

Technical drawings — Scales

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies recommended scales and their designation for use on all technical drawings in any field of engineering.

2 DEFINITIONS

2.1 scale: Ratio of the linear dimension of an element of an object as represented in the original drawing to the real linear dimension of the same element of the object itself.

NOTE — The scale of a print may be different from that of the original drawing.

2.2 full size: A scale with the ratio 1 : 1.

2.3 enlargement scale: A scale where the ratio is larger than 1 : 1. It is said to be larger as its ratio increases.

2.4 reduction scale: A scale where the ratio is smaller than 1 : 1. It is said to be smaller as its ratio decreases.

3 DESIGNATION

The complete designation of a scale shall consist of the word "SCALE" (or its equivalent in the language used on the drawing) followed by the indication of its ratio, as follows:

- SCALE 1 : 1 for full size;
- SCALE X : 1 for enlargement scales;
- SCALE 1 : X for reduction scales.

If there is no likelihood of misunderstanding, the word "SCALE" may be omitted.

4 INSCRIPTION

4.1 The designation of the scale used on the drawing shall be inscribed in the title block of the drawing.

4.2 Where it is necessary to use more than one scale on a drawing, the main scale only shall be inscribed in the title block, and all other scales adjacent to the item reference number of the part concerned, or adjacent to the reference letter of a detail view (or section).

5 SCALES

5.1 The recommended scales for use on technical drawings are specified in the following table.

Category	Recommended scales		
Enlargement scales	50 : 1 5 : 1	20 : 1 2 : 1	10 : 1
Full size	1 : 1		
Reduction scales	1 : 2 1 : 20 1 : 500 1 : 2 000	1 : 5 1 : 50 1 : 500 1 : 5 000	1 : 10 1 : 100 1 : 1 000 1 : 10 000

NOTE — If, for special applications, there is need for a larger enlargement scale or a smaller reduction scale than those shown in the table, the recommended range of scales may be extended in either direction, provided that the required scale be derived from a recommended scale by multiplying by whole number powers of 10. In exceptional cases where for functional reasons the recommended scales cannot be applied, intermediate scales may be chosen.

5.2 The scale to be chosen for a drawing will depend upon the complexity of the object to be depicted and the purpose of the representation.

In all cases, the selected scale shall be large enough to permit easy and clear interpretation of the information depicted.

The scale and the size of the object, in turn, will decide the size of the drawing.

5.3 Details that are too small for complete dimensioning in the main representation shall be shown adjacent to the main representation in a separate detail view (or section) which is drawn to a larger scale.

6 LARGE SCALE DRAWINGS

It is recommended that, for information, a full size view be added to the large scale representation of a small object.

In this case the full size view may be simplified by showing the outlines of the object only.

Iso Standard Drawing Scales

WJ Hussar

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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web note allowable ampacities are for general use as specified by canadian electrical code 2002 table 2 based on not more than 3 copper or aluminum conductors in raceway or cable

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web may 11 2023 table 57 referenced by rule 16 210 6 and table 5a provides allowable ampacities for class 2 copper conductors based on the size of the conductor and whether it is a single conductor in free air or not more than three copper conductors in raceway or cable and an ambient temperature of 30 degrees centigrade

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web table 1 and 3 ampacities for 2 to 4 single conductors table 5b tables 2 and 4 for more than 3 insulated conductors table 5c for vertical layers of insulated conductors in ventilated ladder type trays

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web may 1 2020 although as per 90 c column of table 2 the ampacity of such no 3 awg conductor is 115 a in accordance with provisions of rule 4 006 the ampacity of this conductor would be assigned based on 75 c column of

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web table 2 b maximum amperage for common wire sizes per canadian electrical code cec canada copper wire aluminum or copper size clad aluminum temperature 60 c 75 c 90 c 60 c 75 c 85 90 c rating 15 15 15 14 20 20 20 12 15 15 15 30 30 30 10 25 25 25 40 45 45 8 30 30 30 55 65 65 6 40 50 55 70 85 4 55 65

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web mar 14 2017 rule 4 004 ampacity of wires and cables contains 7 items each in subrules 1 and 2 covering scenario options each for copper and aluminum that need to be studied and chosen in addition there are 21 other factors in

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