

Australian Standard[®]

**Adjustable speed electrical power drive
systems**

**Part 5.2: Safety requirements—
Functional**



This Australian Standard® was prepared by Committee EL-027, Power Electronics. It was approved on behalf of the Council of Standards Australia on 4 February 2013. This Standard was published on 27 February 2013.

The following are represented on Committee EL-027:

- Australian Communications and Media Authority
 - Australian Industry Group
 - Bureau of Steel Manufacturers of Australia
 - Engineers Australia
 - RMIT University
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PREFACE

This Standard was prepared by the Standards Australia Committee EL-027, Power Electronics.

The objective of this Standard is to specify requirements and make recommendations for the design and development, integration and validation of power drive systems that are suitable for use in safety-related applications {PDS(SR)} in terms of their functional safety considerations.

This Standard is identical with, and has been reproduced from IEC 61800-5-2, Ed.1.0 (2007), *Adjustable speed electrical power drive systems—Safety requirements—Functional*.

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 61800’ should read ‘this part of AS 61800’.
- (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 Standard</i> | |
|--|---|----------------------------|---|
| IEC | | AS | |
| 60204 | Safety of machinery—Electrical equipment of machines | 60204 | Safety of machinery—Electrical equipment of machines |
| 60204-1 | Part 1: General requirements | 60204.1 | Part 1: General requirements (IEC 60204-1, Ed. 5 (FDIS) MOD) |
| 61508 | Functional safety of electrical/electronic/programmable electronic safety-related systems | 61508 | Functional safety of electrical/electronic/programmable electronic safety-related systems |
| 61508-5 | Part 5: Examples of methods for the determination of safety integrity levels | 61508.5 | Part 5: Examples of methods for the determination of safety integrity levels |
| 61800 | Adjustable speed electrical power drive systems | 61800 | Adjustable speed electrical power drive systems |
| 61800-1 | Part 1: General requirements—Rating specifications for low voltage adjustable speed d.c. power drive systems | 61800.1 | Part 1: General requirements—Rating specifications for low voltage adjustable speed d.c. power drive systems |
| 61800-2 | Part 2: General requirements—Rating specifications for low voltage adjustable frequency a.c. power drive systems | 61800.2 | Part 2: General requirements—Rating specifications for low voltage adjustable frequency a.c. power drive systems |
| 61800-3 | Part 3: EMC requirements and specific test methods | 61800.3 | Part 3: EMC requirements and specific test methods |
| 61800-4 | Part 4: General requirements—Rating specifications for a.c. power drive systems above 1000 V a.c. and not exceeding 35 kV | 61800.4 | Part 4: General requirements—Rating specifications for a.c. power drive systems above 1000 V a.c. and not exceeding 35 kV |
| 61800-5-1 | Part 5-1: Safety requirements—Electrical, thermal and energy | 61800.5.1 | Part 5.1: Safety requirements—Electrical, thermal and energy |

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

The term ‘informative’ has been used in this Standard to define the application of the annex to which it applies. An ‘informative’ annex is only for information and guidance.

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