| LOVAG CB | Id Code | Name | Address | Observer |
|---|---|---|---|---|
| IMQ LABORATORY (ITALY) | IQ03 | IMQ – Electromagnetic Compatibility (EM0080) | Via Quintiliano, 43 <br> I-20138 Milano | Simone BILOTTA |

**LOVAG Scheme Scope**

## Main Standards in the **LOVAG Scheme**

| | Category | Standards | Description |
|---|---|---|---|
| ☐ | POW | IEC/EN 60947-1 | Low-voltage switchgear and controlgear |
| ☐ | POW | IEC/EN 60947-2 | Circuit-breakers |
| ☐ | POW | IEC/EN 60947-3 | Switches, disconnectors, switch-disconnectors and fuse-combination units |
| ☐ | POW | IEC/EN 60947-4-1 | Electromechanical contactors and motor starters |
| ☐ | POW | IEC/EN 60947-5-1 | Auxiliary Switch |
| ☐ | POW | IEC/EN 60439-1 <br> IEC/EN 61439-1 & IEC/EN 61439-2 | Low-voltage switchgear and controlgear assemblies <br> Part 2: Power switchgear and controlgear assemblies |
| ☐ | POW | IEC/EN 61439-1 & IEC/EN 61439-6 | Low-voltage switchgear and controlgear assemblies <br> Part 6: Busbar trunking systems (busways) |

## General Overview of Scope of tests [(*)]

| Type of tests: | Test description: | Maximum Test limits: |
|---|---|---|
| ☐ Hight-current tests | ☐ Short-circuit switching capacity <br>     ☐ AC <br>     ☐ DC <br> ☐ Overload switching capacity <br>     ☐ AC <br>     ☐ DC <br> ☐ Making/breaking capacity <br>     ☐ AC <br>     ☐ DC <br> ☐ Short-time withstand current <br> ☐ Impulse withstand current <br> ☐ Arc fault withstand capacity | <br> Voltage :   V   / Current :   kA <br> Voltage :   V   / Current :   kA <br> <br> Voltage :   V   / Current :   A <br> Voltage :   V   / Current :   kA <br> <br> Voltage :   V   / Current :   A <br> Voltage :   V   / Current :   A <br> Current :   kA   Time :   s <br> Current :   A <br> Energy :   kA²s |
| ☐ Insulation tests | ☐ High voltage <br> ☐ Impulse withstand voltage <br> ☐ Minimun Leakage current detection | Voltage :   kV <br> Voltage :   kV <br> Current :   mA |
| ☐ Temperature-rise tests | ☐ AC / ☐ DC max. current <br> ☐ Minimum Impedance measurement | Current :   A   / Current :  A <br>   Ω |
| ☐ Tripping behaviour | ☐ AC / ☐ DC max. current | Current :   A   / Current :   A |
| ☐ Lifespan | ☐ Mechanical lifespan <br> ☐ Electrical durability: <br>     ☐ AC <br>     ☐ DC | <br> <br> Voltage :   V   Current :   A <br> Voltage :   V   Current :   A |
| ☐ Mechanical properties of terminals | | |
| ☒ **EMC tests** | | |
| ☐ Climatic tests | | |
| ☐ Vibration and shock tests | | |
| ☐ Degree of protection tests | ☐ IP-code (water and solid bodies) <br> ☐ IK-code (impact resistance of enclosures) | IP <br> IK |

(*)     The provided technical information are not contractual and could be different, according to the relevant test specifications of a specific product standard.

For more technical specifications or details, please refere to laboratory documentations or website.