

Requirements for electrical installations

Part 6: Inspection and Testing

PUBLIC REVIEW DRAFT MARCH 2026

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TECHNICAL COMMITTEE REPRESENTATION

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Kenya Bureau of Standards — Secretariat

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Requirements for electrical installations

Part 6: Inspection and Testing

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Foreword

This Kenya Standard was prepared by the **Electrical Installations and Distribution Systems** Technical Committee under the guidance of the Standards Projects Committee, and it is in accordance with the procedures of the Kenya Bureau of Standards.

Kenya Bureau of Standards (KEBS) has established Technical Committees (TCs) mandated to develop Kenya Standards (KS). The Committees are composed of representatives from the public and private sector organizations in Kenya.

Kenya Standards are developed through Technical Committees that are representative of key stakeholders including government, academia, consumer groups, private sector and other interested parties. Draft Kenya Standards are circulated to stakeholders through the KEBS website and notifications to World Trade Organization (WTO). The comments received are discussed and incorporated before finalization of the standards, in accordance with the Procedures for Development of Kenya Standards.

Kenya Standards are subject to review, to keep pace with technological advances. Users of the Kenya Standards are therefore expected to ensure that they always have the latest versions of the standards they are implementing.

The development of the **First Edition** of this standard is based on BS 7671:2018 (18th Edition) with its several amendments and the different parts of IEC 60364 and is split into the following parts:

Part 1, Scope, object and fundamental principles.

Part 2. Definitions.

Part 3. Assessment of general characteristics. Part 4: Protection for safety.

Part 5. Selection and erection of electrical equipment.

Part 6. Verification.

Part 7. Requirements for special installations or locations.

These parts are in line with those of IEC 60364.

During the preparation of this standard, reference was made to the following documents:

IEC 60364 (All parts): Low-voltage installations.

BS 7671 (18th Edition) Requirements for electrical installations. Acknowledgement

is hereby made for the assistance derived from these sources.

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CHAPTER 64 INITIAL VERIFICATION

641. General

641.1 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part 6 of this standard. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of this standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of KS IEC and ISO maintain registers of currently valid International Standards.

1. IEC 60364 - *Low-voltage electrical installations*
2. KS IEC 61557-6 - *Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC - Equipment for testing, measuring or monitoring of protective measures - Part 6: Effectiveness of residual current devices (RCD) in TT, TN and IT systems*
3. KS IEC 60079-17 - *Explosive atmospheres - Part 17: Electrical installations inspection and maintenance*
4. KS IEC 60238 - *Edison screw lampholders*
5. KS IEC 61557 - *Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC - Equipment for testing, measuring or monitoring of protective measures - Part 1: General requirements*
6. KS IEC 60269-3 - *Low-voltage fuses - Part 3: Supplementary requirements for fuses for operation by unskilled persons (fuses mainly for household and similar applications) - Examples of standardized systems of fuses A to F*
7. KS IEC 60898 - *Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations*
8. KS IEC 61009-1 - *Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) - Part 1: General rules*
9. KS IEC 61008 - *Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs)*

642 INSPECTION

642.1 Inspection shall precede testing and shall normally be done with that part of the installation under inspection disconnected from the supply.

642.2 The inspection shall be made to verify that the installed electrical equipment is:

- (i) in compliance with the requirements of Section 511 (this may be ascertained by mark or by certification furnished by the installer or the manufacturer), and
- (ii) correctly selected and erected in accordance with the Clause , taking into account manufacturers' instructions, and
- (iii) not visibly damaged or defective so as to impair safety.

642.3 The inspection shall include at least the checking of the following items where relevant:

- (i) Connection of conductors
- (ii) Identification of conductors
- (iii) Routing of cables in prescribed zones, or protection against mechanical damage, in compliance with Section 522
- (iv) Selection of conductors for current-carrying capacity and voltage drop, in accordance with the design
- (v) Connection of single-pole devices for protection or switching in line conductors only
- (vi) Correct connection of accessories and equipment
- (vii) Presence of fire barriers, suitable seals and protection against thermal effects
- (viii) Methods of protection against electric shock
 - (a) both basic protection and fault protection, i.e.:
 - SELV
 - PELV
 - Double insulation
 - Reinforced insulation
 - (b) basic protection (including measurement of distances, where appropriate), i.e.:

- protection by insulation of live parts
- protection by a barrier or an enclosure
- protection by obstacles
- protection by placing out of reach

(c) fault protection:

- (i) presence of adequate arrangements for alternative sources(s), where applicable
- (ii) choice and setting of protective and monitoring devices
- (iii) automatic disconnection of supply (including FELV)
- (iv) selection and installation of earthing arrangements, protective conductors and their connections confirmed for presence and sized in accordance with the design:
 - earthing conductor
 - circuit protective conductors
 - protective bonding conductors
 - supplementary bonding conductors
 - earthing arrangements for combined protective and functional purposes
 - exposed-conductive-parts are connected to the earthing arrangement
- (v) non-conducting location (including measurement of distances, where appropriate)
 - absence of protective conductors
- (vi) earth-free local equipotential bonding
 - presence of earth-free protective bonding conductors
- (vii) electrical separation

(d) additional protection

- (ix) Prevention of mutual detrimental influence
- (x) Presence of appropriate devices for isolation and switching correctly located
- (xi) Presence of undervoltage protective devices
- (xii) Labelling of protective devices, switches and terminals
- (xiii) Selection of equipment and protective measures appropriate to external influences
- (xiv) Adequacy of access to switchgear and equipment
- (xv) Presence of danger notices and other warning signs
- (xvi) Presence of diagrams, instructions and similar information
- (xvii) Selection and erection of wiring systems
- (xviii) Erection methods
- (xix) Selection and installation of suitable SPDs where required
- (xx) Measures against electromagnetic disturbances.

The inspection shall include all particular requirements for special installations or locations (Part 7).

643 TESTING

643.1 General

The tests of Clause 643.2 to 643.11, where relevant, shall be carried out and the results compared with relevant criteria.

Measuring instruments and monitoring equipment and methods shall be chosen in accordance with the relevant parts of KS IEC 61557. If other measuring equipment is used, it shall provide no lesser degree of performance and safety.

When undertaking testing in a potentially explosive atmosphere, appropriate safety precautions in accordance with KS IEC 60079-17 are necessary.

The tests of Clause 643.2 to 643.6, where relevant, shall be carried out in that order before the installation is energized. Where the installation incorporates an earth electrode, the test of Clause 643.7.2 shall also be carried out before the installation is energized.

If any test indicates a failure to comply, that test and any preceding test, the results of which may have been

influenced by the fault indicated, shall be repeated after the fault has been rectified.

643.2 Continuity of conductors

643.2.1 The continuity of conductors and connections to exposed-conductive-parts and extraneous-conductive-parts, if any, shall be verified by a measurement of resistance on:

- (i) protective conductors, including protective bonding conductors, and
- (ii) in the case of ring final circuits, live conductors.

643.3 Insulation resistance

643.3.1 The insulation resistance shall be measured between live conductors and between live conductors and the protective conductor connected to the earthing arrangement. Where appropriate during this measurement, line and neutral conductors may be connected together.

643.3.2 The insulation resistance measured with the test voltages indicated in Table 64 shall be considered satisfactory if the main switchboard and each distribution circuit tested separately, with all its final circuits connected but with current-using equipment disconnected, has an insulation resistance not less than the appropriate value given in Table 64.

NOTE 1: More specific requirements are applicable for the wiring of fire detection and fire alarm systems in buildings, see ISO 7240.

**TABLE 64 –
Minimum values of insulation resistance**

Circuit nominal voltage (V)	Test voltage DC (V)	Minimum insulation resistance (MΩ)
SELV and PELV	250	0.5
Up to and including 500 V with the exception of the above systems	500	1.0
Above 500 V	1000	1.0

Table 64 shall be applied when verifying insulation resistance between non-earthed protective conductors and Earth.

FELV circuits shall be tested at the same test voltage as that applied to the primary side of the source and shall meet all the test requirements for low voltage circuits.

Where surge protective devices (SPDs) or other equipment are likely to influence the verification test, or be damaged, such equipment shall be disconnected before carrying out the insulation resistance test. Where it is not reasonably practicable to disconnect such equipment (e.g. fixed socket-outlet incorporating an SPD), the test voltage for the particular circuit may be reduced to 250 V DC, but the insulation resistance shall have a value of at least 1 MΩ.

Insulation resistance values are usually much higher than those of Table 64. When measured values show evident differences between circuits, further investigation to identify the reasons is required.

NOTE 2: In locations exposed to fire hazard, a measurement of the insulation resistance between the live conductors should be applied. In practice, it may be necessary to carry out this measurement during erection of the installation and before connection of the equipment.

643.3.3 Where the circuit includes electronic devices which are likely to influence the results or be damaged, only a measurement between the live conductors connected together and the earthing arrangement shall be made.

NOTE: Additional precautions, such as disconnection, may be necessary to avoid damage to electronic devices.

643.4 Protection by SELV, PELV or by electrical separation

It shall be verified that the separation of circuits is in accordance with Clause 643.4.1 in the case of protection by SELV, Clause 643.4.2 in the case of protection by PELV and Clause 643.4.3 in the case of protection by electrical separation. The resistance values obtained in the tests of Clause 643.4.1 to 643.4.3 shall be at least that of the circuit with the highest voltage present in accordance with Table 64.

643.4.1 Protection by SELV

The separation of the live parts from those of other circuits and from Earth, according to Section 414, shall be confirmed by a measurement of the insulation resistance. The resistance values obtained shall be in accordance with Table 64.

643.4.2 Protection by PELV

The separation of the live parts from other circuits, according to Section 414, shall be confirmed by a measurement of the insulation resistance. The resistance values obtained shall be in accordance with Table 64.

643.4.3 Protection by electrical separation

The separation of the live parts from those of other circuits and from Earth, according to Section 413, shall be confirmed by a measurement of the insulation resistance. The resistance values obtained shall be in accordance with Table 64. In the case of electrical separation with more than one item of current-using equipment, either by measurement or by calculation, it shall be verified that in case of two coincidental faults with negligible impedance between different line conductors and either the protective bonding conductor or exposed-conductive-parts connected to it, at least one of the faulty circuits shall be disconnected. The disconnection time shall be in accordance with that for the protective measure automatic disconnection of supply in a TN system.

643.5 Insulation resistance/impedance of floors and walls

643.5.1 Where it is necessary to comply with the requirements of Clause 418.1, at least three measurements shall be made in the same location, one of these measurements being approximately 1 m from any accessible extraneous-conductive-part in the location. The other two measurements shall be made at greater distances. The measurement of resistance/impedance of insulating floors and walls is carried out with the system voltage to Earth at nominal frequency. The above series of measurements shall be repeated for each relevant surface of the location.

643.5.201 Any insulation or insulating arrangement of extraneous-conductive-parts intended to satisfy Clause 418.1.4 (iii) shall:

- (i) when tested at 500 V DC be not less than 1 M Ω , and
- (ii) be able to withstand a test voltage of at least 2 kV AC rms, and
- (iii) not pass a leakage current exceeding 1 mA in normal conditions of use.

643.6 Polarity

Where relevant, the polarity of the supply at the origin of the installation shall be verified before the installation is energized. Where single-pole switching devices are not permitted in the neutral conductor, a test shall be made to verify that all such devices are connected in the line conductor(s) only.

During the polarity test, it shall be verified that:

- (i) every fuse and single-pole control and protective device is connected in the line conductor only, and
- (ii) except for E14 and E27 lampholders to KS IEC 60238, in circuits having an earthed neutral conductor, centre contact bayonet and Edison screw lampholders have the outer or screwed contacts connected to the neutral conductor, and
- (iii) wiring has been correctly connected throughout the installation.

643.7 Protection by automatic disconnection of the supply

Where RCDs are applied also for protection against fire, the verification of the conditions for protection by automatic disconnection of the supply may be considered as satisfying the relevant requirements of Chapter 42.

643.7.1 General

The verification of the effectiveness of the measures for fault protection by automatic disconnection of supply is effected as follows:

a) TN system

Compliance with Clause 411.4 shall be verified by:

- (1) measurement of the earth fault loop impedance (see Clause 643.7.3)
- (2) verification of the characteristics and/or the effectiveness of the associated protective device. This verification shall be made:
 - for overcurrent protective devices, by visual inspection or other appropriate methods (i.e. short-time or instantaneous tripping setting for circuit-breakers, current rating and type for fuses)
 - for RCDs, by visual inspection and testing.

The effectiveness of automatic disconnection of supply by RCDs shall be verified using suitable test equipment according to KS IEC 61557-6 (see Clause 643.1) to confirm that the relevant requirements of Chapter 41 are met, taking into account the operating characteristic of the device.

NOTE: See Table 3A in Appendix 1.

Where the effectiveness of the protective measure has been confirmed at a point located downstream of an RCD, the protection of the installation downstream from this point may be proved by confirmation of the continuity of the protective conductors.

b) TT system

Compliance with Clause 411.5 shall be verified by:

- (1) measurement of the resistance of the earth electrode for exposed-conductive-parts of the installation (see Clause 643.7.2)

NOTE: Where a measurement of R_A is not practicable the measured value of external earth fault loop impedance may be used.

- (2) verification of the characteristics and/or effectiveness of the associated protective device. This verification shall be made:
 - for overcurrent protective devices, by visual inspection or other appropriate methods (i.e. short-time or instantaneous tripping setting for circuit-breakers, current rating and type for fuses)
 - for RCDs, by visual inspection and testing.

The effectiveness of automatic disconnection of supply by RCDs shall be verified using suitable test equipment according to KS IEC 61557-6 (see Clause 643.1) confirming that the relevant requirements of Chapter 41 are met, taking into account the operating characteristic of the device.

NOTE: See Table 3A in Appendix 1.

Where the effectiveness of the protective measure has been confirmed at a point located downstream of an RCD, the protection of the installation downstream from this point may be proved by confirmation of the continuity of the protective conductors.

c) IT system

Compliance with the requirements of Clause 411.6 shall be verified by calculation or measurement of the current I_d in case of a first fault on a live conductor.

A measurement is made only if calculation is not possible because all the parameters are not known. Precautions shall be taken while making the measurement in order to avoid the danger due to a double fault.

In the case of a double earth fault, the fault loop impedance shall be verified by calculation or measurement. Where the condition is similar to that of a TT system (see Chapter 41), verification shall be made as for a TT system (see Clause 643.7.1, item b)). Where conditions are similar to that of a TN system (see Chapter 41), verification by measurement shall be made as follows:

- (i) for IT installations supplied from a local transformer, the earth fault loop impedance is measured by inserting a connection with negligible impedance between a live conductor and earth at the origin of the installation. The earth fault loop impedance measurement is made between a second live conductor and protective earth at the end of the circuit. Verification is achieved if the measured value is $\leq 50\%$ of the maximum allowed loop impedance
- (ii) for IT systems connected to a public grid, the earth fault loop impedance is determined by verification of the continuity of the protective conductor and by measuring the loop impedance between two live conductors at the end of the circuit. Verification is achieved if the measured value is $\leq 50\%$ of the maximum permitted loop impedance. If verification is not achieved, more detailed measurements are necessary.

643.7.2 Earth electrode resistance

Where the earthing system incorporates an earth electrode as part of the installation, the electrode resistance to Earth shall be measured.

NOTE: Where a measurement of R_A is not practicable, the measured value of external earth fault loop impedance may be used.

643.7.3 Earth fault loop impedance

Where protective measures are used which require a knowledge of earth fault loop impedance, the relevant impedances shall be measured, or determined by an alternative method.

An electrical continuity test shall be carried out according to Clause 643.2 before carrying out the earth fault loop impedance measurement.

The measured earth fault loop impedance shall comply with Chapter 41.

Where the requirements of this Clause are not satisfied and supplementary protective equipotential bonding

according to Chapter 41 is provided, the effectiveness of that bonding shall be verified.

NOTE: Further information on measurement of earth fault loop impedance can be found in Appendix 1.

643.7.3.201 Prospective fault current

The prospective short-circuit current and prospective earth fault current shall be measured, calculated or determined by another method, at the origin and at other relevant points in the installation.

643.8 Additional protection

The verification of the effectiveness of the measures applied for additional protection is fulfilled by visual inspection and testing. Where RCDs are required for additional protection, the effectiveness of automatic disconnection of supply by RCDs shall be verified using suitable test equipment according to KS IEC 61557-6 (see Clause 643.1) to confirm that the relevant requirements of Chapter 41 are met.

NOTE: Effectiveness is deemed to have been verified where an RCD meeting the requirements of Clause 415.1.1 disconnects within 40 ms when tested at a current equal to or higher than five times its rated residual operating current.

Where additional protection is provided by supplementary protective equipotential bonding, the effectiveness of that bonding shall be checked against the requirements of Chapter 41.

643.9 Check of phase sequence

For polyphase circuits, it shall be verified that the phase sequence is maintained at all relevant points throughout the installation.

643.10 Functional testing

Equipment shall be subjected to functional testing, as appropriate, to verify that it is properly mounted, adjusted and installed and operates correctly in accordance with the relevant requirements of this Standard. Examples of such equipment are:

- switchgear and controlgear assemblies, drives, controls and interlocks
- systems for emergency switching off and emergency stopping
- insulation monitoring.

NOTE 1: This list is not exhaustive.

Protective devices shall be submitted to a test of their function, as necessary, to check that they are properly installed and adjusted. Where fault protection and/or additional protection is provided by an RCD, the effectiveness of any test facility incorporated in the device shall be verified.

Where an AFDD is installed the effectiveness of any manually operated test facility shall be verified in accordance with the manufacturers' recommendations.

NOTE 2: This functional test does not replace the functional test indicated by the relevant standards.

643.11 Verification of voltage drop

Where required to verify compliance with Chapter 52, the voltage drop shall be evaluated by measurement or by calculation.

NOTE: Verification of voltage drop is not normally required during initial verification.

644 CERTIFICATION FOR INITIAL VERIFICATION

644.1 Except where Clause 644.4.201 applies, upon completion of the verification of a new installation or an addition or alteration to an existing installation, including the replacement of a distribution board or consumer unit, an Electrical Installation Certificate based on the model given in Appendix 2 shall be issued to the person ordering the work.

644.1.1 For a new installation, any defect or omission revealed during the inspection and testing shall be corrected before the Certificate is issued.

644.1.2 For an addition and/or alteration to an existing installation, any defect or omission that will affect the safety of the addition or alteration that is revealed during inspection and testing shall be corrected before the Certificate is issued.

NOTE: See Clause 132.16.

The person responsible for the addition or alteration, or a person authorized to act on their behalf, shall record on the Electrical Installation Certificate any other defects observed during the course of the works that may give rise to danger.

644.2 *Not used*

644.3 The Certificate shall include details of the extent of the work covered, and:

- schedule(s) of inspections, and
- schedule(s) of test results.

The schedules shall be based on the models in Appendix 2.

644.4 The person or persons responsible for the design, construction and verification of the installation shall issue the Certificate, which takes account of their respective responsibilities, to the person ordering the work, together with the records mentioned in Clause 644.3.

The recommendation for the interval between initial verification and the first periodic inspection shall be recorded on the Certificate.

644.4.201 Where electrical installation work does not include the provision of a new circuit or replacement of a distribution board or consumer unit, a Minor Electrical Installation Works Certificate, based on the model given in Appendix 2, may be provided for each circuit that has been added to or altered as an alternative to an Electrical Installation Certificate.

644.4.202 Electrical Installation Certificates and Minor Electrical Installation Works Certificates may be produced in any written or electronic form. Regardless of the media used for original certificates or their copies, their authenticity and integrity shall be verified by a reliable process or method. The process or method shall also verify that any copy is a true copy of the original.

644.5 Electrical Installation Certificates and Minor Electrical Installation Works Certificates shall be compiled and signed or otherwise authenticated by one or more skilled persons, competent to verify that the requirements of this Standard have been met.

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CHAPTER 65

PERIODIC INSPECTION AND TESTING

651 GENERAL

651.1 Where required, periodic inspection and testing of every electrical installation shall be carried out in accordance with Clause 651.2 to 651.5 in order to determine, so far as is reasonably practicable, whether the installation is in a satisfactory condition for continued service. Wherever possible, the documentation arising from the initial certification and any previous periodic inspection and testing shall be taken into account. Where no previous documentation is available, investigation of the electrical installation shall be undertaken prior to carrying out the periodic inspection and testing.

651.2 Periodic inspection shall be carried out without dismantling, or with partial dismantling, as required, supplemented by appropriate tests and measurements from Chapter 64, to provide for:

- (i) the safety of persons and livestock against the effects of electric shock and burns
- (ii) protection against damage to property by fire and heat arising from an electrical installation defect
- (iii) confirmation of correct rating and setting of protective devices required by Chapter 41
- (iv) confirmation of correct rating and setting of monitoring devices
- (v) confirmation that the installation is not damaged or deteriorated so as to impair safety
- (vi) the identification of installation defects and non-compliances with the requirements of the relevant parts of KS 662, that may give rise to danger.

NOTE 1: A generic list of examples of items requiring inspection is given in Appendix 2.

NOTE 2: Existing installations may have been designed and installed to conform to previous editions of KS 662, applicable at the time of their design and erection. This does not necessarily mean that they are unsafe.

Where a circuit is permanently monitored by an RCM or an IMD it is not necessary to measure the insulation resistance if the functioning of the RCM or IMD is correct.

The functioning of the RCM or IMD shall be verified.

651.3 Periodic inspection and testing shall not cause danger to persons or livestock and shall not cause damage to property or equipment even if the circuit is defective.

Measuring instruments and monitoring equipment and methods shall be chosen in accordance with the relevant parts of KS IEC 61557. If other measuring equipment is used, it shall provide no less a degree of performance and safety.

651.4 Details of any damage, deterioration, defects or dangerous conditions shall be recorded in a report.

651.5 The periodic inspection and testing shall be carried out by one or more skilled persons competent in such work.

652 FREQUENCY OF PERIODIC INSPECTION AND TESTING

652.1 The frequency of periodic inspection and testing of an installation shall be determined having regard to the type of installation and equipment, its use and operation, the frequency and quality of maintenance and the external influences to which it may be subjected. The results and recommendations of previous certificates and condition reports shall also be taken into account.

652.2 In the case of an installation under an effective management system for preventative maintenance in normal use, periodic inspection and testing may be replaced by an adequate regime of continuous monitoring and maintenance of the installation and all its constituent equipment by one or more skilled persons competent in such work. Appropriate records shall be kept.

653 REPORTING FOR PERIODIC INSPECTION AND TESTING

653.1 Upon completion of the periodic inspection and testing of an existing installation, an Electrical Installation Condition Report based on the model given in Appendix 2 shall be produced.

653.2 The Report shall include the following:

- details of those parts of the installation that have been inspected and tested
- any limitations of the inspection and testing
- any damage, deterioration, defects or dangerous conditions
- any non-compliance with the requirements of KS 662 which may give rise to danger

- schedules of inspection as appropriate to those detailed in Section 642
- schedules of results of the appropriate tests detailed in Section 643.

653.3 *Not used*

653.4 The Report shall indicate a recommended interval until the next inspection, supported by an explanation for the recommendation.

653.5 The Report shall be compiled and signed or otherwise authenticated by one or more skilled persons competent in such work.

653.6 The Report shall be issued to the person ordering the inspection and testing.

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APPENDIX 1: (Informative) TIME/CURRENT CHARACTERISTICS OF OVERCURRENT PROTECTIVE DEVICES AND RCDs

This appendix gives the time/current characteristics of the following overcurrent protective devices:

- Figure 3A1 Fuses to KS IEC 60269-3 – fuse system C
Figures 3A2(a) & 3A2(b) Semi-enclosed fuses to KS IEC 60269-3
Figures 3A3(a) & 3A3(b) Fuses to KS IEC 60269-3 – fuse systems E (bolted) and G
(clip-in) Figure 3A3(c) Fuses to KS IEC 60269-3 – fuse system E (bolted)

CIRCUIT-BREAKERS:

- Figure 3A4 Type B to KS IEC 60898 and the overcurrent characteristics of RCBOs to KS IEC 61009-1
Figure 3A5 Type C to KS IEC 60898 and the overcurrent characteristics of RCBOs to KS IEC 61009-1
Figure 3A6 Type D to KS IEC 60898 and the overcurrent characteristics of RCBOs to KS IEC 61009-1

In all of these cases time/current characteristics are based on the slowest operating times for compliance with the Clause and have been used as the basis for determining the limiting values of earth fault loop impedance prescribed in Chapter 41.

Maximum earth fault loop impedance

Clause 411.3.2 specifies maximum disconnection times for circuits.

The maximum values of earth fault loop impedance to achieve the disconnection time vary with the different types of protective devices and also between manufacturers. Wherever possible designers should use the manufacturer's specific data.

Alternatively, the impedance values given in Tables 41.3 and 41.6 can be used for KS IEC 60898 circuit-breakers. These values are far more onerous and in some cases may be difficult to achieve without installing larger sized cpcs.

Clause 411.4.4 to 411.4.204 state that the maximum earth fault loop impedance for a protective device is:

$$Z_s = \frac{U_0 \times C_{\min}}{I_a}$$

where:

- U_0 is the nominal AC rms line voltage to Earth.
 I_a is the current in amperes (A) causing operation of the protective device within the specified time.
 C_{\min} is the minimum voltage factor to take account of voltage variations depending on time and place, changing of transformer taps and other considerations.

NOTE: For a low voltage supply given in accordance with the Electricity Safety, Quality and Continuity Clause (ESQCR) as amended, C_{\min} is given the value 0.95.

The tabulated values are applicable for supplies from distribution network operators. For other supplies the designer will need to determine the nominal voltage and calculate Z_s accordingly.

RCDs:

Table 3A gives the time/current performance criteria for RCDs to KS IEC 61008-1 and KS IEC 61009-1 .

When impedance measurements are made at ambient temperature the procedure hereinafter described may be followed to take into account the increase of resistance of the conductors with the increase of temperature due to load current. For TN and TT systems in which protection by automatic disconnection is provided by overcurrent protective devices, such measurements are made to verify the maximum impedance value stated by the device manufacturer is not exceeded. In the absence of manufacturers' data, the values stated in Chapter 41 tables may be used.

The requirements of Clause 411.4.4 or 411.5.4, as appropriate, are considered to be met when the measured value of earth fault loop impedance satisfies the following equation:

$$Z_s(m) \leq 0.8 \frac{U_0 \times C_{min}}{I_a}$$

where:

$Z_s(m)$ is the measured impedance of the earth fault current loop up to the most distant point of the relevant circuit from the origin of the installation (Ω)

U_0 is the nominal AC rms line voltage to Earth (V)

I_a is the current in amperes causing operation of the protective device within the time stated in Table 41.1 or within 5 s according to the conditions stated in Clause 411.3.2.3

C_{min} is the minimum voltage factor to take account of voltage variations depending on time and place, changing of transformer taps and other considerations.

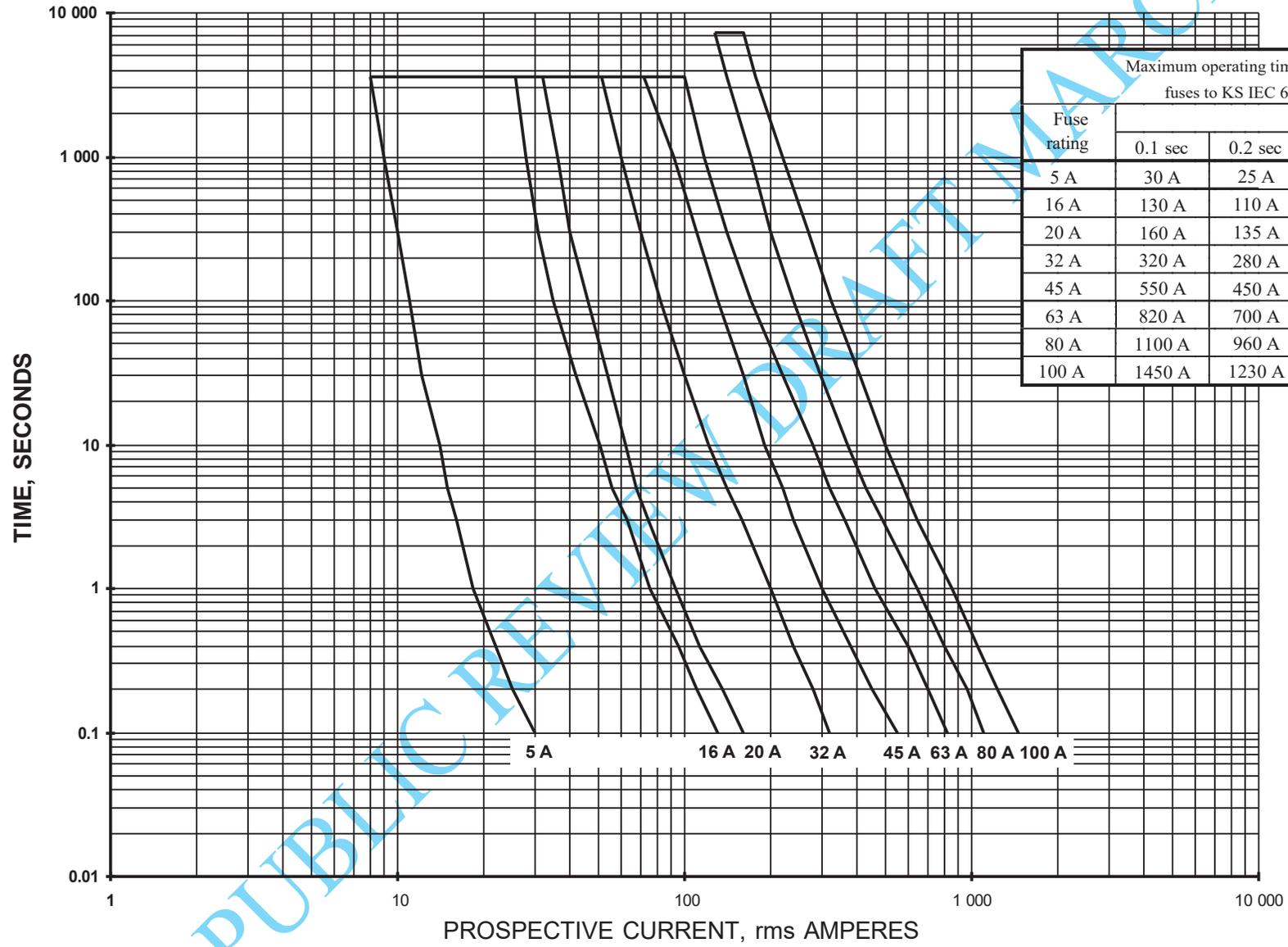
NOTE: For a low voltage supply given in accordance with the Electricity Safety, Quality and Continuity Clause (ESQCR) as amended, C_{min} is given the value 0.95.

NOTE: The above is one method of correcting for the effects of temperature difference; other methods are not precluded.

TABLE 3A – Time/current performance criteria for RCDs to KS IEC 61008-1 and KS IEC 61009-1

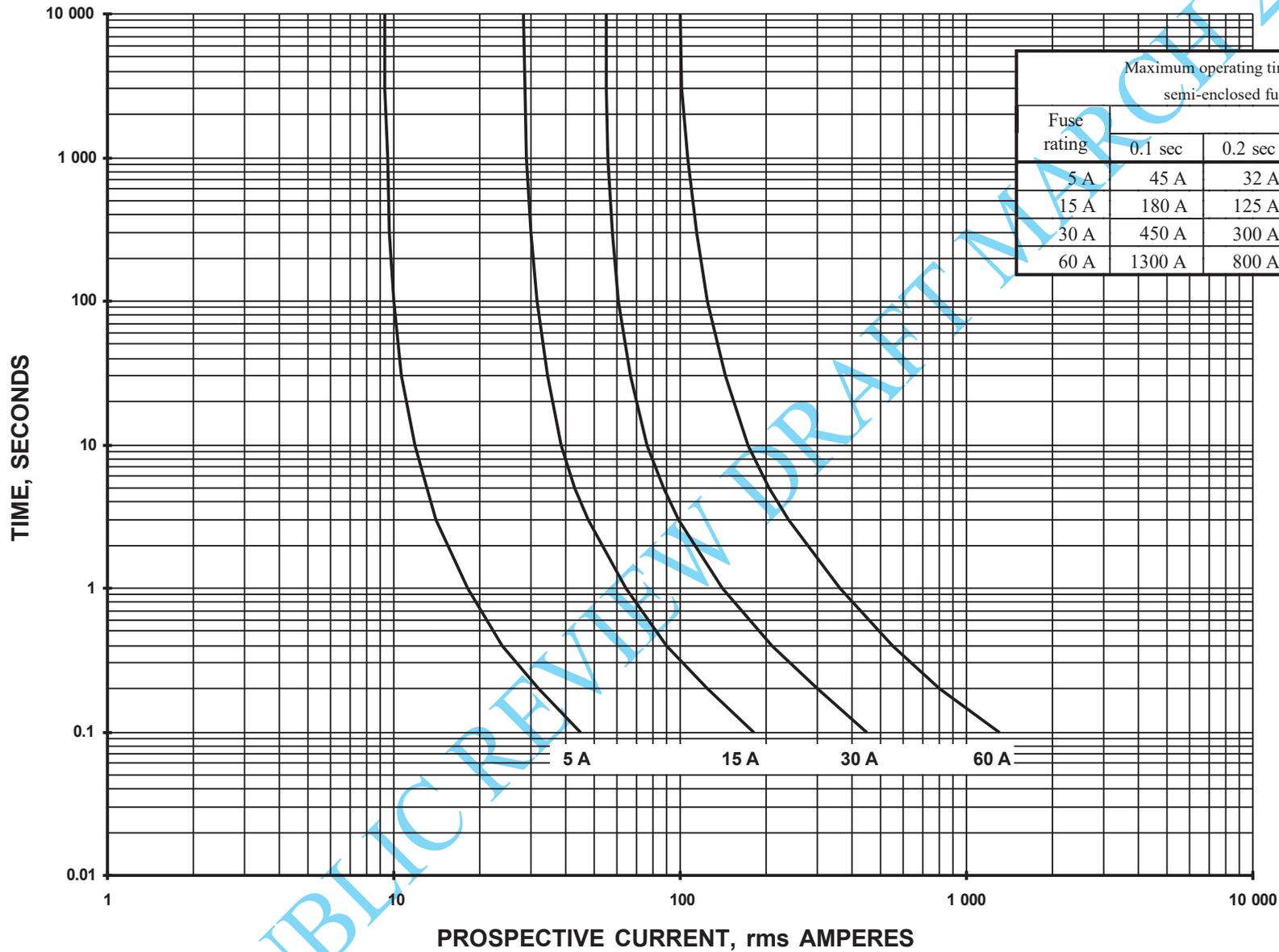
RCD type	Rated residual operating current $I_{\Delta n}$ mA	Residual current mA	Trip time ms	Residual current mA	Trip time ms	Residual current mA	Trip time ms
General Non-delay	10	10	300 max.	20	150 max.	50	40 max.
	30	30		60		150	
	100	100		200		500	
	300	300		600		1500	
	500	500		1000		2500	
Delay 'S'	100	100	130 min. 500 max.	200	60 min. 200 max.	500	40 min. 150 max.
	300	300		600		1500	
	500	500		1000		2500	

Fig 3A1 – Fuses to KS IEC 60269-3 fuse system C



Maximum operating time/current characteristics for fuses to KS IEC 60269-3 fuse system C					
Fuse rating	Current for time				
	0.1 sec	0.2 sec	0.4 sec	1 sec	5 secs
5 A	30 A	25 A	22 A	18 A	15 A
16 A	130 A	110 A	95 A	76 A	56 A
20 A	160 A	135 A	113 A	93 A	68 A
32 A	320 A	280 A	240 A	200 A	140 A
45 A	550 A	450 A	380 A	300 A	220 A
63 A	820 A	700 A	600 A	460 A	320 A
80 A	1100 A	960 A	800 A	650 A	430 A
100 A	1450 A	1230 A	1050 A	850 A	580 A

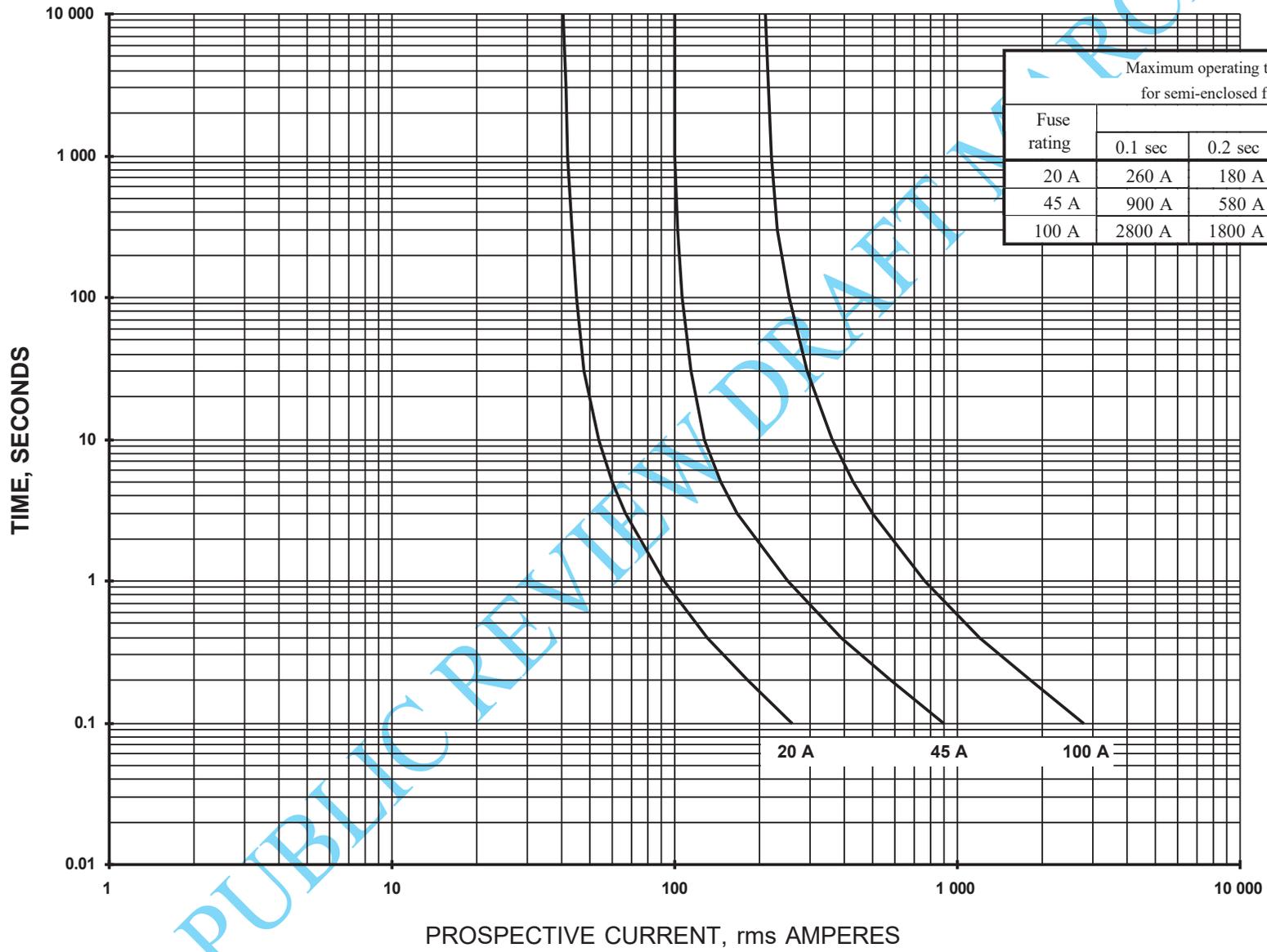
Fig 3A2(a) – Semi-enclosed fuses to KS IEC 60269-3



Maximum operating time/current characteristics for semi-enclosed fuses to KS IEC 60269-3					
Fuse rating	Current for time				
	0.1 sec	0.2 sec	0.4 sec	1 sec	5 secs
5 A	45 A	32 A	24 A	18 A	13 A
15 A	180 A	125 A	90 A	65 A	43 A
30 A	450 A	300 A	210 A	140 A	87 A
60 A	1300 A	800 A	550 A	360 A	205 A

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Fig 3A2(b) – Semi-enclosed fuses to KS IEC 60269-3



Maximum operating time/current characteristics for semi-enclosed fuses to KS IEC 60269-3					
Fuse rating	Current for time				
	0.1 sec	0.2 sec	0.4 sec	1 sec	5 secs
20 A	260 A	180 A	130 A	92 A	60 A
45 A	900 A	580 A	390 A	250 A	145 A
100 A	2800 A	1800 A	1200 A	770 A	430 A

Fig 3A3(a) – Fuses to KS IEC60269-3 fuse systems E and G

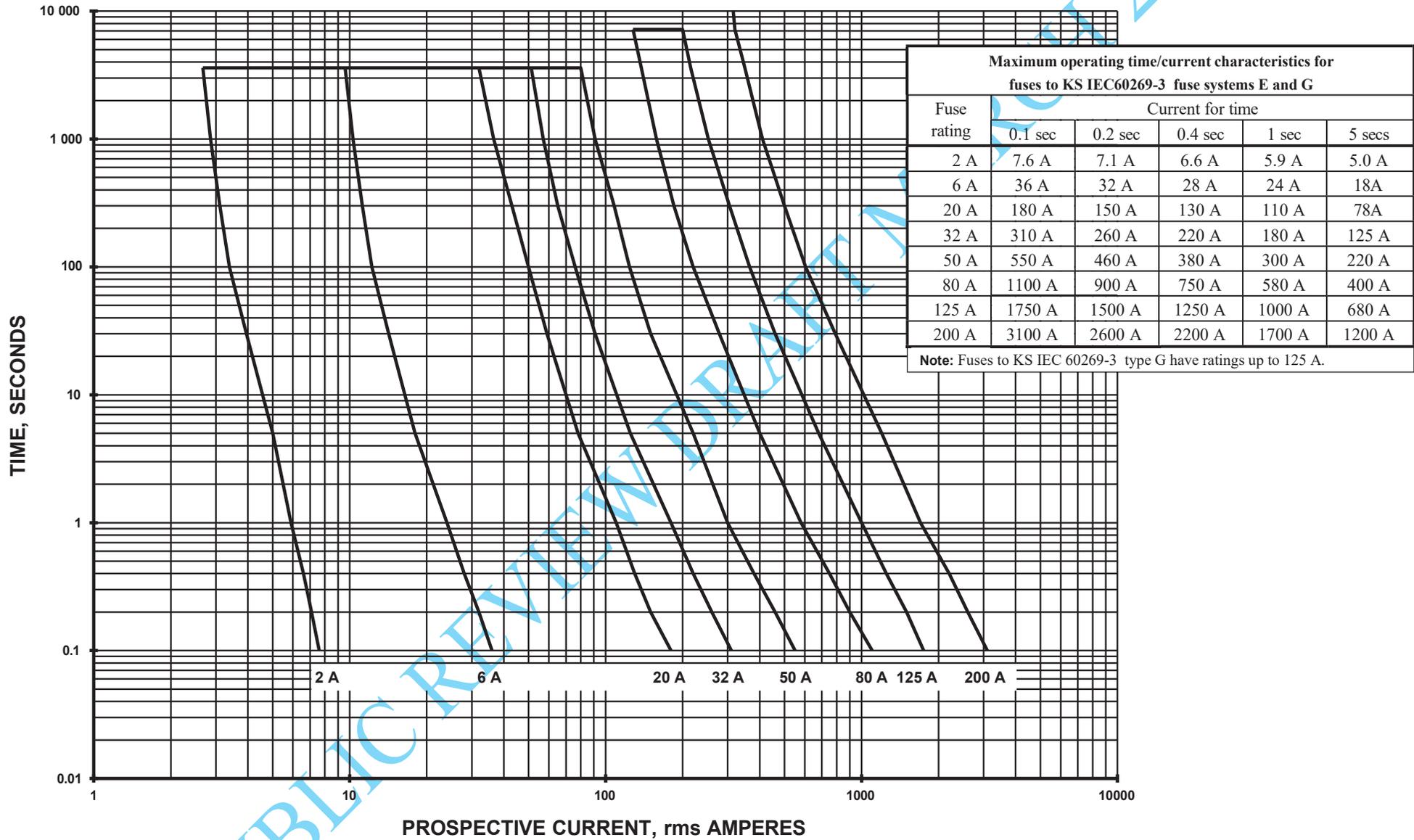
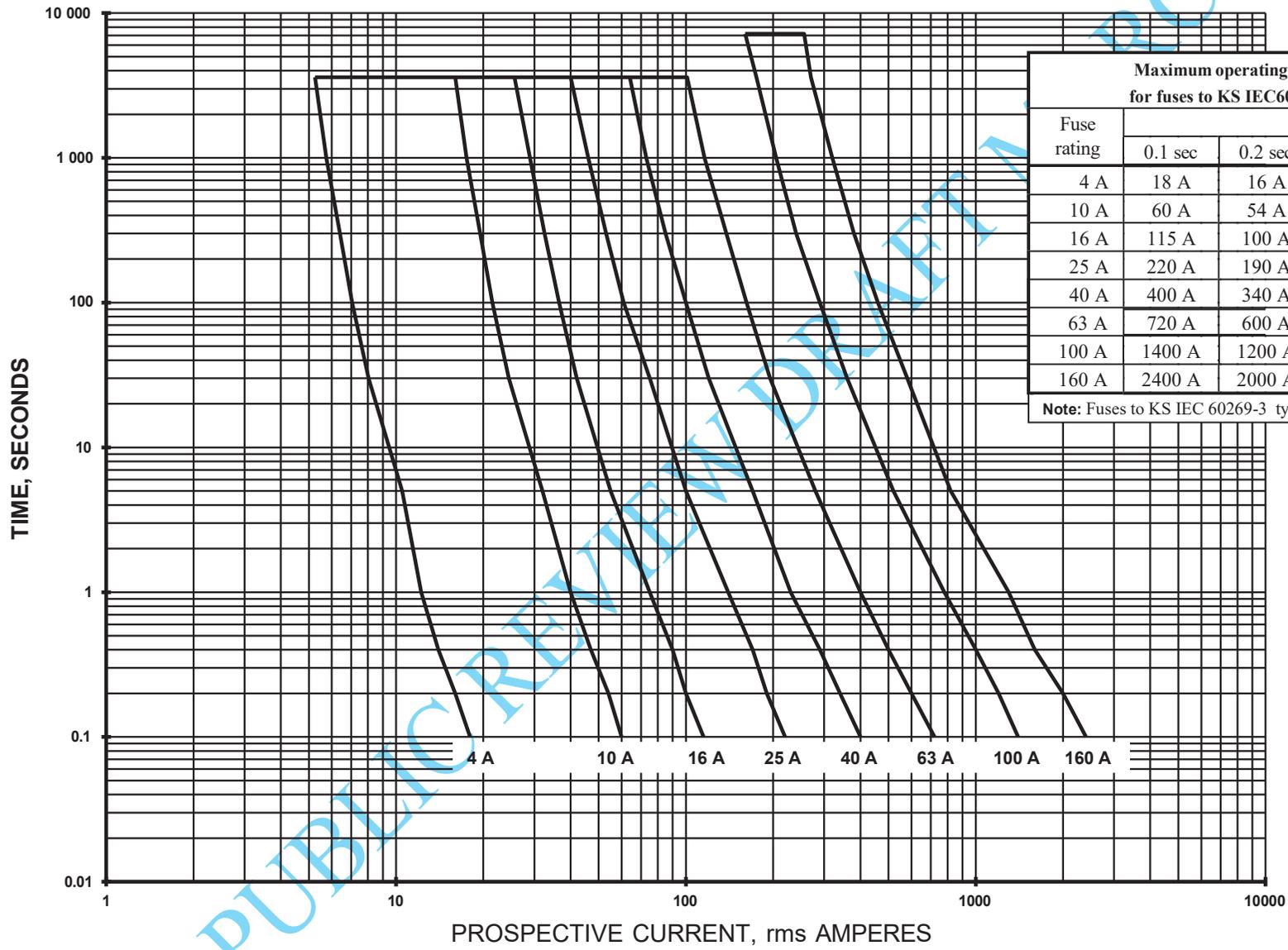


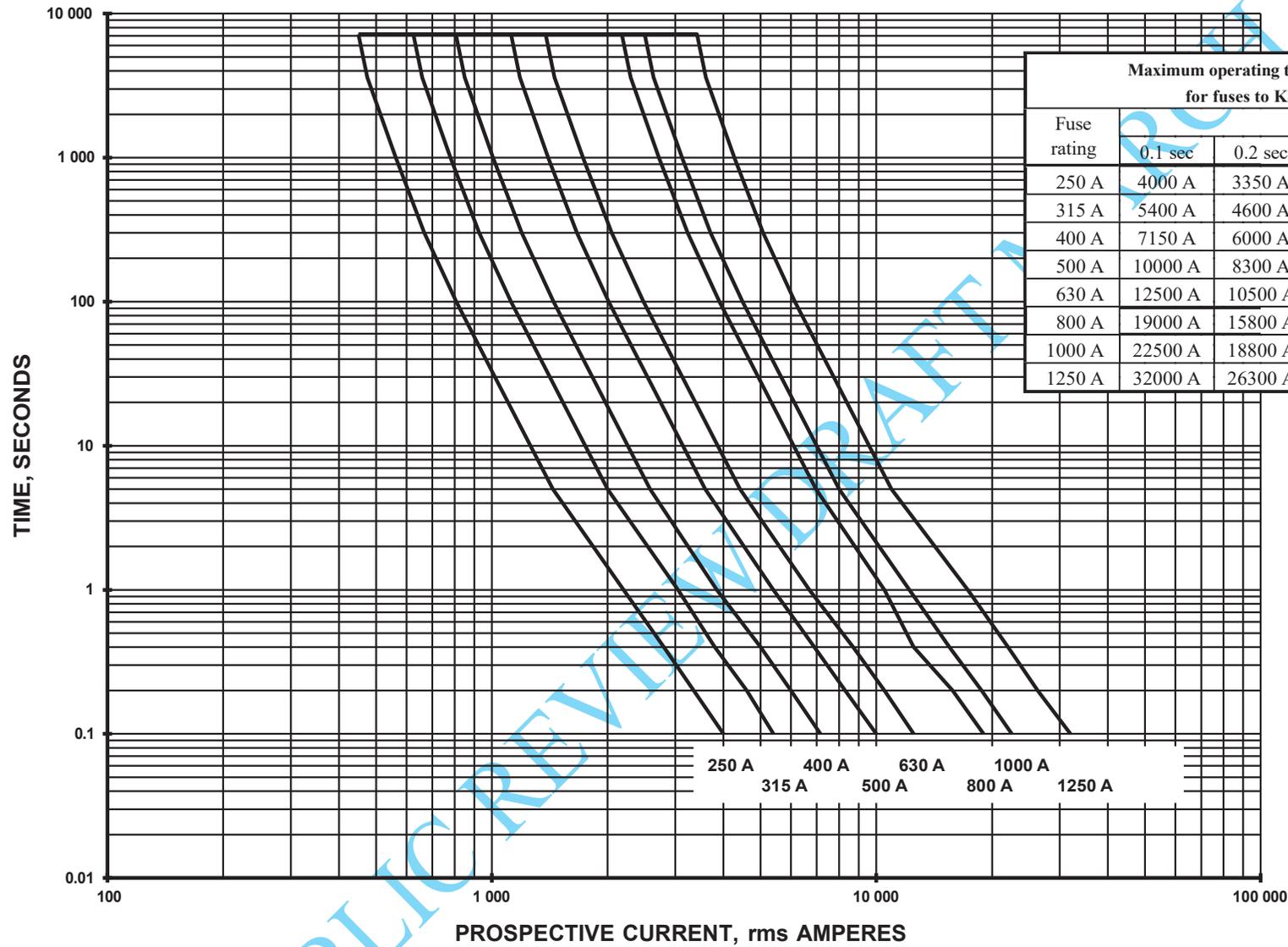
Fig 3A3(b) – Fuses to KS IEC60269-3 fuse systems E and G



Maximum operating time/current characteristics for fuses to KS IEC60269-3 fuse systems E and G					
Fuse rating	Current for time				
	0.1 sec	0.2 sec	0.4 sec	1 sec	5 secs
4 A	18 A	16 A	14 A	12.2 A	10.5 A
10 A	60 A	54 A	47 A	40 A	32 A
16 A	115 A	100 A	90 A	75 A	55 A
25 A	220 A	190 A	170 A	140 A	100 A
40 A	400 A	340 A	290 A	230 A	170 A
63 A	720 A	600 A	500 A	400 A	280 A
100 A	1400 A	1200 A	1000 A	780 A	520 A
160 A	2400 A	2000 A	1600 A	1300 A	820 A

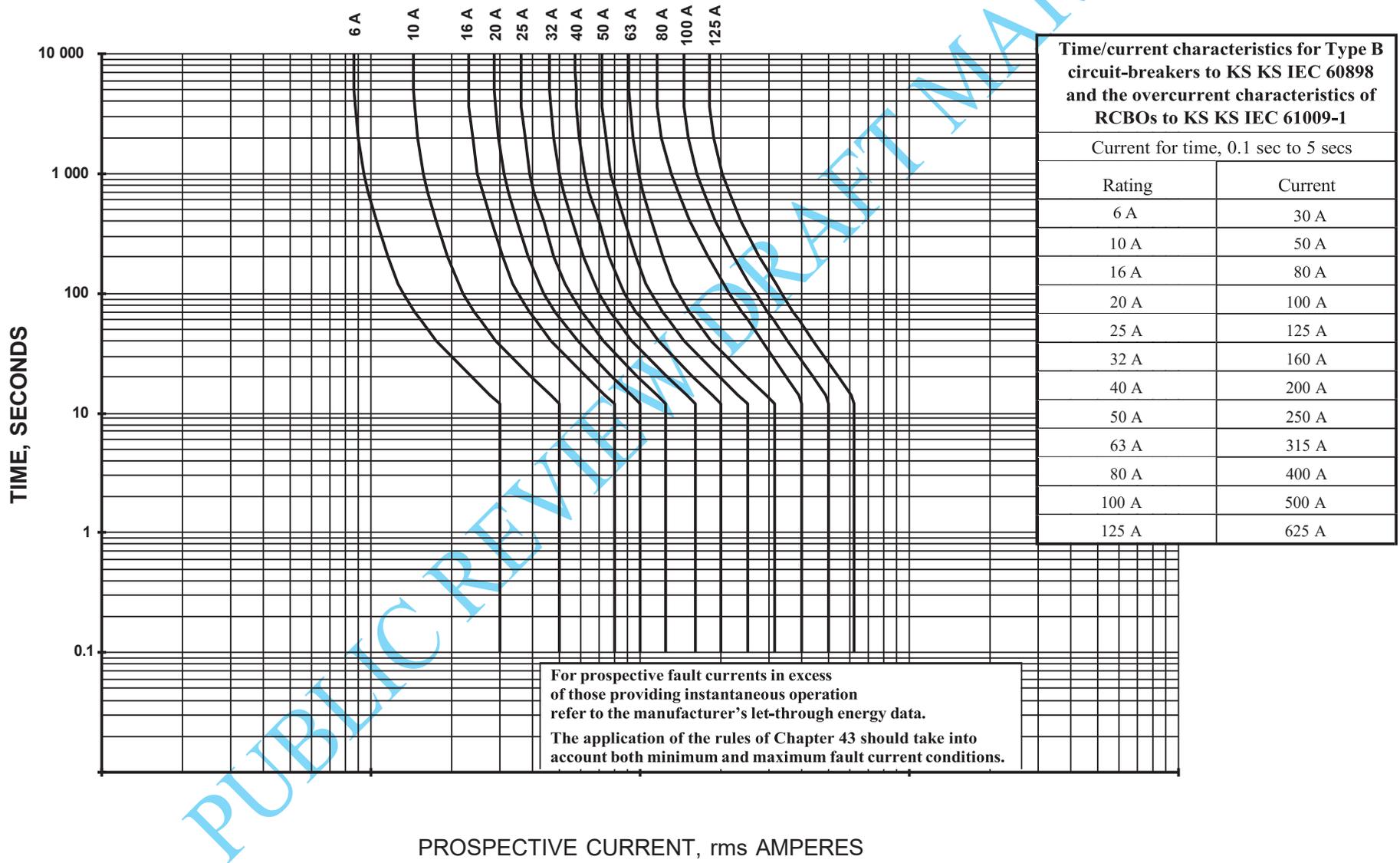
Note: Fuses to KS IEC 60269-3 type G have ratings up to 125 A.

Fig 3A3(c) – Fuses to KS IEC60269-3 fuse system E



Maximum operating time/current characteristics for fuses to KS IEC60269-3 fuse system E					
Fuse rating	Current for time				
	0.1 sec	0.2 sec	0.4 sec	1 sec	5 secs
250 A	4000 A	3350 A	2800 A	2200 A	1440 A
315 A	5400 A	4600 A	3800 A	3050 A	2000 A
400 A	7150 A	6000 A	5000 A	3850 A	2580 A
500 A	10000 A	8300 A	6900 A	5400 A	3590 A
630 A	12500 A	10500 A	8700 A	6700 A	4420 A
800 A	19000 A	15800 A	12500 A	10500 A	6870 A
1000 A	22500 A	18800 A	15500 A	12200 A	8000 A
1250 A	32000 A	26300 A	22000 A	17300 A	10950 A

Fig 3A4 – Type B circuit-breakers to KS IEC60898 and RCBOs to KS IEC 61009-1



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Fig 3A5 – Type C circuit-breakers to KS IEC 60898 and RCBOs to KS IEC 61009-1

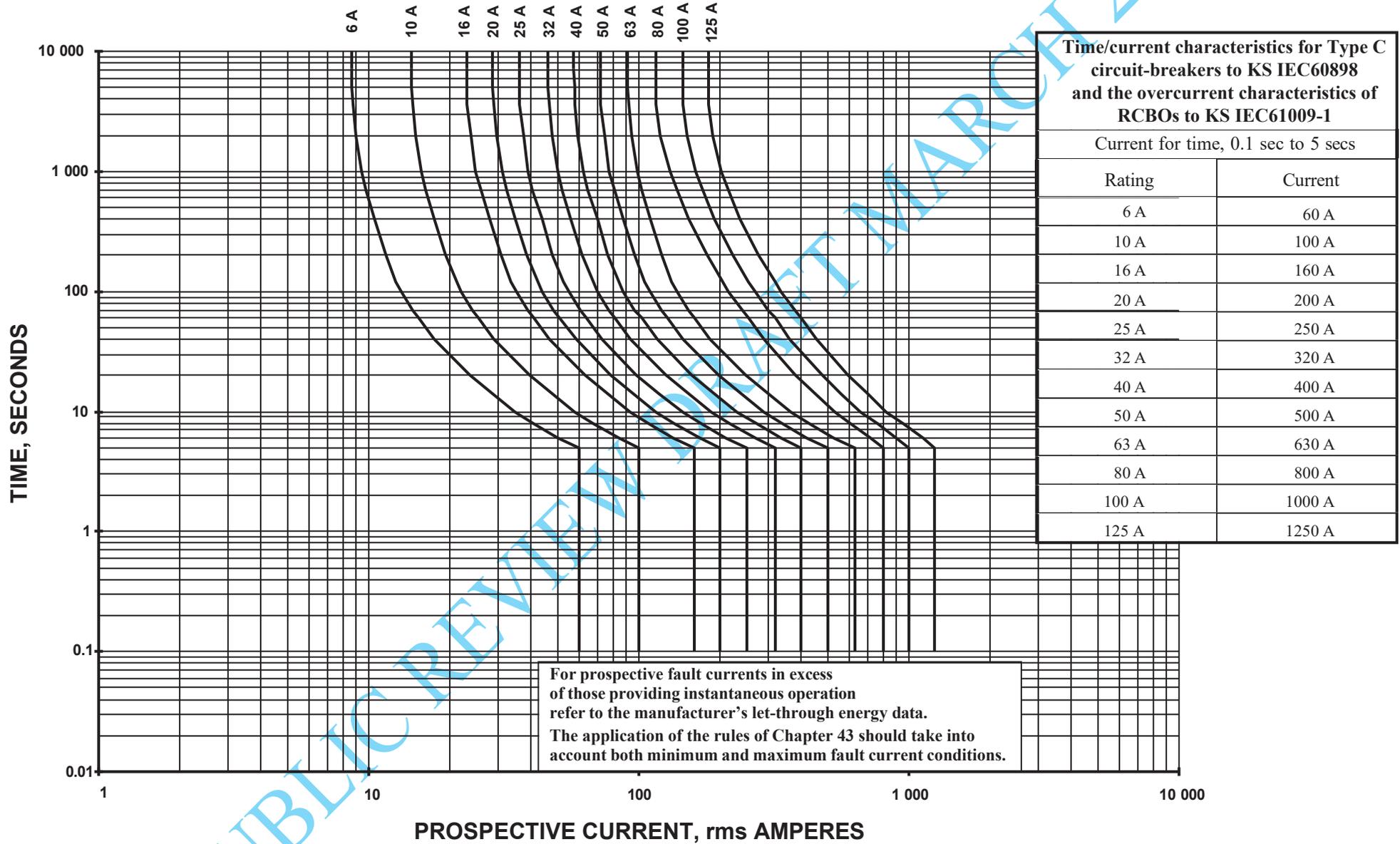
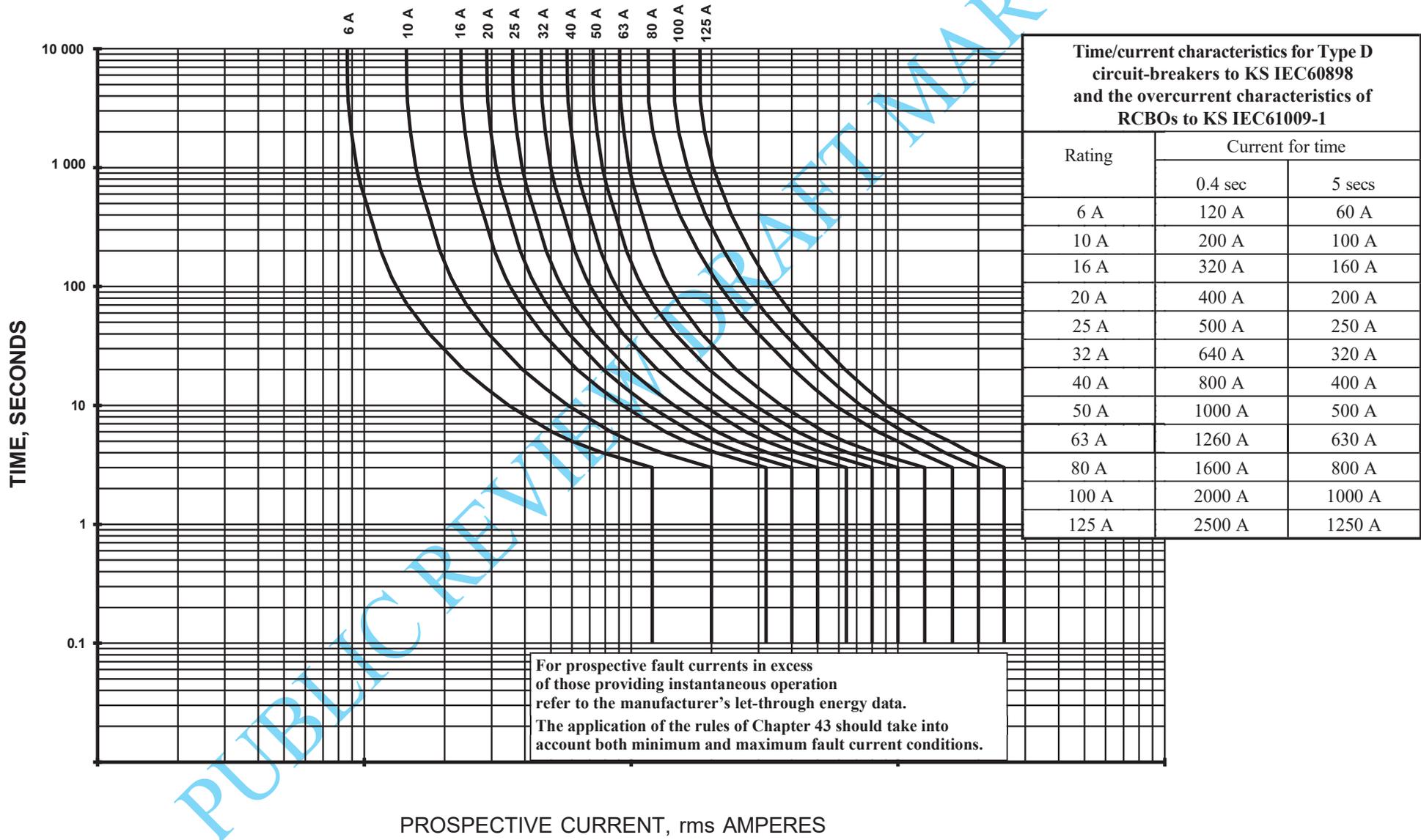


Fig 3A6 – Type D circuit-breakers to KS IEC60898 and RCBOs to KS IEC61009-1



APPENDIX 2 (Informative)

MODEL FORMS FOR CERTIFICATION AND REPORTING

Introduction

- (i) The Electrical Installation Certificate required by Part 6 should be made out and signed or otherwise authenticated by a skilled person or persons in respect of the design, construction, inspection and testing of the work.
- (ii) The Minor Electrical Installation Works Certificate required by Part 6 should be made out and signed or otherwise authenticated by a skilled person in respect of the design, construction, inspection and testing of the minor work.
- (iii) The Electrical Installation Condition Report required by Part 6 should be made out and signed or otherwise authenticated by a skilled person or persons in respect of the inspection and testing of an existing installation.
- (iv) Skilled persons will, as appropriate to their function under (i) (ii) and (iii) above, have a sound knowledge and experience relevant to the nature of the work undertaken and to the technical standards set down in these Clause , be fully versed in the inspection and testing procedures contained in these Clause and employ adequate testing equipment.
- (v) Electrical Installation Certificates will indicate the responsibility for design, construction, inspection and testing, whether in relation to new work or further work on an existing installation.

Where the design, construction, inspection and testing are the responsibility of one person a Certificate with a single-signature declaration in the form shown below may replace the multiple signatures section of the model form.

FOR DESIGN, CONSTRUCTION, INSPECTION & TESTING

I being the person responsible for the Design, Construction, Inspection & Testing of the electrical installation (as indicated by my signature below), particulars of which are described above, having exercised reasonable skill and care when carrying out the Design, Construction, Inspection & Testing, hereby CERTIFY that the said work for which I have been responsible is to the best of my knowledge and belief in accordance with KS 662:2025, amended to (date) except for the departures, if any, detailed as follows.

- (vi) A Minor Electrical Installation Works Certificate will indicate the responsibility for design, construction, inspection and testing of the work described on the certificate.
- (vii) An Electrical Installation Condition Report will indicate the responsibility for the inspection and testing of an existing installation within the extent and limitations specified on the report.
- (viii) Schedules of inspection and schedules of test results as required by Part 6 should be issued with the associated Electrical Installation Certificate or Electrical Installation Condition Report.
- (ix) When making out and signing a form on behalf of a company or other business entity, individuals should state for whom they are acting.
- (x) Additional forms may be required as clarification, if needed by ordinary persons, or in expansion, for larger or more complex installations.

ELECTRICAL INSTALLATION CERTIFICATE

(REQUIREMENTS FOR ELECTRICAL INSTALLATIONS - KS 662 [REQUIREMENTS FOR ELECTRICAL INSTALLATIONS CLAUSE])

DETAILS OF THE CLIENT	
INSTALLATION ADDRESS	
DESCRIPTION AND EXTENT OF THE INSTALLATION Description of installation:	New installation <input type="checkbox"/>
Extent of installation covered by this Certificate:	Addition to an existing installation <input type="checkbox"/>
(Use continuation sheet if necessary) see continuation sheet No:	Alteration to an existing installation <input type="checkbox"/>
FOR DESIGN I/We being the person(s) responsible for the design of the electrical installation (as indicated by my/our signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the design and additionally where this certificate applies to an addition or alteration, the safety of the existing installation is not impaired, hereby CERTIFY that the design work for which I/we have been responsible is to the best of my/our knowledge and belief in accordance with KS 662:2025, amended to(date) except for the departures, if any, detailed as follows: Details of departures from KS 662 (Clause 120.3, 133.1.3 and 133.5): Details of permitted exceptions (Clause 411.3.3). Where applicable, a suitable risk assessment(s) must be attached to this Certificate. <div style="text-align: right;">Risk assessment attached <input type="checkbox"/></div>	
The extent of liability of the signatory or signatories is limited to the work described above as the subject of this Certificate.	
For the DESIGN of the installation: **(Where there is mutual responsibility for the design)	
Signature:	Date: Name (IN BLOCK LETTERS): Designer No 1
Signature:	Date: Name (IN BLOCK LETTERS): Designer No 2**
FOR CONSTRUCTION I being the person responsible for the construction of the electrical installation (as indicated by my signature below), particulars of which are described above, having exercised reasonable skill and care when carrying out the construction hereby CERTIFY that the construction work for which I have been responsible is to the best of my knowledge and belief in accordance with KS 662:2025, amended to (date) except for the departures, if any, detailed as follows: Details of departures from KS 662 (Clause 120.3 and 133.5): The extent of liability of the signatory is limited to the work described above as the subject of this Certificate.	
For CONSTRUCTION of the installation:	
Signature:	Date: Name (IN BLOCK LETTERS): Constructor
FOR INSPECTION & TESTING I being the person responsible for the inspection & testing of the electrical installation (as indicated by my signature below), particulars of which are described above, having exercised reasonable skill and care when carrying out the inspection & testing hereby CERTIFY that the work for which I have been responsible is to the best of my knowledge and belief in accordance with KS 662:2025, amended to.....(date) except for the departures, if any, detailed as follows: Details of departures from KS 662 (Clause 120.3 and 133.5): The extent of liability of the signatory is limited to the work described above as the subject of this Certificate.	
For INSPECTION AND TESTING of the installation:	
Signature:	Date: Name (IN BLOCK LETTERS): Inspector
NEXT INSPECTION I/We the designer(s), recommend that this installation is further inspected and tested after an interval of not more than years/months.	



PARTICULARS OF SIGNATORIES TO THE ELECTRICAL INSTALLATION CERTIFICATE			
Designer (No 1) Name: Company: Address: Postcode: Tel No:			
Designer (No 2) (if applicable) Name: Company: Address: Postcode: Tel No:			
Constructor Name: Company: Address: Postcode: Tel No:			
Inspector Name: Company: Address: Postcode: Tel No:			
SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS			
Earthing arrangements	Number and Type of Live Conductors		Nature of Supply Parameters
TN-C <input type="checkbox"/>	AC <input type="checkbox"/>	DC <input type="checkbox"/>	Nominal voltage, U / U ₀ ⁽¹⁾V
TN-S <input type="checkbox"/>	1-phase, 2-wire <input type="checkbox"/>	2-wire <input type="checkbox"/>	Nominal frequency, f ⁽¹⁾Hz
TN-C-S <input type="checkbox"/>	2-phase, 3-wire <input type="checkbox"/>	3-wire <input type="checkbox"/>	Prospective fault current, I _{pf} ⁽²⁾kA
TT <input type="checkbox"/>	3-phase, 3-wire <input type="checkbox"/>	Other <input type="checkbox"/>	External loop impedance, Z _e ⁽²⁾Ω
IT <input type="checkbox"/>	3-phase, 4-wire <input type="checkbox"/>		(Note: (1) by enquiry (2) by enquiry or by measurement)
	Confirmation of supply polarity <input type="checkbox"/>		Supply Protective Device
			KS (KS IEC)
			Type
			Rated current
Other sources of supply (as detailed on attached schedule) <input type="checkbox"/>			
PARTICULARS OF INSTALLATION REFERRED TO IN THE CERTIFICATE			
Means of Earthing	Maximum Demand		
Distributor's facility <input type="checkbox"/>	Maximum demand (load)..... kVA / Amps Delete as appropriate		
Installation earth electrode <input type="checkbox"/>	Details of Installation Earth Electrode (where applicable)		
	Type (e.g. rod(s), tape etc)		
	Location		
	Electrode resistance to Earth..... Ω		
Main Protective Conductors			
Earthing conductor	Material csa.....mm ²	Connection / continuity verified <input type="checkbox"/>	
Main protective bonding conductors (to extraneous-conductive-parts)	Material csa.....mm ²	Connection / continuity verified <input type="checkbox"/>	
To water installation pipes <input type="checkbox"/>	To gas installation pipes <input type="checkbox"/>	To oil installation pipes <input type="checkbox"/>	To structural steel <input type="checkbox"/>
To lightning protection <input type="checkbox"/>	To other <input type="checkbox"/> Specify		
Main Switch / Switch-Fuse / Circuit-Breaker / RCD			
Location	Current ratingA	If RCD main switch	
.....	Fuse / device rating or settingA	Rated residual operating current (I _{Δn}).....mA	
KS(KS IEC)	Voltage ratingV	Rated time delay	
No of poles		Measured operating time.....ms	
COMMENTS ON EXISTING INSTALLATION (in the case of an addition or alteration see Clause 644.1.2):			
.....			
.....			
.....			
.....			
.....			
SCHEDULES			
The attached Schedules are part of this document and this Certificate is valid only when they are attached to it.			
..... Schedules of Inspections and Schedules of Test Results are attached.			
(Enter quantities of schedules attached).			

ELECTRICAL INSTALLATION CERTIFICATE

Notes for the person producing the Certificate:

- 1 The Electrical Installation Certificate is to be used only for the initial certification of a new installation or for an addition or alteration to an existing installation where new circuits have been introduced, or the replacement of a consumer unit/distribution board.

It is not to be used for a Periodic Inspection, for which an Electrical Installation Condition Report form should be used. For an addition or alteration which does not extend to the introduction of new circuits, a Minor Electrical Installation Works Certificate may be used.

The 'original' Certificate is to be issued to the person ordering the work (Clause 644.4). A duplicate should be retained by the contractor.

- 2 This Certificate is only valid if accompanied by the Schedule of Inspections and the Schedule(s) of Test Results.
- 3 The signatures appended are those of the persons authorized by the companies executing the work of design, construction, inspection and testing respectively. A signatory authorized to certify more than one category of work should sign in each of the appropriate places.
- 4 The time interval recommended before the first periodic inspection must be inserted.
The proposed date for the next inspection should take into consideration the frequency and quality of maintenance that the installation can reasonably be expected to receive during its intended life, and the period should be agreed between the designer, installer and other relevant parties.
- 5 The page numbers for each of the Schedule of Inspections and the Schedule(s) of Test Results should be indicated, together with the total number of sheets involved.
- 6 The maximum prospective value of fault current (I_{pf}) recorded should be the greater of either the prospective value of short-circuit current or the prospective value of earth fault current.

ELECTRICAL INSTALLATION CERTIFICATE

GUIDANCE FOR RECIPIENTS (to be appended to the Certificate)

This safety Certificate has been issued to confirm that the electrical installation work to which it relates has been designed, constructed, inspected and tested in accordance with KS 662 (the Requirements for electrical installations).

You should have received an 'original' Certificate and the contractor should have retained a duplicate. If you were the person ordering the work, but not the owner of the installation, you should pass this Certificate, or a full copy of it including the schedules, immediately to the owner.

The "original" Certificate should be retained in a safe place and be shown to any person inspecting or undertaking further work on the electrical installation in the future. If you later vacate the property, this Certificate will demonstrate to the new owner that the electrical installation complied with the requirements of KS 662 at the time the Certificate was issued. The Construction (Design and Management) Clause require that, for a project covered by those Clause , a copy of this Certificate, together with schedules, is included in the project health and safety documentation.

For safety reasons, the electrical installation will need to be inspected at appropriate intervals by a skilled person or persons, competent in such work. The maximum time interval recommended before the next inspection is stated on Page 1 under 'NEXT INSPECTION'.

This Certificate is intended to be issued only for a new electrical installation or for new work associated with an addition or alteration to an existing installation. It should not have been issued for the inspection and testing of an existing electrical installation. An 'Electrical Installation Condition Report' should be issued for such an inspection.

This Certificate is only valid if accompanied by the Schedule of Inspections and the Schedule(s) of Test Results.

MINOR ELECTRICAL INSTALLATION WORKS CERTIFICATE

(REQUIREMENTS FOR ELECTRICAL INSTALLATIONS - KS 662 [REQUIREMENTS FOR ELECTRICAL INSTALLATIONS])

To be used only for minor electrical work which does not include the provision of a new circuit

PART 1: Description of the minor works

1. Details of the Client Date minor works completed
2. Installation location/address
3. Description of the minor works
4. Details of departures, if any, from KS 662:2025 for the circuit altered or extended (Clause 120.3, 133.1.3 and 133.5):
Where applicable, a suitable risk assessment(s) must be attached to the Certificate
..... Risk assessment attached
5. Comments on (including any defects observed in) the existing installation (Clause 644.1.2):
.....

PART 2: Presence and adequacy of installation earthing and bonding arrangements (Clause 132.16)

1. System earthing arrangement: TN-S TN-C-S TT
2. Earth fault loop impedance at distribution board (Z_{db}) supplying the final circuit Ω
3. Presence of adequate main protective conductors:
Earthing conductor
Main protective bonding conductor(s) to: Water Gas Oil Structural steel Other.....

PART 3: Circuit details

DB Reference No.: DB Location and type:

Circuit No.: Circuit description:

Circuit overcurrent protective device: KS(KS IEC) Type Rating A

Conductor sizes: Live mm² cpc..... mm²

PART 4: Test results for the circuit altered or extended (where relevant and practicable)

Protective conductor continuity: $R_1 + R_2$ Ω or R_2 Ω

Continuity of ring final circuit conductors: L/L Ω N/N Ω cpc/cpc Ω

Insulation resistance: Live - Live M Ω Live - Earth..... M Ω

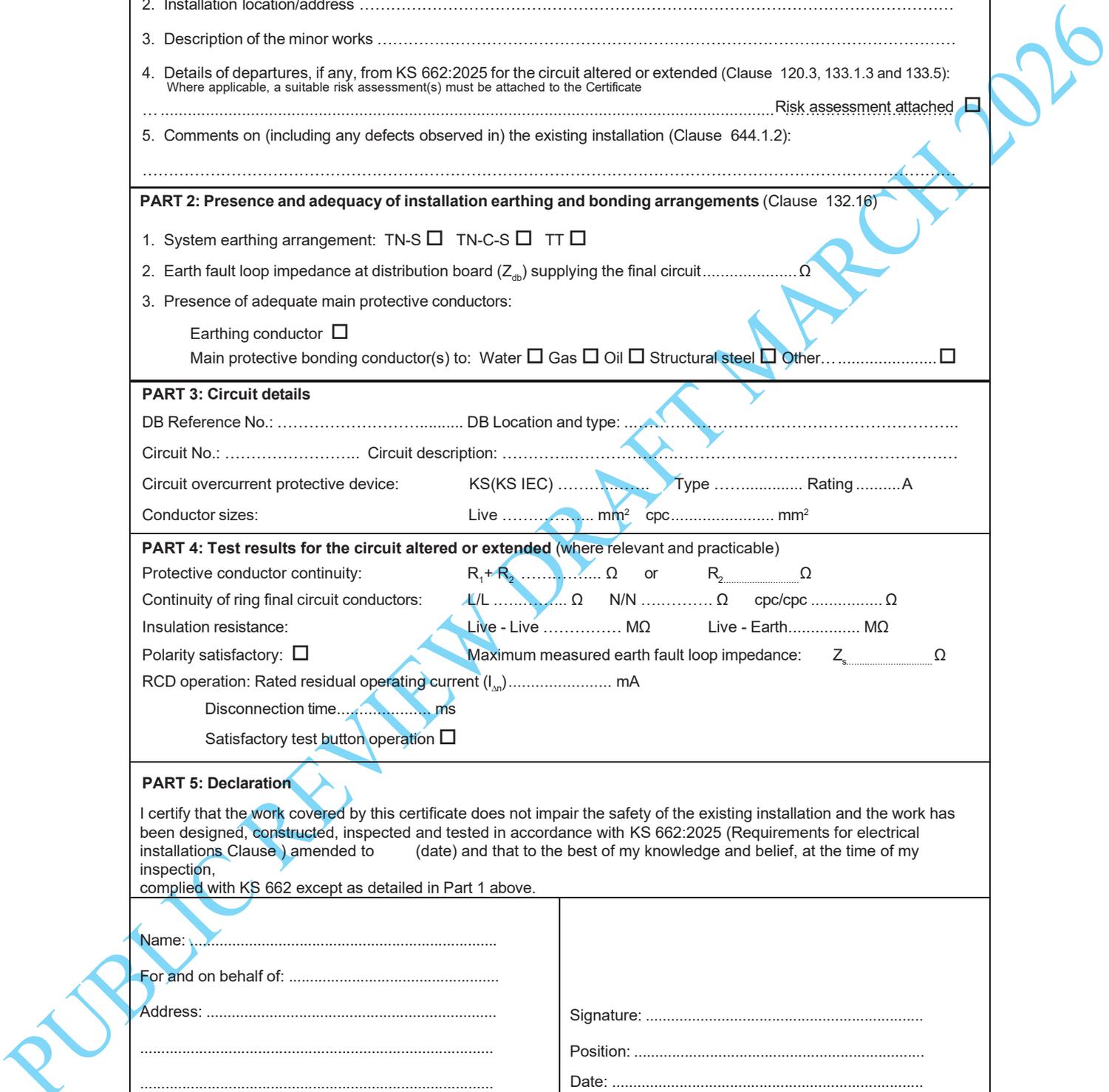
Polarity satisfactory: Maximum measured earth fault loop impedance: Z_s Ω

RCD operation: Rated residual operating current ($I_{\Delta n}$) mA
Disconnection time..... ms
Satisfactory test button operation

PART 5: Declaration

I certify that the work covered by this certificate does not impair the safety of the existing installation and the work has been designed, constructed, inspected and tested in accordance with KS 662:2025 (Requirements for electrical installations Clause) amended to (date) and that to the best of my knowledge and belief, at the time of my inspection, complied with KS 662 except as detailed in Part 1 above.

Name: For and on behalf of: Address:	Signature: Position: Date:
--	--



MINOR ELECTRICAL INSTALLATION WORKS CERTIFICATE

Notes for the person producing the Certificate:

The Minor Electrical Installation Works Certificate is intended to be used for additions and alterations to an installation that do not extend to the provision of a new circuit. Examples include the addition of socket-outlets or lighting points to an existing circuit, the relocation of a light switch etc. This Certificate may also be used for the replacement of equipment such as accessories or luminaires, but not for the replacement of distribution boards or similar items. Appropriate inspection and testing, however, should always be carried out irrespective of the extent of the work undertaken.

MINOR ELECTRICAL INSTALLATION WORKS CERTIFICATE

GUIDANCE FOR RECIPIENTS (to be appended to the Certificate)

This Certificate has been issued to confirm that the electrical installation work to which it relates has been designed, constructed, inspected and tested in accordance with KS 662 (the Requirements for electrical installations).

You should have received an 'original' Certificate and the contractor should have retained a duplicate. If you were the person ordering the work, but not the owner of the installation, you should pass this Certificate, or a copy of it, to the owner. A separate Certificate should have been received for each existing circuit on which minor works have been carried out. This Certificate is not appropriate if you requested the contractor to undertake more extensive installation work, for which you should have received an Electrical Installation Certificate.

The Certificate should be retained in a safe place and be shown to any person inspecting or undertaking further work on the electrical installation in the future. If you later vacate the property, this Certificate will demonstrate to the new owner that the minor electrical installation work carried out complied with the requirements of KS 662 at the time the Certificate was issued.

Examples of items requiring inspection during initial verification

All items inspected in order to confirm, as appropriate, compliance with the relevant clauses in KS 662.

The list of items is not exhaustive. Numbers in brackets are Clause references.

EXTERNAL CONDITION OF INTAKE EQUIPMENT (VISUAL INSPECTION ONLY)

- Service cable
- Service head
- Earthing arrangement
- Meter tails
- Metering equipment
- Isolator (where present)

PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF SUPPLY

- Presence of adequate arrangements where generator to operate as a switched alternative (551.6)
 - 1 Dedicated earthing arrangement independent of that of the public supply (551.4.3.2.1)
- Presence of adequate arrangements where generator to operate in parallel with the public supply system (551.7)
 - 1 Correct connection of generator in parallel (551.7.2)
 - 2 Compatibility of characteristics of means of generation (551.7.3)
 - 3 Means to provide automatic disconnection of generator in the event of loss of public supply system or voltage or frequency deviation beyond declared values (551.7.4)
 - 4 Means to prevent connection of generator in the event of loss of public supply system or voltage or frequency deviation beyond declared values (551.7.5)
 - 5 Means to isolate generator from the public supply system (551.7.6)

AUTOMATIC DISCONNECTION OF SUPPLY

- Protective earthing/protective bonding arrangements (411.3; Chap 54)
- Presence and adequacy of
 - 1 Distributor's earthing arrangement (542.1.2.1; 542.1.2.2), or installation earth electrode arrangement (542.1.2.3)

- 2 Earthing conductor and connections (Section 526; 542.3; 542.3.2; 543.1.1)
 - 3 Main protective bonding conductors and connections (Section 526; 544.1; 544.1.2)
 - 4 Earthing/bonding labels at all appropriate locations (514.13)
- Accessibility of
 - 1 Earthing conductor connections
 - 2 All protective bonding connections (543.3.2)
 - FELV – requirements satisfied (411.7; 411.7.1)

OTHER METHODS OF PROTECTION

(Where any of the methods listed below are employed details should be provided on separate pages)

BASIC AND FAULT PROTECTION where used, confirmation that the requirements are satisfied:

- SELV (Section 414)
- PELV (Section 414)
- Double insulation (Section 412)
- Reinforced insulation (Section 412)

BASIC PROTECTION:

- Insulation of live parts (416.1)
- Barriers or enclosures (416.2; 416.2.1)
- Obstacles (Section 417; 417.2.1; 417.2.2)
- Placing out of reach (Section 417; 417.3)

FAULT PROTECTION:

- Non-conducting location (418.1)
- Earth-free local equipotential bonding (418.2)
- Electrical separation (Section 413; 418.3)

ADDITIONAL PROTECTION:

- RCDs not exceeding 30 mA as specified (415.1)
- Supplementary bonding (Section 415; 415.2)

SPECIFIC INSPECTION EXAMPLES as appropriate to the installation

DISTRIBUTION EQUIPMENT

- Security of fixing (134.1.1)
- Insulation of live parts not damaged during erection (416.1)
- Adequacy/security of barriers (416.2)
- Suitability of enclosures for IP and fire ratings (416.2; 421.1.6; 421.1.201; 526.5)
- Enclosures not damaged during installation (134.1.1)
- Presence and effectiveness of obstacles (417.2)
- Components are suitable according to manufacturers' assembly instructions or literature (536.4.203)
- Presence of main switch(es), linked where required (462.1.201)
- Operation of main switch(es) (functional check) (643.10)
- Manual operation of circuit-breakers and RCDs to prove functionality (643.10)
- Confirmation that integral test button/switch causes RCD(s) to trip when operated (functional check) (643.10)
- RCD(s) provided for fault protection, where specified (411.4.204; 411.5.2; 531.2)
- RCD(s) provided for additional protection, where specified (415.1)
- Confirmation overvoltage protection (SPDs) provided where specified (534.4.1.1)
- Presence of RCD six-monthly test notice at or near the origin (514.12.2)
- Presence of diagrams, charts or schedules at or near each distribution board, where required (514.9.1)
- Presence of non-standard (mixed) cable colour warning notice at or near the appropriate distribution board, where required (514.14)
- Presence of alternative supply warning notice at or near (514.15)
 - 1 The origin
 - 2 The meter position, if remote from origin

- 3 The distribution board to which the alternative/additional sources are connected
 - 4 All points of isolation of ALL sources of supply
- Presence of next inspection recommendation label (514.12.1)
 - Presence of other required labelling (Section 514)
 - Selection of protective device(s) and base(s); correct type and rating (411.3.2; 411.4, .5, .6; Sections 432, 433, 434)
 - Single-pole protective devices in line conductors only (132.14.1; 530.3.3; 643.6)
 - Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.5; 522.8.11)
 - Protection against electromagnetic effects where cables enter ferromagnetic enclosures (521.5.1)
 - Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure (526.1)

CIRCUITS

- Identification of conductors (514.3.1)
- Cables correctly supported throughout (522.8.5; 521.10.202)
- Examination of cables for signs of mechanical damage during installation (522.6.1; 522.8.1; 522.8.3)
- Examination of insulation of live parts, not damaged during erection (522.6.1; 522.8.1)
- Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1)
- Suitability of containment systems (including flexible conduit) (Section 522)
- Correct temperature rating of cable insulation (522.1.1; Table 52.1)
- Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)
- Adequacy of protective devices: type and fault current rating for fault protection (434.5)
- Presence and adequacy of circuit protective conductors (411.3.1; 543.1)
- Coordination between conductors and overload protective devices (433.1; 533.2.1)
- Wiring systems and cable installation methods/practices with regard to the type and nature of installation and external influences (Section 522)
- Cables concealed under floors, above ceilings, in walls/partitions, adequately protected against damage (522.6.201, 522.6.202, 522.6.203, 522.6.204)
- Provision of additional protection by RCDs having rated residual operating current ($I_{\Delta n}$) not exceeding 30 mA
 - 1 For all socket-outlets of rating (32 A) or less, unless exempt (411.3.3)
 - 2 Supplies for mobile equipment not exceeding 32 A rating for use outdoors (411.3.3)
 - 3 For cables concealed in walls at a depth of less than 50 mm (522.6.202, .203)
 - 4 For cables concealed in walls/partitions containing metal parts regardless of depth (522.6.202; .203)
 - 5 Circuits supplying luminaires within domestic (household) premises (411.3.4)
- Provision of fire barriers, sealing arrangements so as to minimize the spread of fire (Section 527)
- Band II cables segregated/separated from Band I cables (528.1)
- Cables segregated/separated from non-electrical services (528.3)
- Termination of cables at enclosures (Section 526)
 - 1 Connections under no undue strain (522.8.5; 526.6)
 - 2 No basic insulation of a conductor visible outside enclosure (526.8)
 - 3 Connections of live conductors adequately enclosed (526.5)
 - 4 Adequately connected at point of entry to enclosure (glands, bushes etc.) (522.8.5)
- Suitability of circuit accessories for external influences (512.2)
- Circuit accessories not damaged during erection (134.1.1)
- Single-pole devices for switching or protection in line conductors only (132.14.1, 530.3.3; 643.6)
- Adequacy of connections, including cpcs, within accessories and at fixed and stationary equipment (Section 526)

ISOLATION AND SWITCHING

- Isolators (462; 537.2)
 - 1 Presence and location of appropriate devices (Section 462; 537.2.7)
 - 2 Capable of being secured in the OFF position (537.2.4)
 - 3 Correct operation verified (functional check) (643.10)

- 4 The installation, circuit or part thereof that will be isolated clearly identified by location and/or durable marking (537.2.7)
- 5 Warning notice posted in situation where live parts cannot be isolated by the operation of a single device (514.11.1; 537.1.2)
- Switching off for mechanical maintenance (Section 464; 537.3.2)
 - 1 Presence of appropriate devices (464.1; 537.3.2)
 - 2 Acceptable location – state if local or remote from equipment in question (537.3.2.4)
 - 3 Capable of being secured in the OFF position (464.2)
 - 4 Correct operation verified (functional check) (643.10)
 - 5 The circuit or part thereof to be disconnected clearly identified by location and/or durable marking (537.3.2.3; 537.3.2.4)
- Emergency switching/stopping (Section 465; 537.3.3; 537.4)
 - 1 Presence of appropriate devices (465.1; 537.3.3; 537.4)
 - 2 Readily accessible for operation where danger might occur (537.3.3.6)
 - 3 Correct operation verified (functional check) (643.10)
 - 4 The installation, circuit or part thereof to be disconnected clearly identified by location and/or durable marking (537.3.3.6)
- Functional switching (463.1; 537.3.1)
 - 1 Presence of appropriate devices (537.3.1.1; 537.3.1.2)
 - 2 Correct operation verified (functional check) (537.3.1.1; 537.3.1.2; 643.10)

CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)

- Suitability of equipment in terms of IP and fire ratings (416.2; 421.1; 421.1.201; 526.5)
- Enclosure not damaged/deteriorated during installation so as to impair safety (134.1.1)
- Suitability for the environment and external influences (512.2)
- Security of fixing (134.1.1)
- Cable entry holes in ceilings above luminaires, sized or sealed so as to restrict the spread of fire (527.2)
- Provision of undervoltage protection, where specified (Section 445)
- Provision of overload protection, where specified (Section 433; 552.1)
- Recessed luminaires (downlighters)
 - 1 Correct type of lamps fitted (559.3.1)
 - 2 Installed to minimize build-up of heat (421.1.2; 559.4.1)
- Adequacy of working space/accessibility to equipment (132.12; 513.1)

PART 7 SPECIAL INSTALLATIONS OR LOCATIONS

Particular requirements for special locations are fulfilled.

SCHEDULE OF INSPECTIONS (for new installation work only) for

DOMESTIC AND SIMILAR PREMISES WITH UP TO 100 A SUPPLY

NOTE 1: This form is suitable for many types of smaller installation, not exclusively domestic.

All items inspected in order to confirm, as appropriate, compliance with the relevant clauses in KS 662 . The list of items and associated examples where given are not exhaustive.

NOTE 2: Insert ✓ to indicate an inspection has been carried out and the result is satisfactory, or N/A to indicate that the inspection is not applicable to a particular item.

Item No	DESCRIPTION	Outcome See Note 2
1.0	EXTERNAL CONDITION OF INTAKE EQUIPMENT (VISUAL INSPECTION ONLY)	
1.1	Service cable	
1.2	Service head	
1.3	Earthing arrangement	
1.4	Meter tails	
1.5	Metering equipment	
1.6	Isolator (where present)	
2.0	PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF SUPPLY	
2.1	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)	
2.2	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)	
3.0	AUTOMATIC DISCONNECTION OF SUPPLY	
3.1	Presence and adequacy of earthing and protective bonding arrangements:	
	• Distributor's earthing arrangement (542.1.2.1; 542.1.2.2)	
	• Installation earth electrode (where applicable) (542.1.2.3)	
	• Earthing conductor and connections, including accessibility (542.3; 543.3.2)	
	• Main protective bonding conductors and connections, including accessibility (411.3.1.2; 543.3.2; 544.1)	
	• Provision of safety electrical earthing/bonding labels at all appropriate locations (514.13)	
	• RCD(s) provided for fault protection (411.4.204; 411.5.3)	
4.0	BASIC PROTECTION	
4.1	Presence and adequacy of measures to provide basic protection (prevention of contact with live parts) within the installation:	
	• Insulation of live parts e.g. conductors completely covered with durable insulating material (416.1)	
	• Barriers or enclosures e.g. correct IP rating (416.2)	
5.0	ADDITIONAL PROTECTION	
5.1	Presence and effectiveness of additional protection methods:	
	• RCD(s) not exceeding 30 mA operating current (415.1; Part 7), see Item 8.14 of this schedule	
	• Supplementary bonding (415.2; Part 7)	
6.0	OTHER METHODS OF PROTECTION	
6.1	Presence and effectiveness of methods which give both basic and fault protection:	
	• SELV system, including the source and associated circuits (Section 414)	
	• PELV system, including the source and associated circuits (Section 414)	
	• Double or reinforced insulation i.e. Class II or equivalent equipment and associated circuits (Section 412)	
	• Electrical separation for one item of equipment e.g. shaver supply unit (Section 413)	
7.0	CONSUMER UNIT(S) / DISTRIBUTION BOARD(S):	
7.1	Adequacy of access and working space for items of electrical equipment including switchgear (132.12)	
7.2	Components are suitable according to assembly manufacturer's instructions or literature (536.4.203)	
7.3	Presence of linked main switch(es) (462.1.201)	
7.4	Isolators, for every circuit or group of circuits and all items of equipment (462.2)	
7.5	Suitability of enclosure(s) for IP and fire ratings (416.2; 421.1.6; 421.1.201; 526.5)	

Item No	DESCRIPTION	Outcome See Note 2
	CONSUMER UNIT(S) / DISTRIBUTION BOARD(S) continued	
7.6	Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.5; 522.8.11)	
7.7	Confirmation that ALL conductor connections are correctly located in terminals and are tight and secure (526.1)	
7.8	Avoidance of heating effects where cables enter ferromagnetic enclosures e.g. steel (521.5)	
7.9	Selection of correct type and ratings of circuit protective devices for overcurrent and fault protection (411.3.2; 411.4, 411.5, 411.6; Sections 432, 433; 537.3.1.1)	
7.10	Presence of appropriate circuit charts, warning and other notices:	
	• Provision of circuit charts/schedules or equivalent forms of information (514.9)	
	• Warning notice of method of isolation where live parts not capable of being isolated by a single device (514.11)	
	• Periodic inspection and testing notice (514.12.1)	
	• RCD six-monthly test notice; where required (514.12.2)	
	• AFDD six-monthly test notice; where required	
	• Warning notice of non-standard (mixed) colours of conductors present (514.14)	
7.11	Presence of labels to indicate the purpose of switchgear and protective devices (514.1.1; 514.8)	
8.0	CIRCUITS	
8.1	Adequacy of conductors for current-carrying capacity with regard to type and nature of the installation (Section 523)	
8.2	Cable installation methods suitable for the location(s) and external influences (Section 522)	
8.3	Segregation/separation of Band I (ELV) and Band II (LV) circuits, and electrical and non-electrical services (528)	
8.4	Cables correctly erected and supported throughout, with protection against abrasion (Sections 521, 522)	
8.5	Provision of fire barriers, sealing arrangements where necessary (527.2)	
8.6	Non-sheathed cables enclosed throughout in conduit, ducting or trunking (521.10.1; 526.8)	
8.7	Cables concealed under floors, above ceilings or in walls/partitions, adequately protected against damage (522.6.201, 522.6.202, 522.6.203; 522.6.204)	
8.8	Conductors correctly identified by colour, lettering or numbering (Section 514)	
8.9	Presence, adequacy and correct termination of protective conductors (411.3.1.1; 543.1)	
8.10	Cables and conductors correctly connected, enclosed and with no undue mechanical strain (Section 526)	
8.11	No basic insulation of a conductor visible outside enclosure (526.8)	
8.12	Single-pole devices for switching or protection in line conductors only (132.14.1; 530.3.3; 643.6)	
8.13	Accessories not damaged, securely fixed, correctly connected, suitable for external influences (134.1.1; 512.2; Section 526)	
8.14	Provision of additional protection/requirements by RCD not exceeding 30mA:	
	• Socket-outlets rated at 32 A or less, unless exempt (411.3.3)	
	• Supplies for mobile equipment with a current rating not exceeding 32 A for use outdoors (411.3.3)	
	• Cables concealed in walls at a depth of less than 50 mm (522.6.202; 522.6.203)	
	• Cables concealed in walls/partitions containing metal parts regardless of depth (522.6.202; 522.6.203)	
	• Final circuits supplying luminaires within domestic (household) premises (411.3.4)	
8.15	Presence of appropriate devices for isolation and switching correctly located including:	
	• Means of switching off for mechanical maintenance (Section 464; 537.3.2)	
	• Emergency switching (465.1; 537.3.3)	
	• Functional switching, for control of parts of the installation and current-using equipment (463.1; 537.3.1)	
	• Firefighter's switches (537.4)	
9.0	CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)	
9.1	Equipment not damaged, securely fixed and suitable for external influences (134.1.1; 416.2; 512.2)	
9.2	Provision of overload and/or undervoltage protection e.g. for rotating machines, if required (Sections 445, 552)	
9.3	Installed to minimize the build-up of heat and restrict the spread of fire (421.1.4; 559.4.1)	
9.4	Adequacy of working space. Accessibility to equipment (132.12; 513.1)	
10.0	LOCATION(S) CONTAINING A BATH OR SHOWER (SECTION 701)	
10.1	30 mA RCD protection for all LV circuits, equipment suitable for the zones, supplementary bonding (where required) etc.	
11.0	OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS	
11.1	List all other special installations or locations present, if any. (Record separately the results of particular inspections applied)	

Inspected by:

Name (Capitals)

Signature

Date

ELECTRICAL INSTALLATION CONDITION REPORT

SECTION A. DETAILS OF THE PERSON ORDERING THE REPORT Name Address	
SECTION B. REASON FOR PRODUCING THIS REPORT Date(s) on which inspection and testing was carried out	
SECTION C. DETAILS OF THE INSTALLATION WHICH IS THE SUBJECT OF Occupier Address Description of premises Domestic <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other (include brief description) <input type="checkbox"/> Estimated age of wiring system years Evidence of additions / alterations Yes <input type="checkbox"/> No <input type="checkbox"/> Not apparent <input type="checkbox"/> If yes, estimate age years Installation records available? (Clause 651.1) Yes <input type="checkbox"/> No <input type="checkbox"/> Date of last inspection (date)	
SECTION D. EXTENT AND LIMITATIONS OF INSPECTION AND TESTING Extent of the electrical installation covered by this report Agreed limitations including the reasons (see Clause 653.2) Agreed with: Operational limitations including the reasons (see page no.) The inspection and testing detailed in this report and accompanying schedules have been carried out in accordance with KS 662:2025 (Requirements for electrical installations Clause) as amended to It should be noted that cables concealed within trunking and conduits, under floors, in roof spaces, and generally within the fabric of the building or underground, have not been inspected unless specifically agreed between the client and inspector prior to the inspection. An inspection should be made within an accessible roof space housing other electrical equipment.	
SECTION E. SUMMARY OF THE CONDITION OF THE INSTALLATION General condition of the installation (in terms of electrical safety) Overall assessment of the installation in terms of its suitability for continued use SATISFACTORY / UNSATISFACTORY* (Delete as appropriate) *An unsatisfactory assessment indicates that dangerous (code C1) and/or potentially dangerous (code C2) conditions have been identified.	
SECTION F. RECOMMENDATIONS Where the overall assessment of the suitability of the installation for continued use above is stated as UNSATISFACTORY, I / we recommend that any observations classified as 'Danger present' (code C1) or 'Potentially dangerous' (code C2) are acted upon as a matter of urgency. Investigation without delay is recommended for observations identified as 'Further investigation required' (code F1). Observations classified as 'Improvement recommended' (code C3) should be given due consideration. Subject to the necessary remedial action being taken, I / we recommend that the installation is further inspected and tested by (date)	
SECTION G. DECLARATION I/We, being the person(s) responsible for the testing of the electrical installation (as indicated by my/our signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the inspection and testing, hereby declare that the information in this report, including the observations and the attached schedules, provides an accurate assessment of the condition of the electrical installation taking into account the stated extent and limitations in section D of this report.	
Inspected and tested by: Name (Capitals) Signature For/on behalf of Position Address Date	Report authorised for issue by: Name (Capitals) Signature For/on behalf of Position Address Date
SECTION H. SCHEDULE(S) schedule(s) of inspection and schedule(s) of test results are attached. The attached schedule(s) are part of this document and this report is valid only when they are attached to it.	

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SECTION I. SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS				
Earthing arrangements	Number and Type of Live Conductors		Nature of Supply Parameters	Supply Protective Device
TN-C <input type="checkbox"/>	AC <input type="checkbox"/>	DC <input type="checkbox"/>	Nominal voltage, U / U ₀ ⁽¹⁾V	KS (KS IEC)
TN-S <input type="checkbox"/>	1- phase, 2-wire <input type="checkbox"/>	2-wire <input type="checkbox"/>	Nominal frequency, f ⁽¹⁾ Hz	Type
TN-C-S <input type="checkbox"/>	2- phase, 3-wire <input type="checkbox"/>	3-wire <input type="checkbox"/>	Prospective fault current, I _{pf} ⁽²⁾ kA	Rated current.....A
TT <input type="checkbox"/>	3- phase, 3-wire <input type="checkbox"/>	Other <input type="checkbox"/>	External loop impedance, Z _e ⁽²⁾ v	
IT <input type="checkbox"/>	3-phase, 4-wire <input type="checkbox"/>		(Note: (1) by enquiry (2) by enquiry or by measurement)	
	Confirmation of supply polarity <input type="checkbox"/>			
Earthing conductor		Material csamm ²	Connection / continuity verified <input type="checkbox"/>	
Main protective bonding conductors (to extraneous-conductive-parts)		Material csamm ²	Connection / continuity verified <input type="checkbox"/>	
To water installation pipes <input type="checkbox"/>	To gas installation pipes <input type="checkbox"/>	To oil installation pipes <input type="checkbox"/>	To structural steel <input type="checkbox"/>	
Location		Current rating.....A	If RCD main switch	
KS(KS IEC)		Fuse / device rating or setting.....A	Rated residual operating current (I _n)	
No of poles		Voltage rating V	Rated time delay.....ms	
			Measured operating time.....ms	
One of the following codes, as appropriate, has been allocated to each of the observations made above to indicate to the person(s) responsible for the installation the degree of urgency for remedial action.				
C1 - Danger present. Risk of injury. Immediate remedial action required				
C2 - Potentially dangerous - urgent remedial action required				
C3 - Improvement recommended				
FI - Further investigation required without delay				

PUBLIC REVIEW DRAFT MARCH 2026

CONDITION REPORT

Notes for the person producing the Report:

- 1 This Report should only be used for reporting on the condition of an existing electrical installation, and not for the replacement of a consumer unit/distribution board. An installation which was designed to an earlier edition of the Clause and which does not fully comply with the current edition is not necessarily unsafe for continued use, or requires upgrading. Only damage, deterioration, defects, dangerous conditions and non-compliance with the requirements of the Clause, which may give rise to danger, should be recorded.
- 2 The Report, normally comprising at least five pages, should include schedules of both the inspection and the test results. Additional pages may be necessary for other than a simple installation and for the 'Guidance for recipients'. The number of each page should be indicated, together with the total number of pages involved.
- 3 The reason for producing this Report, such as change of occupancy or landlord's periodic maintenance, should be identified in Section B.
- 4 Those elements of the installation that are covered by the Report and those that are not should be identified in Section D (Extent and limitations). These aspects should have been agreed with the person ordering the report and other interested parties before the inspection and testing commenced. Any operational limitations, such as inability to gain access to parts of the installation or an item of equipment, should also be recorded in Section D.
- 5 The maximum prospective value of fault current (I_{pf}) recorded should be the greater of either the prospective value of short-circuit current or the prospective value of earth fault current.
- 6 Where an installation has an alternative source of supply a further schedule of supply characteristics and earthing arrangements based upon Section I of this Report should be provided.
- 7 A summary of the condition of the installation in terms of safety should be clearly stated in Section E. Observations, if any, should be categorised in Section K using the coding C1 to C3 as appropriate. Any observation given a code C1 or C2 classification should result in the overall condition of the installation being reported as unsatisfactory.
- 8 Wherever practicable, **items classified as 'Danger present' (C1) should be made safe on discovery.** Where this is not possible the owner or user should be given written notification as a matter of urgency.
- 9 Where an observation requires further investigation (FI) because the inspection has revealed an apparent deficiency which could not, owing to the extent or limitations of the inspection, be fully identified and further investigation may reveal a code C1 or C2 item, this should be recorded within Section K, given the code FI and marked as unsatisfactory in Section E.
- 10 If the space available for observations in Section K is insufficient, additional pages should be provided as necessary.
- 11 The date by which the next Electrical Installation Condition Report is recommended should be given in Section F. The interval between inspections should take into account the type and usage of the installation and its overall condition.
- 12 Any deficiencies with intake equipment should be reported to the person ordering the work.

CONDITION REPORT

GUIDANCE FOR RECIPIENTS

(to be appended to the Report)

This Report is an important and valuable document which should be retained for future reference.

- 1 The purpose of this Report is to confirm, so far as reasonably practicable, whether or not the electrical installation is in a satisfactory condition for continued service (see Section E). The Report should identify any damage, deterioration, defects and/or conditions which may give rise to danger (see Section K).
- 2 The person ordering the Report should have received the 'original' Report and the inspector should have retained a duplicate.
- 3 The 'original' Report should be retained in a safe place and be made available to any person inspecting or undertaking work on the electrical installation in the future. If the property is vacated, this Report will provide the new owner/occupier with details of the condition of the electrical installation at the time the Report was issued.
- 4 Where the installation incorporates a residual current device (RCD) there should be a notice at or near the device stating that it should be tested six-monthly. **For safety reasons it is important that this instruction is followed.**
- 5 Section D (Extent and Limitations) should identify fully the extent of the installation covered by this Report and any limitations on the inspection and testing. The inspector should have agreed these aspects with the person ordering the Report and with other interested parties (licensing authority, insurance company, mortgage provider and the like) before the inspection was carried out.
- 6 Some operational limitations such as inability to gain access to parts of the installation or an item of equipment may have been encountered during the inspection. The inspector should have noted these in Section D.
- 7 For items classified in Section K as C1 ('Danger present'), **the safety of those using the installation is at risk**, and it is recommended that a skilled person or persons competent in electrical installation work undertakes the necessary remedial work immediately.
- 8 For items classified in Section K as C2 ('Potentially dangerous'), **the safety of those using the installation may be at risk** and it is recommended that a skilled person or persons competent in electrical installation work undertakes the necessary remedial work as a matter of urgency.
- 9 Where it has been stated in Section K that an observation requires further investigation (code FI) the inspection has revealed an apparent deficiency which may result in a code C1 or C2, and could not, due to the extent or limitations of the inspection, be fully identified. Such observations should be investigated without delay. A further examination of the installation will be necessary, to determine the nature and extent of the apparent deficiency (see Section F).
- 10 For safety reasons, the electrical installation should be re-inspected at appropriate intervals by a skilled person or persons, competent in such work. The recommended date by which the next inspection is due is stated in Section F of the Report under 'Recommendations' and on a label at or near to the consumer unit/distribution board.

CONDITION REPORT INSPECTION SCHEDULE

GUIDANCE FOR THE INSPECTOR

- 1 Section 1.0. Where inadequacies in the intake equipment are encountered the inspector should advise the person ordering the work to inform the appropriate authority.
- 2 Older installations designed prior to KS 662:2025 may not have been provided with RCDs for additional protection. The absence of such protection should as a minimum be given a code C3 classification (item 5.12).
- 3 The schedule is not exhaustive.
- 4 Numbers in brackets are Clause references to specified requirements.

EXAMPLES OF ITEMS REQUIRING INSPECTION

FOR AN ELECTRICAL INSTALLATION CONDITION REPORT

A visual inspection should first be made of the external condition of all electrical equipment which is not concealed.

Further detailed inspection, including partial dismantling of equipment as required, should be carried out as agreed with the person ordering the work. (651.2)

These examples are not exhaustive. Numbers in brackets are Clause references.

EXTERNAL CONDITION OF INTAKE EQUIPMENT (VISUAL INSPECTION ONLY)

- Service cable
- Service head
- Earthing arrangements
- Meter tails
- Metering equipment
- Isolator (where present)

Where inadequacies in intake equipment are encountered, it is recommended that the person ordering the report informs the appropriate authority.

PRESENCE OF ADEQUATE ARRANGEMENTS FOR PARALLEL

OR SWITCHED ALTERNATIVE SOURCES

- Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)
- Adequate arrangements where a generating set operates in parallel with the public supply (551.7)

AUTOMATIC DISCONNECTION OF SUPPLY

- Main earthing/bonding arrangements (411.3; Chap 54)
 - 1 Presence of distributor's earthing arrangement (542.1.2.1; 542.1.2.2), or presence of installation earth electrode arrangement (542.1.2.3)
 - 2 Adequacy of earthing conductor size (542.3; 543.1.1)
 - 3 Adequacy of earthing conductor connections (542.3.2)
 - 4 Accessibility of earthing conductor connections (543.3.2)
 - 5 Adequacy of main protective bonding conductor sizes (544.1)
 - 6 Adequacy and location of main protective bonding conductor connections (543.3.2; 544.1.2)
 - 7 Accessibility of all protective bonding connections (543.3.2)
 - 8 Provision of earthing/bonding labels at all appropriate locations (514.13)
- FELV - requirements satisfied (411.7; 411.7.1)

OTHER METHODS OF PROTECTION

(Where any of the methods listed below are employed details should be provided on separate sheets)

- Non-conducting location (418.1)
- Earth-free local equipotential bonding (418.2)
- Electrical separation (Section 413; 418.3)
- Double insulation (Section 412)
- Reinforced insulation (Section 412)

DISTRIBUTION EQUIPMENT

- Adequacy of working space/accessibility to equipment (132.12; 513.1)
- Security of fixing (134.1.1)
- Condition of insulation of live parts (416.1)
- Adequacy/security of barriers (416.2)
- Condition of enclosure(s) in terms of IP rating etc (416.2)

- Condition of enclosure(s) in terms of fire rating etc (421.1.6; 421.1.201; 526.5)
- Enclosure not damaged/deteriorated so as to impair safety (651.2)
- Presence and effectiveness of obstacles (417.2)
- Presence of main switch(es), linked where required (462.1; 462.1.201; 462.2)
- Operation of main switch(es) (functional check) (643.10)
- Manual operation of circuit-breakers and RCDs to prove disconnection (643.10)
- Confirmation that integral test button/switch causes RCD(s) to trip when operated (functional check) (643.10)
- RCD(s) provided for fault protection – includes RCBOs (411.4.204; 411.5.2; 531.2)
- RCD(s) provided for additional protection/requirements, where required – includes RCBOs (411.3.3; 415.1)
- Presence of RCD six-monthly test notice at or near equipment, where required (514.12.2)
- Presence of diagrams, charts or schedules at or near equipment, where required (514.9.1)
- Presence of non-standard (mixed) cable colour warning notice at or near equipment, where required (514.14)
- Presence of alternative supply warning notice at or near equipment, where required (514.15)
- Presence of next inspection recommendation label (514.12.1)
- Presence of other required labelling (please specify) (Section 514)
- Compatibility of protective devices, bases and other components; correct type and rating (no signs of unacceptable thermal damage, arcing or overheating) (411.3.2; 411.4; 411.5; 411.6; Sections 432, 433)
- Single-pole switching or protective devices in line conductors only (132.14.1; 530.3.3)
- Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.5; 522.8.11)
- Protection against electromagnetic effects where cables enter ferromagnetic enclosures (521.5.1)

DISTRIBUTION CIRCUITS

- Identification of conductors (514.3.1)
- Cables correctly supported throughout their run (521.10.202; 522.8.5)
- Condition of insulation of live parts (416.1)
- Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1)
- Suitability of containment systems for continued use (including flexible conduit) (Section 522)
- Cables correctly terminated in enclosures (Section 526)
- Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure (526.1)
- Examination of cables for signs of unacceptable thermal or mechanical damage/deterioration (421.1; 522.6)
- Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)
- Adequacy of protective devices: type and rated current for fault protection (411.3)
- Presence and adequacy of circuit protective conductors (411.3.1.1; 543.1)
- Coordination between conductors and overload protective devices (433.1; 533.2.1)
- Cable installation methods/practices with regard to the type and nature of installation and external influences (Section 522)
 - Where exposed to direct sunlight, cable of a suitable type (522.11.1)
 - Cables concealed under floors, above ceilings, in walls/partitions less than 50 mm from a surface, and in partitions containing metal parts
 - 1 installed in prescribed zones (see Section D. *Extent and limitations*) (522.6.202) or
 - 2 incorporating earthed armour or sheath, or run within earthed wiring system, or otherwise protected against mechanical damage by nails, screws and the like (see Section D. *Extent and limitations*) (522.6.204)
- Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)
- Band II cables segregated/separated from Band I cables (528.1)
- Cables segregated/separated from non-electrical services (528.3)
- Condition of circuit accessories (651.2)
- Suitability of circuit accessories for external influences (512.2)

- Single-pole switching or protective devices in line conductors only (132.14.1; 530.3.3)
- Adequacy of connections, including cpcs, within accessories and to fixed and stationary equipment – identify/record numbers and locations of items inspected (Section 526)
- Presence, operation and correct location of appropriate devices for isolation and switching (Chapter 46; Section 537)
- General condition of wiring systems (651.2)
- Temperature rating of cable insulation (522.1.1; Table 52.1)

FINAL CIRCUITS

- Identification of conductors (514.3.1)
- Cables correctly supported throughout their run (521.10.202; 522.8.5)
- Condition of insulation of live parts (416.1)
- Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1)
- Suitability of containment systems for continued use (including flexible conduit) (Section 522)
- Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)
- Adequacy of protective devices: type and rated current for fault protection (411.3)
- Presence and adequacy of circuit protective conductors (411.3.1.1; 543.1)
- Co-ordination between conductors and overload protective devices (433.1; 533.2.1)
- Wiring system(s) appropriate for the type and nature of the installation and external influences (Section 522)
- Cables concealed under floors, above ceilings, in walls/partitions, adequately protected against damage (522.6.201; 522.6.202; 522.6.203; 522.6.204)
 - 1 installed in prescribed zones (see Section D. *Extent and limitations*) (522.6.202)
 - 2 incorporating earthed armour or sheath, or run within earthed wiring system, or otherwise protected against mechanical damage by nails, screws and the like (see Section D. *Extent and limitations*) (522.6.201; 522.6.204)
- Provision of additional protection by 30 mA RCD
 - 1 *for all socket-outlets of rating 32 A or less unless exempt (411.3.3)
 - 2 *for the supply of mobile equipment not exceeding 32 A rating for use outdoors (411.3.3)
 - 3 *for cables concealed in walls at a depth of less than 50 mm (522.6.202, 522.6.203)
 - 4 *for cables concealed in walls/partitions containing metal parts regardless of depth (522.6.203)
 - 5 *for final circuits supplying luminaires within domestic (household) premises (411.3.4)
- Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)
- Band II cables segregated/separated from Band I cables (528.1)
- Cables segregated/separated from non-electrical services (528.3)
- Termination of cables at enclosures – identify/record numbers and locations of items inspected (Section 526)
 - 1 Connections under no undue strain (526.6)
 - 2 No basic insulation of a conductor visible outside enclosure (526.8)
 - 3 Connections of live conductors adequately enclosed (526.5)
 - 4 Adequately connected at point of entry to enclosure (glands, bushes etc.) (522.8.5)
- Condition of accessories including socket-outlets, switches and joint boxes (651.2)
- Suitability of accessories for external influences (512.2)
- Single-pole switching or protective devices in line conductors only (132.14.1, 530.3.3)

***Note:** Older installations designed prior to KS 662:2025 may not have been provided with RCDs for additional protection.

ISOLATION AND SWITCHING

- Isolators (Sections 460; 537)
 - 1 Presence and condition of appropriate devices (Section 462; 537.2.7)
 - 2 Acceptable location – state if local or remote from equipment in question (Section 462; 537.2.7)
 - 3 Capable of being secured in the OFF position (462.3)
 - 4 Correct operation verified (643.10)
 - 5 Clearly identified by position and/or durable marking (537.2.6)
 - 6 Warning label posted in situations where live parts cannot be isolated by the operation of a single device (514.11.1; 537.1.2)
- Switching off for mechanical maintenance (Section 464; 537.3.2)
 - 1 Presence and condition of appropriate devices (464.1; 537.3.2)
 - 2 Acceptable location – state if local or remote from equipment in question (537.3.2.4)
 - 3 Capable of being secured in the OFF position (462.3)
 - 4 Correct operation verified (643.10)
 - 5 Clearly identified by position and/or durable marking (537.3.2.4))
- Emergency switching/stopping (Section 465; 537.3.3)
 - 1 Presence and condition of appropriate devices (Section 465; 537.3.3; 537.4)
 - 2 Readily accessible for operation where danger might occur (537.3.3.6)
 - 3 Correct operation verified (643.10)
 - 4 Clearly identified by position and/or durable marking (537.3.3.6)
- Functional switching (Section 463; 537.3.1)
 - 1 Presence and condition of appropriate devices (537.3.1.1; 537.3.1.2)
 - 2 Correct operation verified (537.3.1.1; 537.3.1.2)

CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)

- Condition of equipment in terms of IP rating etc (416.2)
- Equipment does not constitute a fire hazard (Section 421)
- Enclosure not damaged/deteriorated so as to impair safety (134.1.1; 416.2; 512.2)
- Suitability for the environment and external influences (512.2)
- Security of fixing (134.1.1)
- Cable entry holes in ceiling above luminaires, sized or sealed so as to restrict the spread of fire: List number and location of luminaires inspected (separate page) (527.2)
- Recessed luminaires (downlighters)
 - 1 Correct type of lamps fitted (559.3.1)
 - 2 Installed to minimise build-up of heat by use of "fire rated" fittings, insulation displacement box or similar (421.1.2)
 - 3 No signs of overheating to surrounding building fabric (559.4.1)
 - 4 No signs of overheating to conductors/terminations (526.1)

PART 7 SPECIAL INSTALLATIONS OR LOCATIONS

- If any special installations or locations are present, list the particular inspections applied.

CONDITION REPORT INSPECTION SCHEDULE FOR DOMESTIC AND SIMILAR PREMISES WITH UP TO 100 A SUPPLY

NOTE: *This form is suitable for many types of smaller installation, not exclusively domestic.*

OUTCOMES	Acceptable condition	✓	Unacceptable condition	State C1 or C2	Improvement recommended	State C3	Further investigation	FI	Not verified	N/V	Limitation	LIM	Not applicable	N/A
ITEM NO	DESCRIPTION												OUTCOME <i>(Use codes above. Provide additional comment where appropriate. C1, C2, C3 and FI coded items to be recorded in Section K of the Condition Report)</i>	
1.0	EXTERNAL CONDITION OF INTAKE EQUIPMENT (VISUAL INSPECTION ONLY)													
1.1	Service cable													
1.2	Service head													
1.3	Earthing arrangement													
1.4	Meter tails													
1.5	Metering equipment													
1.6	Isolator (where present)													
2.0	PRESENCE OF ADEQUATE ARRANGEMENTS FOR OTHER SOURCES SUCH AS MICROGENERATORS (551.6; 551.7)													
3.0	EARTHING / BONDING ARRANGEMENTS (411.3; Chap 54)													
3.1	Presence and condition of distributor's earthing arrangement (542.1.2.1; 542.1.2.2)													
3.2	Presence and condition of earth electrode connection where applicable (542.1.2.3)													
3.3	Provision of earthing/bonding labels at all appropriate locations (514.13.1)													
3.4	Confirmation of earthing conductor size (542.3; 543.1.1)													
3.5	Accessibility and condition of earthing conductor at MET (543.3.2)													
3.6	Confirmation of main protective bonding conductor sizes (544.1)													
3.7	Condition and accessibility of main protective bonding conductor connections (543.3.2; 544.1.2)													
3.8	Accessibility and condition of other protective bonding connections (543.3.1; 543.3.2)													
4.0	CONSUMER UNIT(S) / DISTRIBUTION BOARD(S)													
4.1	Adequacy of working space/accessibility to consumer unit/distribution board (132.12; 513.1)													
4.2	Security of fixing (134.1.1)													
4.3	Condition of enclosure(s) in terms of IP rating etc (416.2)													
4.4	Condition of enclosure(s) in terms of fire rating etc (421.1.201; 526.5)													
4.5	Enclosure not damaged/deteriorated so as to impair safety (651.2)													
4.6	Presence of main linked switch (as required by 462.1.201)													
4.7	Operation of main switch (functional check) (643.10)													
4.8	Manual operation of circuit-breakers and RCDs to prove disconnection (643.10)													
4.9	Correct identification of circuit details and protective devices (514.8.1; 514.9.1)													
4.10	Presence of RCD six-monthly test notice at or near consumer unit/distribution board (514.12.2)													
4.11	Presence of non-standard (mixed) cable colour warning notice at or near consumer unit/distribution board (514.14)													
4.12	Presence of alternative supply warning notice at or near consumer unit/distribution board (514.15)													
4.13	Presence of other required labelling (please specify) (Section 514)													
4.14	Compatibility of protective devices, bases and other components; correct type and rating (No signs of unacceptable thermal damage, arcing or overheating) (411.3.2; 411.4; 411.5; 411.6; Sections 432, 433)													
4.15	Single-pole switching or protective devices in line conductor only (132.14.1; 530.3.3)													
4.16	Protection against mechanical damage where cables enter consumer unit/distribution board (132.14.1; 522.8.1; 522.8.5; 522.8.11)													
4.17	Protection against electromagnetic effects where cables enter consumer unit/distribution board/enclosures (521.5.1)													
4.18	RCD(s) provided for fault protection - includes RCBOs (411.4.204; 411.5.2; 531.2)													
4.19	RCD(s) provided for additional protection/requirements - includes RCBOs (411.3.3; 415.1)													
4.20	Confirmation of indication that SPD is functional (651.4)													
4.21	Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure (526.1)													
4.22	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)													

4.23	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)	
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OUTCOMES	Acceptable condition	✓	Unacceptable condition	State C1 or C2	Improvement recommended	State C3	Further investigation	FI	Not verified	N/V	Limitation	LIM	Not applicable	N/A
ITEM NO	DESCRIPTION								OUTCOME (Use codes above. Provide additional comment where appropriate. C1, C2, C3 and FI coded items to be recorded in Section K of the Condition Report)					

5.0	FINAL CIRCUITS													
5.1	Identification of conductors (514.3.1)													
5.2	Cables correctly supported throughout their run (521.10.202; 522.8.5)													
5.3	Condition of insulation of live parts (416.1)													
5.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1)													
	<ul style="list-style-type: none"> To include the integrity of conduit and trunking systems (metallic and plastic) 													
5.5	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)													
5.6	Coordination between conductors and overload protective devices (433.1; 533.2.1)													
5.7	Adequacy of protective devices: type and rated current for fault protection (411.3)													
5.8	Presence and adequacy of circuit protective conductors (411.3.1; Section 543)													
5.9	Wiring system(s) appropriate for the type and nature of the installation and external influences (Section 522)													
5.10	Concealed cables installed in prescribed zones (see Section D. <i>Extent and limitations</i>) (522.6.202)													
5.11	Cables concealed under floors, above ceilings or in walls/partitions, adequately protected against damage (see Section D. <i>Extent and limitations</i>) (522.6.204)													
5.12	Provision of additional requirements for protection by RCD not exceeding 30 mA:													
	<ul style="list-style-type: none"> for all socket-outlets of rating 32 A or less, unless an exception is permitted (411.3.3) 													
	<ul style="list-style-type: none"> for the supply of mobile equipment not exceeding 32 A rating for use outdoors (411.3.3) 													
	<ul style="list-style-type: none"> for cables concealed in walls at a depth of less than 50 mm (522.6.202; 522.6.203) 													
	<ul style="list-style-type: none"> for cables concealed in walls/partitions containing metal parts regardless of depth (522.6.203) 													
	<ul style="list-style-type: none"> Final circuits supplying luminaires within domestic (household) premises (411.3.4) 													
5.13	Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)													
5.14	Band II cables segregated/separated from Band I cables (528.1)													
5.15	Cables segregated/separated from communications cabling (528.2)													
5.16	Cables segregated/separated from non-electrical services (528.3)													
5.17	Termination of cables at enclosures - indicate extent of sampling in Section D of the report (Section 526)													
	<ul style="list-style-type: none"> Connections soundly made and under no undue strain (526.6) 													
	<ul style="list-style-type: none"> No basic insulation of a conductor visible outside enclosure (526.8) 													
	<ul style="list-style-type: none"> Connections of live conductors adequately enclosed (526.5) 													
	<ul style="list-style-type: none"> Adequately connected at point of entry to enclosure (glands, bushes etc.) (522.8.5) 													
5.18	Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))													
5.19	Suitability of accessories for external influences (512.2)													
5.20	Adequacy of working space/accessibility to equipment (132.12; 513.1)													
5.21	Single-pole switching or protective devices in line conductors only (132.14.1, 530.3.3)													

6.0	LOCATION(S) CONTAINING A BATH OR SHOWER													
6.1	Additional protection for all low voltage (LV) circuits by RCD not exceeding 30 mA (701.411.3.3)													
6.2	Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5)													
6.3	Shaver sockets comply with IEC 61558-2-5													
6.4	Presence of supplementary bonding conductors, unless not required by KS 662:2025 (701.415.2)													
6.5	Low voltage (e.g. 230 volt) socket-outlets sited at least 3 m from zone 1 (701.512.3)													
6.6	Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2)													
6.7	Suitability of accessories and controlgear etc. for a particular zone (701.512.3)													
6.8	Suitability of current-using equipment for particular position within the location (701.55)													

7.0	OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS													
7.1	List all other special installations or locations present, if any. (Record separately the results of particular inspections applied.)													

Inspected by:

Name (Capitals)

Signature

Date

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