

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 mm² (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 ²	2A
0.25 mm ²	2A
0.35 mm ²	6A
0.50 mm ²	8A
0.60 mm ²	8A

Insertion / Withdrawal forces

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

¹ 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 Width (mm)	Pull-out force (N)
	Height (mm)	Width (mm)		
0.20 mm ²	1.15 (±0.03)	1.87 (±0.03)	3.08 (±0.10)	28N @ 60s
0.25 mm ²	1.15 (±0.03)	1.87 (±0.03)	3.08 (±0.10)	28N @ 60s
0.35 mm ²	1.20 (±0.03)	1.87 (±0.03)	3.09 (±0.10)	40N @ 60s
0.50 mm ²	1.25 (±0.03)	1.88 (±0.03)	3.09 (±0.10)	56N @ 60s
0.60 mm ²	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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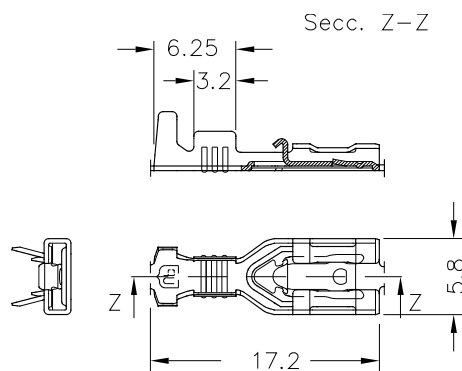
Approved regulations

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

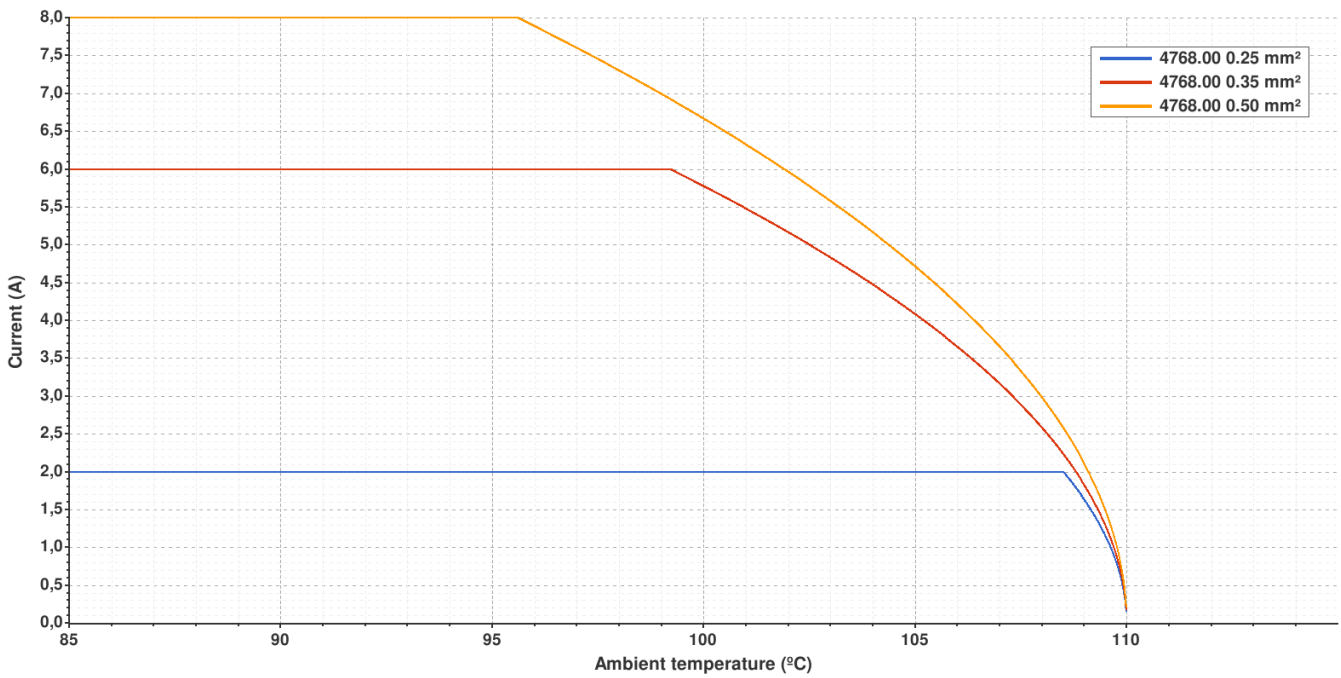


4768.00 NATURAL BRASS

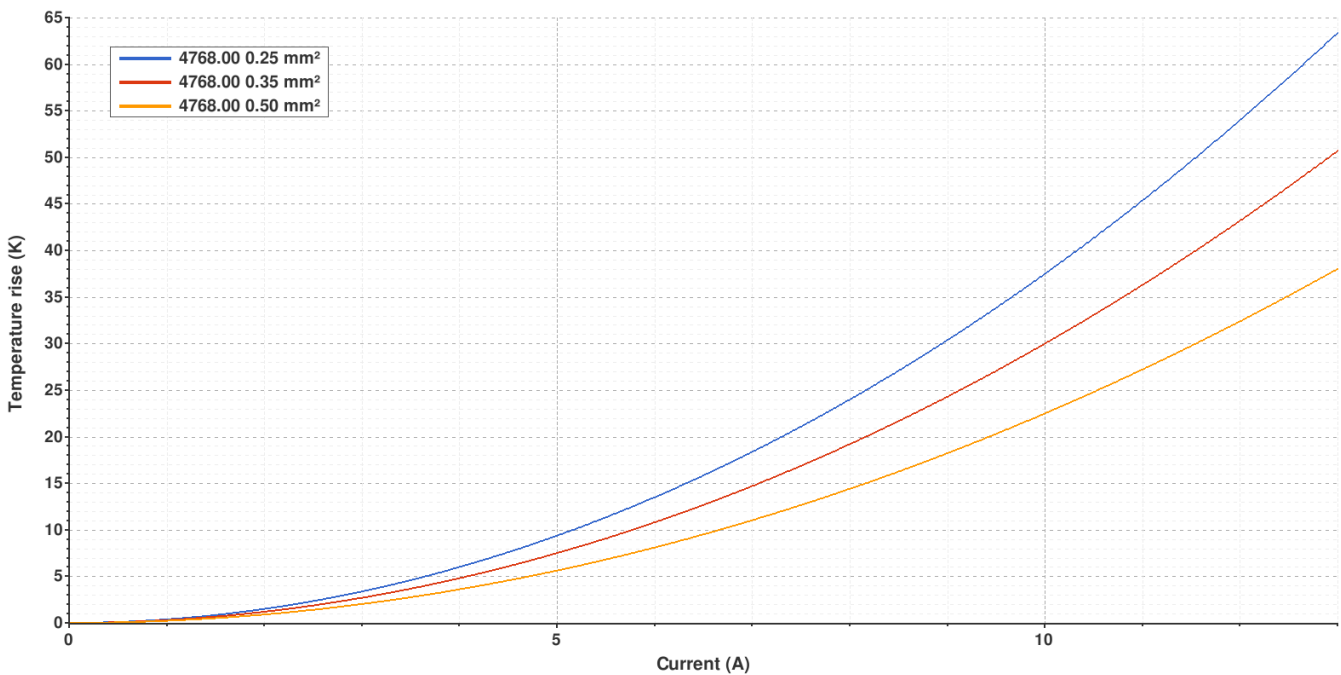


4.8 (.187) TYPE SERIES · RECEPTACLES
SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.

Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried



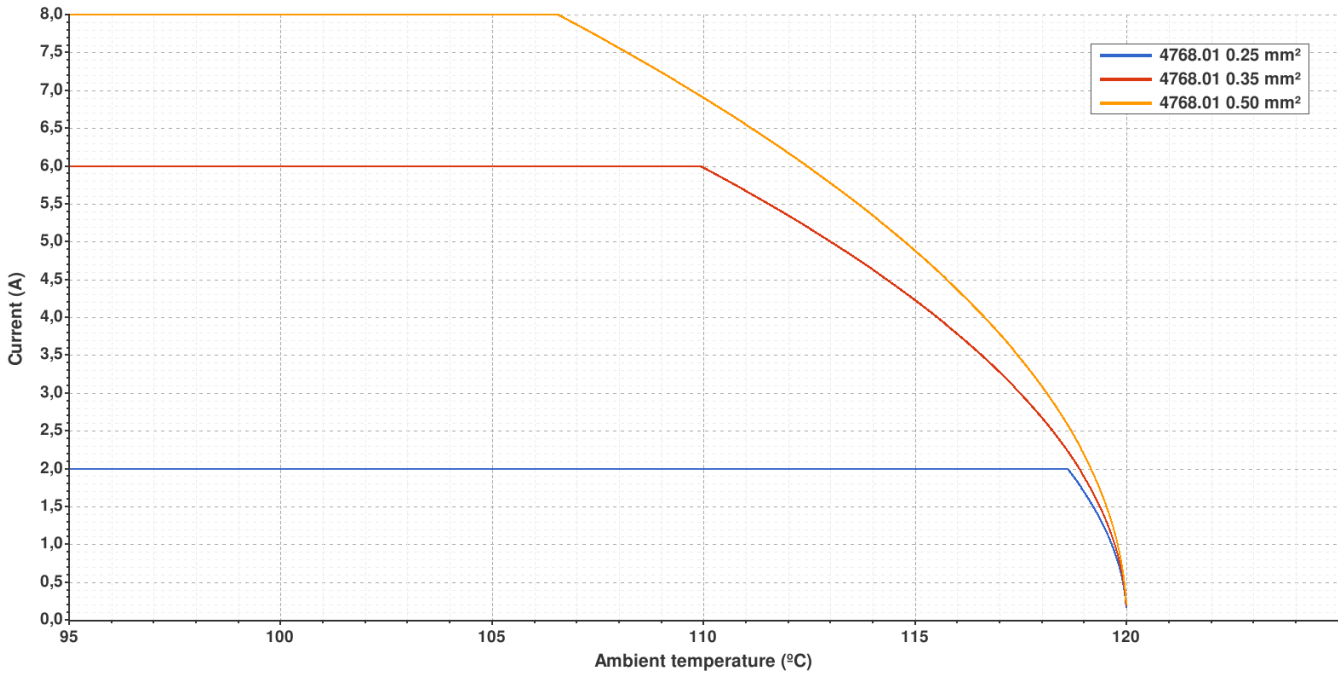
Valid for Natural Brass Tab

4768.01 PRE-TIN-PLATED BRASS

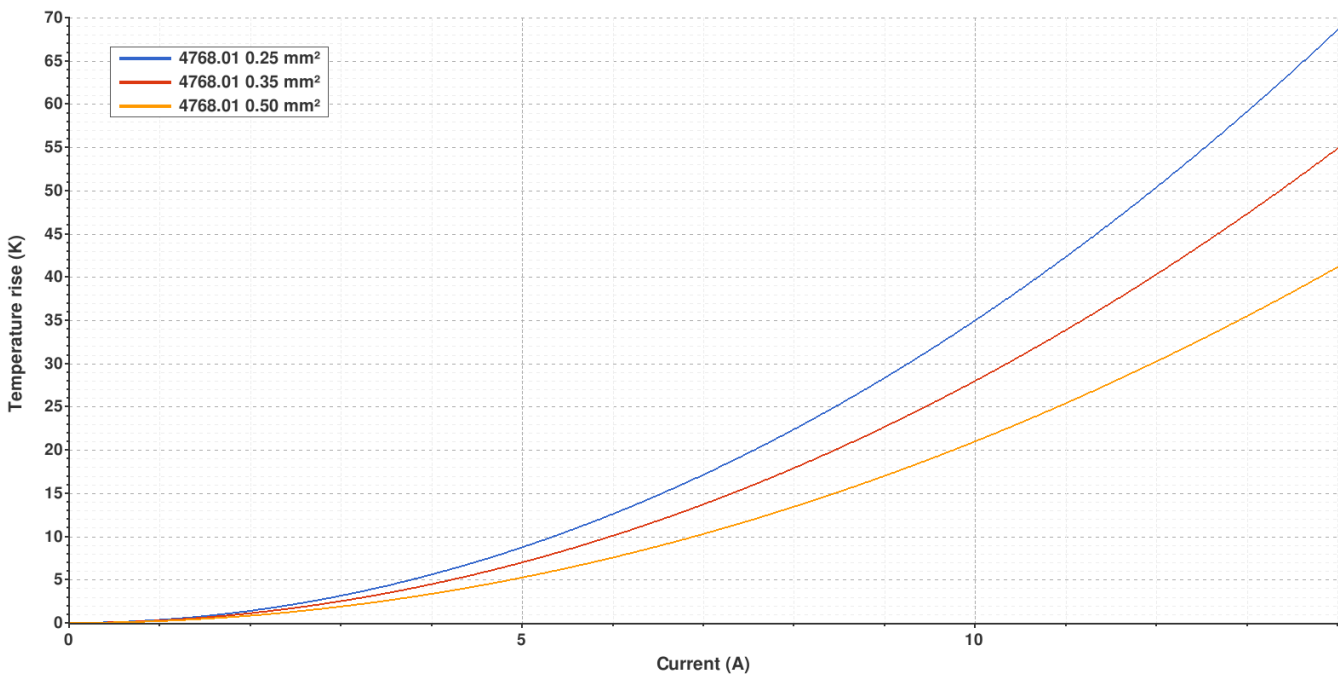


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Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried



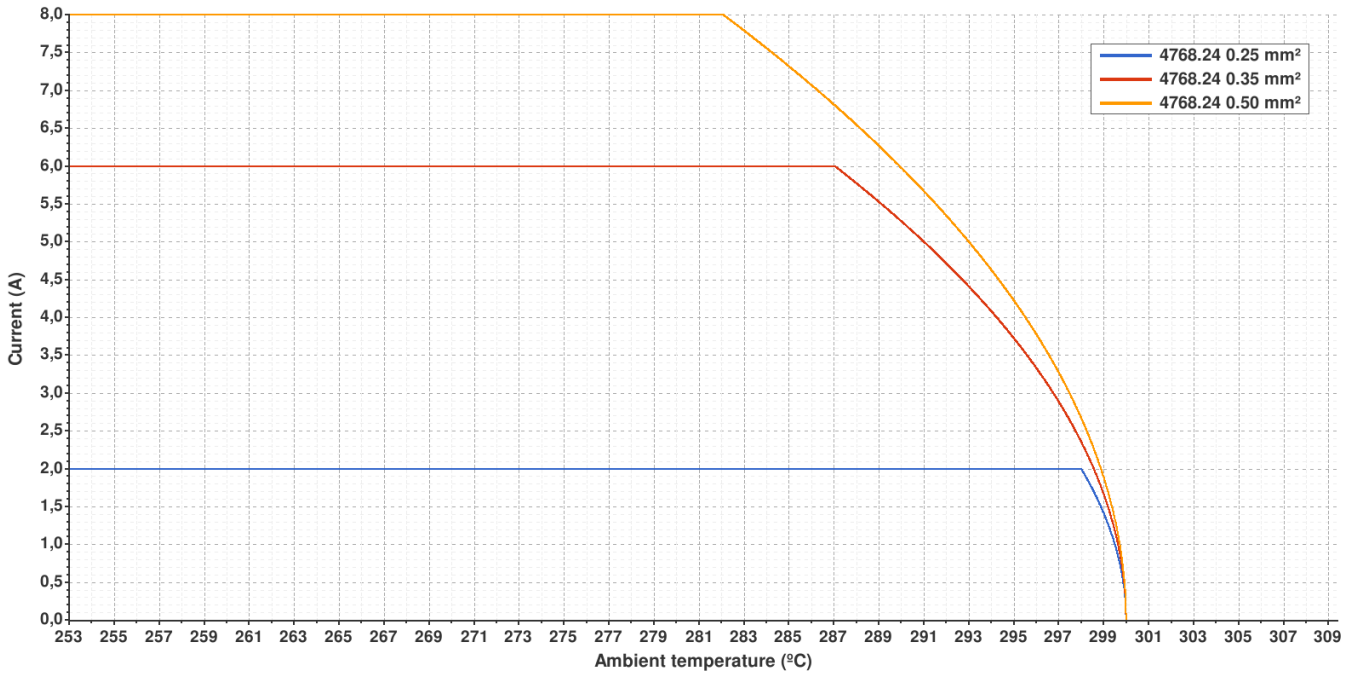
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4768.24 NICKEL-PLATED STEEL

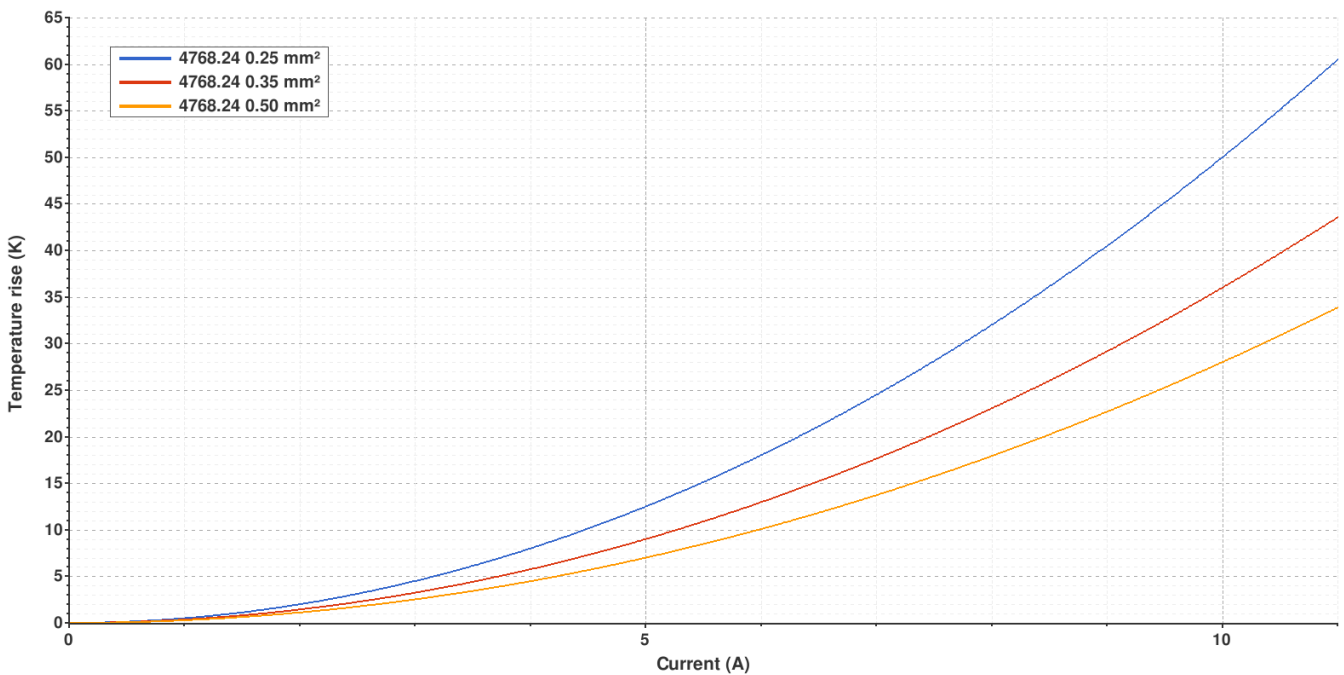


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Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried



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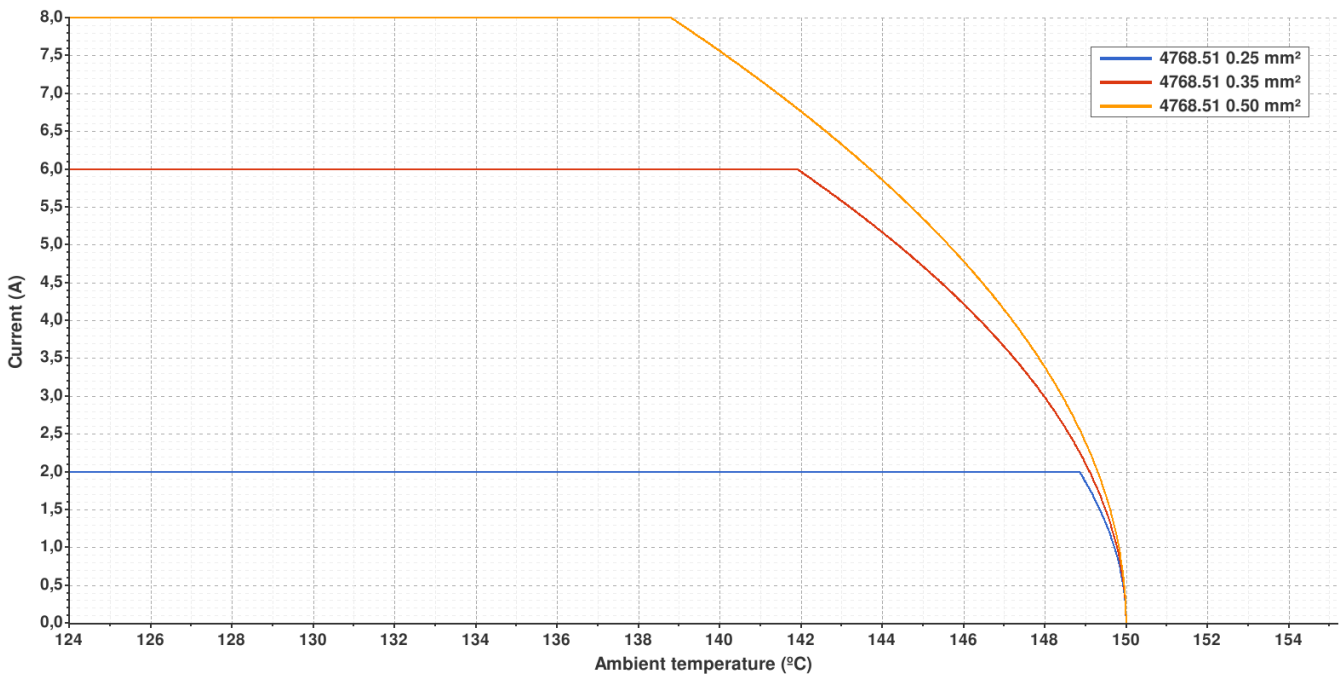
4768.51 PRE-TIN-PLATED CU. ALLOY



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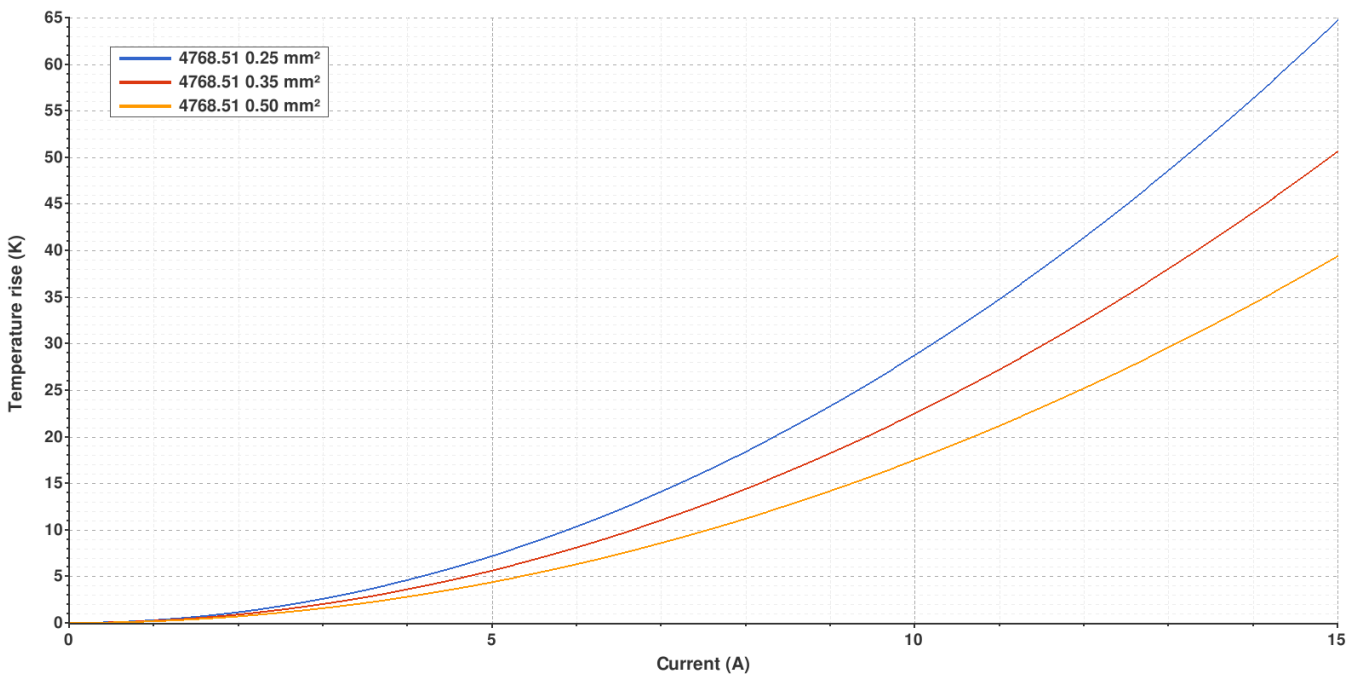
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



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Rev. Nr.	Concept	Date	Created/Revised	Approved
A4	Change company name and logo	2021-10-21	Laboratory Dept.	E. Roura
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