

English Version

**Measuring relays and protection equipment - Part 187-1:
Functional requirements for differential protection - Restrained
and unrestrained differential protection of motors, generators
and transformers
(IEC 60255-187-1:2021/COR1:2023)**

Relais de mesure et dispositifs de protection - Partie 187-1:
Exigences fonctionnelles pour la protection différentielle -
Protection différentielle avec et sans caractéristique de
retenue des moteurs, générateurs et transformateurs
(IEC 60255-187-1:2021/COR1:2023)

Messrelais und Schutzeinrichtungen - Teil 187-1:
Funktionsanforderungen für den stabilisierten und nicht
stabilisierten Differentialschutz von Motoren, Generatoren
und Transformatoren
(IEC 60255-187-1:2021/COR1:2023)

This corrigendum becomes effective on 28 April 2023 for incorporation in the English language version of the EN.



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

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Endorsement notice

The text of the corrigendum IEC 60255-187-1:2021/COR1:2023 was approved by CENELEC as EN IEC 60255-187-1:2021/AC:2023-04 without any modification.

INTERNATIONAL ELECTROTECHNICAL COMMISSION
COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

IEC 60255-187-1
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**MEASURING RELAYS AND PROTECTION
EQUIPMENT –**

**Part 187-1: Functional requirements for
differential protection – Restrained and
unrestrained differential protection of motors,
generators and transformers**

**RELAIS DE MESURE ET DISPOSITIFS DE
PROTECTION –**

**Partie 187-1: Exigences fonctionnelles pour
la protection différentielle – Protection
différentielle avec et sans caractéristique de
retenue des moteurs, générateurs et
transformateurs**

CORRIGENDUM 1

Corrections to the French version appear after the English text.

Les corrections à la version française sont données après le texte anglais.

Table 18 – Double infeed network model

Replace, in the existing footnote c, in the first dashed list item, the words "zero winding losses (zero resistance and leakage reactance)" with "zero winding joule losses and leakage reactances".

Table 20 – Double infeed network model

Replace, in the existing footnote c, in the first dashed list item, the words "zero winding losses (zero resistance and leakage reactances)" with "zero winding joule losses and leakage reactances".

6.4.4.2 Application specific considerations: transformer differential

Replace, in the existing bulleted list item preceding Figure 30, in the second paragraph, the words "between sources A and B" with "of source A".

6.4.4.3 Application specific considerations: generator differential

Replace, in the existing bulleted list item preceding Figure 32, in the second paragraph, the words "between sources A and B" with "of source A".

6.4.4.4 Application specific considerations: motor differential

Replace, in the existing bulleted list item preceding Figure 34, in the second paragraph, the words "between sources A and B" with "of source A".

6.4.5.2 Application specific considerations: transformer differential

Replace, in the existing bulleted list item preceding Figure 35, in the second paragraph, the words "between sources A and B" with "of source A".

6.4.7.2 Application specific considerations: transformer differential

Replace, in the existing bulleted list item preceding Figure 40, in the second sentence of the second paragraph, number "2 560" with "2 048".

Table 43 – Double infeed network model

Replace, in the existing footnote c, the second dashed list item with the following item:

- infinite magnetizing impedance.

Add, in the existing footnote c, after the existing dashed list, the following new paragraph:

The zero-sequence impedance is modelled with the neutral-to-ground impedance Z_N .

Table 51 – Double infeed network model

Delete, in the existing footnote c, the last dashed list item.

Add, in the existing footnote c, after the dashed list, the following new paragraph:

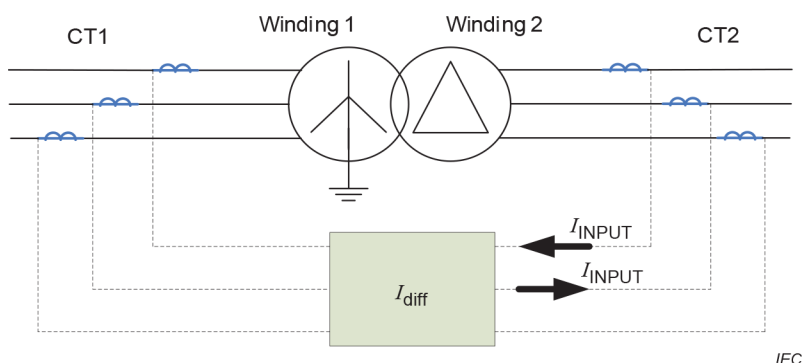
The zero-sequence impedance is modelled with the neutral-to-ground impedance Z_N .

6.8.3.1 General

Replace, in the existing paragraph following Table 67, the words "Formulae (17) to (22)" with "Formulae (16) to (21)".

Figure A.7 – Phase-phase injection at delta side

Replace the existing Figure A.7 with the following new figure:



E.3.3 Dimensioning of CT2

Replace, in the existing paragraph immediately after the last formula, the word "CT1" with "CT2".