AS IEC 61800.5.1—2013 IEC 61800-5-1, Ed.2.0 (2007) IEC 61800-5-1:2007/AMD1:2016 (Incorporating Amendment No. 1)





Adjustable speed electrical power drive systems

Part 5.1: Safety requirements—Electrical, thermal and energy



AS IEC 61800.5.1-2013

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Preface

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

This Standard incorporates Amendment No. 1 (March 2022). The start and end of changes introduced by the Amendment are indicated in the text by tags including the Amendment number 1. 🔄

Amendment No. 1 to this Standard was prepared by the Standards Australia Committee EL-027, Power Electronics.

The objective of this Standard is to specify requirements for adjustable speed power drive systems, or their elements, with respect to electrical, thermal and energy safety considerations. Unless specifically stated, the requirements of this Standard apply to all parts of the Power Drive Systems (PDS), including the complete drive module (CDM)/ basic drive module (BDM).

This Standard is identical with, and has been reproduced from, IEC 61800-5-1, Ed.2.0 (2007), Adjustable speed electrical power drive systems – Part 5-1: Safety requirements – Electrical, thermal and energy and its Amendment No. 1 (2016) which has been added at the end of the source text.

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	IEC		AS		
	60034 (all parts)	Rotating electrical machines	60034 (all parts)	Rotating electrical machines	
	60034-1	Part 1: Rating and performance	60034.1	Part 1: Rating and performance	
	60034-5	Part 5: Degrees of protection provided by the integral design of rotating electrical machines (IP code)—Classification	60034.5	Part 5: Degrees of protection provided by the integral design of rotating electrical machines (IP code)—Classification	
	60068	Environmental testing	60068	Environmental testing	
	60068-2-6	Part 2-6: Tests—Test Fc: Vibration (sinusoidal)	60068.2.6	Part 2.6: Tests—Test Fc: Vibration (sinusoidal)	
	60068-2-78	Part 2-78: Tests—Test Cab: Damp heat, steady state	60068.2.78	Part 2.78: Tests—Test Cab: Damp heat, steady state	
	60204	Safety of machinery—Electrical equipment of machines	60204	Safety of machinery—Electrical equipment of machines	

60204-11	Part 11: Requirements for HV equipment for voltages above 1000 V a.c or 1500 V d.c and not exceeding 36 kV	60204.11	Part 11: Requirements for HV equipment for voltages above 1000 V a.c or 1500 V d.c and not exceeding 36 kV (IEC 60204-11, Ed. 1.0 (2000) MOD)
60417	Graphical symbols for use on equipment	60417	Graphical symbols for use on equipment
		AS/NZS	
60695	Fire hazard testing	60695	Fire hazard testing
60695-2-10	Part 2-10: Glowing/hot-wire based test methods—Glowwire apparatus and common test procedure	60695.2.10	Part 2.10: Glowing/hot-wire based test methods—Glowwire apparatus and common test procedure
60695-2-13	Part 2-13: Glowing/hot-wire based test methods—Glowwire ignitability test method for materials	60695.2.13	Part 2.13: Glowing/hot-wire based test methods—Glowwire ignitability test method for materials
60695-11-10	Part 11-10: Test flames—50 W horizontal and vertical flame test methods	60695.11.10	Part 11.10: Test flames—50 W horizontal and vertical flame test methods
60695-11-20	Part 11-20: Test flames—500 W flame test methods	60695.11.20	Part 11.20: Test flames—500 W flame test methods
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60947	Low-voltage switchgear and controlgear	60947	Low-voltage switchgear and controlgear
60947-7-1: 2002	Part 7-1: Ancillary equipment— Terminal blocks for copper conductors	60947.7.1: 2004	Part 7.1: Ancillary equipment— Terminal blocks for copper conductors
60947-7-2: 2002	Part 7-2: Ancillary equipment— Protective conductor terminal blocks for copper conductors	60947.7.2: 2002	Part 7.2: Ancillary equipment— Protective conductor terminal blocks for copper conductors
		AS/NZS	
60990:1999	Methods of measurement of touch current and protective conductor current	60990:2002	Methods of measurement of touch current and protective conductor current
		AS	
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. powe drive systems	61800.1 r	Part 1: General requirements— Rating specifications for low voltage adjustable speed d.c. power drive systems



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