

LOVAG CB	Id Code	Name	Address	Observer
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**LOVAG Scheme Scope**

Main Standards in the LOVAG Scheme			
	Category	Standards	Description
<input type="checkbox"/>	POW	IEC/EN 60947-1	Low-voltage switchgear and controlgear
<input type="checkbox"/>	POW	IEC/EN 60947-2	Circuit-breakers
<input type="checkbox"/>	POW	IEC/EN 60947-3	Switches, disconnectors, switch-disconnectors and fuse-combination units
<input type="checkbox"/>	POW	IEC/EN 60947-4-1	Electromechanical contactors and motor starters
<input type="checkbox"/>	POW	IEC/EN 60947-5-1	Auxiliary Switch
<input type="checkbox"/>	POW	IEC/EN 60439-1	Low-voltage switchgear and controlgear assemblies
<input type="checkbox"/>	POW	IEC/EN 61439-1 & IEC/EN 61439-2	Part 2: Power switchgear and controlgear assemblies
<input type="checkbox"/>	POW	IEC/EN 61439-1 & IEC/EN 61439-6	Low-voltage switchgear and controlgear assemblies Part 6: Busbar trunking systems (busways)
<input checked="" type="checkbox"/>	ELVH	IEC/EN 61851-1 & IEC/EN 61851-22	Electric vehicle conductive charging system Part 22: AC electric vehicle charging station

General Overview of Scope of tests (*)		
Type of tests:	Test description:	Maximum Test limits:
<input type="checkbox"/> High-current tests	<input type="checkbox"/> Short-circuit switching capacity <input type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> Overload switching capacity <input type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> Making/breaking capacity <input type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> Short-time withstand current <input type="checkbox"/> Impulse withstand current <input type="checkbox"/> Arc fault withstand capacity	Voltage : V / Current : kA Voltage : V / Current : kA  Voltage : V / Current : A Voltage : V / Current : kA  Voltage : V / Current : A Voltage : V / Current : A Current : kA Time : s Current : A Energy : kA <sup>2</sup> s
<input type="checkbox"/> Insulation tests	<input type="checkbox"/> High voltage <input type="checkbox"/> Impulse withstand voltage <input type="checkbox"/> Minimum Leakage current detection	Voltage : kV Voltage : kV Current : mA
<input type="checkbox"/> Temperature-rise tests	<input type="checkbox"/> AC / <input type="checkbox"/> DC max. current <input type="checkbox"/> Minimum Impedance measurement	Current : A / Current : A Ω
<input type="checkbox"/> Tripping behaviour	<input type="checkbox"/> AC / <input type="checkbox"/> DC max. current	Current : A / Current : A
<input type="checkbox"/> Lifespan	<input type="checkbox"/> Mechanical lifespan <input type="checkbox"/> Electrical durability: <input type="checkbox"/> AC <input type="checkbox"/> DC	Voltage : V Current : A Voltage : V Current : A
<input type="checkbox"/> Mechanical properties of terminals		
<input type="checkbox"/> EMC tests		
<input type="checkbox"/> Climatic tests		
<input type="checkbox"/> Vibration and shock tests		
<input type="checkbox"/> Degree of protection tests	<input type="checkbox"/> IP-code (water and solid bodies) <input type="checkbox"/> IK-code (impact resistance of enclosures)	IP 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 refer to laboratory documentations or website.