

SABS EMC/CoC Product Guideline

Standards and products under scope

Electrical Components that Emit Noise



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

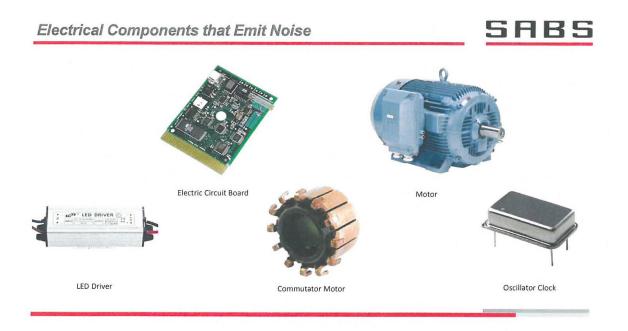
1) Electronic Circuit Board – If a product, including the IC (Integrated Circuit), uses DC to control the product, electromagnetic waves are generated. DC products also emit noise, therefore it requires conformance assessment.

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 in the ISM bands mandated by ITU-R	SANS 211 (CISPR 11)	SANS 224 (CISPR 24)





Machine Tool Equipment



Desktop Computer



Electric Welding Machine



Panel Meters



Frequency converters



Industrial microwave

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



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)





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





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Electric radiator

Electric fan heater

de

Thermal storage

room heater

Sewing machine

for household

Electric

medicine maker

Pump

Electric Pump







Electric taper

Electric reciprocating saw -Electric steel scissors

Electric hammer

Electric drill

1 Other Power tools

including trimmer

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 (CISPR22) / (CISPR 32)	SANS 224 / SANS 2335 (CISPR 24) / (CISPR 35)



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





Smoke Detector



Fire Alarm

SABS

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		



Temperature Regulator

Circuit Breaker

Dimmer



Electronic Switch

Timer and Time Switch

a shared and



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	SANS 61800-3
	(IEC 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)

