



**4943.\*\***

**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)** 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)
4943.00	Brass	Natural	110	1.50
4943.01	Brass	Pre-tin-plated	120	0.75
4943.24	Steel	Nickel-plated	300	2.50
4943.30	Bronze	Natural	120	1.25
4943.31	Bronze	Pre-tin-plated	130	0.75

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

**Max. rated current**

Wire section	4943.00 / 01 / 24 / 30 / 31
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**

	4943.00 / 01 / 30 / 31	4943.24
1st Insertion (max)	25N <sup>1</sup>	35N <sup>1</sup>
1st Withdrawal (max)	25N <sup>1</sup>	35N <sup>1</sup>
1st Withdrawal (min, locking enabled)	90N <sup>1</sup>	90N <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**

MN4943

**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)		
0.20 mm <sup>2</sup>	1.10 (±0.03)	1.95 (±0.03)	3.16 (±0.10)	28N @ 60s
0.25 mm <sup>2</sup>	1.15 (±0.03)	1.95 (±0.03)	3.15 (±0.10)	28N @ 60s
0.35 mm <sup>2</sup>	1.20 (±0.03)	1.95 (±0.03)	3.15 (±0.10)	40N @ 60s
0.50 mm <sup>2</sup>	1.25 (±0.03)	1.96 (±0.03)	3.14 (±0.10)	56N @ 60s
20 AWG	1.25	1.95	3.15	58N @ 60s
22 AWG	1.20	1.95	3.15	36N @ 60s
24 AWG	1.10	1.95	3.16	22,3N @ 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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**Compatible connectors** 26418\*\*, RS5412\*\*-K, RS5413\*\*-K

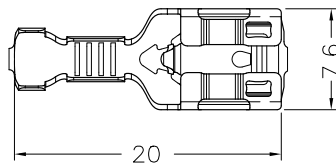
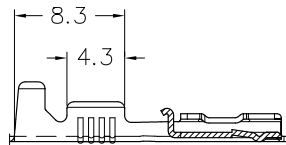
**Approved regulations**

Part nr.	Approval	Standard	File	Certified framework
4943.00	UL	UL 310	E211727	AWG 24-20 (MV-10 Stranded Cu) / MN4943
4943.01	UL	UL 310	E211727	AWG 24-20 (MV-10 Stranded Cu) / MN4943
4943.24	UL	UL 310	E211727	AWG 24-20 (MV-10 Stranded Cu) / MN4943

**Approvals**



**Drawing**





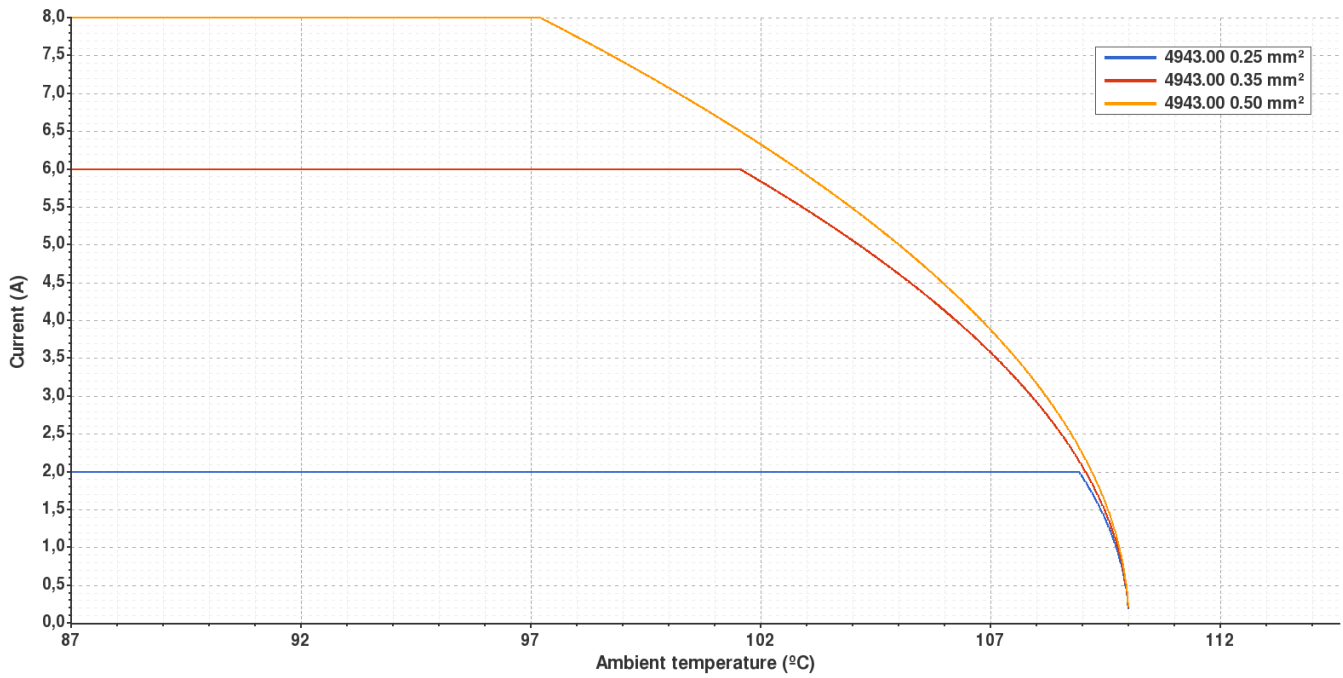
**4943.00 NATURAL BRASS**



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SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.

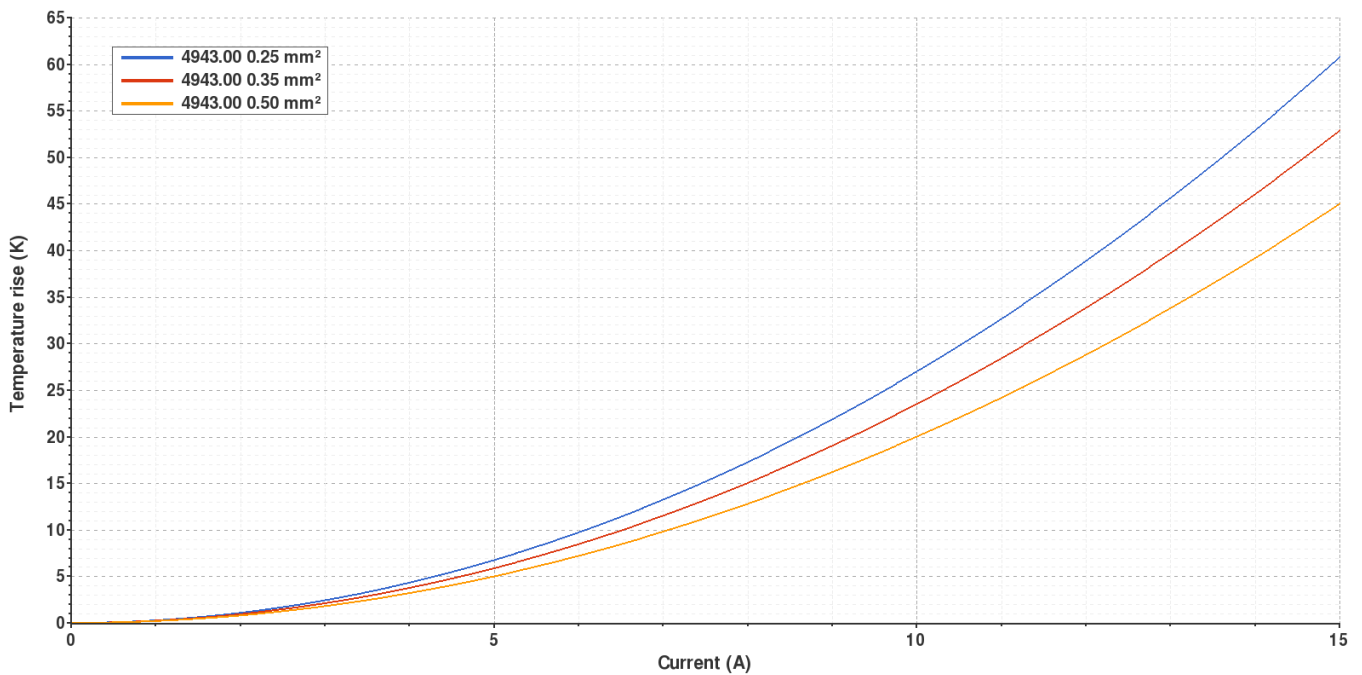
**Derating curve**

Current carrying capacity vs. Ambient temperature



**Temperature rise curve**

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab



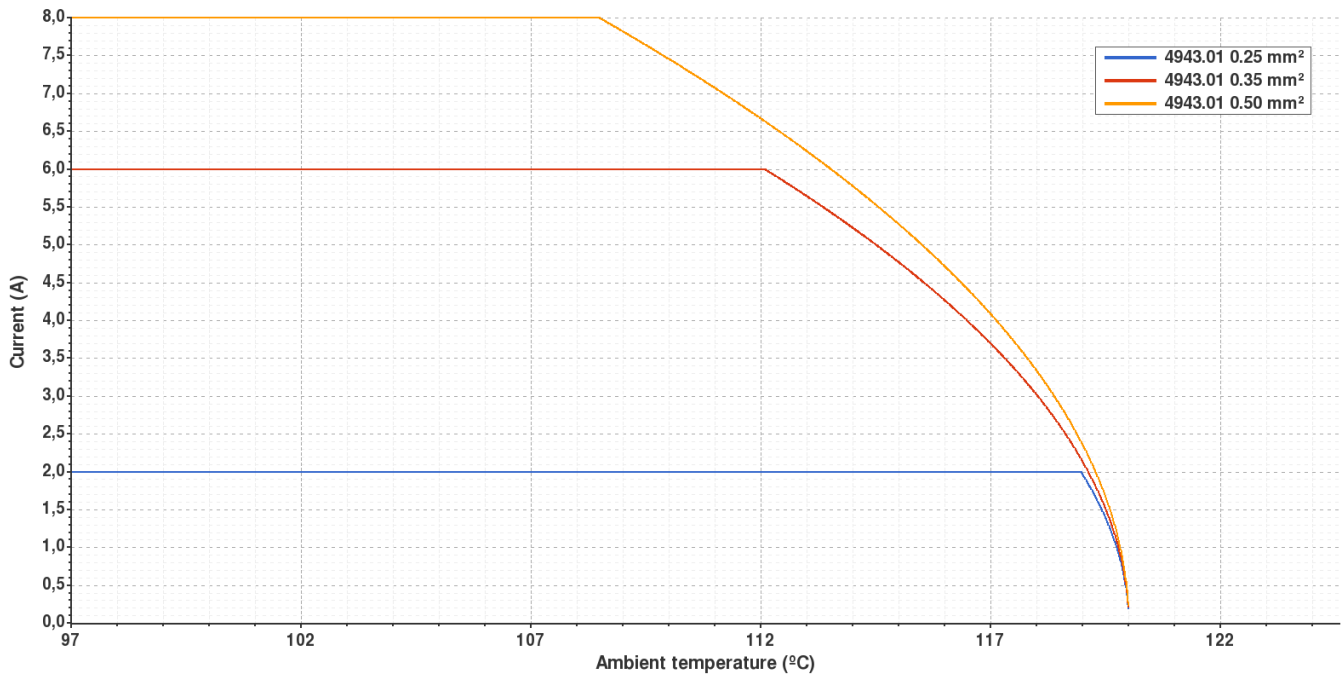
**4943.01 PRE-TIN-PLATED BRASS**



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SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.

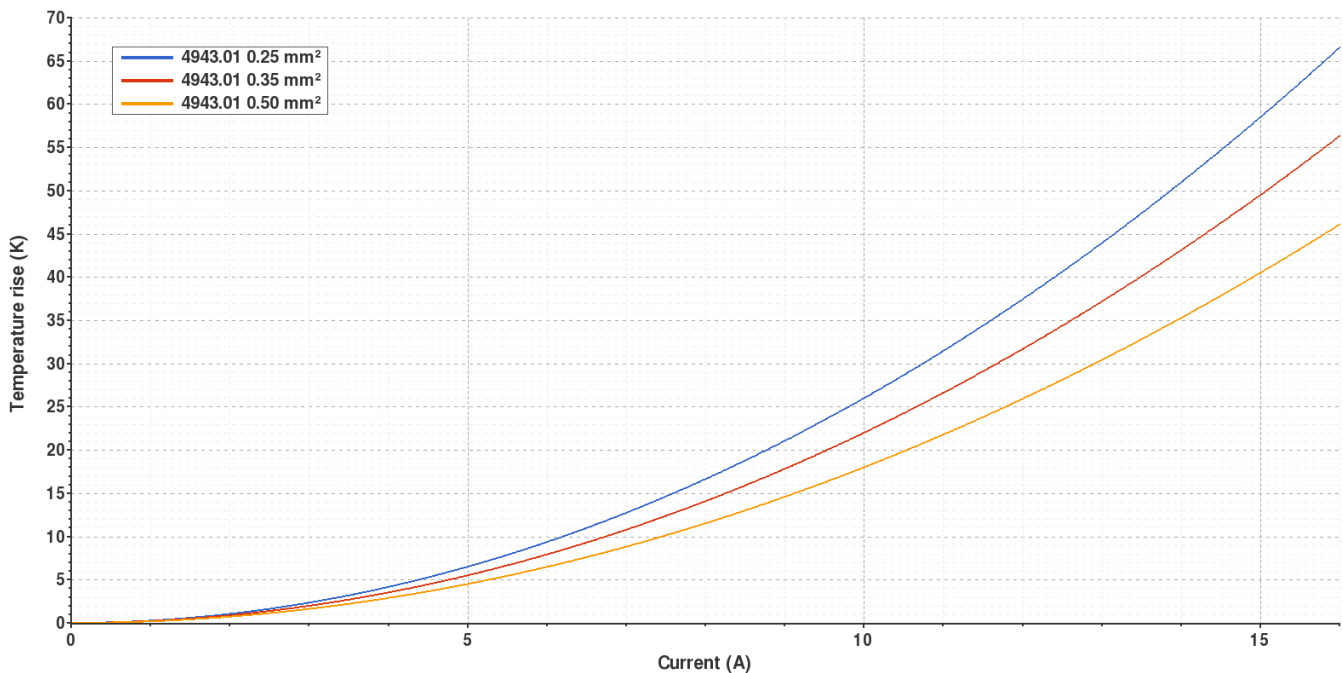
**Derating curve**

Current carrying capacity vs. Ambient temperature



**Temperature rise curve**

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab



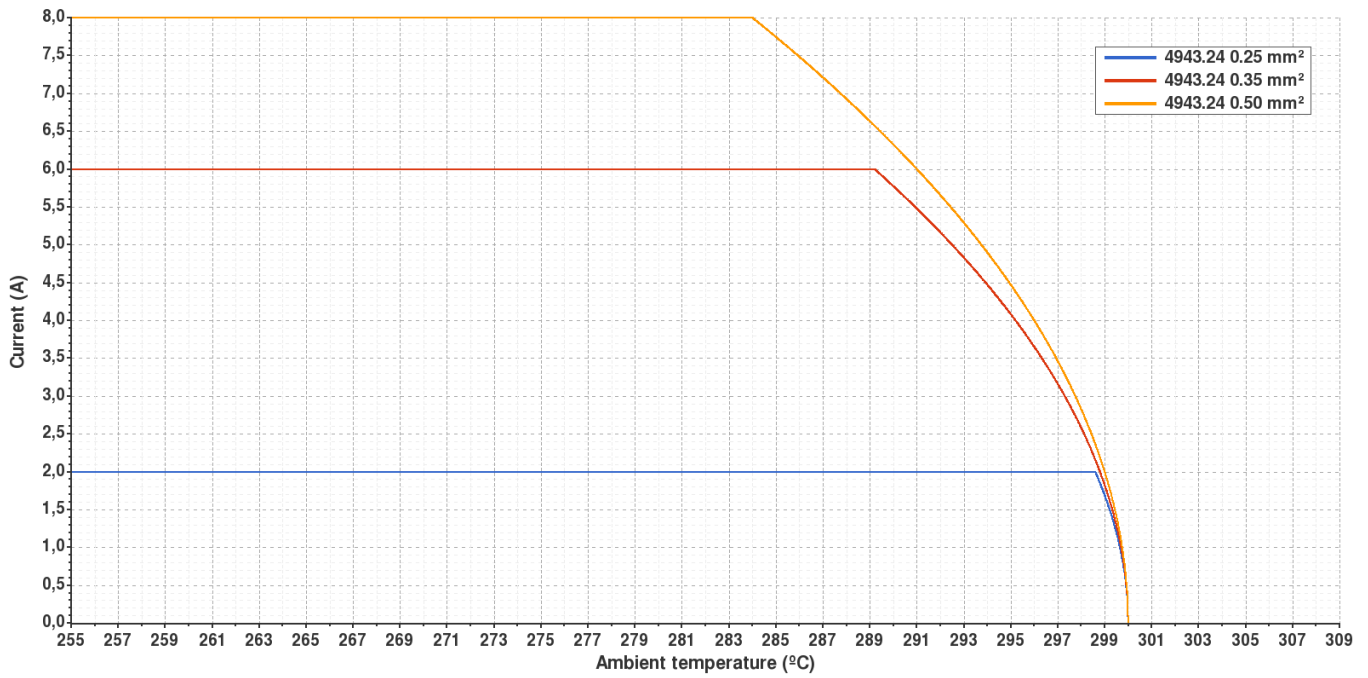
**4943.24 NICKEL-PLATED STEEL**



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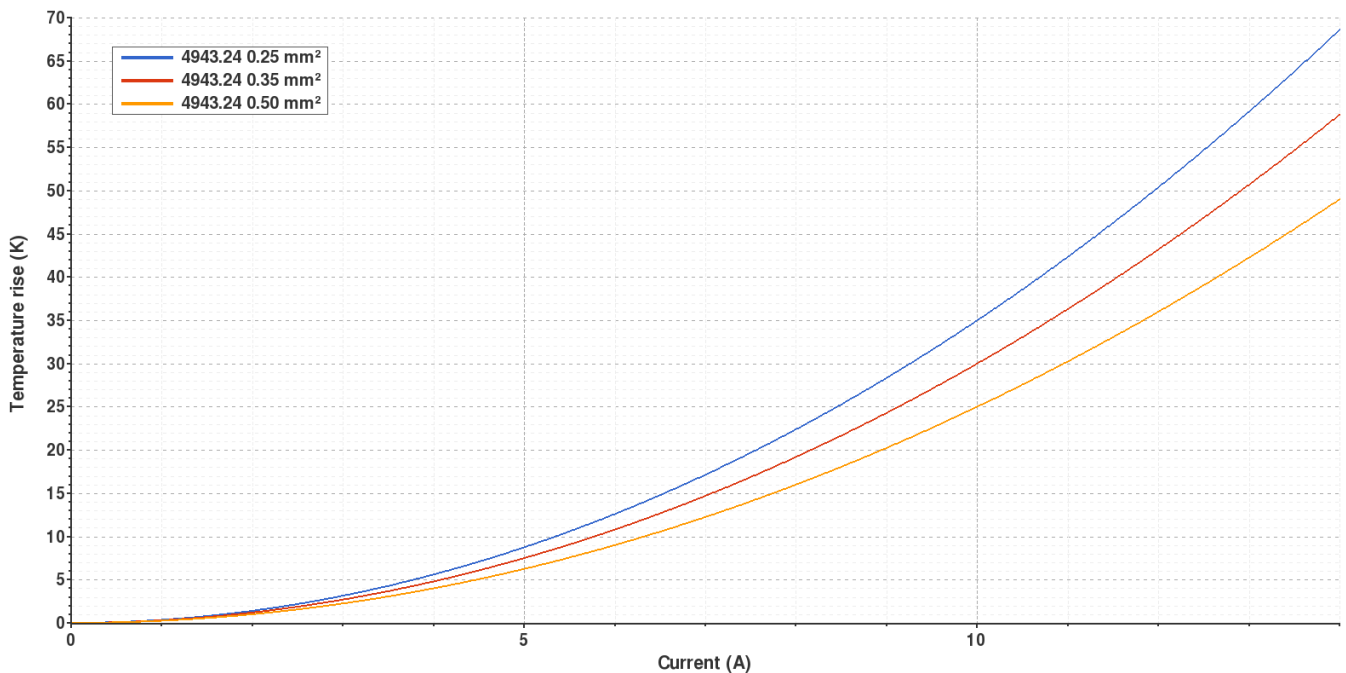
**Derating curve**

Current carrying capacity vs. Ambient temperature



**Temperature rise curve**

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab



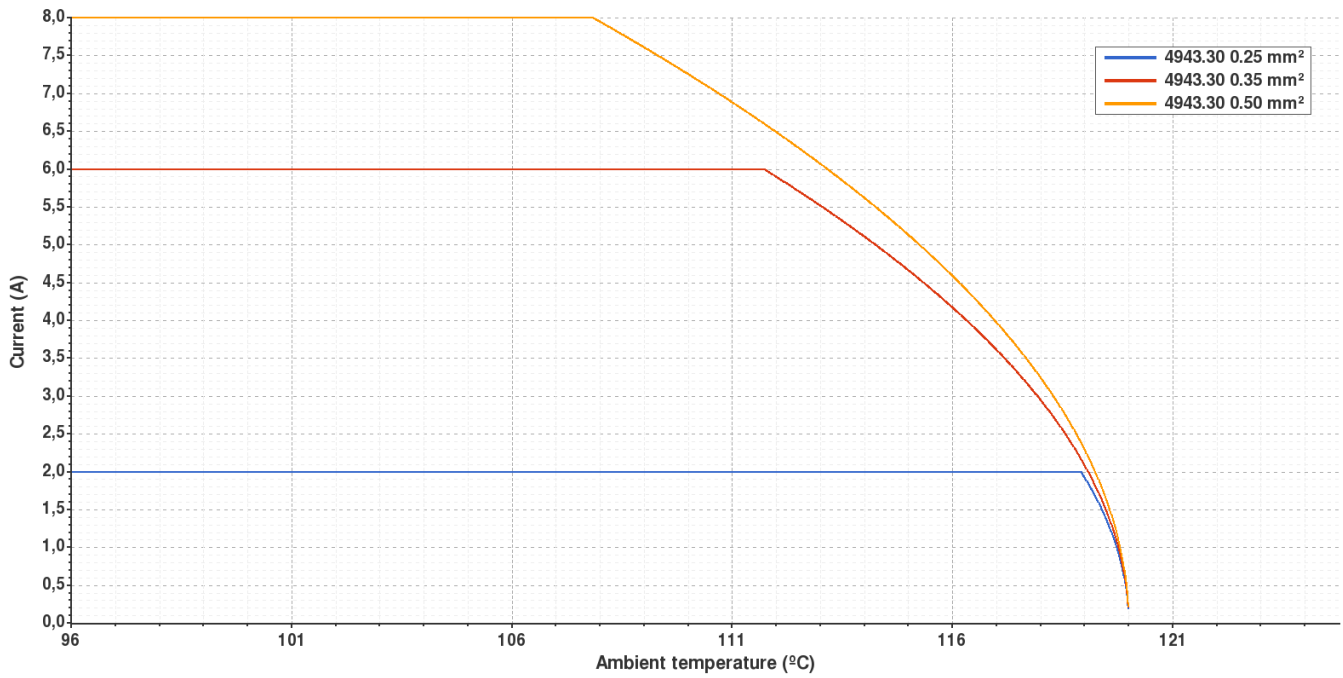
**4943.30 NATURAL BRONZE**



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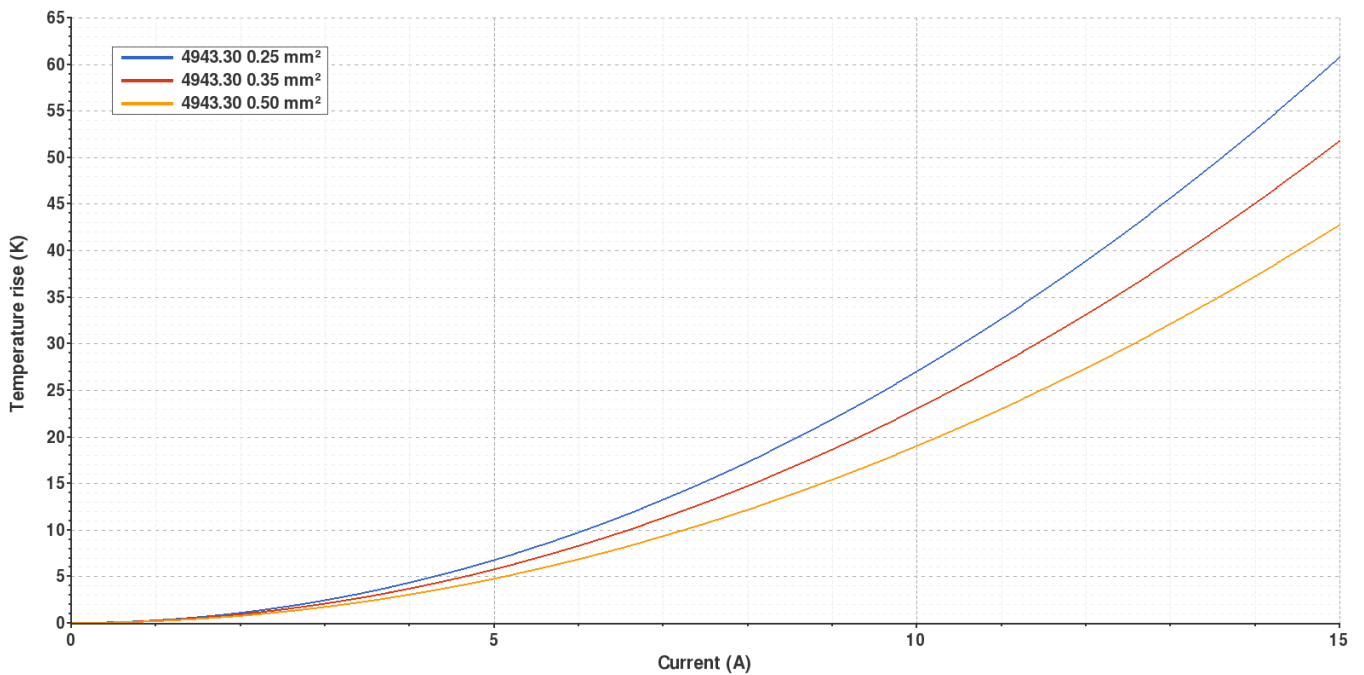
**Derating curve**

Current carrying capacity vs. Ambient temperature



**Temperature rise curve**

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab



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**Disclaimer**

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Rev. Nr.	Concept	Date	Created/Revised	Approved
A2	Update - Compatible connectors	2018-07-31	Laboratory Dept.	E. Roura
A1	Datasheet generated automatically [A1]	2018-07-31	Laboratory Dept.	E. Roura