

## SPECIFICATION AND PERFORMANCE

Series	219	File	219 SERIES_SPEC_1	Date	2023/07/14
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## Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of **219 SERIES** 

## **Performance and Descriptions:**

The product is designed to meet the electrical, mechanical and environmental performance requirements specification. Unless otherwise specified, all tests are performed at ambient environmental conditions.

## **RoHS**:

All material in according with the RoHS environment related substances list controlled.

MATERIALS			
NO.	PART NAME	DESCRIPTION	
1	Housing	High Temperature Thermoplastic, UL94V-0, Black	
2	Contact	Brass, Gold under Nickel plating	
3	Shell	Brass, Nickel plated	
4	Nut	Brass, Nickel plated	
5	O-RING	Rubber	
6	EPOXY	EF400 A&B	

RATING		
Rated voltage	Refer to the product drawing	
Rated current	Refer to the product drawing	
Operating temperature	-40°C to +85°C	
Storage temperature	-40°C to +85°C	
Durability	100 cycles	

ELECTRICAL			
Item	Requirement	Test Condition	
Temperature rise test	30°C max. change allowed at rated current	Sample mated, to measure the current when the temperature rise of the terminal within 30°C	
Dielectric withstanding voltage	No Breakdown on appearance	IEC 60512, Test 4a Standard atmospheric conditions Mated connectors	

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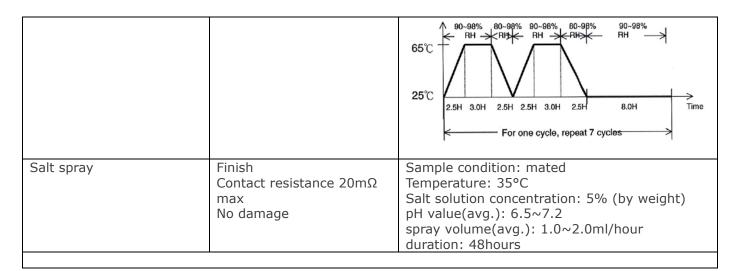
		3 to 4 ways= 1kVAC 5 to 8 ways= 0.65kVAC
Contact resistance	20mΩ max.	IEC 60512, Test 2a Standard atmospheric conditions
Insulation resistance	100MΩ min.	IEC 60512, Test 3a, Method A Standard atmospheric conditions Test voltage 500V±15VDC

MECHANICAL			
Item	Requirement	Test Condition	
Durability	100cycles no evidence of physical damage.	IEC 60512, Test 9a Standard atmospheric conditions Max. speed of operations = 10 mm/s	
	Contact resistance 20mΩ max	Rest: 30 s, unmated	

ENVIRONMENTAL			
Item Requirement		Test Condition	
IP degree of protection	IPX7	IEC 60529 Sample condition: mated Put the testing sample under water 1m, duration 30 minutes	
Thermal shock	Finish Contact resistance 20mΩ max Insulation resistance 100MΩ min	Sample condition: mated $ \begin{array}{c}                                     $	
Humidity test (Steady state)	Finish Contact resistance 20mΩ max Insulation resistance 100MΩ min	Temperature: 40°C Humidity: 90% R.H. Duration: 96hours	
Humidity cycling test	Finish Contact resistance 20mΩ max Insulation resistance 100MΩ min	Sample condition: mated	

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SOLDER ABILITY			
Item	Requirement	Test Condition	
Solder ability	95% of immersed area must show no voids, pin holes.	DIP solder tails into the molten solder (held at $230\pm5^{\circ}$ C) up to 0.5mm from the tip of tails for $3\pm0.5$ seconds.	