



4930.**
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 (20-18)

Ø Insulation (mm) 1,8-2,5

Materials, temperature and contact resistance

Part nr.	Material	Finishing	Max. Temp. (°C)	Contact Resist (mΩ)
4930.00	Brass	Natural	110	0.75
4930.01	Brass	Pre-tin-plated	120	0.50
4930.02	Brass	Tin plated	120	0.55
4930.24	Steel	Nickel-plated	300	2.00
4930.30	Bronze	Natural	120	(T.B.D.)
4930.31	Bronze	Pre-tin-plated	130	0.60
4930.32	Bronze	Tin plated	130	(T.B.D.)
4930.70	German Silver	Natural	210	2.25

Material thickness (mm) 0,4

Max. rated current

Wire section	4930.00 / 01 / 02 / 24 / 30 / 31 / 32 / 70
0.50 mm ²	8A
0.75 mm ²	10A
1.00 mm ²	12A

Insertion / Withdrawal forces


	4930.00 / 01 / 02 / 30 / 31 / 32	4930.24 / 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 MN4120

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	1.30 (±0.03)	2.36 (±0.03)	3.47 (±0.10)	56N @ 60s
0.75 mm ²	1.40 (±0.05)	2.37 (±0.05)	3.47 (±0.10)	84N @ 60s
1.00 mm ²	1.50 (±0.05)	2.37 (±0.05)	3.48 (±0.10)	108N @ 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

Approved regulations

Part nr.	Approval	Standard	File	Certified framework
4930.00	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN4930
4930.01	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN4930
4930.24	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN4930



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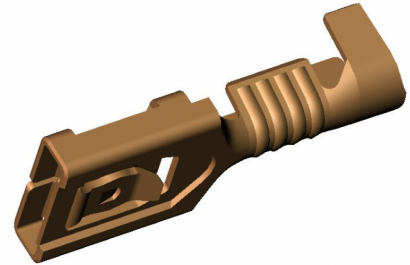
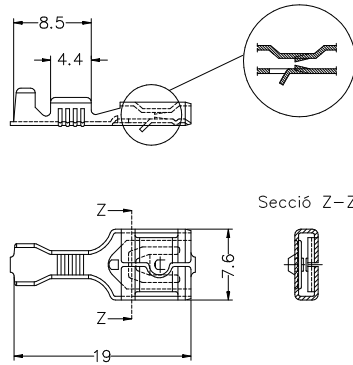
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Approvals



Drawing

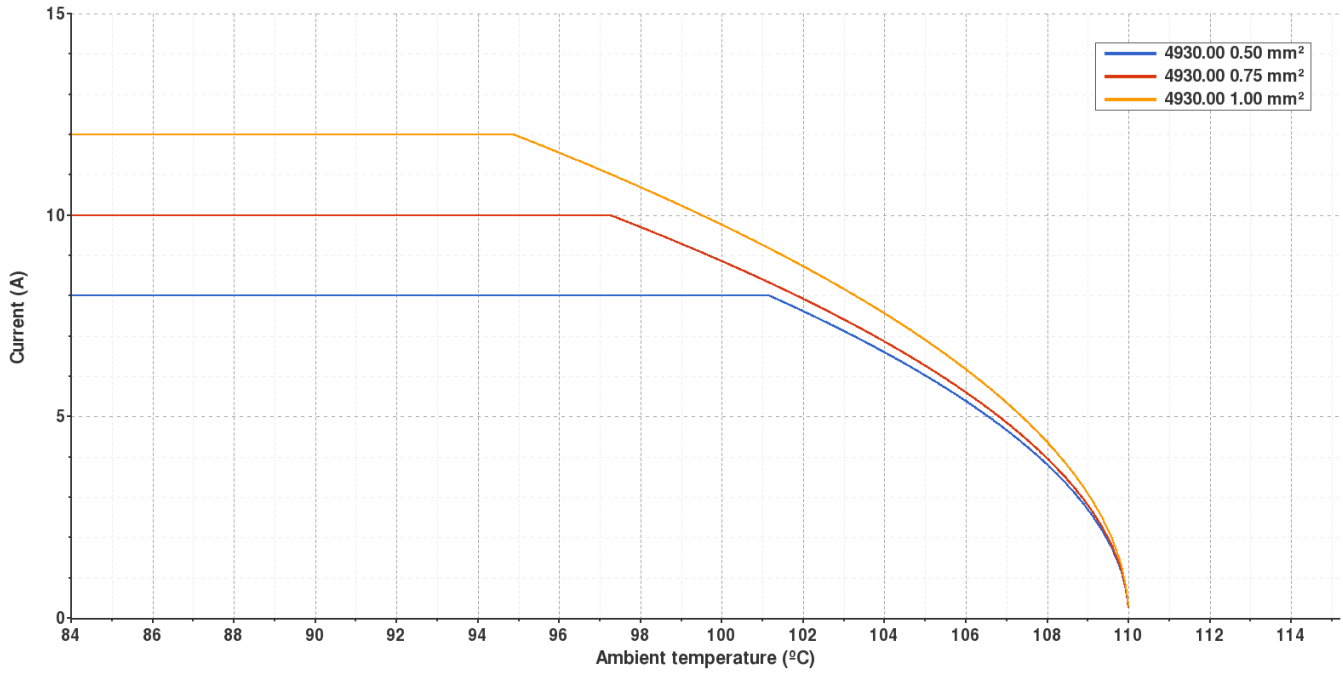




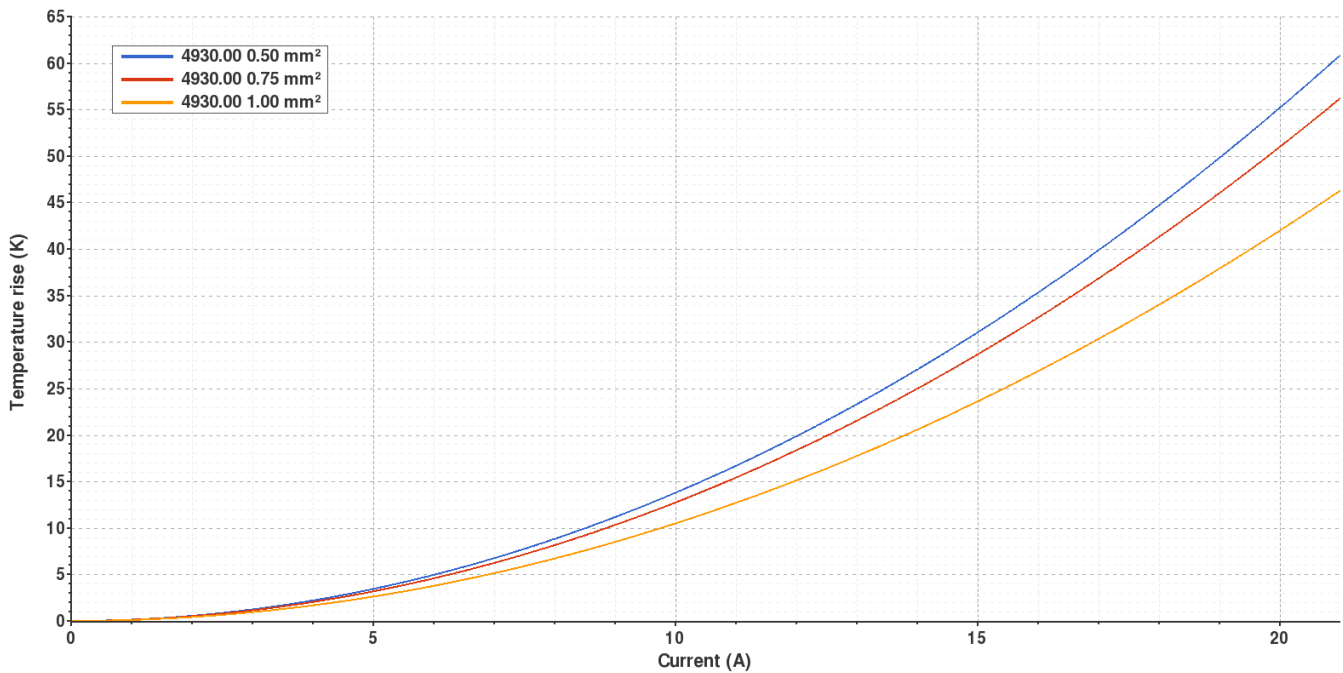
4930.00 NATURAL BRASS
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Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried



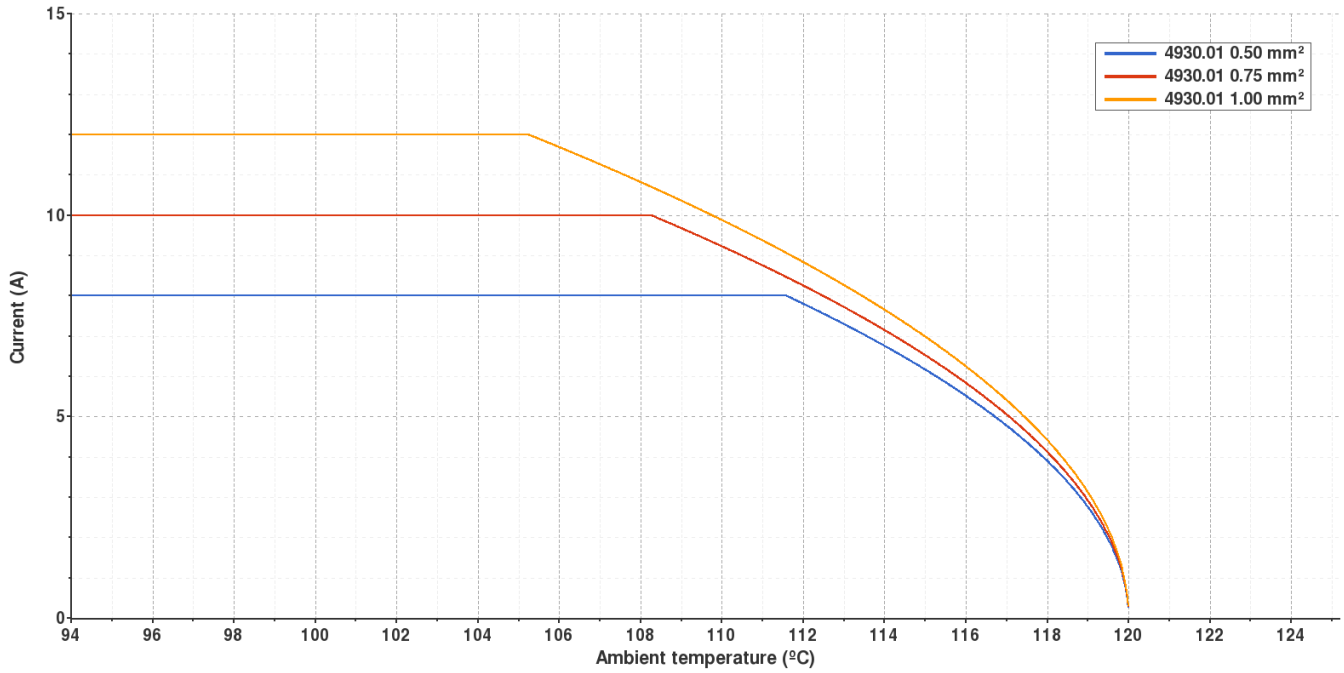
Valid for Natural Brass Tab



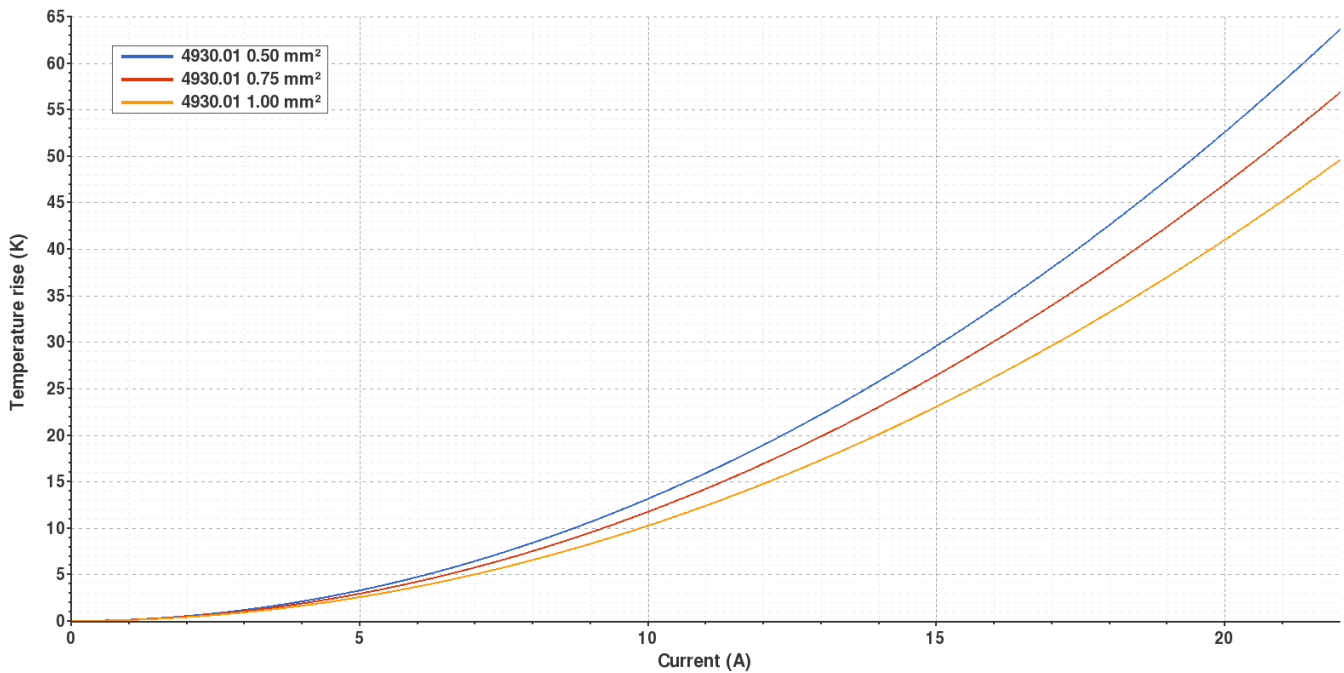
4930.01 PRE-TIN-PLATED BRASS
6.3 (.250) TYPE SERIES · RECEPTACLES



Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried



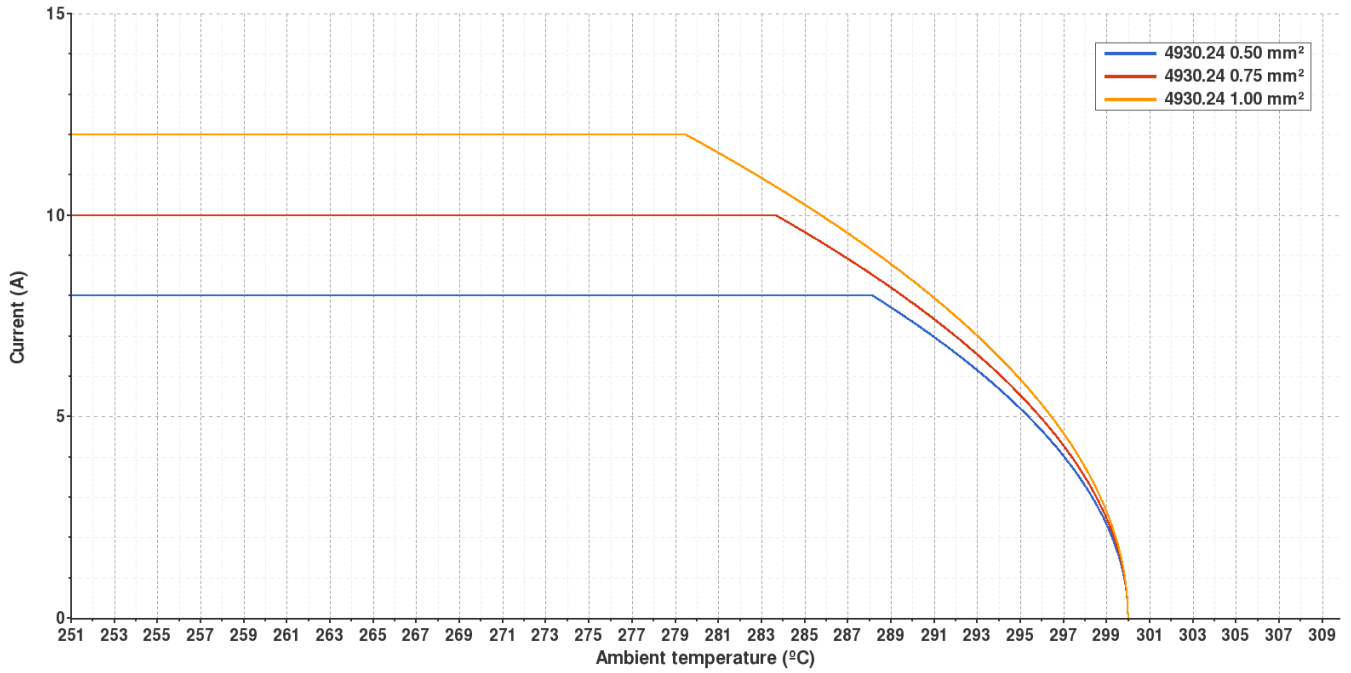
Valid for Natural Brass Tab



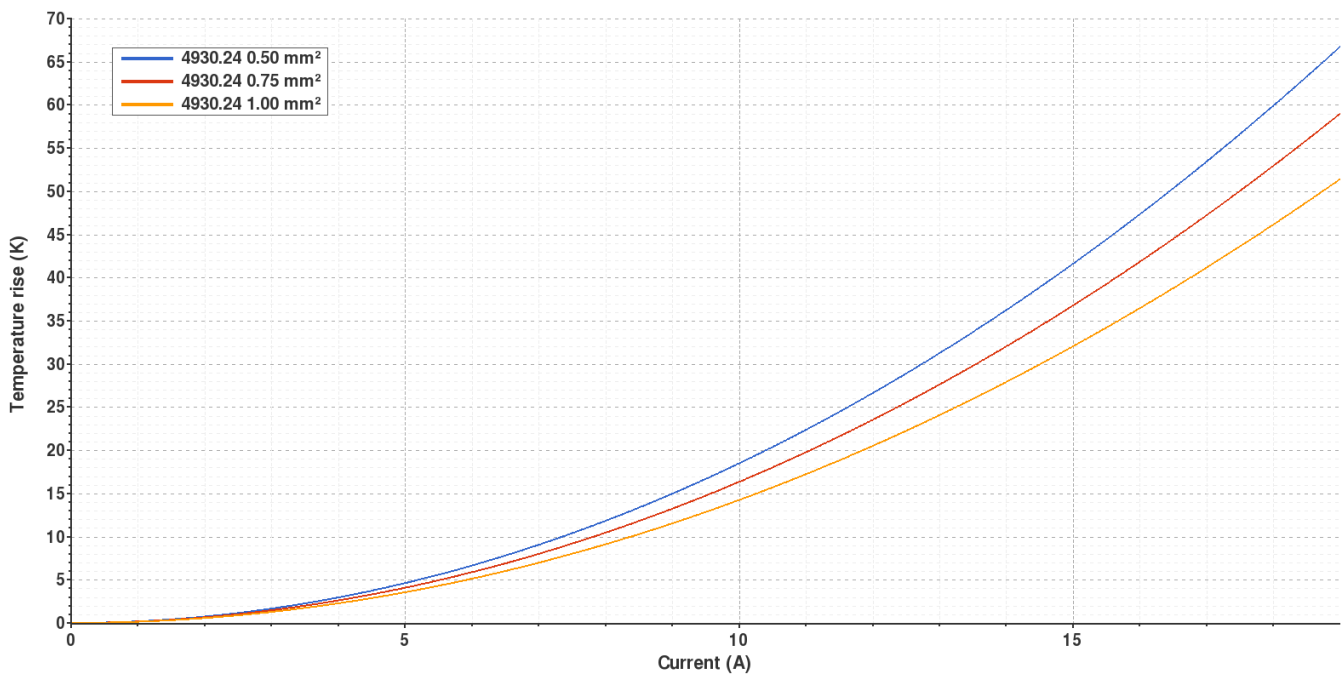
4930.24 NICKEL-PLATED STEEL
6.3 (.250) TYPE SERIES · RECEPTACLES



Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried



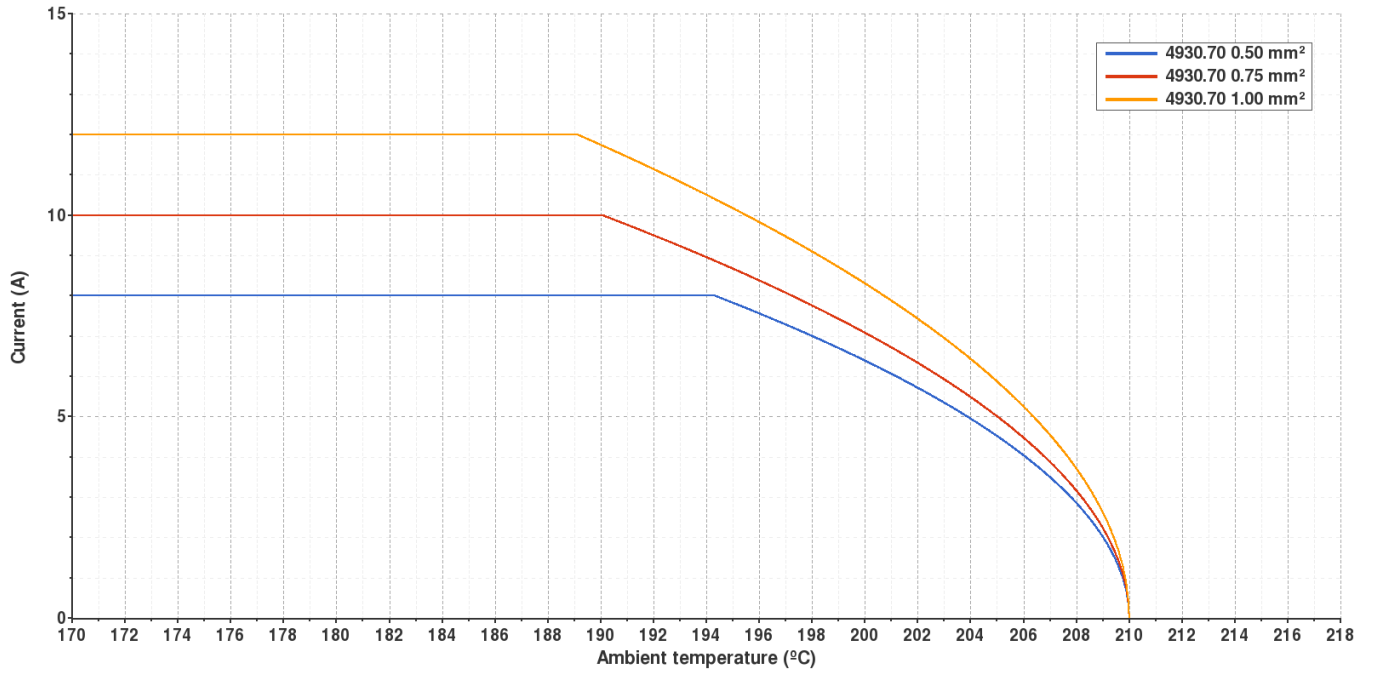
Valid for Natural Brass Tab



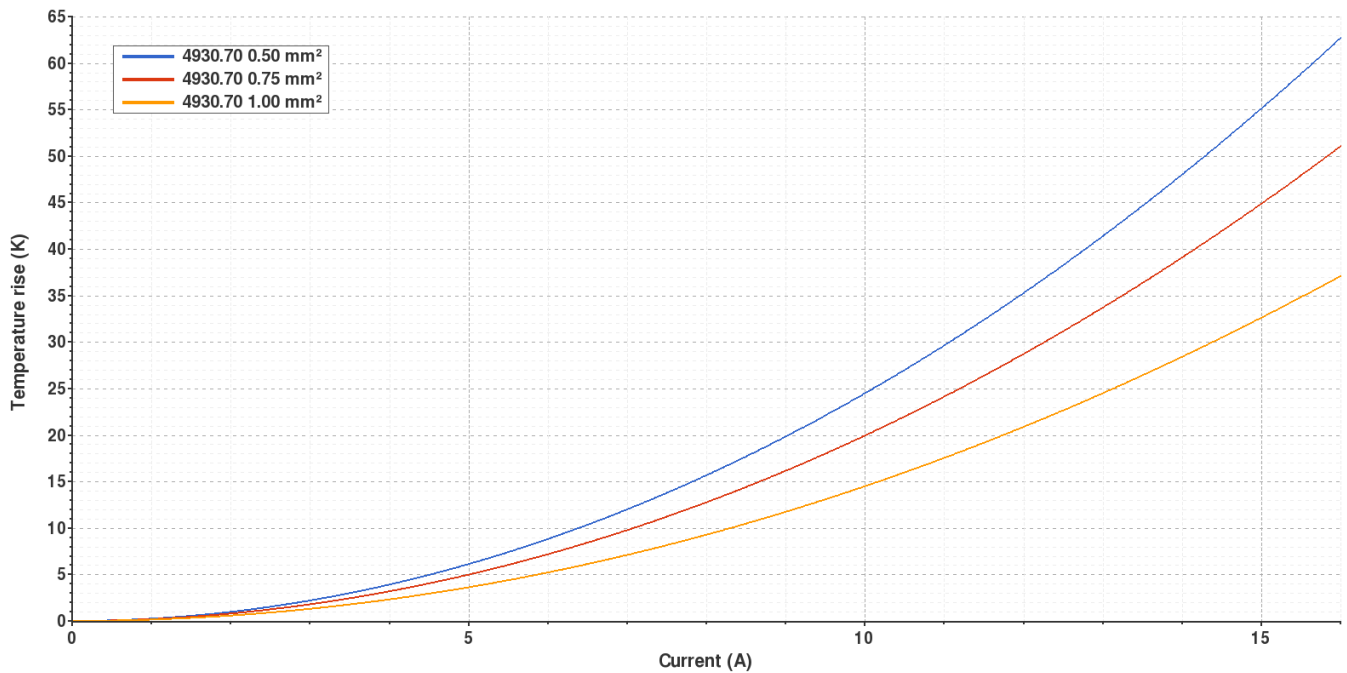
4930.70 NATURAL GERMAN SILVER
6.3 (.250) TYPE SERIES · RECEPTACLES



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

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A1	Datasheet generated automatically [A1]	2019-02-19	Laboratory Dept.	E. Roura

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