

## 4939.\*\*

### 6.3 (.250) TYPE SERIES · RECEPTACLES

SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.



**Specification** Self-locking terminals under TP design

**For male (mm)** 6,3x0,8

**Wire size mm<sup>2</sup> (AWG)** 1-2,5 (18-14)

**Ø Insulation (mm)** 3-4,3

**Materials, temperature and contact resistance**

Part nr.	Material	Finishing	Max. Temp. (°C)	Contact Resist (mΩ)
4939.00	Brass	Natural	110	0.90
4939.01	Brass	Pre-tin-plated	120	0.70
4939.24	Steel	Nickel-plated	300	3.00
4939.30	Bronze	Natural	120	1.10
4939.31	Bronze	Pre-tin-plated	130	0.80

**Material thickness (mm)** 0,4

**Max. rated current**

Wire section	4939.00 / 01 / 30 / 31 / 24
1.00 mm <sup>2</sup>	12A
1.50 mm <sup>2</sup>	16A
2.50 mm <sup>2</sup>	20A

**Compatible connectors** 26418\*\*, RS5412\*\*·K, RS5413\*\*·K, RS5414\*\*·K, RS5415\*\*·K, 26417\*\*

**Insertion / Withdrawal forces**

	4939.00 / 01 / 30 / 31	4939.24
1st Insertion (max)	25N <sup>1</sup>	35N <sup>1</sup>
1st Withdrawal (min, locking enabled)	90N <sup>1</sup>	90N <sup>1</sup>
1st Withdrawal (max)	25N <sup>1</sup>	35N <sup>1</sup>

<sup>1</sup> Valid for Natural Brass Tab


**Security function**

Self-locking function prevents disconnection by pulling the cable.  
Disconnection is possible disabling the locking function, pressing the lever manually or sliding the connector (see withdrawal forces).  
It allows several connections-disconnections maintaining the functional features.

**Application tool** MN4939

**Wire strip length** 5.5 (±0.5) mm

**Crimping parameters & pull out force**

Wire section (±10%)	Conductor 		Insulator	Pull-out force (N)
	Height (mm)	Width (mm)		
1.00 mm <sup>2</sup>	1.55 (±0.05)	3.06 (±0.05)	4.09 (±0.10)	108N @ 60s
1.50 mm <sup>2</sup>	1.70 (±0.05)	3.07 (±0.05)	4.11 (±0.10)	150N @ 60s
2.00 mm <sup>2</sup>	1.80 (±0.05)	3.08 (±0.05)	4.12 (±0.10)	150N @ 60s
2.50 mm <sup>2</sup>	1.90 (±0.05)	3.10 (±0.05)	4.17 (±0.10)	230N @ 60s

Values only valid for the application tool specified upwards. The insulator widths are only indicative as they are dependent on the sheath thickness of the wire used.

**Winding number** 6000

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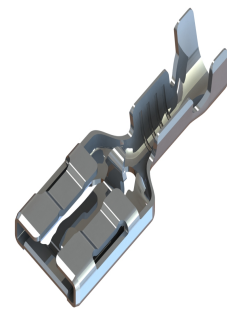
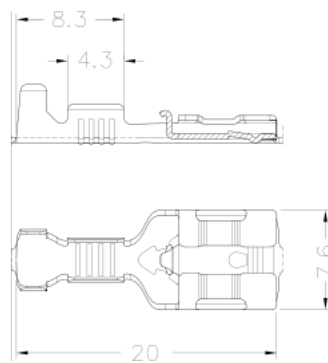
#### Approved regulations

Part nr.	Approval	Standard	File	Certified framework
4939.00	UL	UL 310	E211727	AWG 18-14 (16-41 Stranded Cu) / MN4939
4939.01	UL	UL 310	E211727	AWG 18-14 (16-41 Stranded Cu) / MN4939
4939.24	UL	UL 310	E211727	AWG 18-14 (16-41 Stranded Cu) / MN4939

#### Approvals



#### Drawing

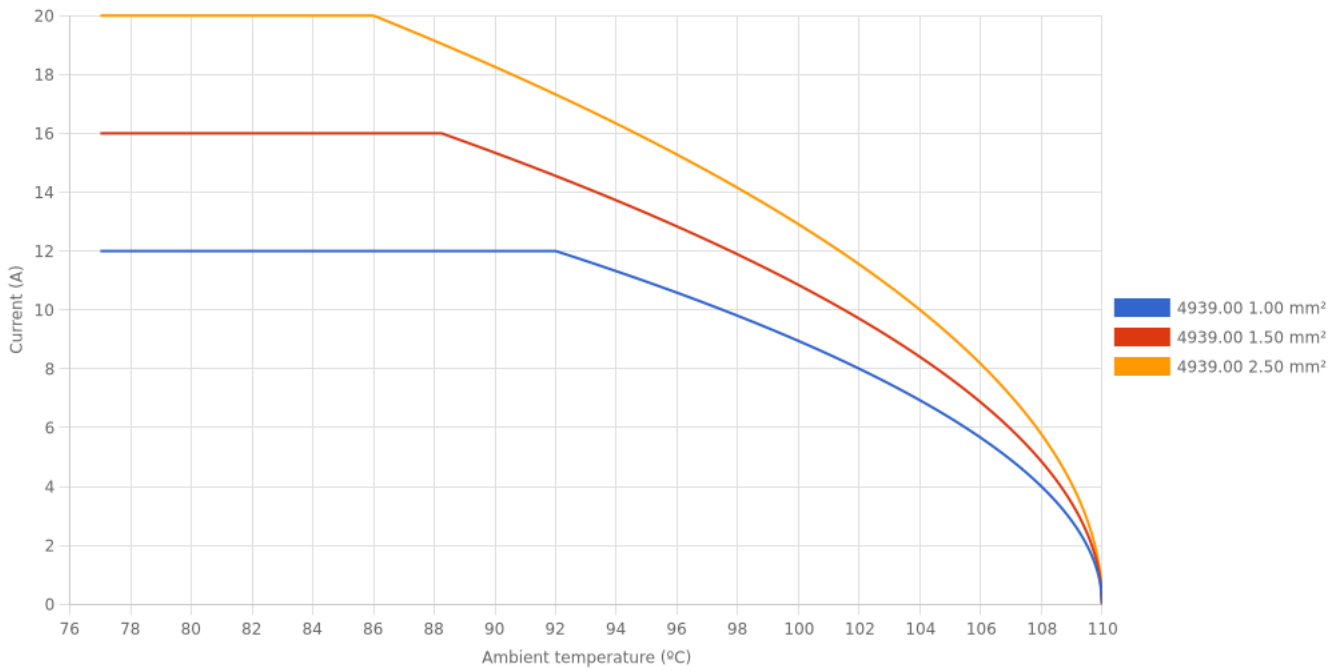


**4939.00 NATURAL BRASS**  
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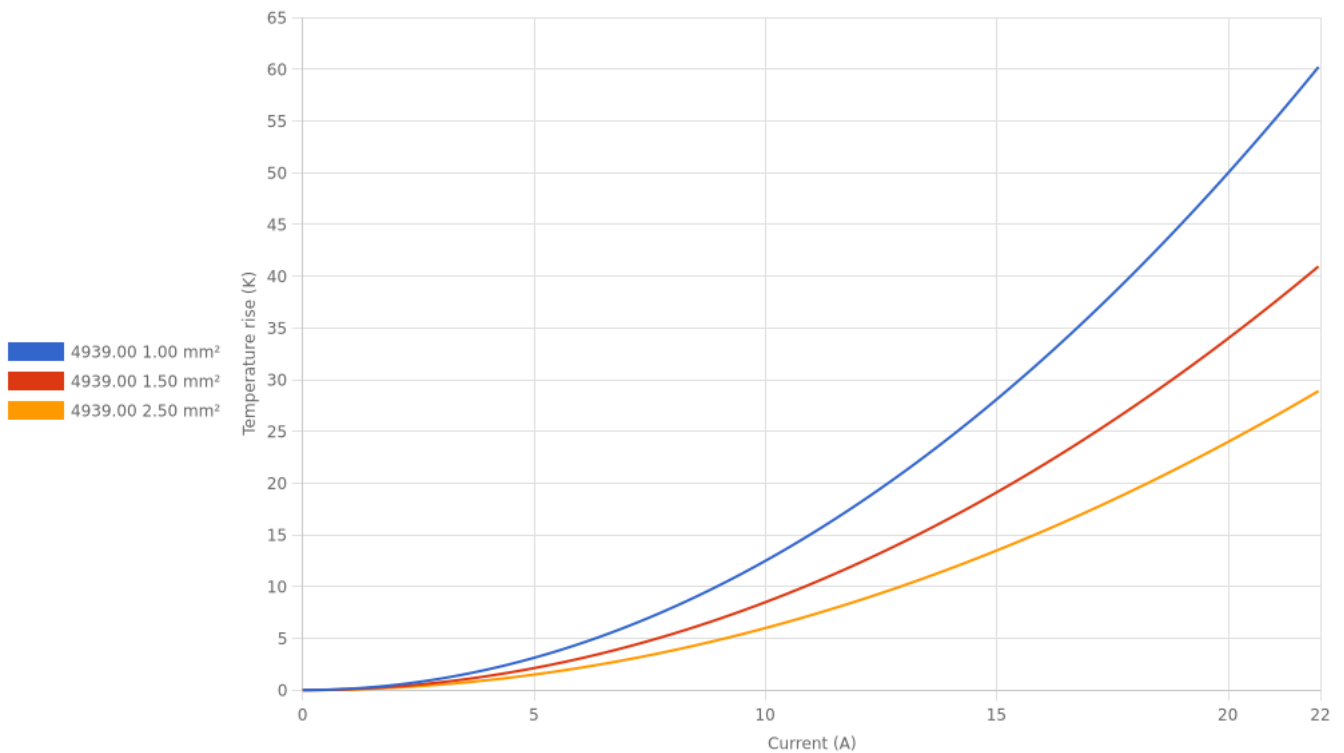
**Derating curve**

Current carrying capacity vs. Ambient temperature



**Temperature rise curve**

Terminal temperature rise due to the current carried



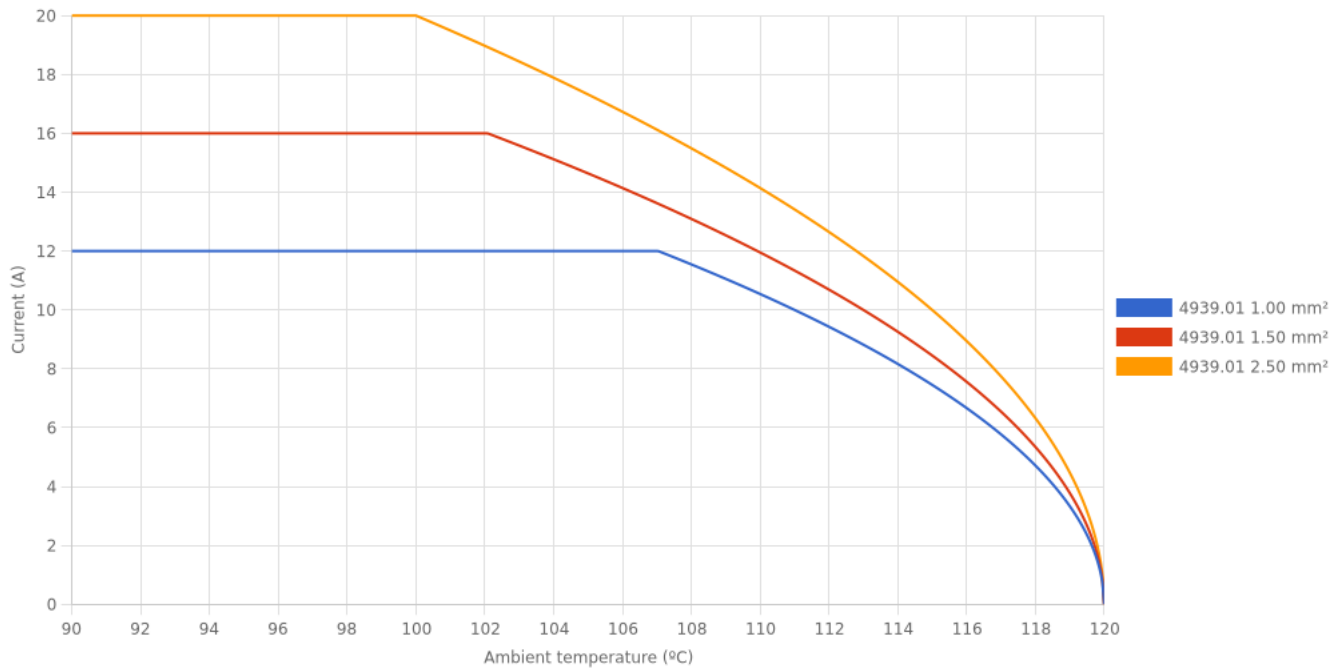
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**4939.01 PRE-TIN-PLATED BRASS**  
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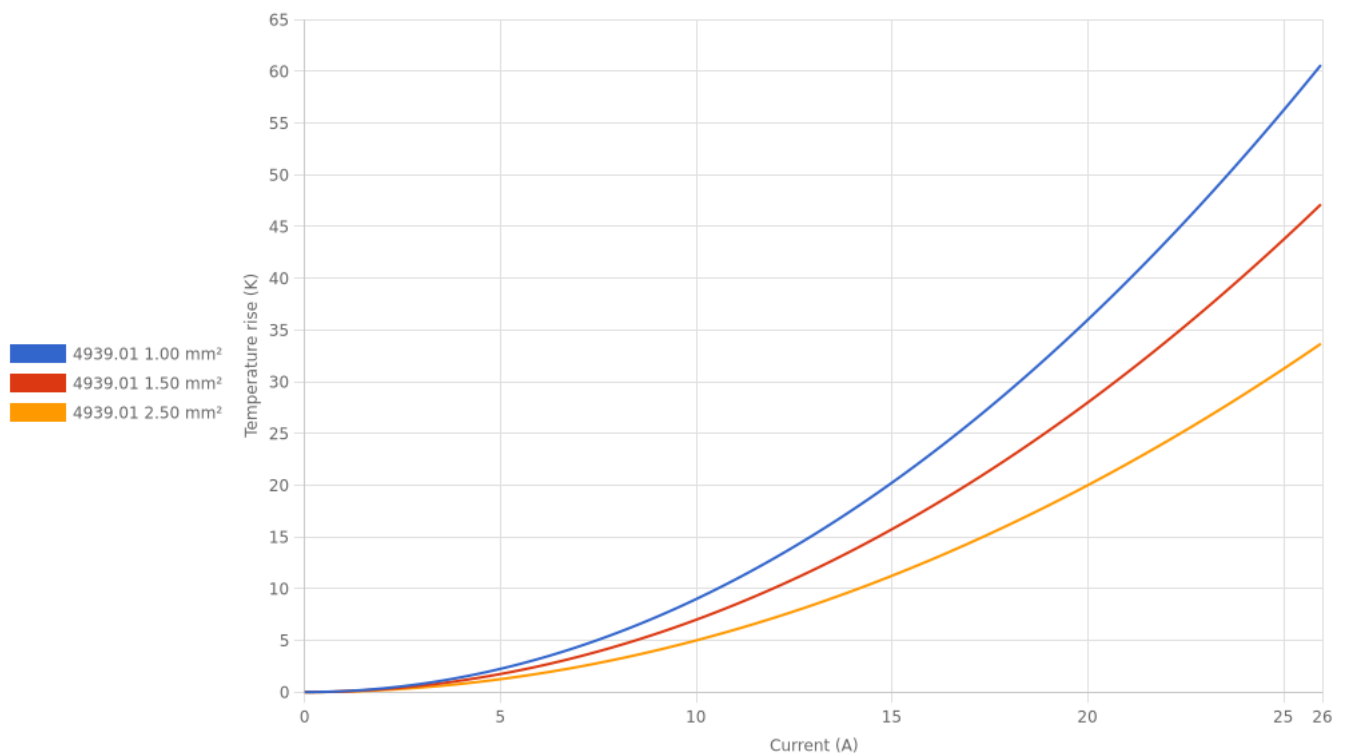
**Derating curve**

Current carrying capacity vs. Ambient temperature



**Temperature rise curve**

Terminal temperature rise due to the current carried



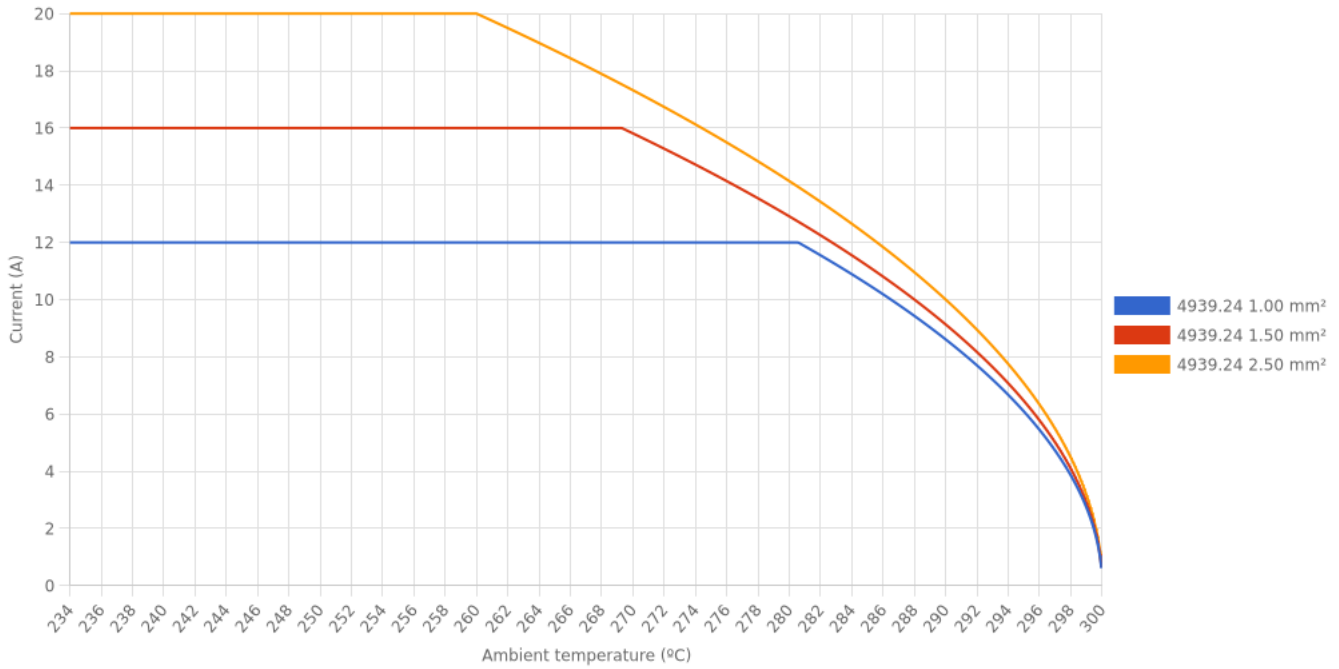
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**4939.24 NICKEL-PLATED STEEL**  
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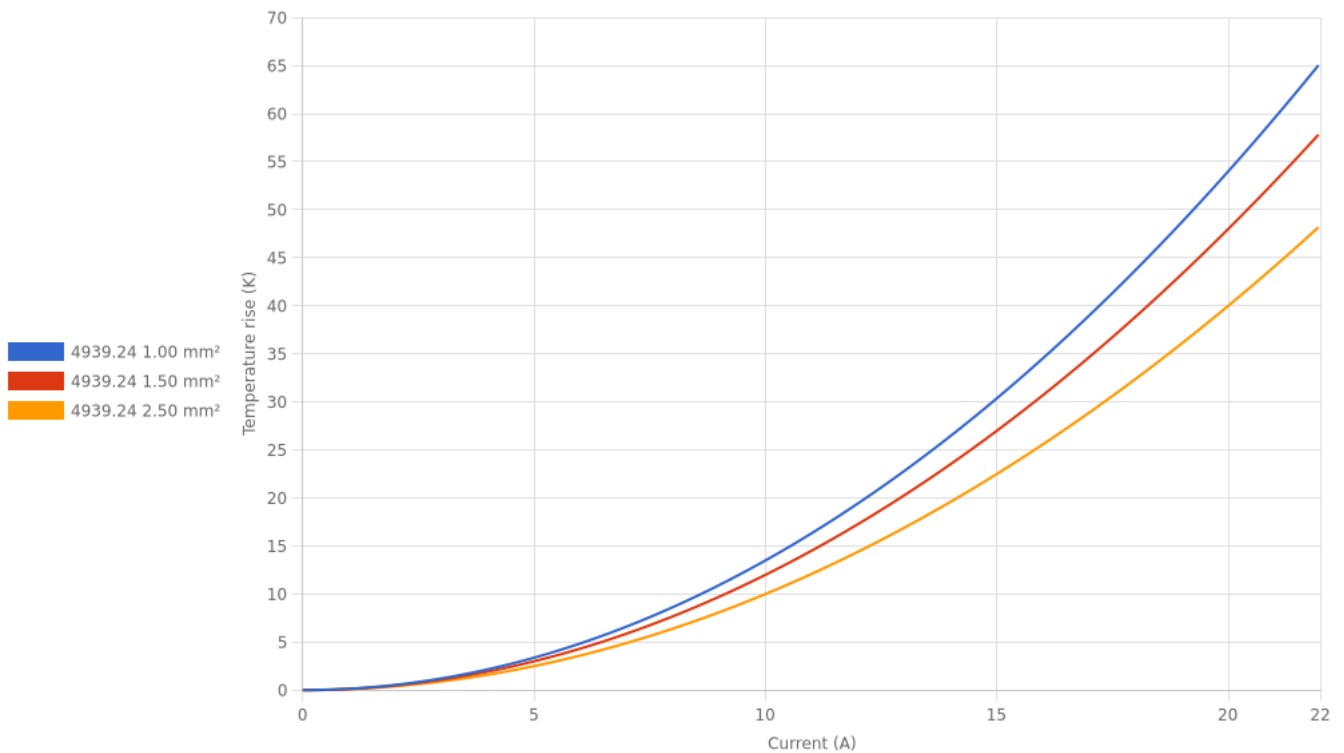
**Derating curve**

Current carrying capacity vs. Ambient temperature



**Temperature rise curve**

Terminal temperature rise due to the current carried



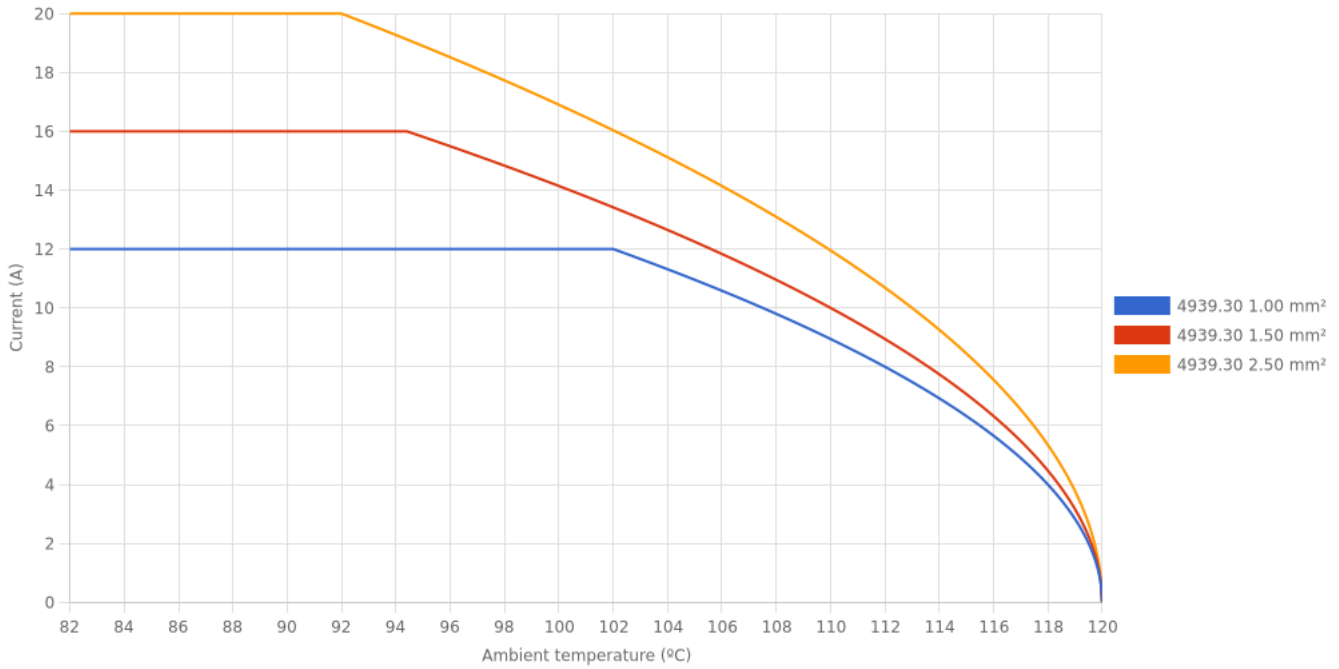
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**4939.30 NATURAL BRONZE**  
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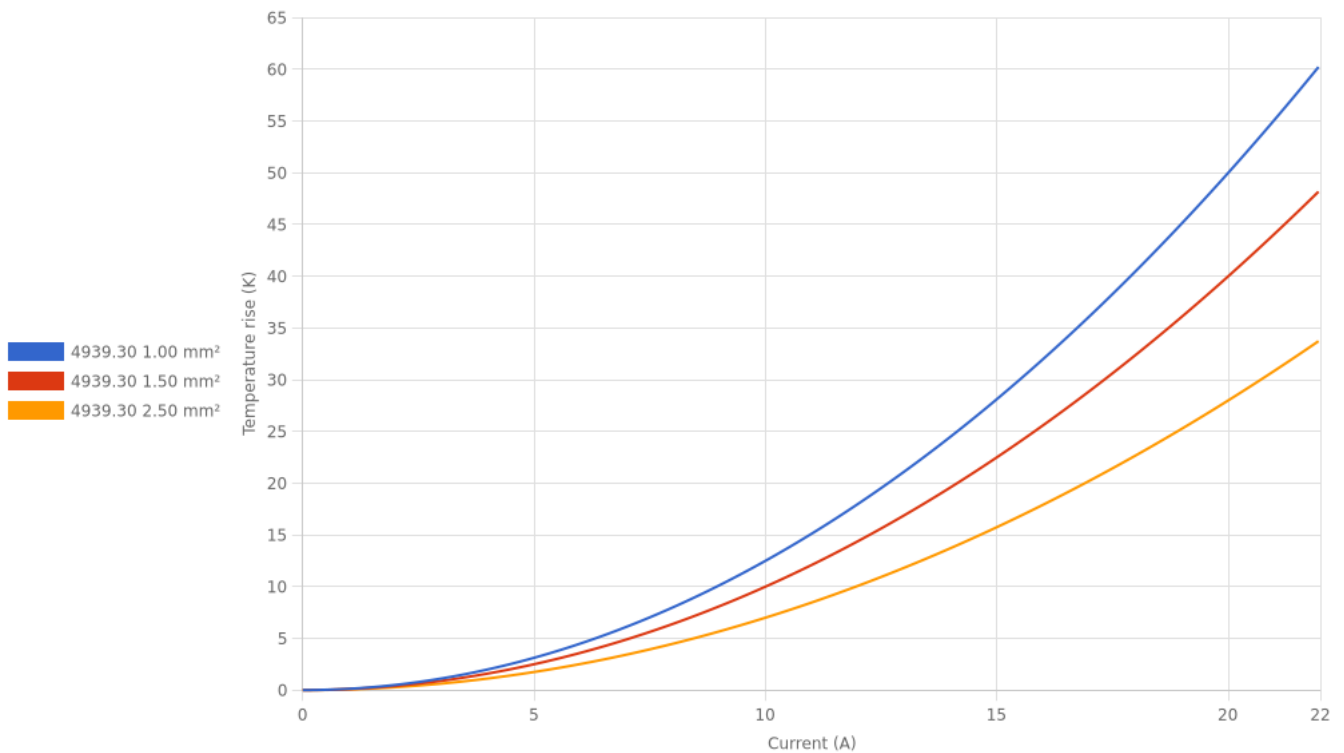
**Derating curve**

Current carrying capacity vs. Ambient temperature



**Temperature rise curve**

Terminal temperature rise due to the current carried



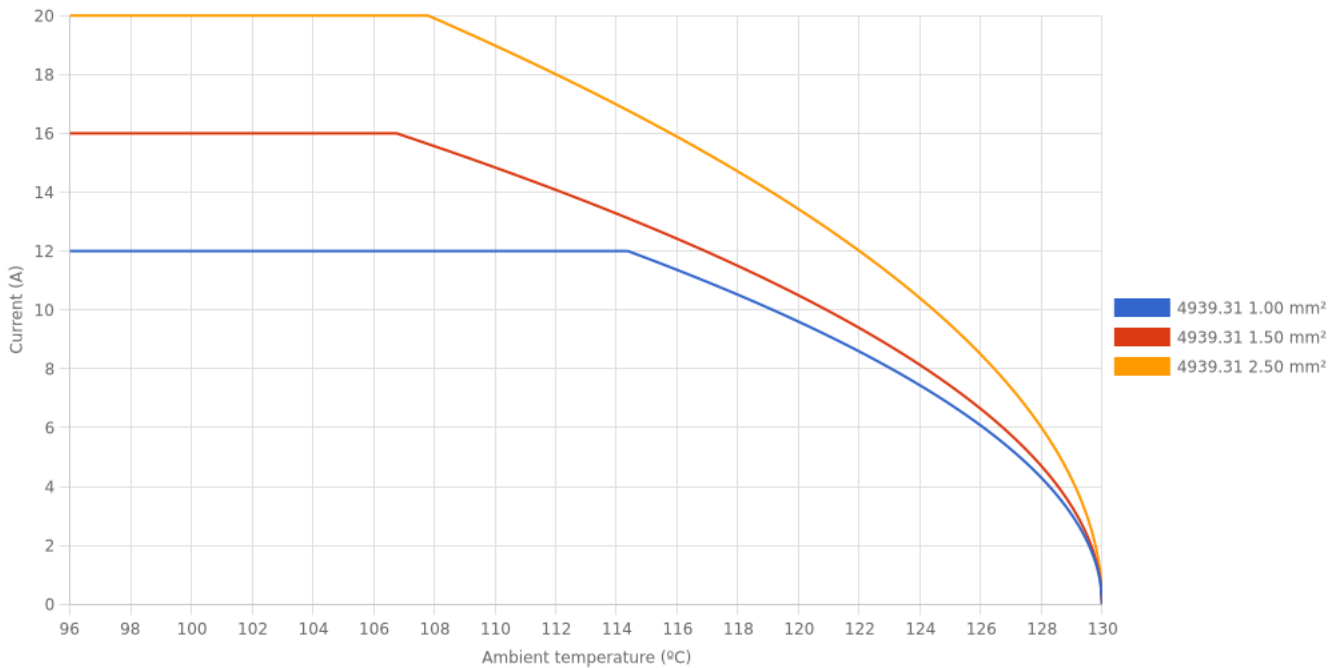
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**4939.31 PRE-TIN-PLATED BRONZE**  
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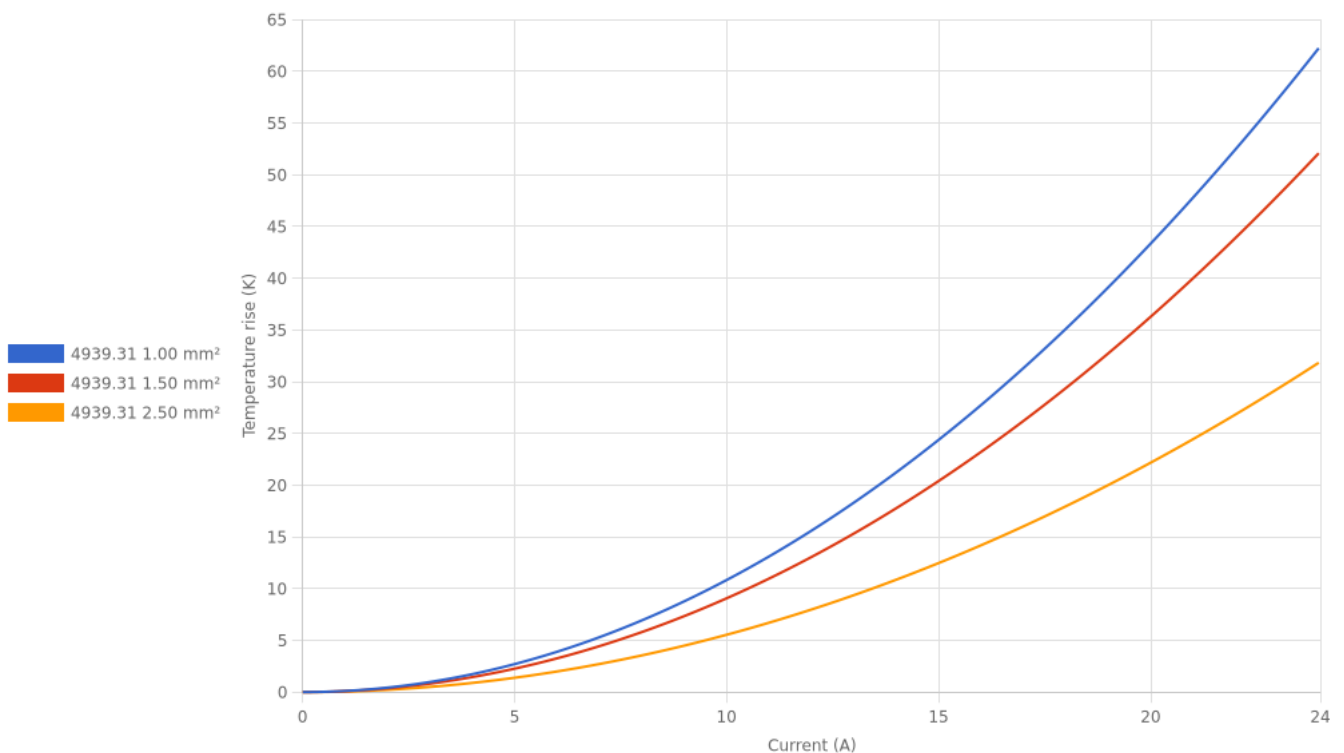
**Derating curve**

Current carrying capacity vs. Ambient temperature



**Temperature rise curve**

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab

**4939.\*\*****6.3 (.250) TYPE SERIES · RECEPTACLES****SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.****Disclaimer**

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