

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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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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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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