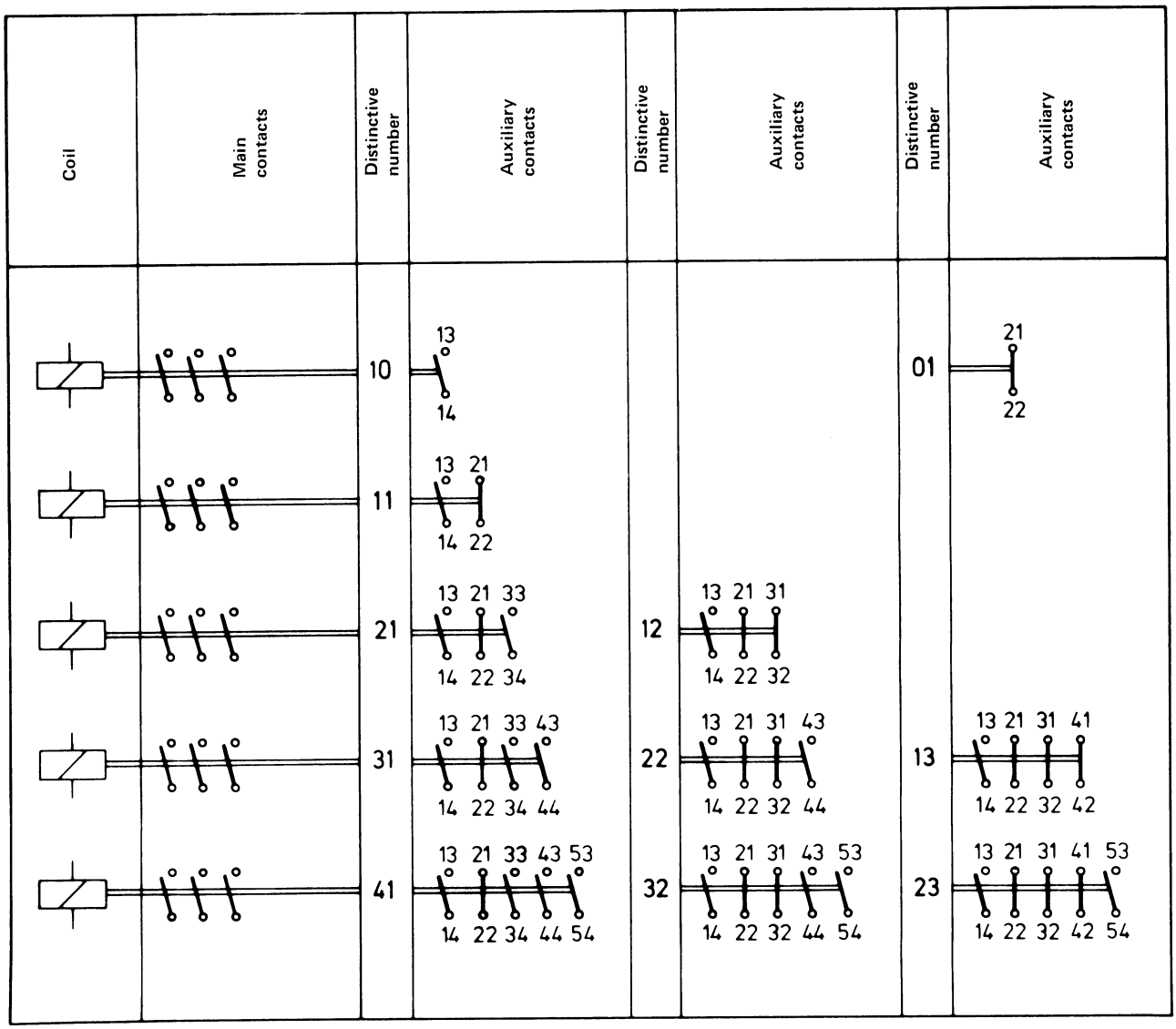
In accordance with EN 50005, clause **6**, the first figure of the distinctive number gives the quantity of make-contact elements and the second figure the quantity of break-contact elements.

## 4 Terminal numbering sequence

For the auxiliary contacts of contactors having the same distinctive number, the terminal marking are indicated according to Table 1.

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

**Table 1 — Diagrams of auxiliary contacts of contactors**



## 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
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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 "Contactors" of BS 5424 "*Controlgear for voltages up to and including 1 000 V a.c. and 1 200 V d.c.*" is identical with IEC 158-1.

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