

AS/NZS 60079.15:2011  
IEC 60079-15 Ed. 4.0 (2010)

AS/NZS 60079.15:2011

Australian/New Zealand Standard™

**Explosive atmospheres**

**Part 15: Equipment protection by type  
of protection ‘n’**



## **AS/NZS 60079.15:2011**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-014, Explosive Atmospheres. It was approved on behalf of the Council of Standards Australia on 1 August 2011 and on behalf of the Council of Standards New Zealand on 21 July 2011.

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*This Standard was issued in draft form for comment as DR AS/NZS 60079.15.*

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AS/NZS 60079.15:2011

# Australian/New Zealand Standard™

## Explosive atmospheres

### Part 15: Equipment protection by type of protection 'n'

Originated in Australia as AS 2238—1979.  
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## PREFACE

This Standard was prepared by Joint Standards Australia/Standards New Zealand Committee EL-014, Explosive Atmospheres to supersede AS/NZS 60079.15:2006, *Electrical apparatus for explosive gas atmospheres*, Part 15: *Construction, test and marking of type of protection, 'n' electrical apparatus*.

The objective of this Standard is to establish the specific requirements for construction, testing and marking for Group II electrical equipment with type of protection, 'n' intended for use in explosive gas atmospheres. It is intended to be read in conjunction with AS/NZS 60079.0.

The objective of this revision is to adopt the current edition of IEC 60079-15.

This Standard is identical with, and has been reproduced from IEC 60079-15 Ed. 4.0 (2010), *Explosive atmospheres*, Part 15: *Equipment protection by type of protection 'n'*.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number appears on the cover and title page while the International Standard number appears only on the cover.
- (b) In the source text 'this part of IEC 60079' should read 'this part of AS/NZS 60079'.
- (c) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

| <i>Reference to International Standard</i> |  | <i>Australian/New Zealand Standard</i> |  |
|--|--|--|--|
| IEC  |  | AS                                     |  |
| 60034                                      | Rotating electrical machines   | 60034                                  | Rotating electrical machines   |
| 60034-1                                    | Part 1: Rating and performance   | 60034.1                                | Part 1: Rating and performance   |
| 60068                                      | Environmental testing  | 60068                                  | Environmental testing  |
| 60068-2-27                                 | Part 2-27: Tests—Test Ea and guidance: Shock   | 60068.2.27                             | Part 2.27: Tests—Test Ea and guidance: Shock   |
|  |  | AS/NZS                                 |  |
| 60079                                      | Explosive atmospheres  | 60079                                  | Explosive atmospheres  |
| 60079-0                                    | Part 0: Equipment—General requirements   | 60079.0                                | Part 0: Equipment—General requirements   |
| 60079-1                                    | Part 1: Equipment protection by flameproof enclosures 'd'  | 60079.1                                | Part 1: Equipment protection by flameproof enclosures 'd'  |
| 60079-11                                   | Part 11: Equipment protection by intrinsic safety 'i'  | 60079.11                               | Part 11: Equipment protection by intrinsic safety 'i'  |
| 60112                                      | Method for the determination of the proof and the comparative tracking indices of solid insulating materials   | 60112                                  | Method for the determination of the proof and the comparative tracking indices of solid insulating materials   |
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| 60238                                      | Edison screw lampholders   | 60238                                  | Edison screw lampholders   |
| 60269                                      | Low-voltage fuses  | 60269                                  | Low-voltage fuses  |
| 60269-3                                    | Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications)—Examples of standardized systems of fuses A to F | 60269.3                                | Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications)—Examples of standardized systems of fuses A to F |
| 60529                                      | Degrees of protection provided by enclosures (IP Code)   | 60529                                  | Degrees of protection provided by enclosures (IP Code)   |

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| 60947     | Low-voltage switchgear and controlgear  | 60947     | Low-voltage switchgear and controlgear  |
| 60947-7-1 | Part 7-1: Ancillary equipment—Terminal blocks for copper conductors   | 60947.7.1 | Part 7.1: Ancillary equipment—Terminal blocks for copper conductors   |
| 60947-7-2 | Part 7-2: Ancillary equipment—Protective conductor terminal blocks for copper conductors  | 60947.7.2 | Part 7.2: Ancillary equipment—Protective conductor terminal blocks for copper conductors  |
| 60998     | Connecting devices for low-voltage circuits for household and similar purposes  | 60998     | Connecting devices for low-voltage circuits for household and similar purposes  |
| 60998-2-4 | Part 2-4: Particular requirements for twist-on connecting devices   | 60998.2.4 | Part 2.4: Particular requirements for twist-on connecting devices   |
| 60999     | Connecting devices—Electrical copper conductors—Safety requirements for screw-type and screwless-type clamping units                                    | 60999     | Connecting devices—Electrical copper conductors—Safety requirements for screw-type and screwless-type clamping units                                    |
| 60999-1   | Part 1: General requirements and particular requirements for clamping units for conductors from 0.2 mm <sup>2</sup> up to 35 mm <sup>2</sup> (included) | 60999.1   | Part 1: General requirements and particular requirements for clamping units for conductors from 0.2 mm <sup>2</sup> up to 35 mm <sup>2</sup> (included) |
| 61048     | Auxiliaries for lamps – Capacitors for use in tubular fluorescent and other discharge lamp circuits – General and safety requirements                   | 61048     | Auxiliaries for lamps – Capacitors for use in tubular fluorescent and other discharge lamp circuits – General and safety requirements                   |
| 61184     | Bayonet lampholders   | 61184     | Bayonet lampholders   |
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| 61347-2-1 | Part 2-1: Particular requirements for starting devices (other than glow starters)   | 61347.2.1 | Part 2.1: Particular requirements for starting devices (other than glow starters)   |

Only international references that have been adopted as Australian or Australian/New Zealand Standards have been listed.

It should be noted that many other parts of IEC 60079 and IEC 61241 are now published as identically-numbered parts of AS/NZS 60079 and AS/NZS 61241 respectively. The latter should be referenced when necessary.

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