

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



Specification	Low insertion
For male (mm)	6,3x0,8
Wire size mm² (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
4831.30	Bronze	Natural	120	1.00
4831.31	Bronze	Pre-tin-plated	130	0.70
4831.32	Bronze	Tin plated	130	0.75
4831.24	Steel	Nickel-plated	300	2.50
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 / 30 / 31 / 32 / 24 / 51 / 70
0.50 mm ²	8A
0.75 mm ²	10A
1.00 mm ²	12A
1.50 mm ²	16A

Insertion / Withdrawal forces

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

¹ 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 ²	1.40 (±0.03)	2.65 (±0.03)	3.65 (±0.10)	56N @ 60s
0.75 mm ²	1.50 (±0.05)	2.66 (±0.05)	3.66 (±0.10)	84N @ 60s
1.00 mm ²	1.60 (±0.05)	2.67 (±0.05)	3.67 (±0.10)	108N @ 60s
1.50 mm ²	1.70 (±0.05)	2.69 (±0.05)	3.69 (±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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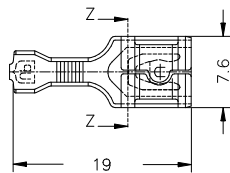
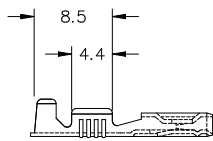
Approved regulations

Part nr.	Approval	Standard	File	Certified framework
4831.00	UL	UL 310	E211727	AWG 20-16 (10-26 Stranded Cu) / MN4831
4831.01	UL	UL 310	E211727	AWG 20-16 (10-26 Stranded Cu) / MN4831
4831.01	VDE	EN 61210	5000955-1433-0001 / 17165 / F310 / GRE	0,5 ... 1,5mm ² . 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 ² . 200°C max

Approvals



Drawing



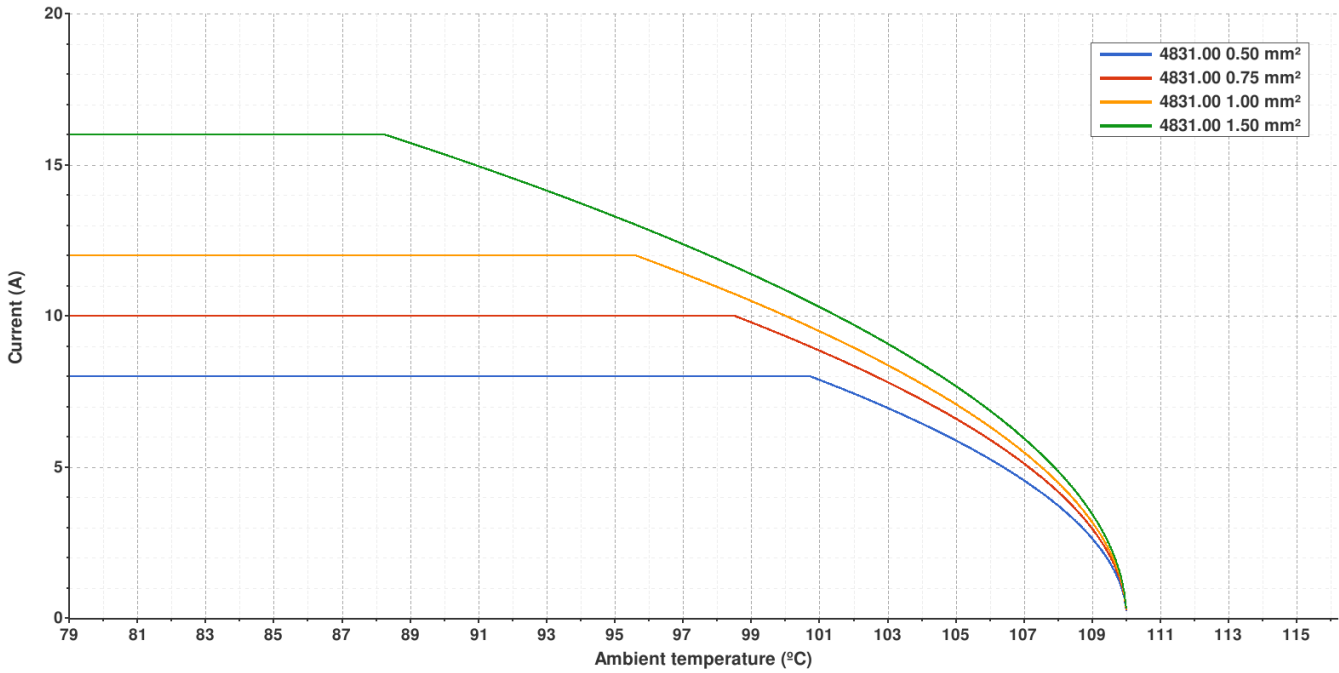
Secc. Z-Z



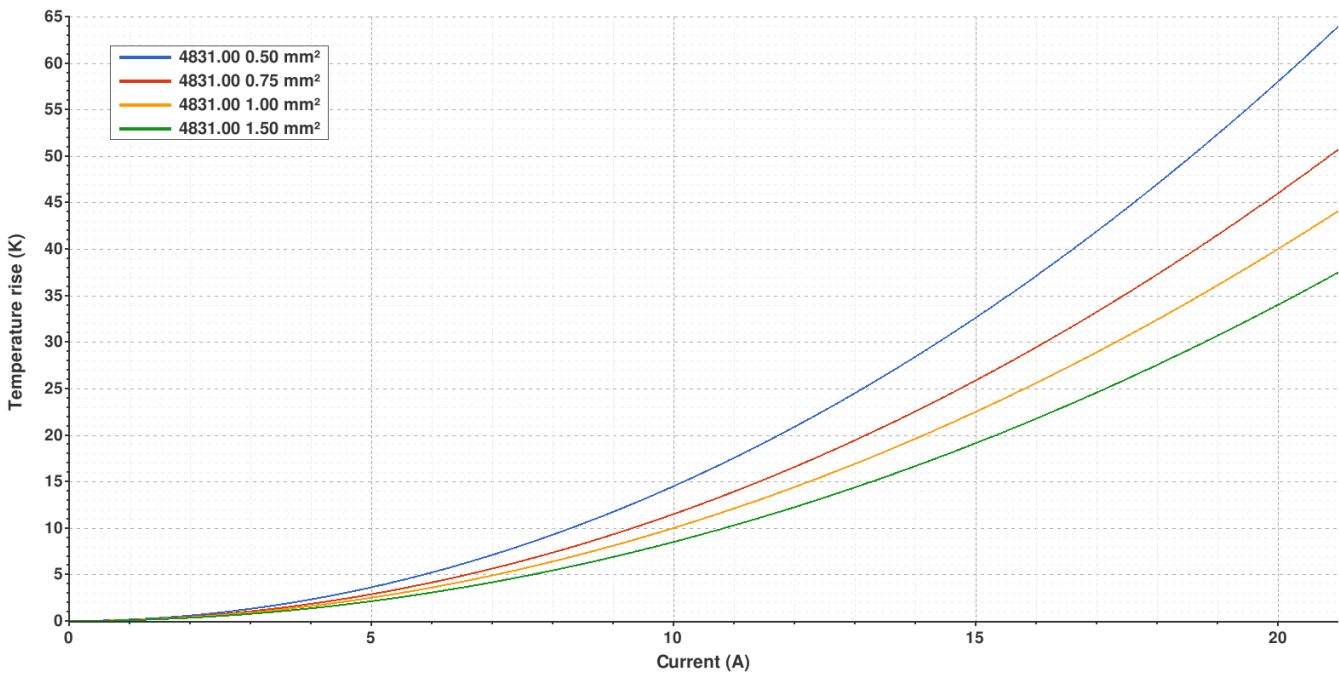
4831.00 NATURAL BRASS
6.3 (.250) TYPE SERIES · RECEPTACLES



Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

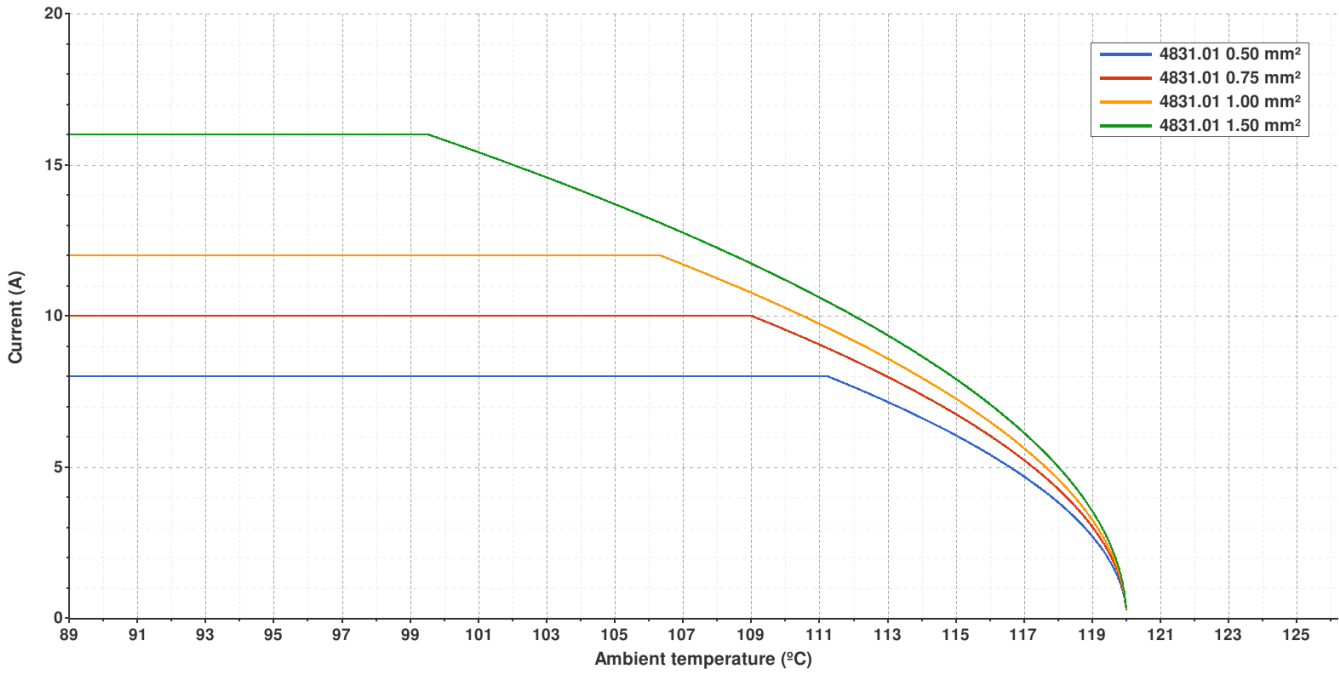


Valid for Natural Brass Tab

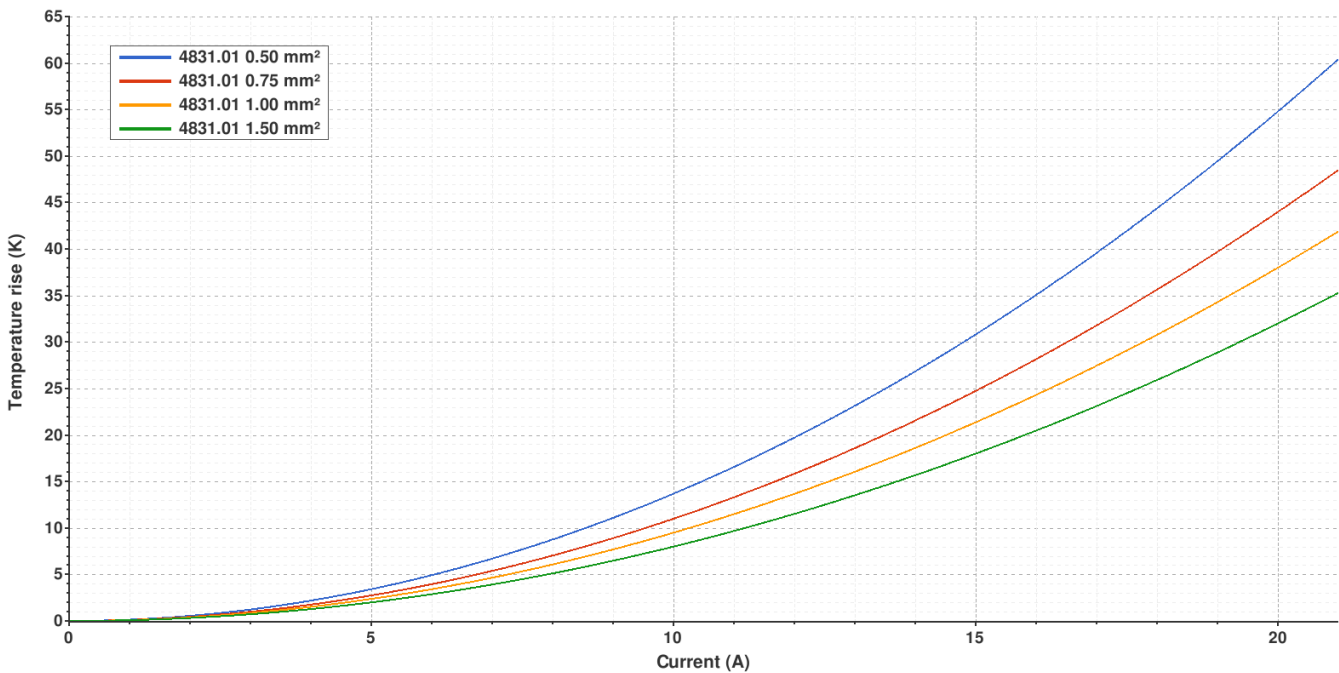
4831.01 PRE-TIN-PLATED BRASS
6.3 (.250) TYPE SERIES · RECEPTACLES



Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

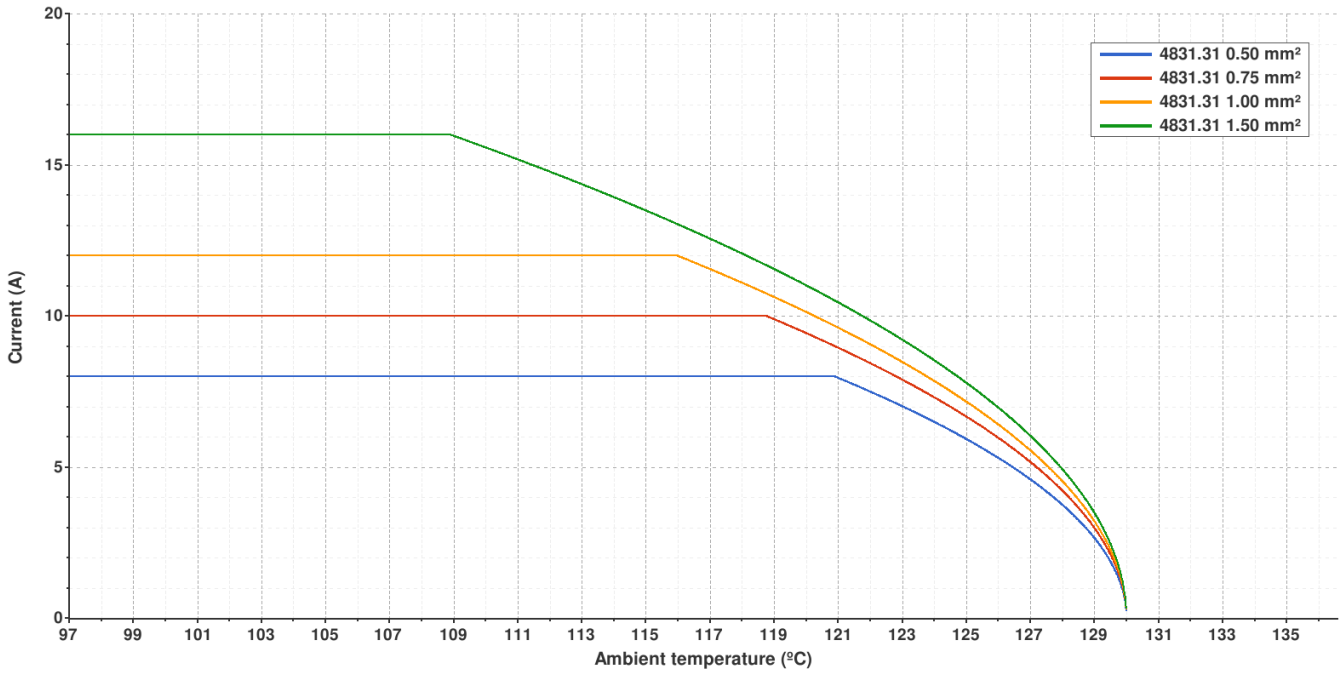


Valid for Natural Brass Tab

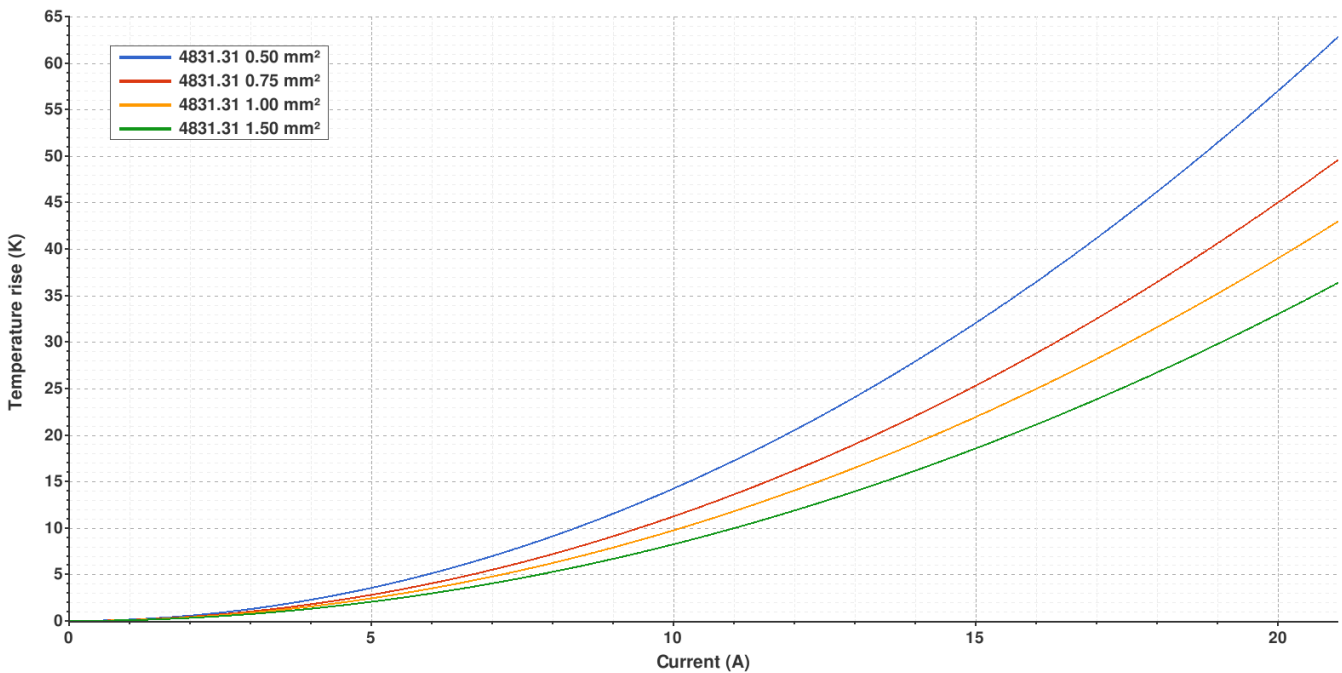
4831.31 PRE-TIN-PLATED BRONZE
6.3 (.250) TYPE SERIES · RECEPTACLES



Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

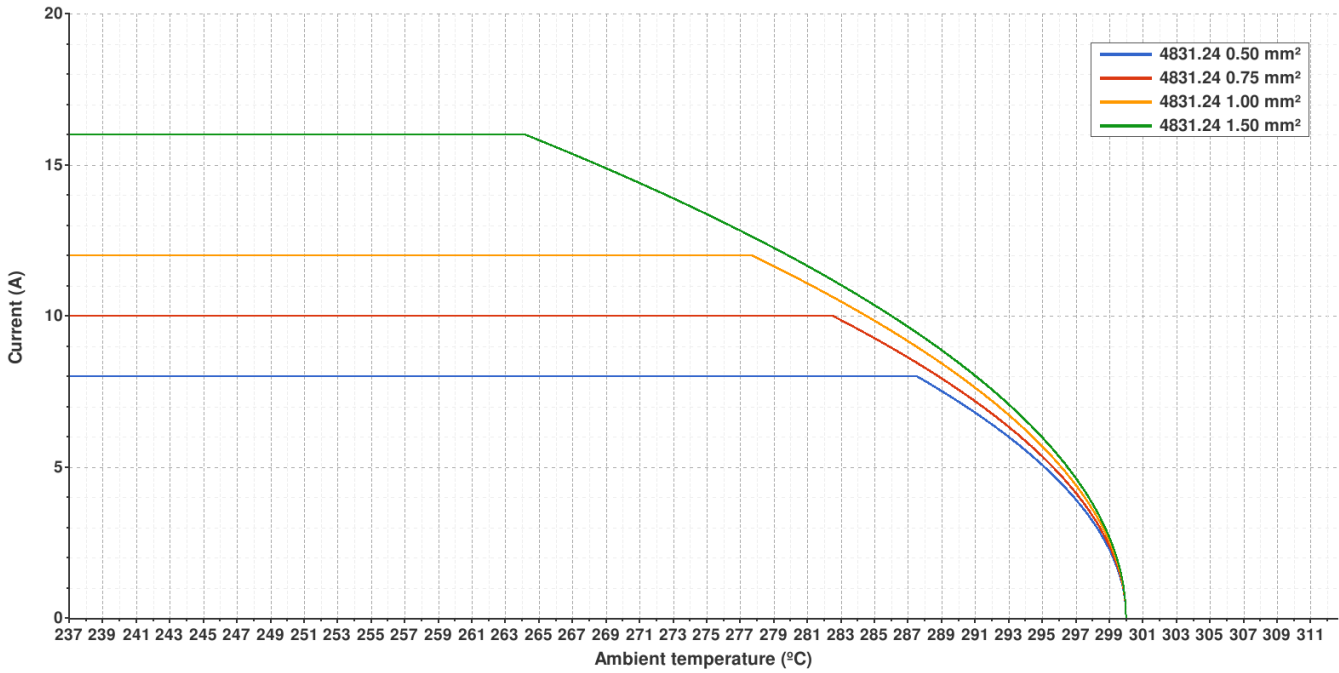


Valid for Natural Brass Tab

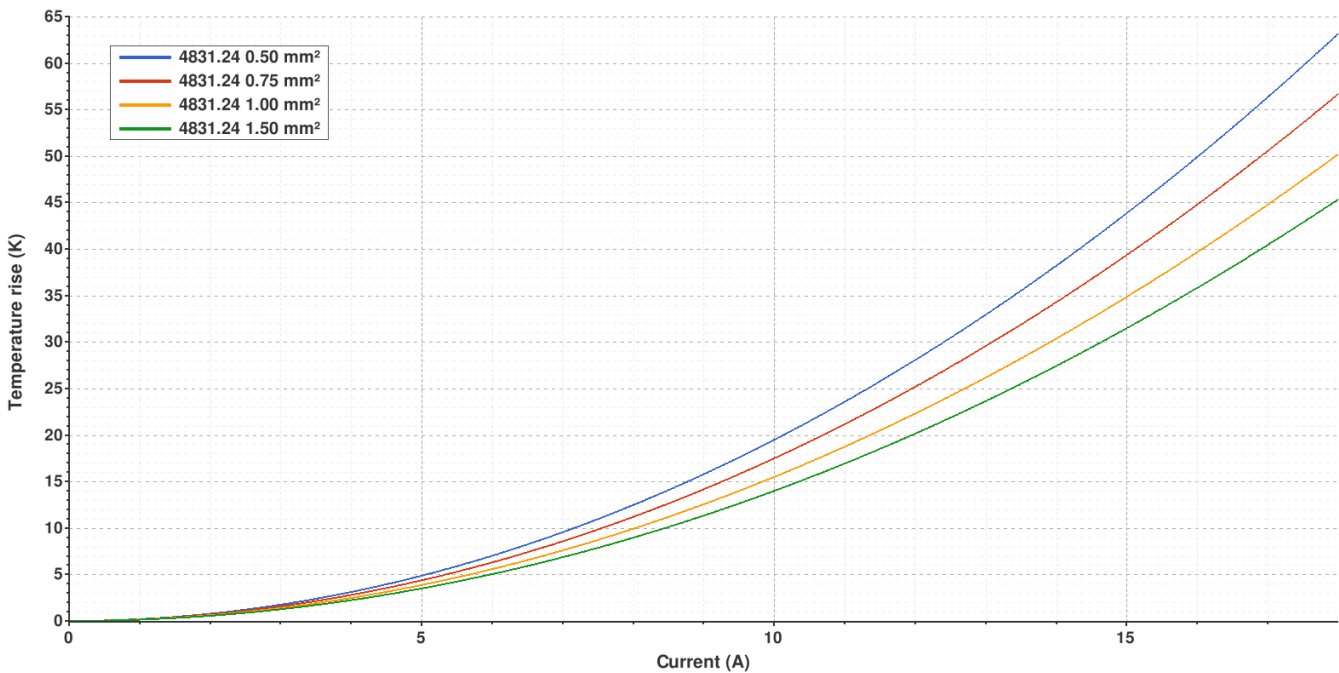
4831.24 NICKEL-PLATED STEEL
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Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried



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

Disclaimer

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Rev. Nr.	Concept	Date	Created/Revised	Approved
A7	Update standards and regulations	2023-11-16	E. Roura [Laboratory dept.]	D. Yabar [Engineering dept.]
A6	Correction - crimp width specifications	2022-02-07	Laboratory Dept.	E. Roura (Laboratory Dept.)
A5	Change company name and logo	2021-10-21	Laboratory Dept.	E. Roura
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 Dept.	E. Roura