

## SECTION H — ELECTRICITY

### H02 GENERATION, CONVERSION, OR DISTRIBUTION OF ELECTRIC POWER

**H02B BOARDS, SUBSTATIONS, OR SWITCHING ARRANGEMENTS FOR THE SUPPLY OR DISTRIBUTION OF ELECTRIC POWER** (basic electric elements, their assembly, including the mounting in enclosures or on bases, or the mounting of covers thereon, see the subclasses for such elements, e.g. transformers H01F, switches, fuses H01H, line connectors H01R; installation of electric cables or lines, or of combined optical and electric cables or lines, or other conductors for supply or distribution H02G)

#### Note(s)

This subclass covers boards, switchyards, switchgear or their installation, or the association of switching devices with each other or with other devices, e.g. transformers, fuses, meters or distribution boards; such associations constitute substations or distribution points.

#### Subclass index

BOARDS, OR DETAILS OF SUBSTATIONS OR SWITCHING ARRANGEMENTS.....	1/00
SUBSTATIONS.....	5/00, 7/00
SWITCHGEAR.....	11/00, 13/00
SUPERVISORY DESKS OR PANELS.....	15/00
MANUFACTURE.....	3/00

#### **1/00 Frameworks, boards, panels, desks, casings; Details of substations or switching arrangements [5]**

- 1/01 • Frameworks [5]
- 1/015 • Boards, panels, desks; Parts thereof or accessories therefor [5]
- 1/03 • • for energy meters [5]
- 1/04 • • Mounting thereon of switches or of other devices in general, the switch or device having, or being without, casing
- 1/044 • • • Mounting through openings [5]
- 1/048 • • • • Snap mounting [5]
- 1/052 • • • Mounting on rails [5]
- 1/056 • • • Mounting on plugboards [5]
- 1/06 • • having associated enclosures, e.g. for preventing access to live parts (shutters or guards for contacts H02B 1/14)
- 1/14 • Shutters or guards for preventing access to contacts (shielding of isolating-contacts in withdrawable switchgear H02B 11/24)
- 1/16 • Earthing arrangements (earthing arrangements for substations H02B 5/01, for switchgear H02B 11/28, H02B 13/075; earth plates, pins, or other contacts H01R 4/66) [5]
- 1/18 • Disposition or arrangement of fuses (for switchgear having a withdrawable carriage H02B 11/26) [5]
- 1/20 • Bus-bar or other wiring layouts, e.g. in cubicles, in switchyards (installations of bus-bars H02G 5/00)
- 1/21 • • Bus-bar arrangements for rack-mounted devices with withdrawable units [5]
- 1/22 • • Layouts for duplicate bus-bar selection
- 1/24 • Circuit arrangements for boards or switchyards (devices for displaying diagrams H02B 15/00; service supply H02J 11/00)

#### Note(s)

- In groups H02B 1/26-H02B 1/56, in the absence of an indication to the contrary, classification is made in the last appropriate place.
- 1/26 • Casings; Parts thereof or accessories therefor (adapted for a single switch H01H; enclosures for cables, lines or bus-bars H02G; distribution, connection or junction boxes H02G 3/08; casings in general H05K) [5]
- 1/28 • • dustproof, splashproof, drip-proof, waterproof or flameproof [5]
- 1/30 • • Cabinet-type casings; Parts thereof or accessories therefor [5]
- 1/32 • • • Mounting of devices therein [5]
- 1/34 • • • • Racks [5]
- 1/36 • • • • • with withdrawable units [5]
- 1/38 • • • Hinged covers or doors [5]
- 1/40 • • Wall-mounted casings; Parts thereof or accessories therefor [5]
- 1/42 • • • Mounting of devices therein [5]
- 1/44 • • • Hinged covers or doors [5]
- 1/46 • • Boxes; Parts thereof or accessories therefor [5]
- 1/48 • • • Mounting of devices therein [5]
- 1/50 • • Pedestal- or pad-mounted casings; Parts thereof or accessories therefor [5]
- 1/52 • • Mobile units, e.g. for work sites [5]
- 1/54 • Anti-seismic devices or installations (for buildings in general E04B 1/98) [5]
- 1/56 • Cooling; Ventilation [5]
- 3/00 Apparatus specially adapted for the manufacture, assembly, or maintenance of boards or switchgear**
- 5/00 Non-enclosed substations; Substations with enclosed and non-enclosed equipment**

## H02B

- 5/01 • Earthing arrangements, e.g. earthing rods [5]
- 5/02 • mounted on pole, e.g. pole transformer substation
- 5/06 • gas-insulated [5]
- 7/00 Enclosed substations, e.g. compact substations [5]**
- 7/01 • gas-insulated [5]
- 7/06 • Distribution substations, e.g. for urban network (H02B 7/01 takes precedence) [5]
- 7/08 • • Underground substations
- 11/00 Switchgear having carriage withdrawable for isolation**
- 11/02 • Details
- 11/04 • • Isolating-contacts, e.g. mountings, shieldings (shutters or guards for isolating contacts H02B 1/14, H02B 11/24; switch contacts H01H; line connectors in general H01R) [5]
- 11/06 • • Means for duplicate bus-bar selection (layouts for duplicate bus-bar selection H02B 1/22)
- 11/08 • • Oil-tank lowering means associated with withdrawal mechanism
- 11/10 • • Indicating electrical condition of gear; Arrangement of test sockets
- 11/12 • with isolation by horizontal withdrawal
- 11/127 • • Withdrawal mechanism [5]
- 11/133 • • • with interlock (interlock for switches in general H01H) [5]
- 11/167 • • truck type (H02B 11/127 takes precedence) [5]
- 11/173 • • drawer type (H02B 11/127 takes precedence) [5]
- 11/18 • with isolation by vertical withdrawal
- 11/20 • • having an enclosure
- 11/22 • • • wherein front of enclosure moves with carriage upon horizontal withdrawal subsequent to isolation
- 11/24 • Shutters or guards [5]
- 11/26 • Arrangement of fuses, resistors, voltage arresters or the like [5]
- 11/28 • Earthing arrangements [5]
- 13/00 Arrangement of switchgear in which switches are enclosed in, or structurally associated with, a casing, e.g. cubicle** (in association with main transformer H02B 5/00, H02B 7/00; switchgear having carriage withdrawable for isolation H02B 11/00) [5]
- 13/01 • with resin casing [5]
- 13/02 • with metal casing
- 13/025 • • Safety arrangements, e.g. in case of excessive pressure or fire due to electrical defect (for buildings in general E04B 1/94; devices for opening or closing safety wings E05F 1/00; emergency protective circuit arrangements for distribution gear, e.g. bus-bar systems, or for switching devices H02H 7/22) [5]
- 13/035 • • Gas-insulated switchgear [5]
- 13/045 • • • Details of casing, e.g. gas tightness (gas reservoirs for switches H01H 33/56) [5]
- 13/055 • • • Features relating to the gas (selection of fluids for switches H01H 33/22) [5]
- 13/065 • • • Means for detecting or reacting to mechanical or electrical defects (for switches H01H 9/50, H01H 33/26, H01H 33/53) [5]
- 13/075 • • • Earthing arrangements [5]
- 13/08 • with stone, brick, or concrete casing
- 15/00 Supervisory desks or panels for centralised control or display** (desks in general A47B)
- 15/02 • with mimic diagrams
- 15/04 • • consisting of building blocks
- 99/00 Subject matter not provided for in other groups of this subclass [2009.01]**