

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

HORIZONTAL STANDARD  
NORME HORIZONTALE

**IEC standard current ratings**

**Caractéristiques des courants normaux de la CEI**

IEC 60059:1999

<https://standards.iteh.ai/catalog/standards/iec/cc309873-ade4-4027-85ed-31f4b5601751/iec-60059-1999>





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CONSOLIDATED VERSION

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# INTERNATIONAL ELECTROTECHNICAL COMMISSION

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## IEC STANDARD CURRENT RATINGS

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**IEC 60059 edition 2.1 contains the second edition (1999-06) [documents 8/1174/FDIS and 8/1176/RVD] and its amendment 1 (2009-06) [documents 8/1261/FDIS and 8/1265/RVD].**

**A vertical line in the margin shows where the base publication has been modified by amendment 1.**

International Standard IEC 60059 has been prepared by IEC technical committee 8: Standard voltages, current ratings and frequencies.

It has the status of a horizontal standard in accordance with IEC Guide 108.

The committee has decided that the contents of the base publication and its amendments will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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## IEC STANDARD CURRENT RATINGS

### 1 Scope

This standard specifies standard current ratings for electrical devices, apparatus, instruments and equipment.

This standard does not apply to current ratings of components and parts used within electrical devices or items of equipment.

### 2 Normative reference

The following normative documents contain provisions which, through reference in this text, constitute provisions of IEC 60059. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on IEC 60059 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3:1973, *Preferred numbers – Series of preferred numbers*

### 3 Ratings

The chosen values are compliant with the R10 series specified in ISO 3.

For any type of equipment, the current ratings should be selected among the values in the following table. These values should be applied to the design of utilization systems or equipment as well as to operating characteristics.

Standard current ratings									
A									
1	1,25	1,6	2	2,5	3,15	4	5	6,3	8
10	12,5	16	20	25	31,5	40	50	63	80
100	125	160	200	250	315	400	500	630	800
1000	1 250	1 600	2 000	2 500	3 150	4 000	5 000	6 300	8 000
10000	12 500	16 000	20 000	25 000	31 500	40 000	50 000	63 000	80 000
100000	125 000	160 000	200 000						

The steps may vary according to the equipment concerned, depending on their use or properties. The selection of the values to be adopted should be considered in each case on its merits and it may be found that there are good grounds for choosing 1,5 – 3 – 6 – 7,5 instead of 1,6 – 3,15 – 6,3 – 8, as well as their multiples of 10<sup>n</sup> (n is a positive integer).