



Overview of Quantum Modular evaluation for Compliance to AS/NZS 61439-2

No-LECO-00-011 – Rev-C-50ka
31-07-2024

Clause	Clause Description	Tested / Assessment Ratings	Results
10.2	Strength of material parts		
10.2.2	Resistance to corrosion	Test A – Indoor	Pass
10.2.3	Properties of insulating material		
10.2.3.1	Confirmation of thermal stability of enclosures		Pass
10.2.3.2	Confirmation of resistance of the insulating materials to abnormal heat and fire due to internal electric effects	Insulating materials retaining current carrying parts in position: 960°C Other insulating materials: 650°C	Assessment by use of tested material Pass
10.2.4	Resistance to UV radiation		Assessment by use of tested material Pass
10.2.5	Lifting	Base Lift	Pass
10.2.6	Mechanical impact	IK-10	Pass
10.2.7	Marking	Labelling	Pass
10.3	Degree of protection	IP5X Test Doc 114999977-SA00	Pass
10.4	Clearances and creepage distances	Clearance min 20mm between phases based on Uimp-8kv Creepage min 25mm based on 2kv	Pass
10.5	Protection against electric shock and integrity of protective circuits		
10.5.2	Effective earth continuity between the exposed conductive parts of the assembly and the protective circuit	TUVAU24E1TM 001 50Ka / 1 sec	Pass
10.5.3	Short-circuit withstand of the protective circuit	TUVAU24E1TM 001 50Ka / 1 sec	Pass
10.6	Incorporation of switching devices and components	TUVAU24E1TM 001 50Ka / 1 sec	Pass
10.7	Internal electrical circuits and connections	TUVAU24E1TM 001 50Ka / 1 sec	Pass
10.8	Terminals for external conductors	TUV24BGGI 001	Pass

10.9	Dielectric properties		
10.9.2	Power frequency withstand voltage	Ui 800v	Pass
10.9.3	Impulse withstand voltage	Uimp 8kv	Pass
10.9.4	Testing of enclosures made of insulating material	TUV24BGGI 001	Pass
10.10	Verification of temperature rise	TUV24BGGI 001	Pass
10.10.2.3.5	Verification of incoming circuit for normal ambient Outgoing circuit	TUV24BGGI 001	Pass
10.11	Short circuit withstand strength	TUVAU24E1TM 001 50Ka / 1 sec	Pass
10.12	Electromagnetic compatibility		Pass
10.13	Mechanical operation	200 operations	Pass
8.101	Internal separations of Assemblies	2, 2A, 3B, 3bih	Pass



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