

4931.** 6.3 (.250) TYPE SERIES · RECEPTACLES



Specification Basic self locking under TP design

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)
4931.00	Brass	Natural	110	0.75
4931.01	Brass	Pre-tin-plated	120	0.50
4931.02	Brass	Tin plated	120	0.55
4931.30	Bronze	Natural	120	(T.B.D.)
4931.31	Bronze	Pre-tin-plated	130	0.60
4931.32	Bronze	Tin plated	130	(T.B.D.)
4931.24	Steel	Nickel-plated	300	2.00
4931.70	German Silver	Natural	210	2.25

Material thickness (mm) 0,4

Max. rated current

Wire section	4931.00 / 01 / 02 / 30 / 31 / 32 / 24 / 70
0.50 mm ²	8A
0.75 mm ²	10A
1.00 mm ²	12A
1.50 mm ²	16A

Insertion / Withdrawal forces


	4931.00 / 01 / 02 / 30 / 31 / 32	4931.24 / 70
1st Insertion (max)	35N ¹	35N ¹
1st Withdrawal (min, locking enabled)	90N ¹	70N ¹

¹ Valid for Natural Brass Tab

Application tool MN4931

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)		
0.50 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

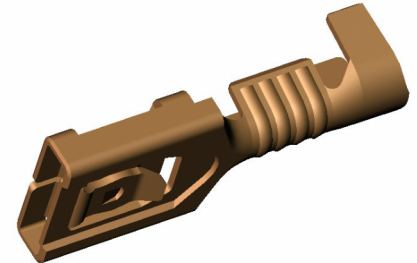
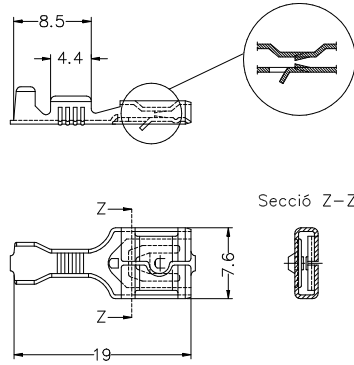
Approvals



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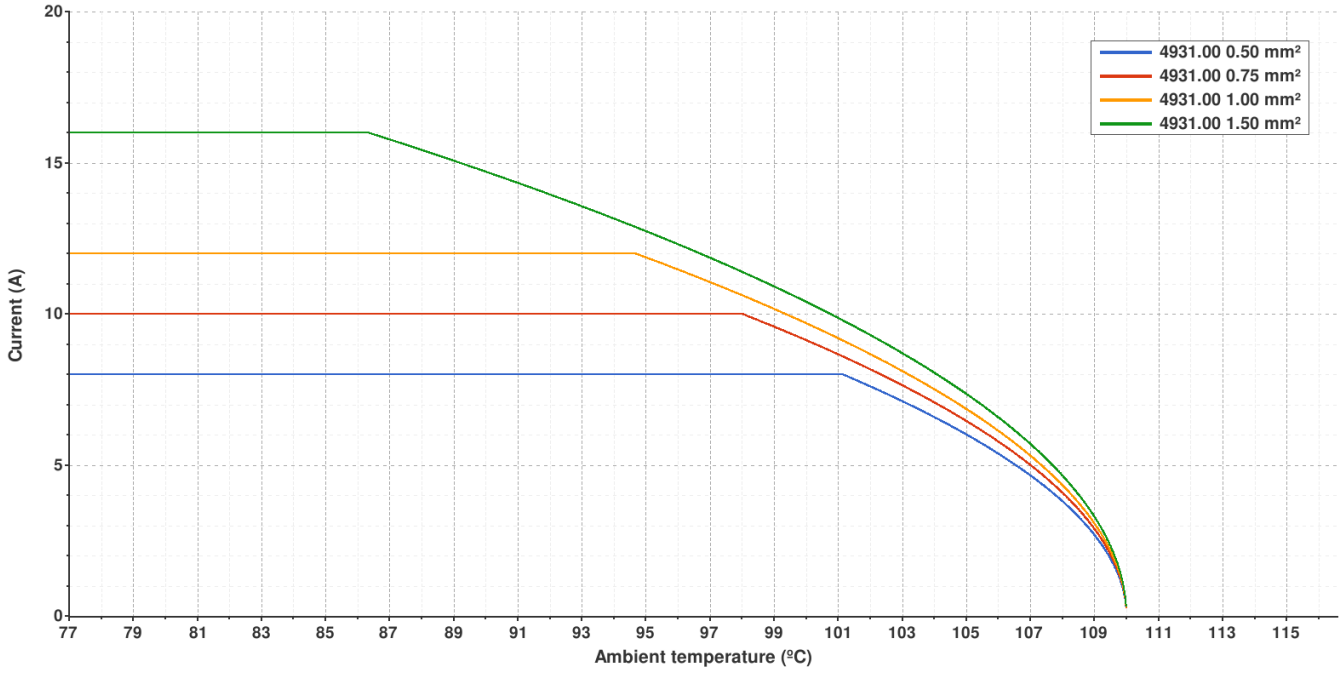
Drawing



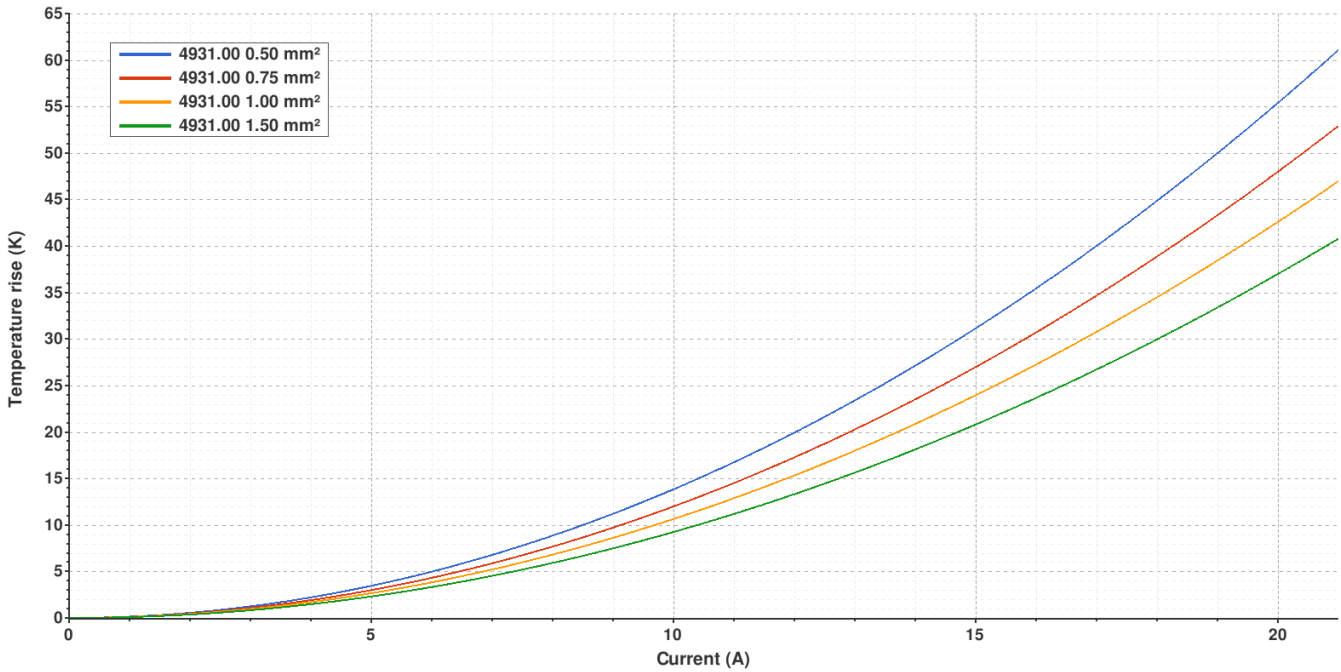
4931.00 NATURAL BRASS
6.3 (.250) TYPE SERIES · RECEPTACLES



Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

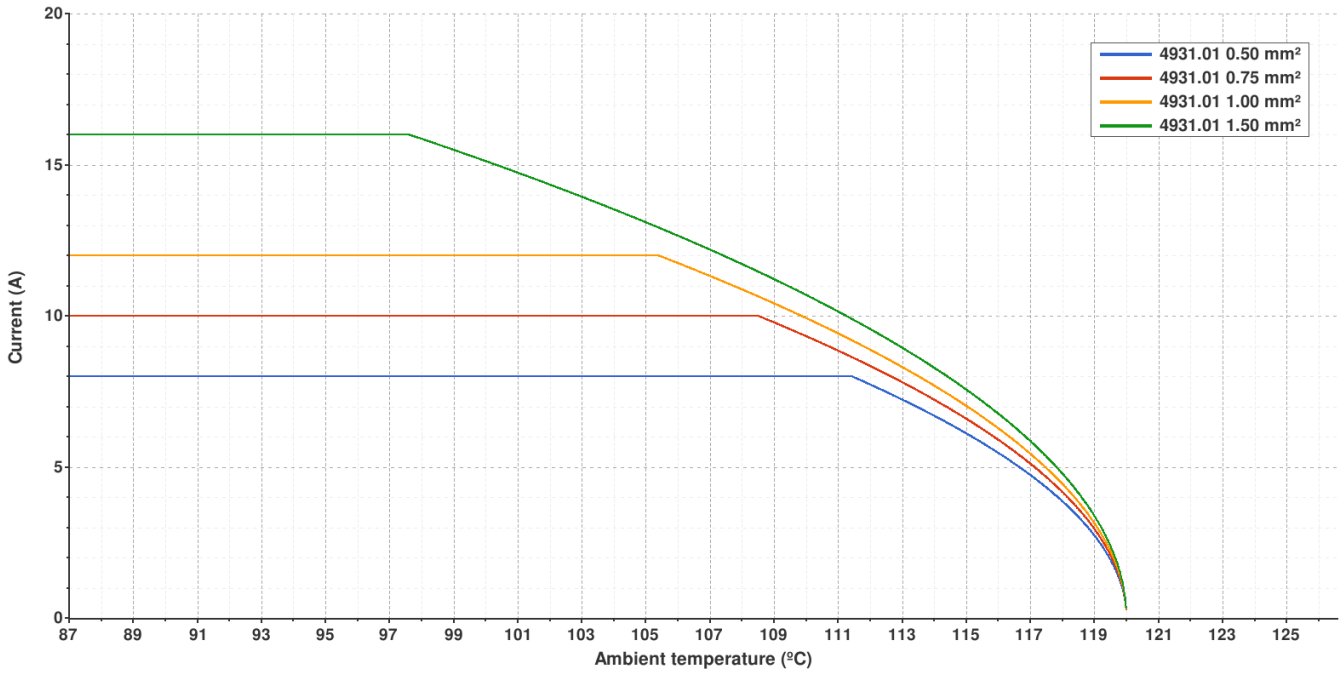


Valid for Natural Brass Tab

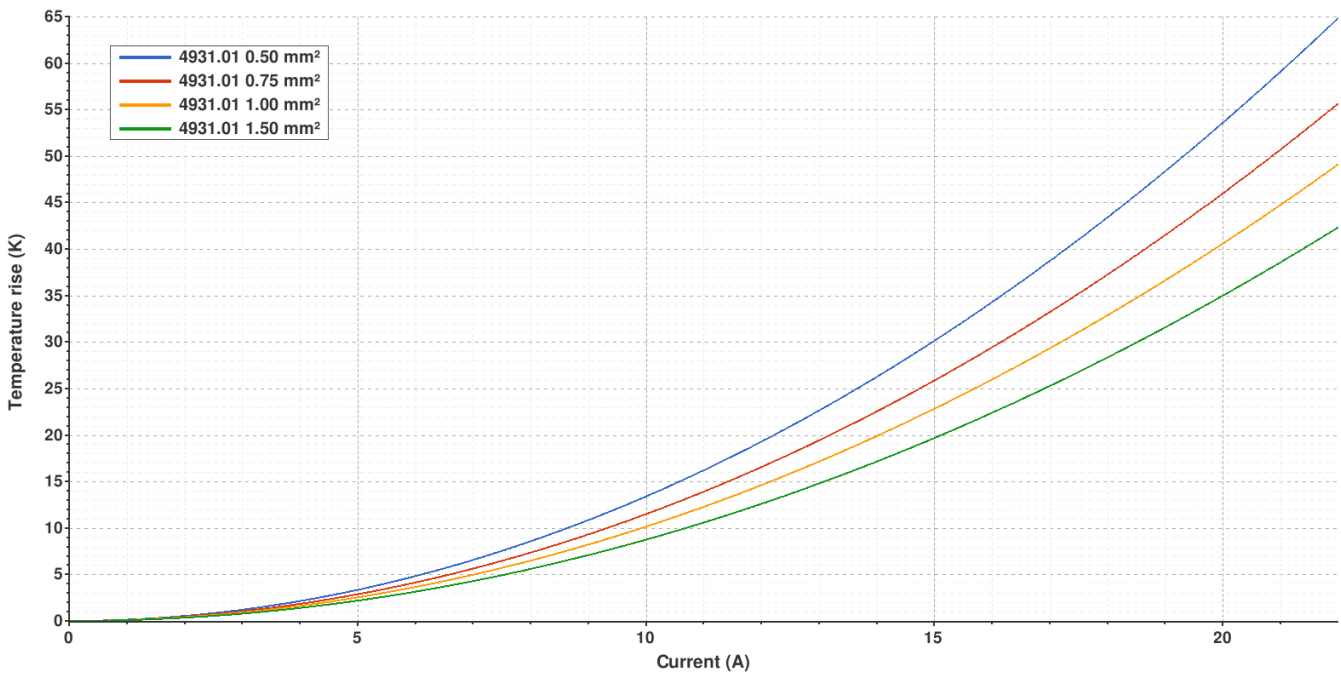
4931.01 PRE-TIN-PLATED BRASS
6.3 (.250) TYPE SERIES · RECEPTACLES



Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

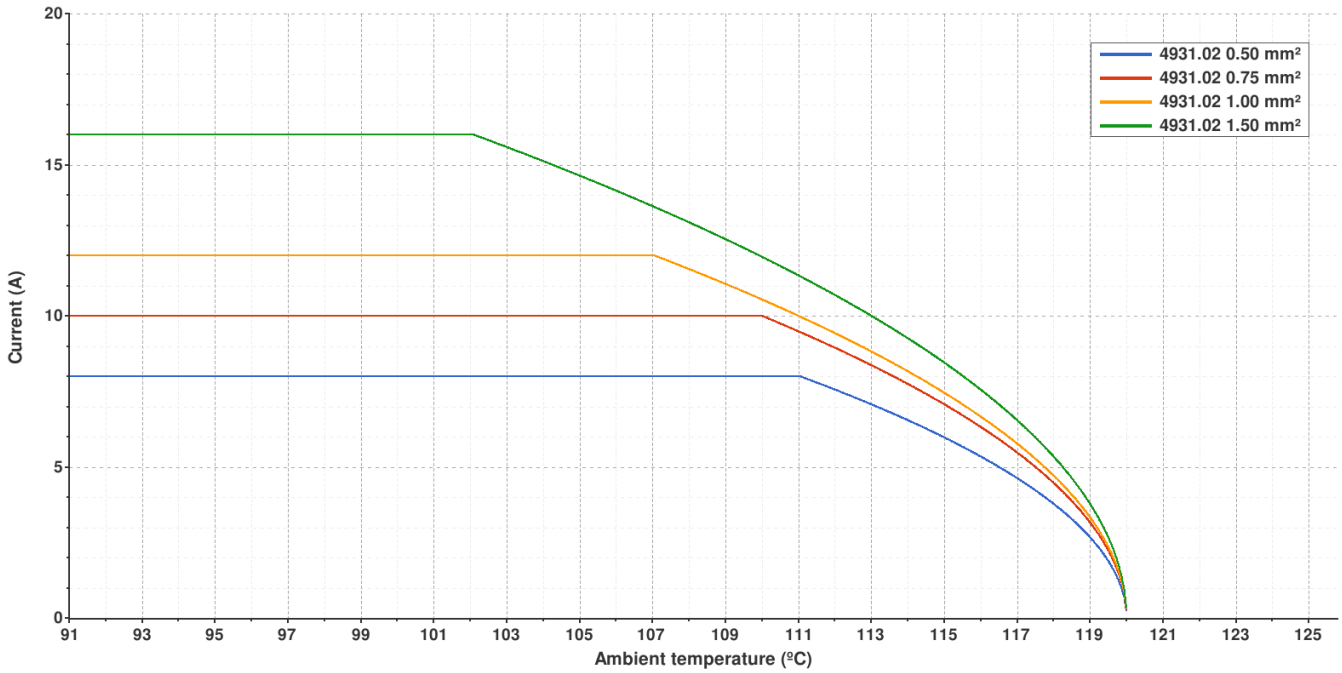


Valid for Natural Brass Tab

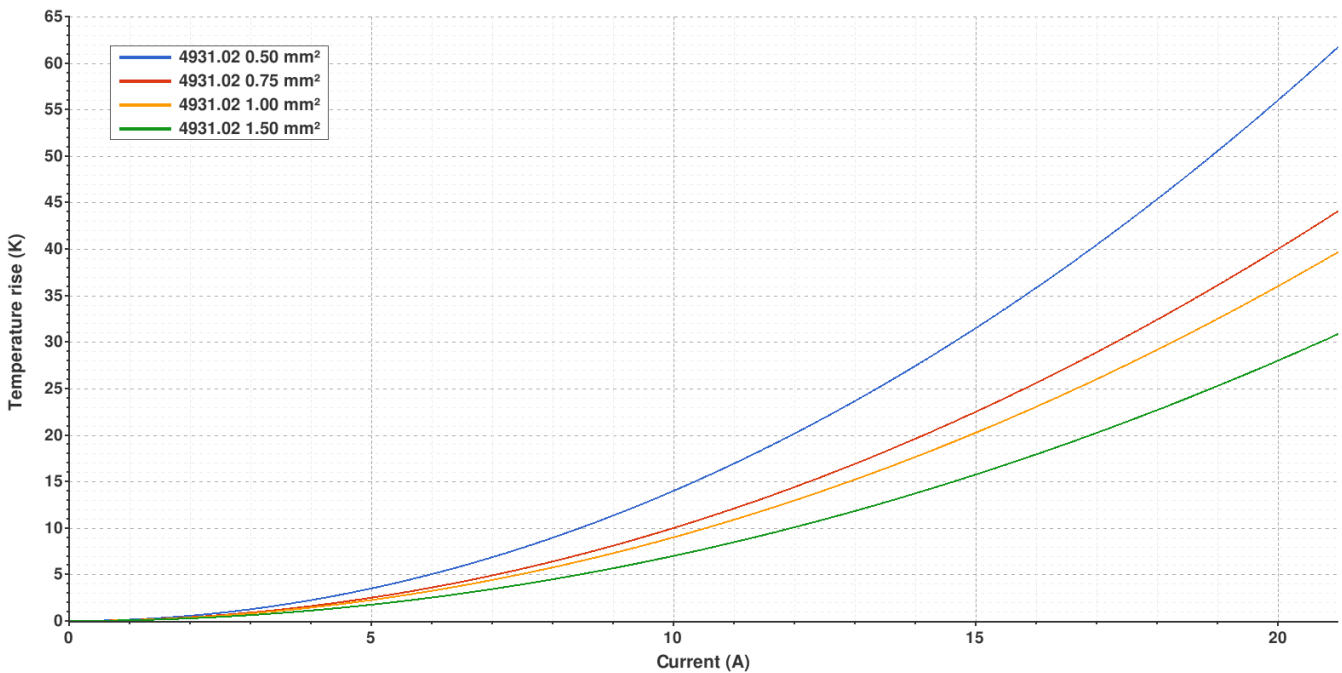
4931.02 TIN PLATED BRASS
6.3 (.250) TYPE SERIES · RECEPTACLES



Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

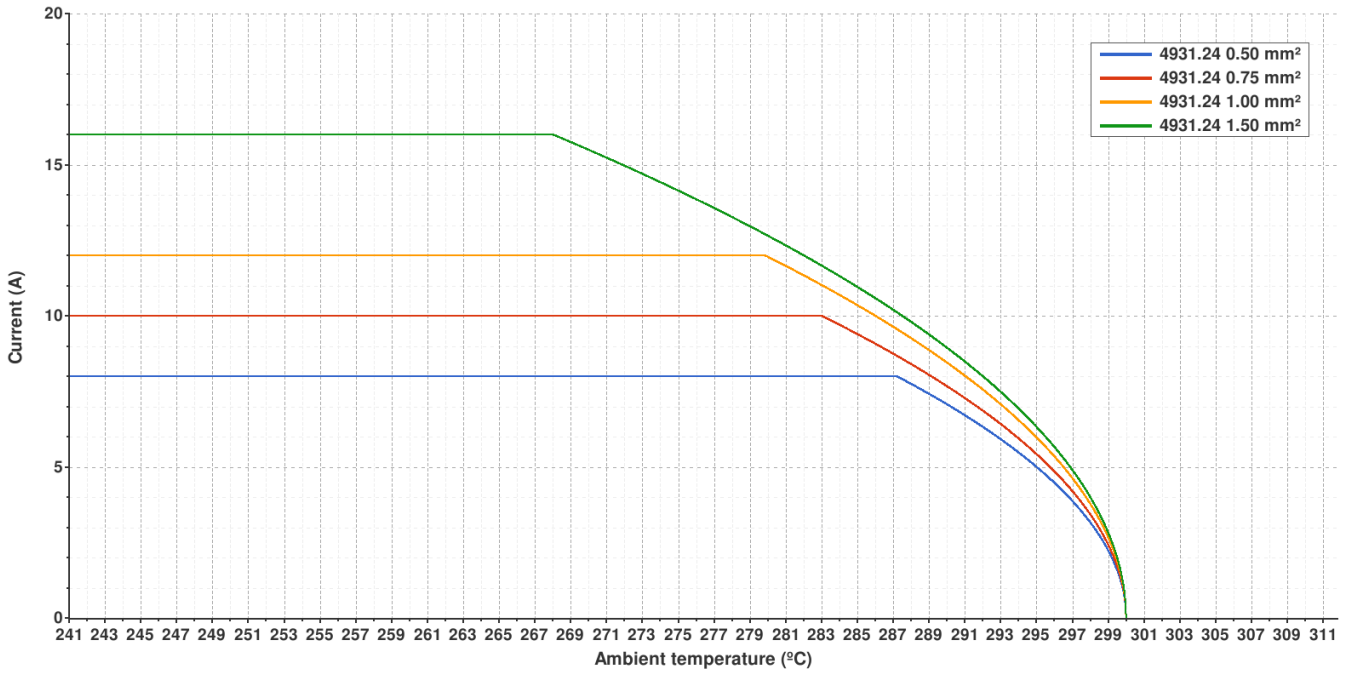


Valid for Natural Brass Tab

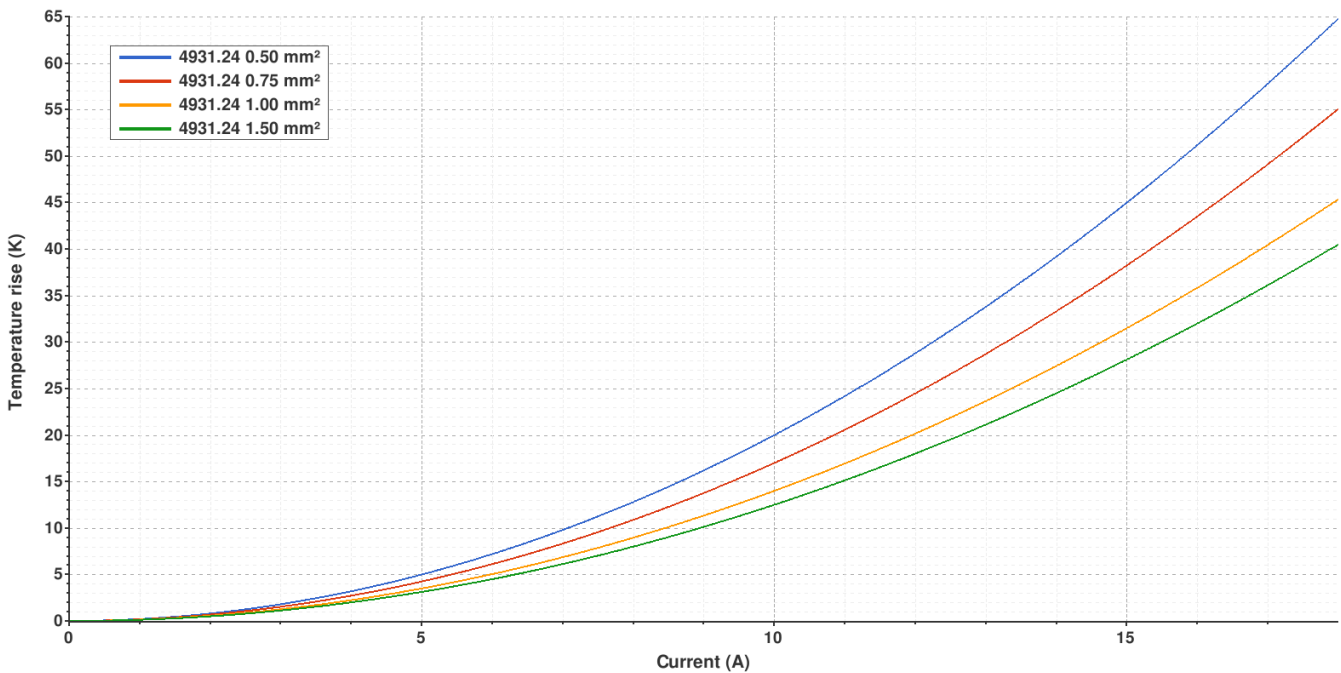
4931.24 NICKEL-PLATED STEEL
6.3 (.250) TYPE SERIES · RECEPTACLES



Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried



Valid for Natural Brass Tab

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

Disclaimer

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Rev. Nr.	Concept	Date	Created/Revised	Approved
A4	Update crimp specifications	2024-06-28	E. Roura (laboratory dept.)	E. Turon (Engineering dept.)
A3	Change company name and logo	2021-10-21	Laboratory Dept.	E. Roura
A2	Update crimp specifications	2019-09-30	Laboratory Dept.	E. Roura
A1	Datasheet generated automatically [A1]	2019-02-19	Laboratory Dept.	E. Roura

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