



**4831.\*\***  
**6.3 (.250) TYPE SERIES · RECEPTACLES**



**Specification** Low insertion

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

**Wire size mm<sup>2</sup> (AWG)** 0,5-1,5 (20-16)

**Ø Insulation (mm)** 2-3,3

**Materials, temperature and contact resistance**

Part nr.	Material	Finishing	Max. Temp. (°C)	Contact Resist (mΩ)
4831.00	Brass	Natural	110	0.80
4831.01	Brass	Pre-tin-plated	120	0.60
4831.02	Brass	Tin plated	120	0.65
4831.24	Steel	Nickel-plated	300	2.50
4831.30	Bronze	Natural	120	1.00
4831.31	Bronze	Pre-tin-plated	130	0.70
4831.32	Bronze	Tin plated	130	0.75
4831.51	Cu. Alloy	Pre-tin-plated	150	(T.B.D.)
4831.70	German Silver	Natural	210	3.00

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

**Max. rated current**

Wire section	4831.00 / 01 / 02 / 24 / 30 / 31 / 32 / 51 / 70
0.50 mm <sup>2</sup>	8A
0.75 mm <sup>2</sup>	10A
1.00 mm <sup>2</sup>	12A
1.50 mm <sup>2</sup>	16A

**Insertion / Withdrawal forces**


	4831.00 / 30 / 70	4831.01 / 02 / 24 / 31 / 32 / 51
1st Insertion (max)	35N <sup>1</sup>	35N <sup>1</sup>
1st Withdrawal (max)	60N <sup>1</sup>	60N <sup>1</sup>
1st Withdrawal (min)	27N <sup>1</sup>	22N <sup>1</sup>
6th Withdrawal (min)	22N <sup>1</sup>	18N <sup>1</sup>

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

**Application tool** MN4831

**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)	Width (mm)	
0.50 mm <sup>2</sup>	1.40 (±0.03)	2.65 (±0.03)	2.66 (±0.10)	56N @ 60s
0.75 mm <sup>2</sup>	1.50 (±0.05)	2.66 (±0.05)	2.67 (±0.10)	84N @ 60s
1.00 mm <sup>2</sup>	1.60 (±0.05)	2.67 (±0.05)	2.68 (±0.10)	108N @ 60s
1.50 mm <sup>2</sup>	1.70 (±0.05)	2.69 (±0.05)	2.68 (±0.10)	150N @ 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** 8000

**Compatible connectors** 26314\*\*



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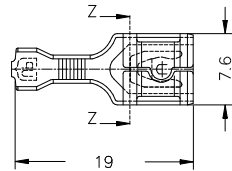
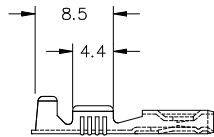
**Approved regulations**

Part nr.	Approval	Standard	File	Certified framework
4831.01	VDE	EN 61210	5000955-1433-0001 / 17165 / F310 / GRE	0,5 ... 1,5mm <sup>2</sup> . 120°C max
4831.24	UL	UL 310	E211727	AWG 20-16 (10-26 Stranded Cu) / MN4831
4831.24	VDE	EN 61210	5000955-1433-0001 / 17166 / F310 / GRE	0,5 ... 1,5mm <sup>2</sup> . 200°C max

**Approvals**



**Drawing**



Secc. Z-Z

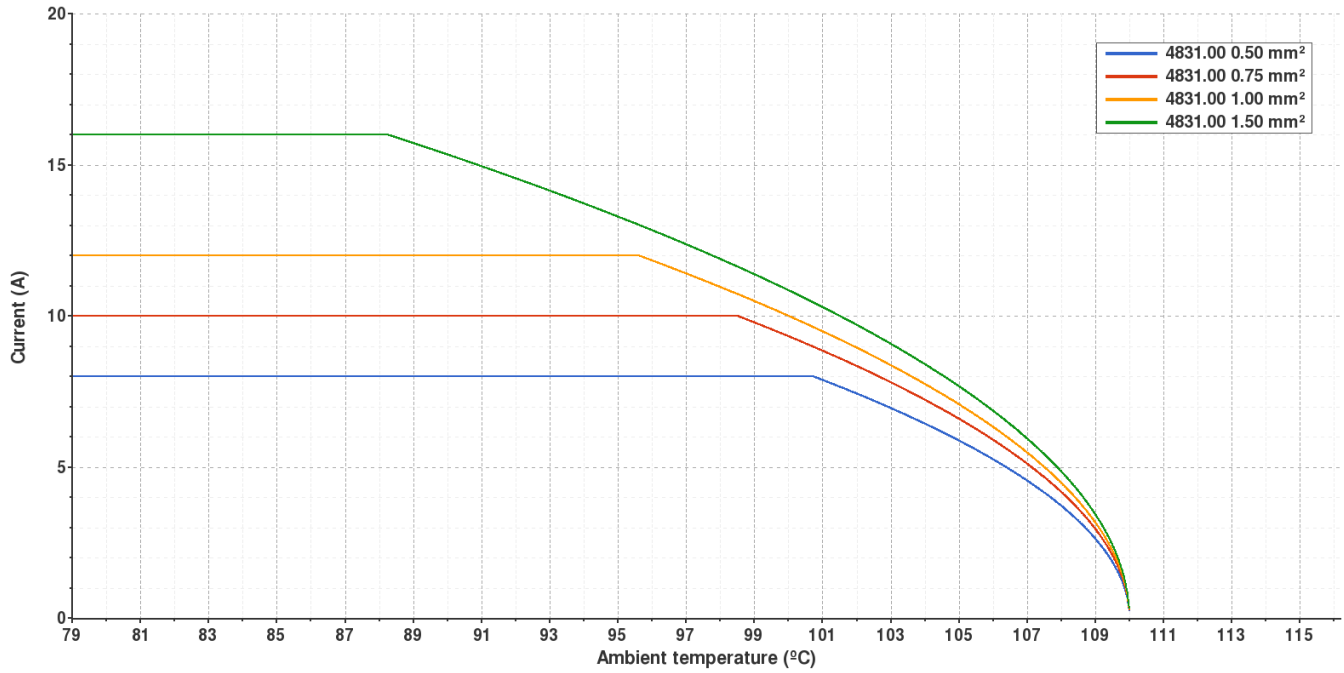




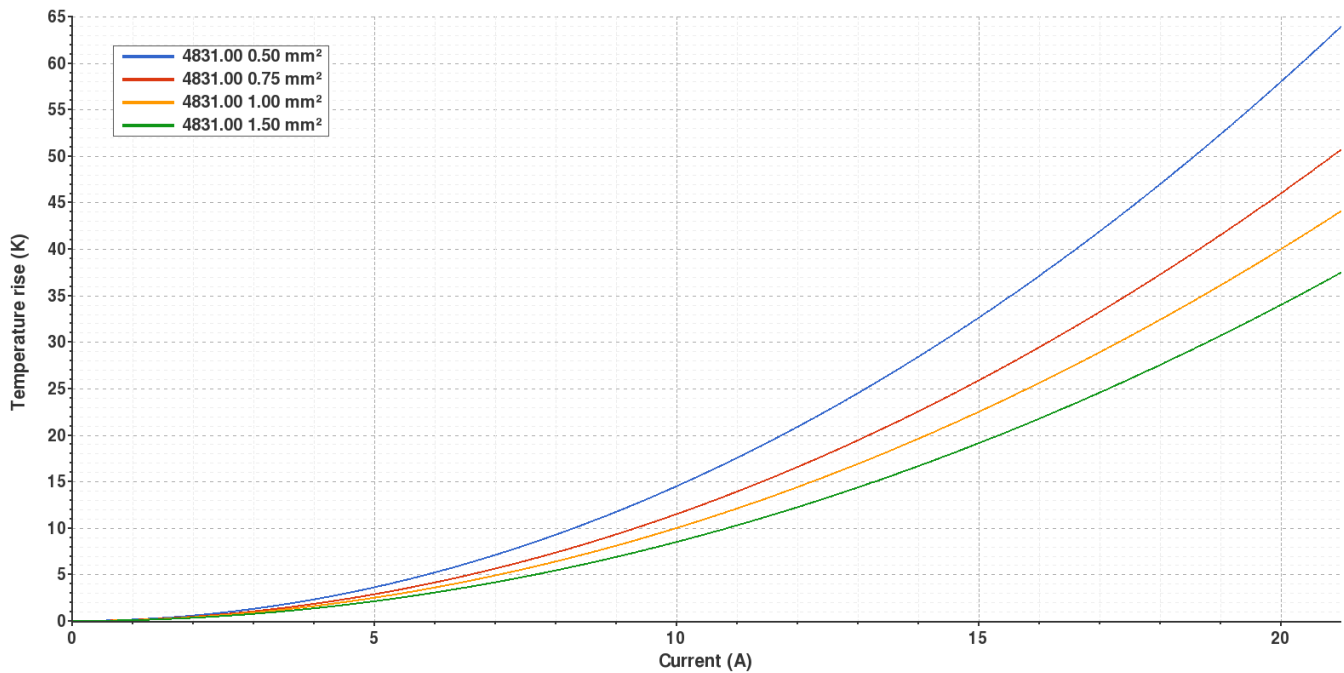
**4831.00 NATURAL BRASS**  
**6.3 (.250) TYPE SERIES · RECEPTACLES**



**Derating curve** Current carrying capacity vs. Ambient temperature



**Temperature rise curve** Terminal temperature rise due to the current carried



Valid for Natural Brass Tab

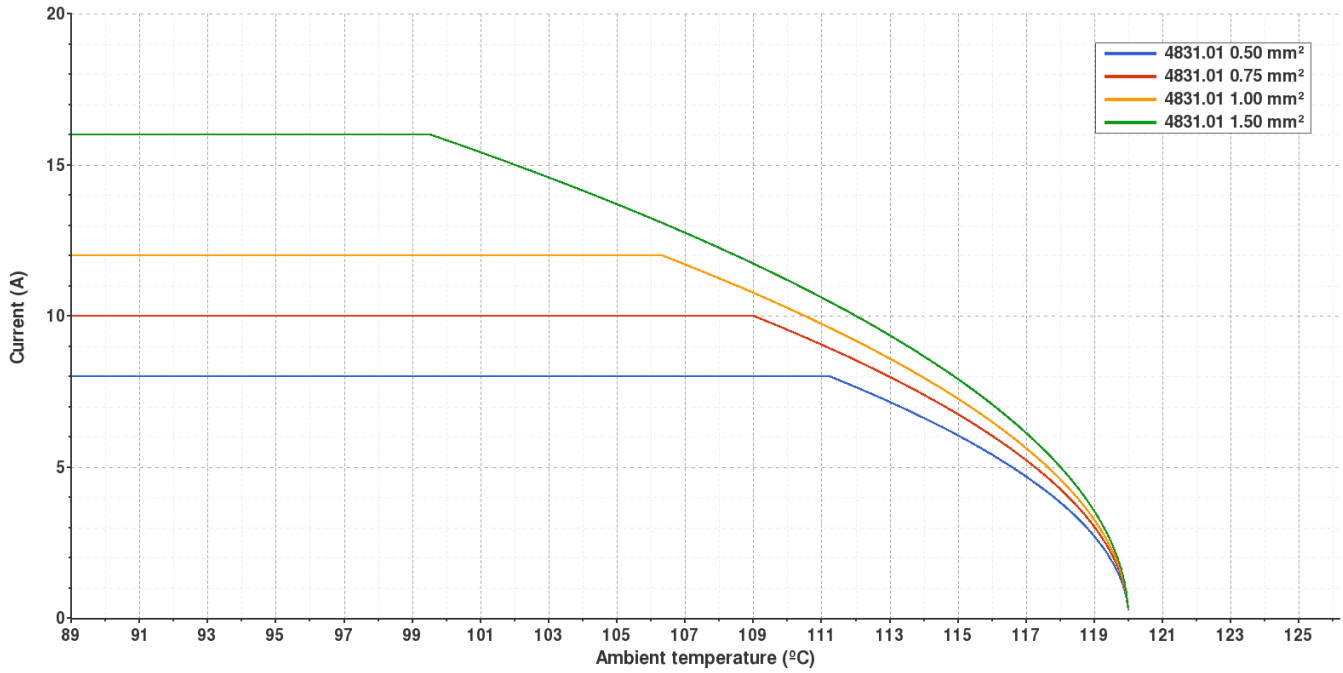


**4831.01 PRE-TIN-PLATED BRASS**  
**6.3 (.250) TYPE SERIES · RECEPTACLES**



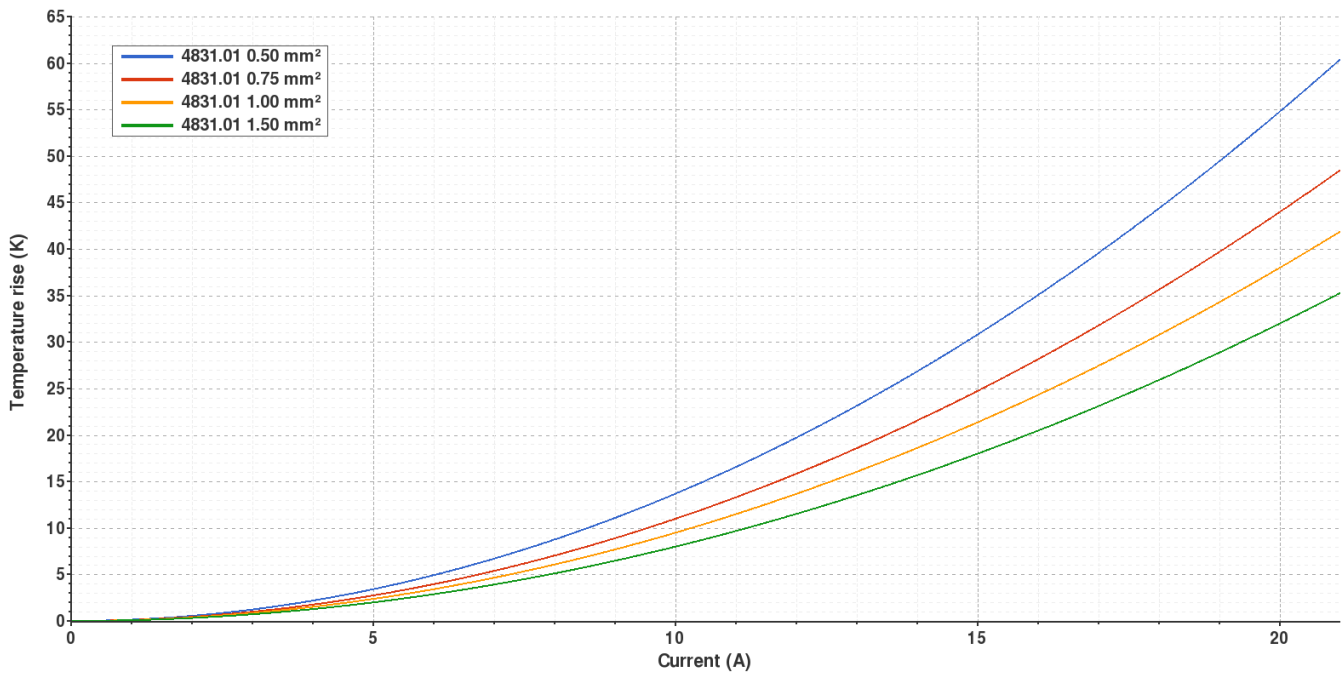
**Derating curve**

Current carrying capacity vs. Ambient temperature



**Temperature rise curve**

Terminal temperature rise due to the current carried



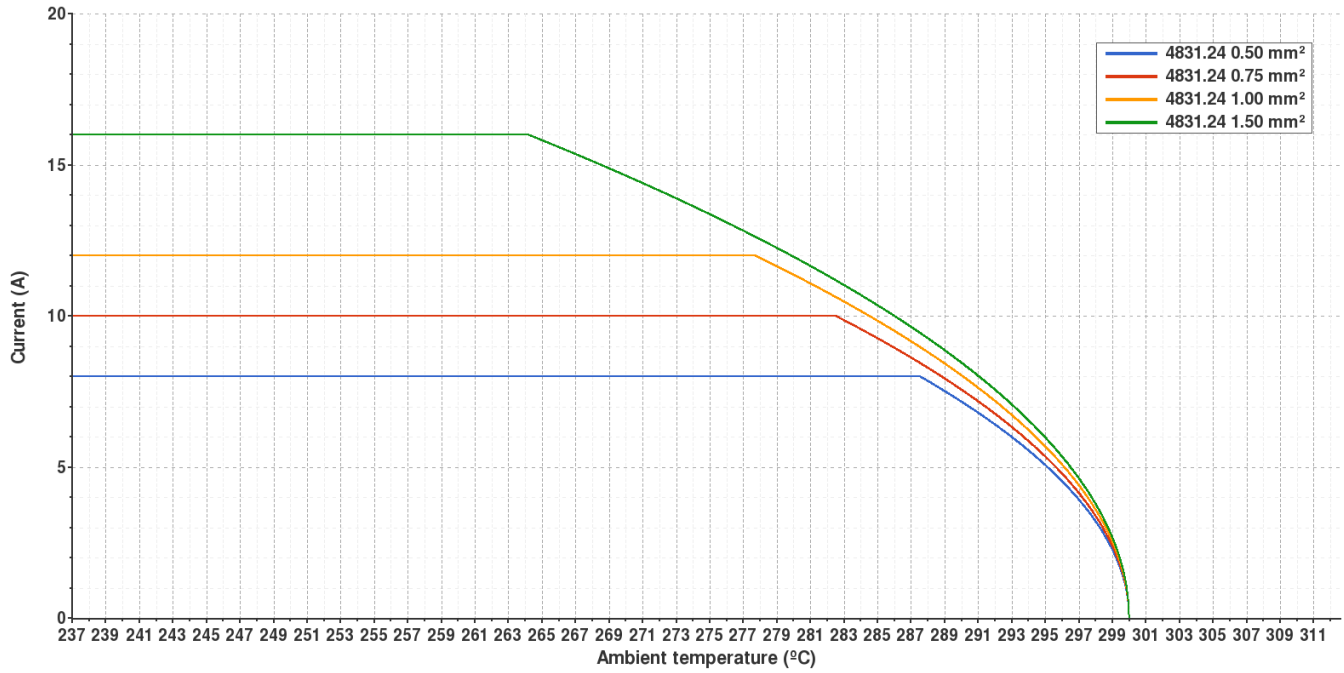
Valid for Natural Brass Tab



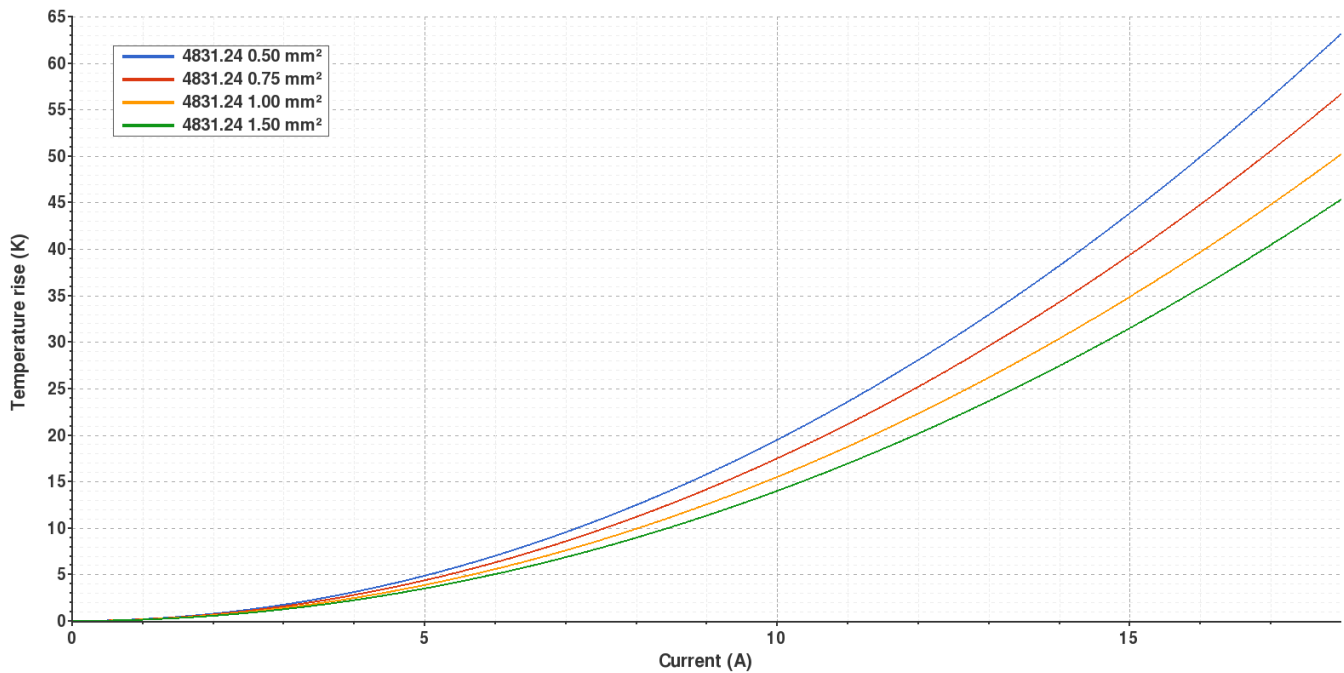
**4831.24 NICKEL-PLATED STEEL**  
**6.3 (.250) TYPE SERIES · RECEPTACLES**



**Derating curve** Current carrying capacity vs. Ambient temperature



**Temperature rise curve** Terminal temperature rise due to the current carried



Valid for Natural Brass Tab

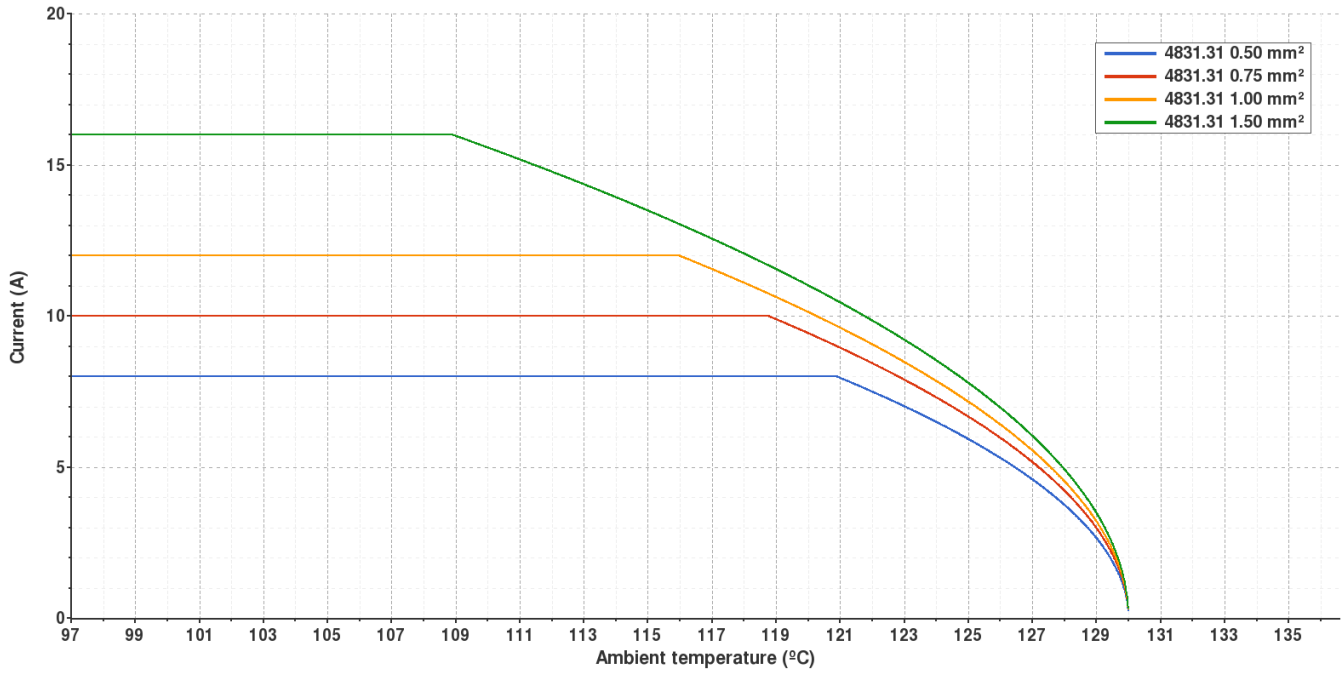


**4831.31 PRE-TIN-PLATED BRONZE**  
**6.3 (.250) TYPE SERIES · RECEPTACLES**



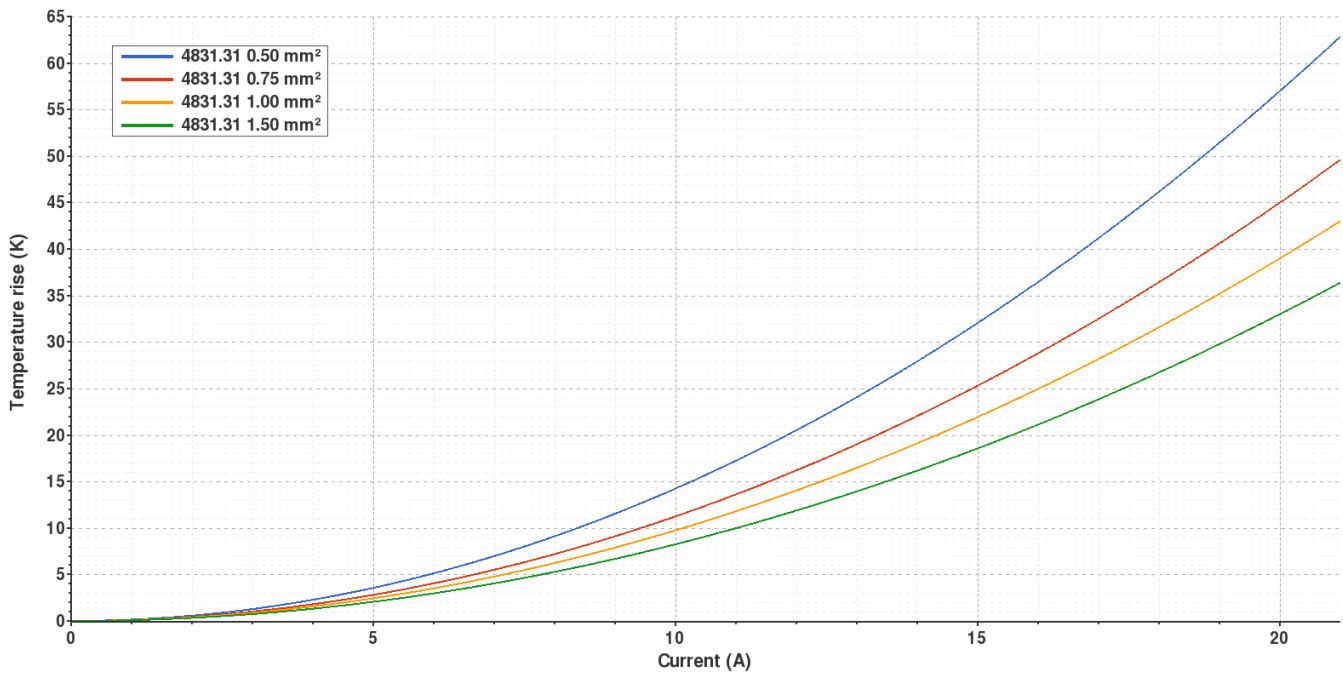
**Derating curve**

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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(T.B.D.): To be determined

**Disclaimer**

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Rev. Nr.	Concept	Date	Created/Revised	Approved
A4	Update Insertion / Withdrawal forces	2019-12-11	Laboratory Dept.	E. Roura
A3	Update crimp specifications	2019-09-30	Laboratory Dept.	E. Roura
A2	Update de-rating curves	2018-11-08	Laboratory Dept.	E. Roura
A1	Datasheet generated automatically [A1]	2018-08-06	Laboratory Dep.t	E. Roura