

# Available measuring devices

## EMC tests

|           | Scope             | Limitation                                 | Standard                                                                                         | Limiting measuring device   | Manufacturer             |           |
|-----------|-------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------|
| Conducted | Emission          | Band A<br>9 kHz to 150 kHz                 | 230 V<br>16 A                                                                                    | 61000-4-6                   | LISN C2-16               | Frankonia |
|           |                   | Band B<br>150 kHz to 30 MHz                | 230 V<br>16 A                                                                                    | 61000-4-7                   | LISN C2-16               |           |
|           |                   | Band B<br>151 kHz to 230 MHz               | 6 W (10 V at 230 MHz)                                                                            | 61000-4-6                   | CDN M2-10k<br>CDN S9-10k |           |
|           | Admission         | Band B<br>152 kHz to 1 GHz                 | 100 W 15 min 150 kHz to 100 MHz<br>100 W 5 min 100 MHz to 230 MHz<br>50 W 3 min 230 MHz to 1 GHz | 61000-4-6                   | EMCL-20                  |           |
|           |                   | Burst                                      | 4 kV 300 mJ                                                                                      | 61000-4-4                   | Transient 2000           |           |
|           |                   | Surge                                      | 4 kV 300 J                                                                                       | 61000-4-5                   |                          |           |
|           |                   | Dips                                       | Input voltage max. 100 kHz                                                                       | 61000-4-11                  |                          |           |
|           |                   | ESD                                        | 15 kV                                                                                            | 61000-4-2                   |                          |           |
|           | Network variation | 6 A                                        |                                                                                                  | 3-phase measurement cabinet |                          |           |
| Radiated  | Emission          | Band C<br>30 MHz to 300 MHz                | 55011<br>55022                                                                                   | ERX-6                       | Frankonia                |           |
|           |                   | Band D<br>300 MHz to 1 GHz                 |                                                                                                  |                             |                          |           |
|           |                   | Band E<br>1 GHz to 6 GHz                   |                                                                                                  |                             |                          |           |
|           | Admission         | Band C<br>30 MHz to 300 MHz                | 50 W (10 V/m)                                                                                    | 61000-4-3                   | FLL-75                   |           |
|           |                   | Band D<br>300 GHz to 1 GHz                 | 120 W (10 V/m)                                                                                   |                             | FLH-200B1                |           |
|           |                   | Band E<br>1 GHz to 3 GHz<br>3 GHz to 6 GHz | up to 6 GHz<br>45 W (10 V/m)<br>30 W (3 V/m)                                                     |                             | FLG-70-CA<br>FLG-30F     |           |
|           |                   | Power frequency magnetic fields            | 10 Hz to 400 Hz<br>up to 1000 A/m                                                                |                             |                          |           |