

SABS EMC/CoC Product Guideline

Standards and products under scope

Marketing Communications DD and Events

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Electrical Components that Emit Noise



Electronic equipment which contain the following components have electromagnetic emissions and therefore must receive Conformance Assessment.

- 1) Electronic Circuit Board If a product, including the IC (Integrated Circuit), uses DC to control the product, electromagnetic waves are generated. DC products also emit noise, therefore it requires conformance assessment.
- 2) **Motor** A motor that uses an Electrical Motor Coil generates electromagnetic waves while operating. Any kind of motor generates electromagnetic waves.
- 3) **Driver/Rectifier** Simple lighting (Bulb) do not generate electromagnetic waves, however if it uses a driver or a rectifier to operate it, it generates noise, therefore it requires conformance assessment.
- 4) Commutator Motor If a product has a Commutator Motor, it generates noise, therefore it requires conformance assessment.
- 5) Oscillator Clock If a product has a Oscillator Clock, it generates noise, therefore it requires conformance assessment







Classification of equipment	Emission Standard	Immunity Standard
Industrial, Scientific and Medical (ISM) equipment, excluding telecommunications equipment operating	SANS 211 (CISPR 11)	SANS 224 (CISPR 24)
in the ISM bands mandated by ITU-R		





Equipment



PID Conductor



Infusion Pumps



Panel Meters



Frequency converters



Desktop Computer



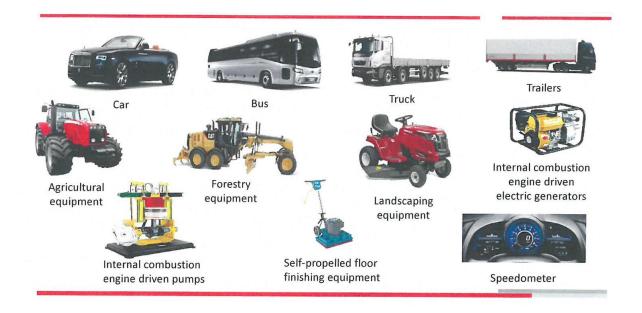
Electric Welding Machine



Industrial microwave



Classification of equipment	Emission Standard	Immunity Standard
Vehicles, boats and internal combustion engine driven	SANS 212	None
devices	(CISPR 12)	



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Classification of equipment	Emission Standard	Immunity Standard
Sound and television broadcast receivers and	SANS 213 / SANS 2332	SANS 2200 / SANS 2335
associated equipment, terrestrial and/or satellite	(CISPR 13) / (CISPR 32)	(CISPR 20) / (CISPR 35)







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Classification of equipment	Emission Standard	Immunity Standard
Household appliances, electric tools and similar apparatus	SANS 214-1 (CISPR 14-1)	SANS 14-2 (CISPR 14-2)













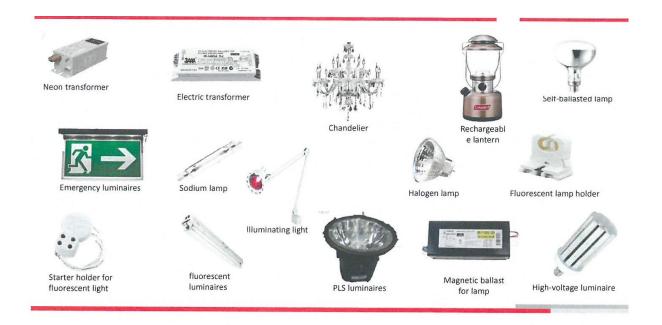








Classification of equipment	Emission Standard	Immunity Standard
Electrical lighting and similar equipment	SANS 215	SANS 61547
	(CISPR 15)	(IEC 61547)





Classification of equipment	Emission Standard	Immunity Standard
Information Technology Equipment (ITE)	SANS 222 / SANS 2332	SANS 224 / SANS 2335
	(CISPR22) / (CISPR 32)	(CISPR 24) / (CISPR 35)







Classification of equipment	Emission Standard	Immunity Standard
Alarm systemsfire, intruder and social	SANS 222	EN 50130-4
alarm systems	(CISPR 22)	









Smoke Detector

Fire Alarm



Classification of equipment	Emission Standard	Immunity Standard
Alternating-current watt-hour meters Class 0,5, 1	SANS 222	SANS 224
and 2	(CISPR 22)	(CISPR 24)
	(Contained in	, ,
	SABS 1524)	



Kwh meter

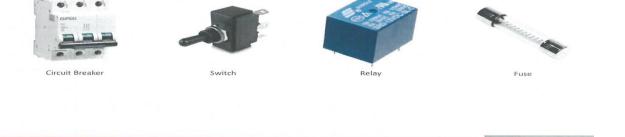


Classification of equipment	Emission Standard	Immunity Standard
Low-voltage switchgear and controlgear	SANS 60439-1	SANS 60439-2
assemblies -	(IEC 60439-1)	(IEC 60439-2)
Part 1: Type-tested and partially type-tested		
assemblies		



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Classification of equipment	Emission Standard	Immunity Standard
Low voltage power supplies, d.c. output	SANS 61204-3	SANS 61204-3
	(IEC 61204-3)	(IEC 61204-3)





Classification of equipment	Emission Standard	Immunity Standard
Electrical equipment for measurement, control and	SANS 61326	SANS 61326
laboratory use	(IEC 61326)	(IEC 61326)



Oscilloscope



field strength meter



Spectrum analyzers



network analyzers



Portable car diagnostic



Classification of equipment	Emission Standard	Immunity Standard
Adjustable speed electrical power drive systems	SANS 61800-3 (IEC 61800-3)	SANS 61800-3 (IEC 61800-3)





Classification of equipment	Emission Standard	Immunity Standard
Uninterruptible power systems (UPS)	SANS 62040-2 (IEC 62040-2)	SANS 62040-2 (IEC 62040-2)

