



**4768.\*\***

**4.8 (.187) TYPE SERIES · RECEPTACLES**

**SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.**



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

**For male (mm)** 4,8x0,5

**Wire size mm<sup>2</sup> (AWG)** 0,2-0,6 (24-20)

**Ø Insulation (mm)** 1,1-2,1

**Materials, temperature and contact resistance**

Part nr.	Material	Finishing	Max. Temp. (°C)	Contact Resist (mΩ)
4768.00	Brass	Natural	110	1.50
4768.01	Brass	Pre-tin-plated	120	1.25
4768.24	Steel	Nickel-plated	300	2.50
4768.51	Cu. Alloy	Pre-tin-plated	150	0.75

**Material thickness (mm)** 0,35

**Max. rated current**

Wire section	4768.00 / 01 / 24 / 51
0.20 mm <sup>2</sup>	2A
0.25 mm <sup>2</sup>	2A
0.35 mm <sup>2</sup>	6A
0.50 mm <sup>2</sup>	8A
0.60 mm <sup>2</sup>	8A

**Insertion / Withdrawal forces**

	4768.00 / 01 / 24 / 51
1st Insertion (max)	25N <sup>1</sup>
1st Withdrawal (max)	25N <sup>1</sup>
1st Withdrawal (min, locking enabled)	70N <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**

MN4768

**Wire strip length**

4.5 (±0.5) mm

**Crimping parameters & pull out force**

Wire section (±10%)	Conductor 		Insulator	Pull-out force (N)
	Height (mm)	Width (mm)		
0.20 mm <sup>2</sup>	1.15 (±0.03)	1.87 (±0.03)	3.08 (±0.10)	28N @ 60s
0.25 mm <sup>2</sup>	1.15 (±0.03)	1.87 (±0.03)	3.08 (±0.10)	28N @ 60s
0.35 mm <sup>2</sup>	1.20 (±0.03)	1.87 (±0.03)	3.09 (±0.10)	40N @ 60s
0.50 mm <sup>2</sup>	1.25 (±0.03)	1.88 (±0.03)	3.09 (±0.10)	56N @ 60s
0.60 mm <sup>2</sup>	1.30 (±0.05)	1.88 (±0.05)	3.10 (±0.10)	56N @ 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

**Compatible connectors**

24817\*\*



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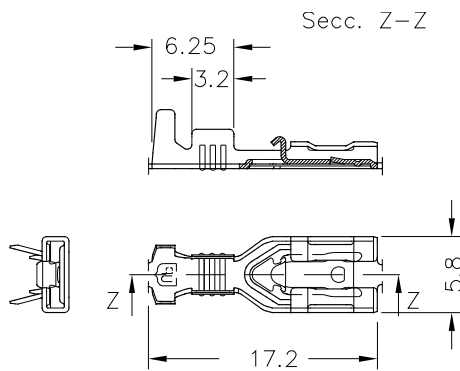
**Approved regulations**

Part nr.	Approval	Standard	File	Certified framework
4768.00	UL	UL 310	E211727	AWG 24-20 (MV-10 Stranded Cu) / MN4768 or MN4773
4768.01	UL	UL 310	E211727	AWG 24-20 (MV-10 Stranded Cu) / MN4768 or MN4773
4768.24	UL	UL 310	E211727	AWG 24-20 (MV-10 Stranded Cu) / MN4768 or MN4773

**Approvals**



**Drawing**





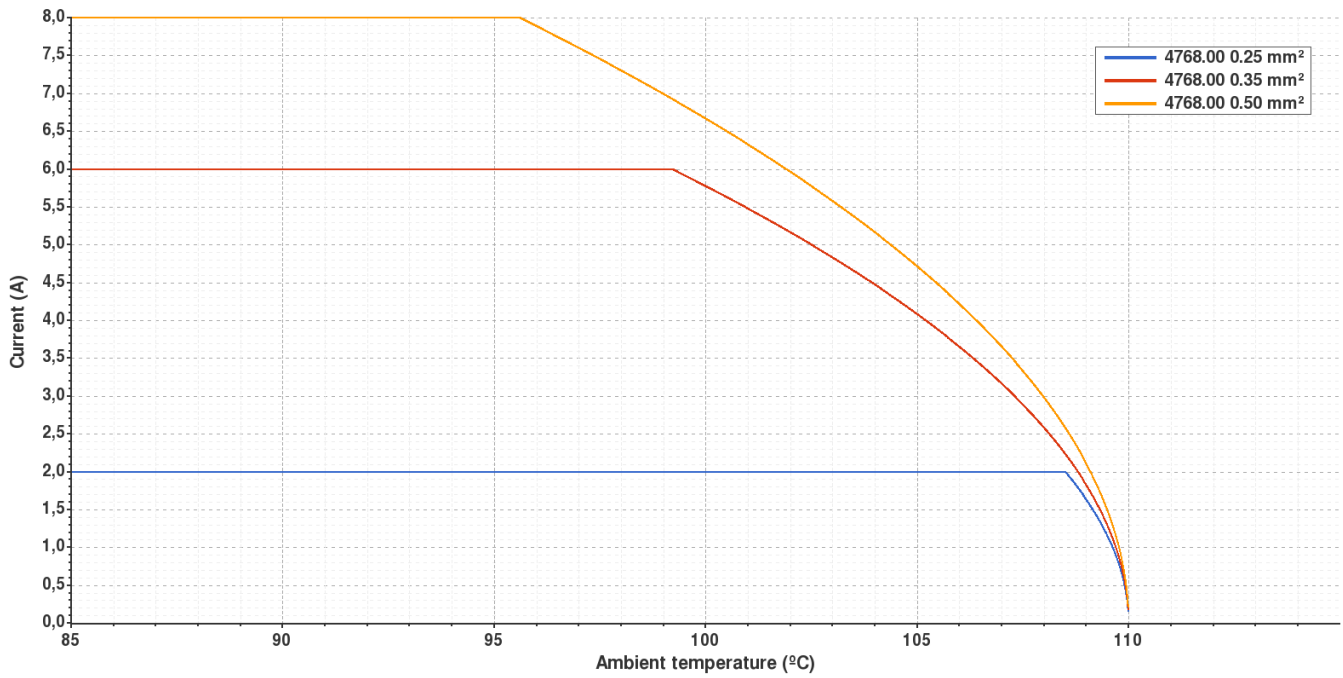
**4768.00 NATURAL BRASS**



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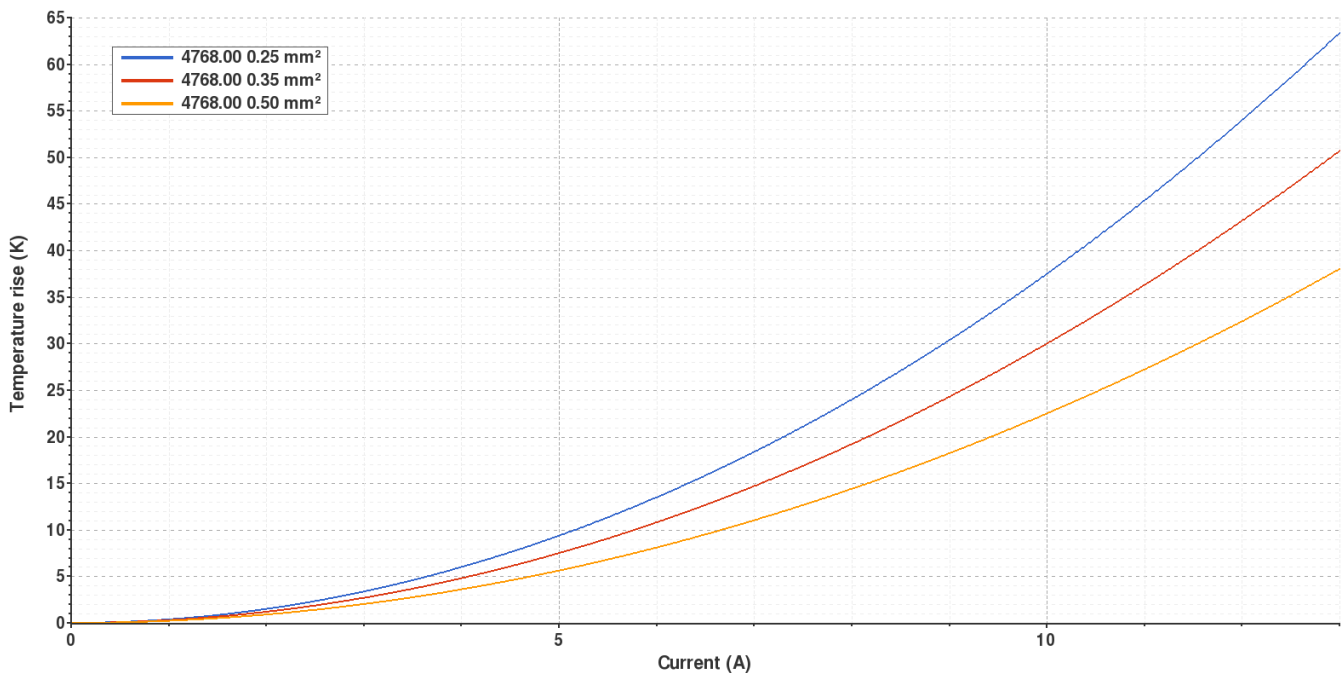
**Derating curve**

Current carrying capacity vs. Ambient temperature



**Temperature rise curve**

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab



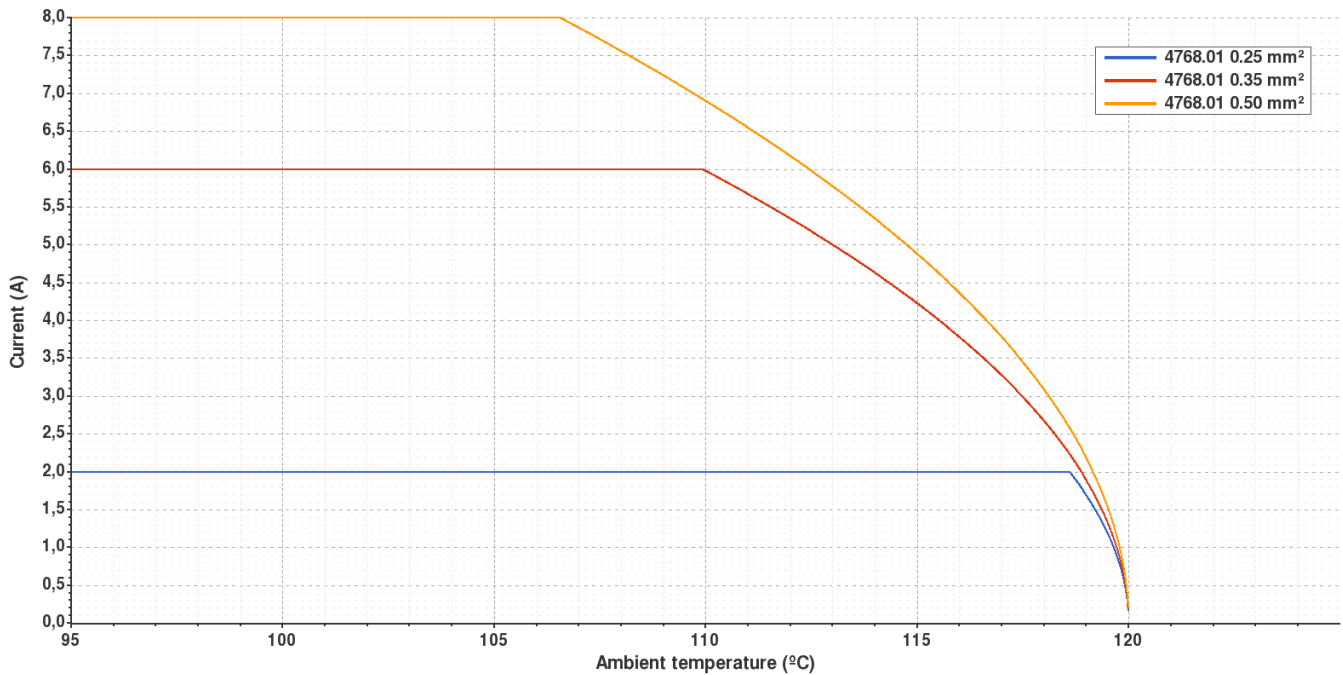
**4768.01 PRE-TIN-PLATED BRASS**

**4.8 (.187) TYPE SERIES · RECEPTACLES**  
SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.



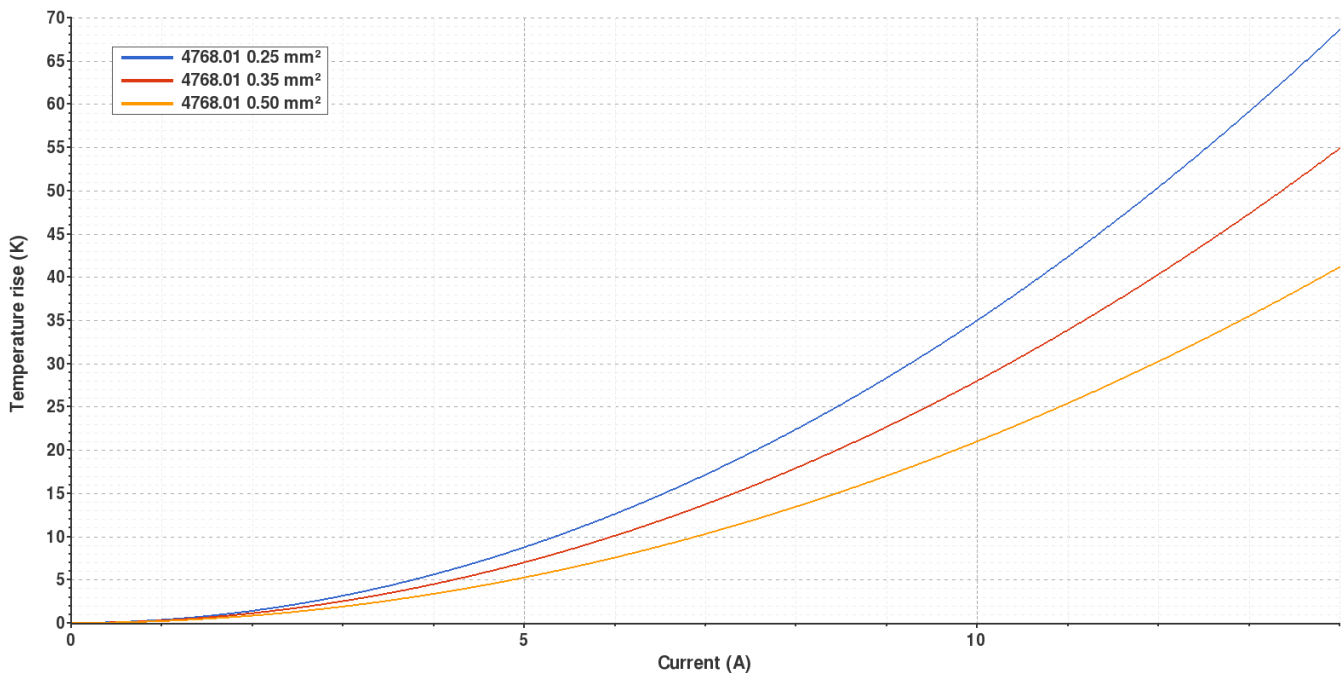
**Derating curve**

Current carrying capacity vs. Ambient temperature



**Temperature rise curve**

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab



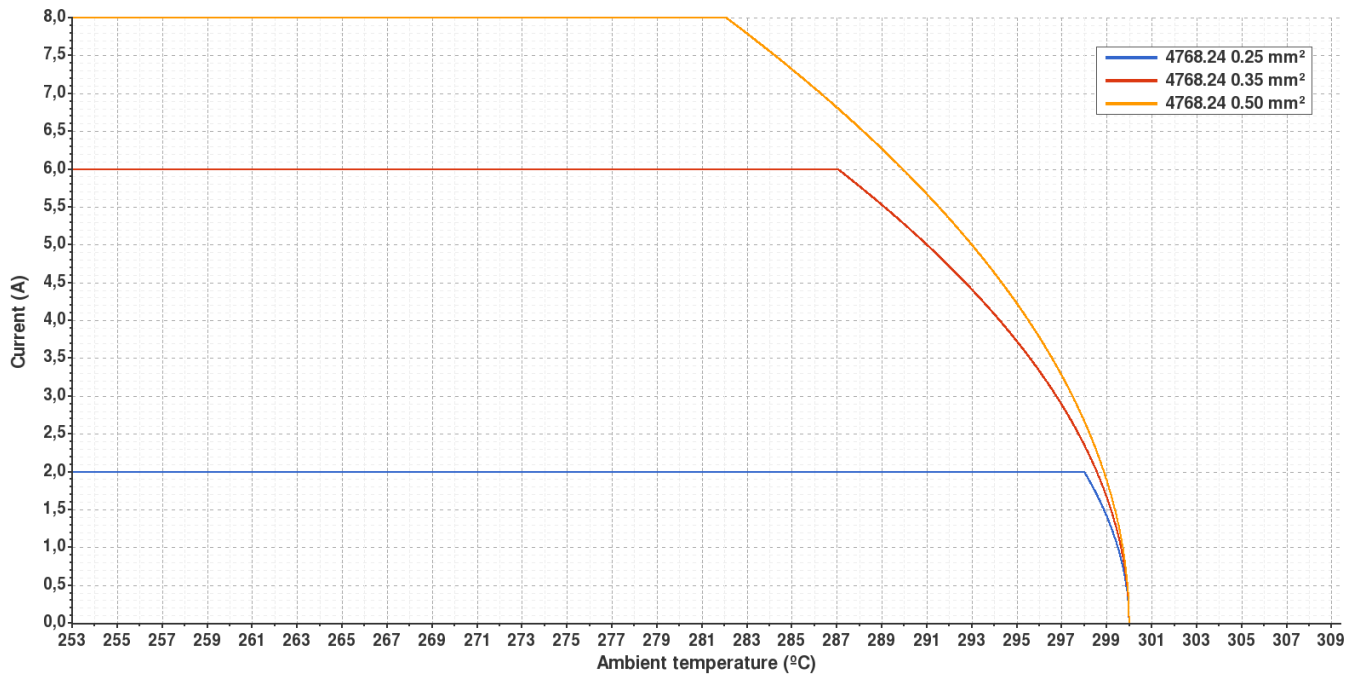
**4768.24 NICKEL-PLATED STEEL**



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SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.

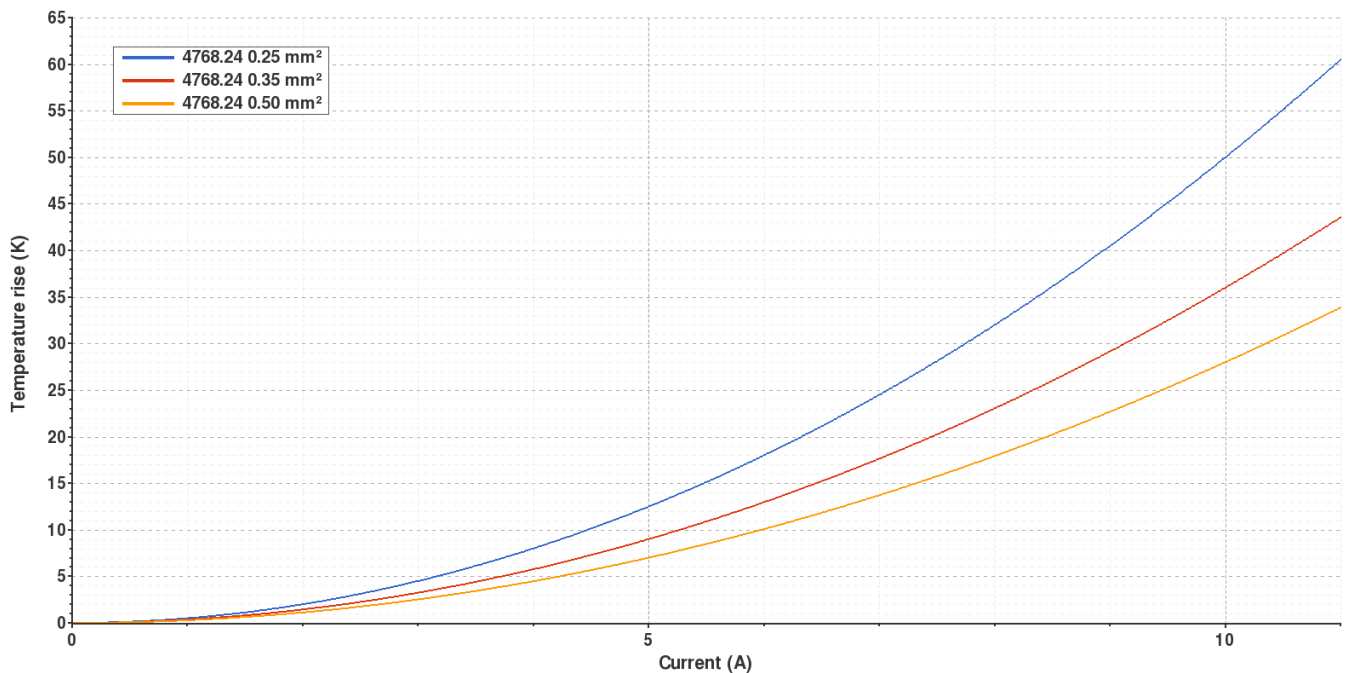
**Derating curve**

Current carrying capacity vs. Ambient temperature



**Temperature rise curve**

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab



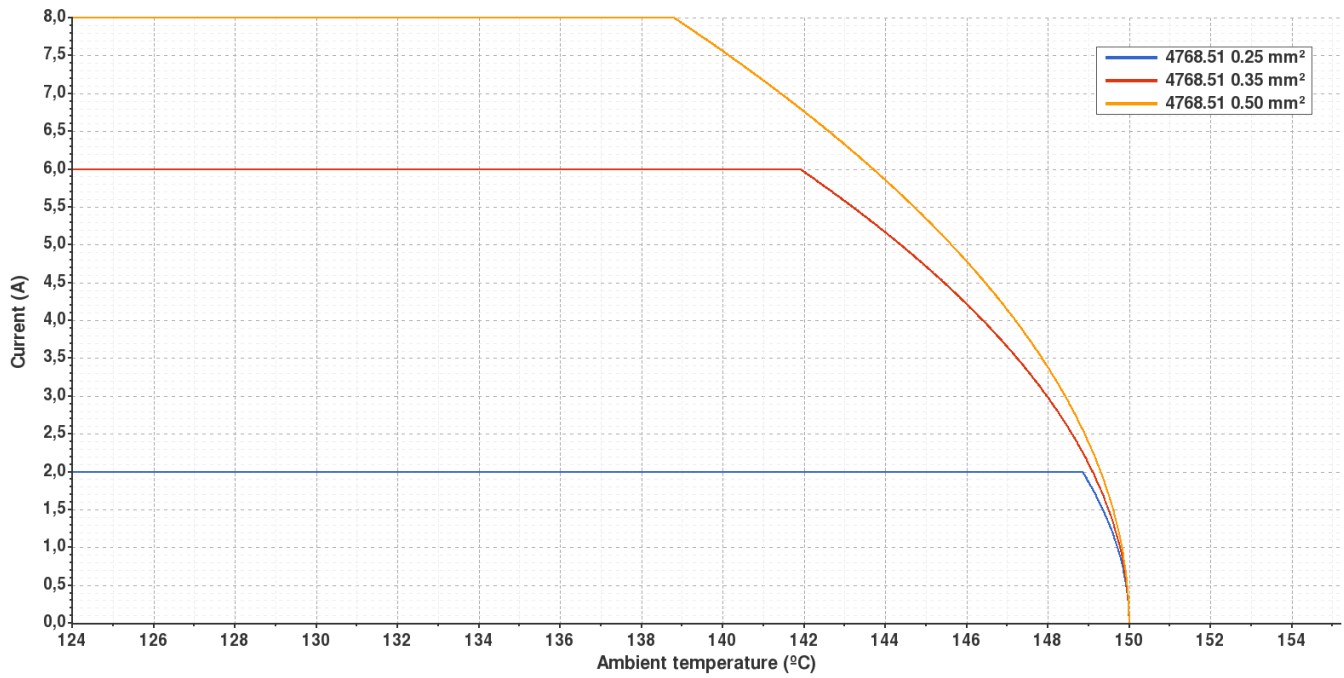
**4768.51 PRE-TIN-PLATED CU. ALLOY**

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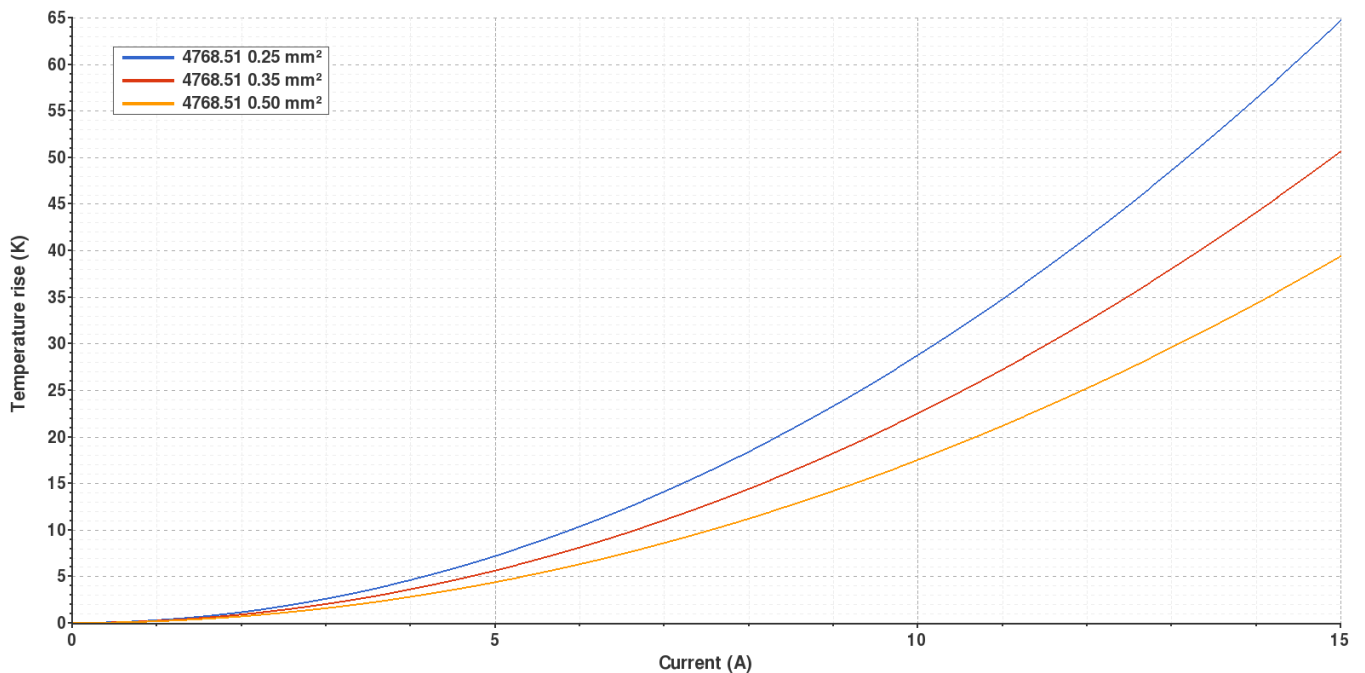
**Derating curve**

Current carrying capacity vs. Ambient temperature



**Temperature rise curve**

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab



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**Disclaimer**

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Rev. Nr.	Concept	Date	Created/Revised	Approved
A3	Correction - Subtitle of the datasheet	2019-03-21	Laboratory Dept.	E. Roura
A2	Update de-rating curve	2018-11-27	Laboratory Dept.	E. Roura
A1	Datasheet generated automatically [A1]	2018-09-19	Laboratory Dept.	E. Roura