

# HOUSEHOLD APPLIANCES ELECTRIC TOOLS AND SIMILAR APPARATUS EN55014-1:2001

EMISSIONS EN55014 : 2001				
	Port	Frequency Range	Limits	Basic Standard
Radiated Emissions	Enclosure	30 MHz— 230 MHz 230 MHz— 1 GHz	30 dBuV/m ( 10m Measurement distance Class B / Class A) 37 dBuV/m	CISPR 22  Note: for products with clk > 9kHz
Conducted Emissions	Signal ,Control, DC power ports	0.15 MHz - 0.5 MHz 0.5 MHz - 30 MHz	40 - 30 dBuA QP      30 - 20 dBuA Av 30 dBuA QP            20 dBuA Av	
Conducted Emissions	Mains Terminals of Tools	0.15 MHz— 0.35 MHz 0.35 MHz— 5 MHz 5 MHz— 30 MHz	66 - 59 dBuV QP / 59 - 49 dBuV Average      >700W 59 dBuV QP / 49 dBuV Average 64 dBuV QP / 54 dBuV Average	
		0.15 MHz— 0.35 MHz 0.35 MHz— 5 MHz 5 MHz— 30 MHz	70 - 63 dBuV QP / 63 - 53 dBuV Average      700W > 1000W 63 dBuV QP / 53 dBuV Average 68 dBuV QP / 58 dBuV Average	
		0.15 MHz— 0.35 MHz 0.35 MHz— 5 MHz 5 MHz— 30 MHz	79 - 69 dBuV QP / 69 - 59 dBuV Average      < 1000W 69 dBuV QP / 59 dBuV Average 74 dBuV QP / 54 dBuV Average	
Conducted Emissions	At Load Terminals And Additional Terminals	0.15 MHz— 0.5 MHz 0.5 MHz— 5 MHz 5 MHz— 30 MHz	80 dBuV QP / 70 dBuV Average 74 dBuV QP / 64 dBuV Average 74 dBuV QP / 64 dBuV Average	
Disturbance Power	All Terminals	30 MHz—300 MHz	Household and similar appliances (45—55 pW QP 35—45 pW Av) Tools <700W (45—55 pW QP 35—45 pW Av) Tools 700W > 1000 (49—59 pW QP 39—49 pW Av) Tools >1000W (55—65 pW QP 45—55 pW Av)	
Discontinuous Disturbance	Mains Terminal	148.5 kHz—30 MHz	Limit = 44dB for N<0.2 or 20 lg (30/N)dB for 0.2<N>30	
Conducted Emissions	AC Mains Power Ports	0.15 MHz— 0.5 MHz 0.5 MHz— 5 MHz 5 MHz— 30 MHz	66 - 56 dBuV QP / 59 - 46 dBuV Average 56 dBuV QP / 46 dBuV Average 60 dBuV QP / 50 dBuV Average	
Mains Harmonics		0 - 2 kHz	EN61000-3-2	
Flicker			EN61000-3-3	
Inrush Current			EN61000-3-3	

# HOUSEHOLD APPLIANCES ELECTRIC TOOLS AND SIMILAR APPARATUS EN55014-2:1997

IMMUNITY EN55014 : 1997					
Item	Port	Phenomenon	Basic Standard	Test Value	Notes
1	Enclosure	Electrostatic discharge (ESD) EM Radiated Field  Magnetic Field	EN61000-4-2 EN61000-4-3  EN61000-4-11	4 kV / 8 kV contact / air 3 V/m (80 MHz—1 GHz 1 KHz AM )  1 A/m	
2	AC Power	Fast Transient Burst Surge  Conducted RF 0.15 kHz— 80 / 230 MHz Voltage Dips Voltage Interruptions	EN61000-4-4 EN61000-4-5  EN61000-4-6 EN61000-4-11 EN61000-4-11	1.0 kV 2.0 kV Line to Earth ( 5 SURGES X 3) 1.0 kV Line to Line 3 V rms 1 kHz 80% AM modulation 30% for 500ms, 60% for 200 ms 100% for 10 ms	
3	DC Power	Fast Transient Burst  Conducted RF 0.15 kHz— 80 / 230 MHz	EN61000-4-4  EN61000-4-6	0.5 kV ( ports > 10m)  1 V rms 1 kHz 80% AM modulation	
4	I/O Signal / Control	Fast Transient Burst  Conducted RF 0.15 kHz— 80 / 230 MHz	EN61000-4-4  EN61000-4-6	0.5 kV ( ports > 3m)  1 V rms 1 kHz 80% AM modulation	