LOVAG Registered Laboratory 2014

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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 IEC/EN 61439-1 & IEC/EN 61439-2	Low-voltage switchgear and controlgear assemblies Part 2: Power switchgear and controlgear assemblies
☐	POW	IEC/EN 61439-1 & IEC/EN 61439-6	Low-voltage switchgear and controlgear assemblies Part 6: Busbar trunking systems (busways)
Additional standards tested by MERSEN			
☒	POW	IEC/EN 60269-1	Low-voltage fuses –Part 1: General requirements
☒	POW	IEC/EN 60269-2	Low-voltage fuses-Part 2: Supplementary requirements for fuses for use by authorized persons
☒	POW	IEC/EN 60269-3	Low-voltage fuses-Part 3:Supplementary requirements for fuses for use by unskilled persons (Fuses mainly for household and similar applications)
☒	POW	IEC/EN 60269-4	Low-voltage fuses-Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices
☒	POW	IEC/EN 60269-6	Low-voltage fuses-Part 6: Supplementary requirements for fuse-links for the protection of solar photovoltaic energy systems

General Overview of Scope of tests (*)

Type of tests:	Test description:	Maximum Test limits:
☒ Hight-current tests	☒ Short-circuit switching capacity	
	☒ AC	Voltage : **45 V** / Current : **300 kA**
	☒ DC	Voltage : **4.4 kV**/ Current : **14 kA**
	☒ Overload switching capacity	
	☒ AC	Voltage : **45 kV** / Current : **300 kA**
	☒ DC	Voltage **:** **4.4 kV**/ Current : **14 kA**
	☒ Making/breaking capacity	
	☒ AC	Voltage : **45 kV** / Current : **300 kA**
	☒ DC	Voltage : **4.4 kV**/ Current : **14 kA**
	☒ Short-time withstand current	Current : **50 kA** Time : **1 s**
	☒ Impulse withstand current	Current : **65 kA**
	☒ Arc fault withstand capacity	Energy : **5 MA²s**
☐ Insulation tests	☐ High voltage	Voltage : kV
	☐ Impulse withstand voltage	Voltage : kV
	☐ Minimun Leakage current detection	Current : mA
☐ Temperature-rise tests	☐ AC / ☐ DC max. current	Current : A / Current : A
	☐ Minimum Impedance measurement	Ω
☐ Tripping behaviour	☐ AC / ☐ DC max. current	Current : A / Current : A
☐ Lifespan	☐ Mechanical lifespan	
	☐ Electrical durability:	
	☐ AC	Voltage : V / Current : A
	☐ DC	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)	IP
	☐ IK-code (impact resistance of enclosures)	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.