



**EMC STANDARDS  
CE COMPLIANCE**

## **BASIC EMC SYSTEM**

**Fully compliant emission and immunity tests**

**SPS TestManager / SPS SystemControl for fully software-guided test course**

<b>Harmonics <math>\leq 16A</math></b>	according to <b>IEC/EN 61000-3-2</b>
<b>Flicker <math>\leq 16A</math></b>	<b>IEC/EN 61000-3-3</b>
<b>Flicker <math>\leq 75A</math></b>	<b>IEC/EN 61000-3-11</b>
<b>Harmonics <math>\leq 75A</math></b>	<b>IEC/EN 61000-3-12</b>
<b>Magnetic field</b>	<b>IEC/EN 61000-4-8</b>
<b>Voltage dips and variations <math>\leq 16A</math></b>	<b>IEC/EN 61000-4-11</b>
<b>Harmonics and interharmonics</b>	<b>IEC/EN 61000-4-13</b>
<b>Voltage fluctuations</b>	<b>IEC/EN 61000-4-14</b>
<b>Ripple on DC</b>	<b>IEC/EN 61000-4-17</b>
<b>Unbalance immunity tests</b>	<b>IEC/EN 61000-4-27</b>
<b>Frequency variation</b>	<b>IEC/EN 61000-4-28</b>
<b>Voltage dips and variations on DC</b>	<b>IEC/EN 61000-4-29</b>
<b>Voltage dips and variations <math>&gt; 16A</math></b>	<b>IEC/EN 61000-4-34</b>
<b>Semiconductor converters</b>	<b>IEC/EN 60146-1-1</b>
<b>Programmable controllers</b>	<b>IEC/EN 61131-2</b>
<b>Safety of machinery</b>	<b>IEC/EN 61496-1</b>
<b>Adjustable speed electrical power drive systems</b>	<b>IEC/EN 61800-3</b>
<b>Uninterruptable power systems (UPS)</b>	<b>IEC/EN 62040-2</b>
<b>Electrical, electronic and programmable equipment and systems</b>	<b>DNVGL-CG-0339</b>
<b>Semiconductor processing equipment</b>	<b>SEMI F47</b>

# BASIC EMC SYSTEM

Fully compliant emission and immunity tests according to IEC 61000-3 -2 /-3 /-11 /-12 and IEC 61000-4 -11 /-13 /-14 /-17 /-27 /-28 /-29 /-34



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**SPS SystemControl**

Simulation and control software for arbitrary waveforms, voltage and frequency variations

**SPS TestManager**

Test and evaluation software for fully compliant emission and immunity tests

IEC 61000-3 -2 / -3 / -11 / -12

IEC 61000-4 -11 / -13 / -14 / -17  
IEC 61000-4 -27 / -28 / -29 / -34

Control test and evaluation software

**POWER AMPLIFIER**

Power system simulation acc. to IEC 61000-4-xx

Built-in arbitrary waveform generator  
4-quadrant amplifier series APS

**POWER SWITCH**

Electronic switch acc. to IEC 61000-4-29

Electronic Power Switch with bypass

**ANALYSER IMPEDANCE SYSTEM**

Harmonics and flicker acc. to IEC 61000-3 -2 /-3 /-11 /-12

Analysers Impedance System series AIS

**DISTRIBUTION CONFIGURATION**

Amplifier voltage ranges  
 U: 0...135/240/270/300V<sub>rms</sub> (phase to neutral)  
 U: 0...234/416/468/520V<sub>rms</sub> (phase to phase)

Transformer voltage ranges (optionally)  
 U: 0... 400/540V<sub>rms</sub> (phase to neutral)  
 U: 0... 693/935V<sub>rms</sub> (phase to phase)

Star or delta mode

Floating output  
 max. voltage: <math><300V\_{rms}</math>  
 (earth to APS output)

Power grid

