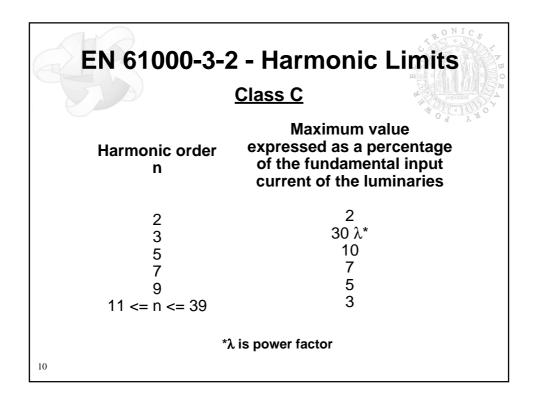
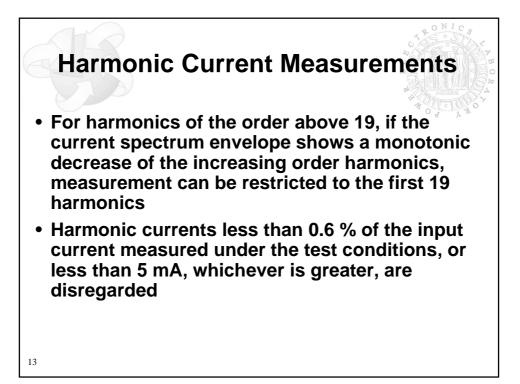


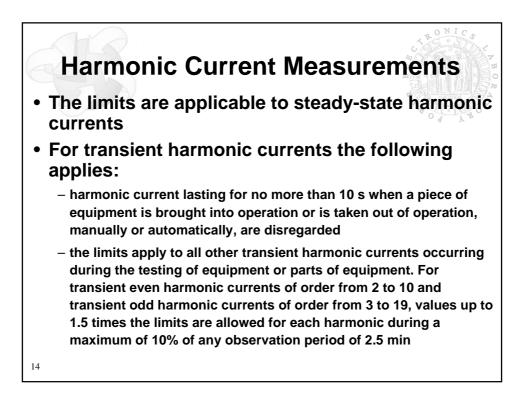
| | -3-2 - Harmo | 40 B B C 7 |
|----------------------|---|---|
| Harmonic order n | Class A max permissible harmonic current A | Class B max permissible harmonic current A |
| Odd harmonics | | |
| 3 | 2.30 | 3.45 |
| 5 | 1.14 | 1.71 |
| 7 | 0.77 | 1.155 |
| 9 | 0.40 | 0.60 |
| 11 | 0.33 | 0.495 |
| 13 | 0.21 | 0.315 |
| 15 <= n <= 39 | 2.25/n | 3.375/n |
| Even harmonics | | |
| 2 | 1.08 | 1.62 |
| 4 | 0.43 | 0.645 |
| 6 | 0.30 | 0.45 |
| 8 <= n <= 40 | 1.84/n | 2.76/n |
| 9 No limits apply fo | r equipment below | v 75 W input power |

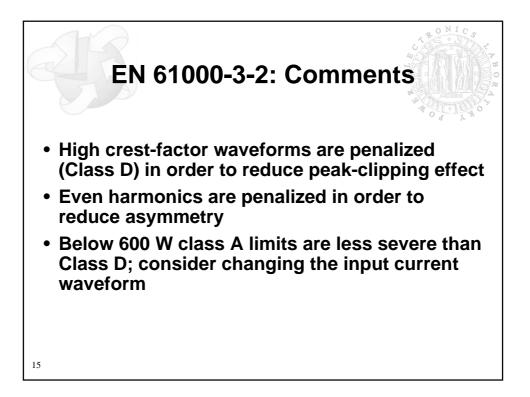


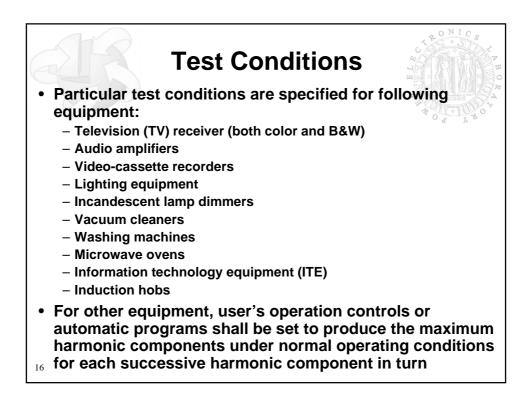


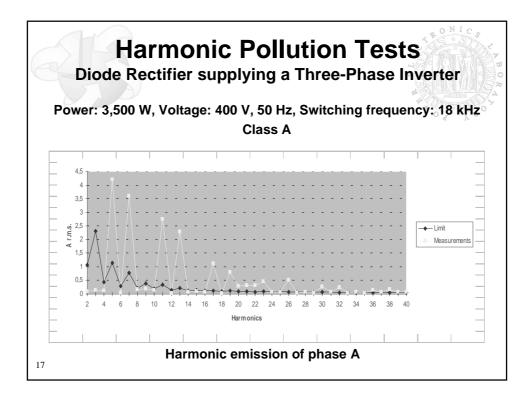
| (ra | <u>Class D</u> ted load conditio | n) |
|----------------|-------------------------------------|---------------------|
| Harmonic order | 75 W < P < 600 W | P > 600 W |
| n | mA/W | A |
| 3 | 3.4 | 2.30 |
| 5 | 1.9 | 1.14 |
| 7 | 1.0 | 0.77 |
| 9 | 0.5 | 0.40 |
| 11 | 0.35 | 0.22 |
| 13 | 0.296 | 0.21 |
| 15 <= n <= 391 | 3.85/n | 2.25/n |

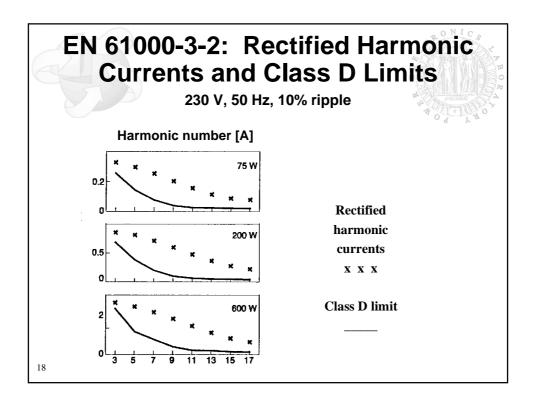


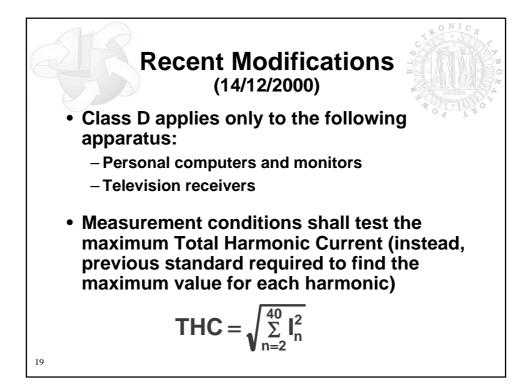


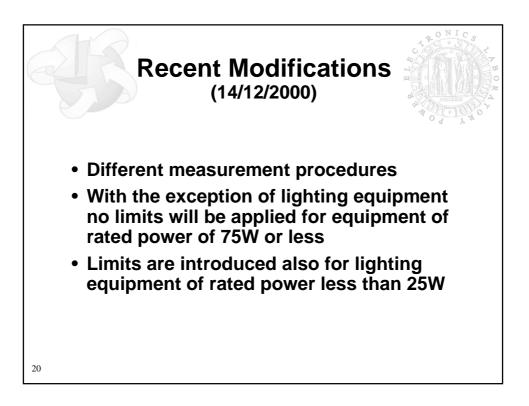


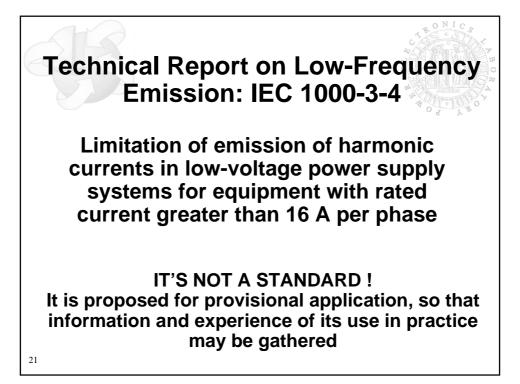


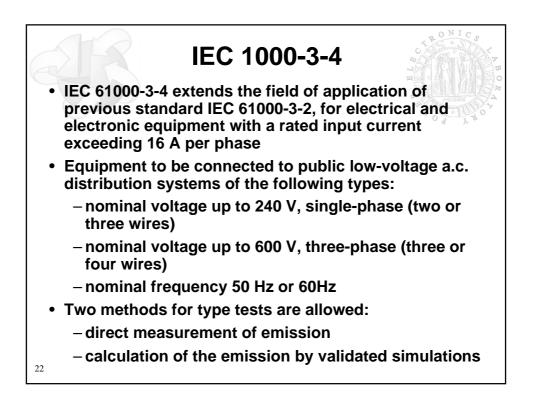


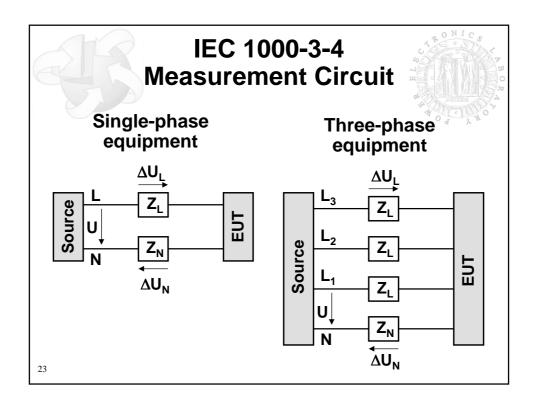


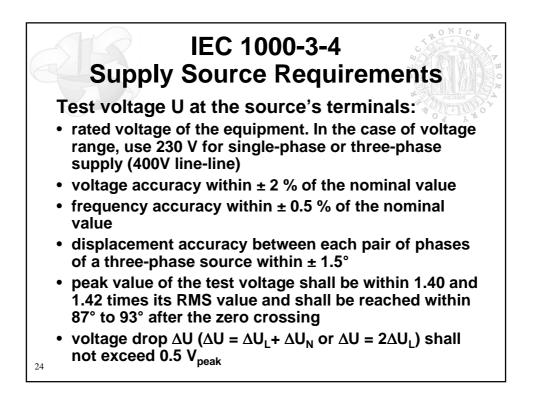




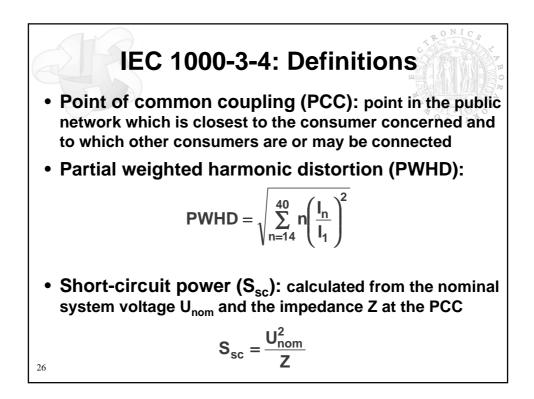


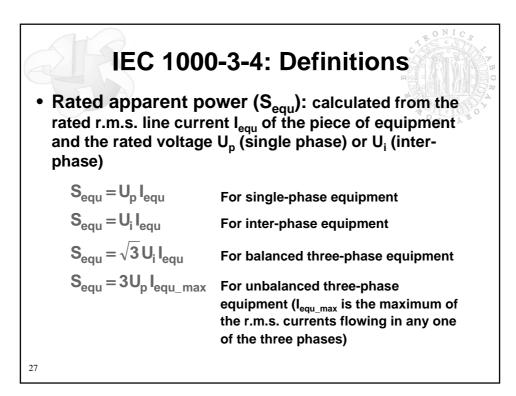


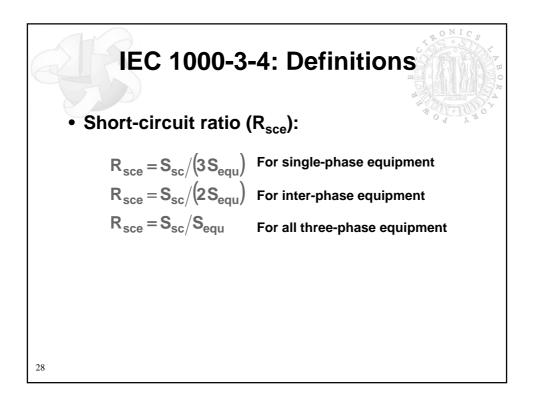




| | C 1000-3-4 urce Requirements | | | | | |
|---|---------------------------------|--|--|--|--|--|
| With EUT connected, the harmonic ratios of test voltage shall not exceed: | | | | | | |
| Limits | Harmonic order | | | | | |
| 0,9% | 3 | | | | | |
| 0,4% | 5 | | | | | |
| 0,3% | 7 | | | | | |
| 0,2% | 9 | | | | | |
| 0,2% | even, from 2 to 10 | | | | | |
| 0,1% | from 11 to 40 | | | | | |
| 25 | | | | | | |





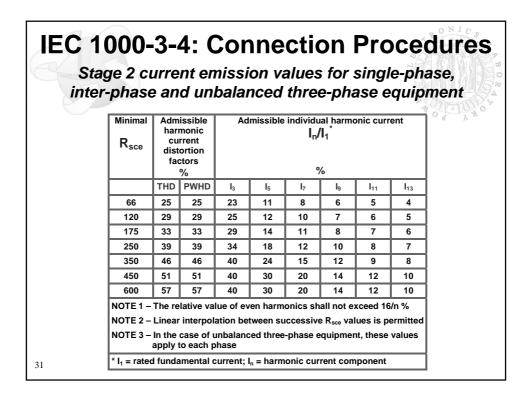


IEC 1000-3-4: Connection Procedures

- Stage 1 Simplified Connection: equipment complying with stage 1 limits can be connected at any point of the supply system provided the short-circuit ratio R_{sce} is ≥ 33
- Stage 2 Connection based on Network and Equipment Data : for equipment not complying with stage 1 limits, higher emission values may be allowed, provided the short-circuit ratio R_{sce} is ≥ 33
- Stage 3 Connection based on the consumer's agreed power: if the conditions of neither stage 1 nor stage 2 are fulfilled, or if the input current of the equipment exceeds 75 A, the supply authority may accept the connection of the equipment on the basis of the agreed active power of the consumer's installation. The local requirements of the power supply authority apply in this case

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| C 1000-3-4: Connection Procedure | | | | | |
|--|------------------------------------|---|------------------------------------|--|--|
| Stage 1 current emission values for simplified | | | | | |
| connection of equipment ($S_{equ} \le S_{sc}$ / 33) | | | | | |
| Connec | | lient (S _{equ} ≤ S _{sc} | (33) ^d ^k | | |
| | | | | | |
| Harmonic number | Admissible | Harmonic number | Admissible | | |
| | harmonic current | | harmonic curren | | |
| n | I _n /I ₁ * % | n | I _n /I ₁ * % | | |
| 3 | 21.6 | 21 | ≤0.6 | | |
| 5 | 10.7 | 23 | 0.9 | | |
| 7 | 7.2 | 25 | 0.8 | | |
| 9 | 3.8 | 27 | ≤ 0.6 | | |
| 11 | 3.1 | 29 | 0.7 | | |
| 13 | 2 | 31 | 0.7 | | |
| 15 | 0.7 | ≥ 33 | ≤0.6 | | |
| 17 | 1.2 | | | | |
| 19 | 1.1 | Even | < 8/n or < 0.6 | | |



| rrent 🧐 d |
|-----------------|
| |
| |
| I ₁₃ |
| 8 |
| 8 |
| 8 |
| 8 |
| 10 |
| 15 |
| 18 |
| 16/n % |
| |

