

# GENERIC EMISSIONS AND IMMUNITY STANDARDS FOR INDUSTRIAL ENVIRONMENT EN61000-6-4:2007 & 61000-6-2:2005

EMISSIONS EN61000-6-4 : 2007 (DOW 01-12-2009)				
	Port	Frequency Range	Limits	Basic Standard
Radiated Emissions	Enclosure	30 MHz— 230 MHz 230 MHz— 1 GHz	40 dBuV/m ( 10m Measurement distance ) 47 dBuV/m	CISPR 11 & CISR22 & CISPR 16-2-3 Note: for F<9kHz measurements up to 230 MHz need only be performed
Conducted Emissions	Telecommunications / network ports	0.15 MHz - 0.5 MHz 0.5 MHz - 30 MHz	53 - 43 dBuA QP      40 - 30 dBuA Av 43 dBuA QP              30 dBuA Av	
Conducted Emissions	Telecommunications / network ports	0.15 MHz - 0.5 MHz 0.5 MHz - 30 MHz	97 - 87 dBuV QP      84 - 74 dBuV Av 87 dBuV QP              74 dBuV Av              (ISN)	
Conducted Emissions	AC Mains Power Ports	0.15 MHz— 0.5 MHz 0.5 MHz— 5 MHz 5 MHz— 30 MHz	79 dBuV QP / 66 dBuV Average 73 dBuV QP / 60 dBuV Average 73 dBuV QP / 60 dBuV Average	Note: Impulse noise (Clicks) may apply (p10)
Mains Harmonics		0 - 2 kHz	EN61000-3-2	
Flicker			EN61000-3-3	
Inrush Current			EN61000-3-3	

IMMUNITY EN61000-6-2 : 2005 (DOW 01-06-2008)					
Item	Port	Phenomenon	Basic Standard	Test Value	Notes
1	Enclosure	Electrostatic discharge (ESD) EM Radiated Field	EN61000-4-2 EN61000-4-3	4 kV / 8 kV contact / air 80 MHz - 1 GHz 1 KHz AM 10V/m — 3 V/m at 87 to 108 MHz, 174 to 230 MHz, 470 to 790 MHz 1.4 - 2.0 GHz 3V/m 1 kHz 2.0 - 2.7 GHz 1V/m 1 kHz	B A A A
		Magnetic Field	EN61000-4-11	30 A/m	A
2	AC Power	Burst Surge	EN61000-4-4 EN61000-4-5	2.0 kV 2.0 kV Line to Earth 1.0 kV Line to Line	B B B
		Conducted RF	EN61000-4-6	10 V rms 1 kHz 80% AM modulation 3 Vrms at 47—68 MHz	A A
		Voltage Dips	EN61000-4-11	30% for 500 ms, 60% for 200 ms 100% for 10ms	C B
		Voltage Interruptions	EN61000-4-11	100% for 5 s	C
3	DC Power	Burst Surge	EN61000-4-4 EN61000-4-5	2.0 kV ( ports > 3m refer to conditions p12) 0.5 kV Line to Earth ( refer to conditions p12) 0.5 kV Line to Line	B B B
		Conducted RF	EN61000-4-6	10 V rms 1 kHz 80% AM modulation 3 Vrms at 47—68 MHz	A A
4	I/O Signal / Control	Burst Surge	EN61000-4-4 EN61000-4-5	1.0 kV ( ports > 3m) - Capacitive Clamp 1 kV Line to Earth ( ports > 30m)	A A
		Conducted RF	EN61000-4-6	10 V rms 1 kHz 80% AM modulation 3 Vrms at 47—68 MHz	A A