

4412.** 4.8 (.187) TYPE SERIES · RECEPTACLES



Specification Standard Terminals

For male (mm) 4,8x0,5

Din 46247

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)
4412.00	Brass	Natural	110	0.80
4412.02	Brass	Tin plated	120	0.65
4412.04	Brass	Nickel-plated	130	(T.B.D.)
4412.24	Steel	Nickel-plated	300	2.05
4412.30	Bronze	Natural	120	0.90
4412.32	Bronze	Tin plated	130	0.75

Material thickness (mm) 0,35

Max. rated current

Wire section	4412.00 / 02 / 04 / 24 / 30 / 32
0.50 mm ²	8A
0.75 mm ²	10A
1.00 mm ²	12A

Insertion / Withdrawal forces


	4412.00 / 04 / 24 / 30	4412.02 / 32
1st Insertion (max)	50N ¹	60N ¹
1st Withdrawal (max)	50N ¹	60N ¹
10th Withdrawal (min)	10N ¹	15N ¹

¹ Valid for Natural Brass Tab

Application tool MN4412

Wire strip length 4.2 (±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	1.20 (±0.03)	2.17 (±0.03)	3.38 (±0.10)	56N @ 60s
0.75 mm ²	1.30 (±0.05)	2.18 (±0.05)	3.39 (±0.10)	84N @ 60s
1.00 mm ²	1.40 (±0.05)	2.19 (±0.05)	3.41 (±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 10000

Compatible connectors 24812**, 24820**

Approved regulations

Part nr.	Approval	Standard	File	Certified framework
4412.00	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN4412
4412.02	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN4412
4412.24	UL	UL 310	E211727	AWG 20-20 (10-10 Stranded Cu) / MN4412

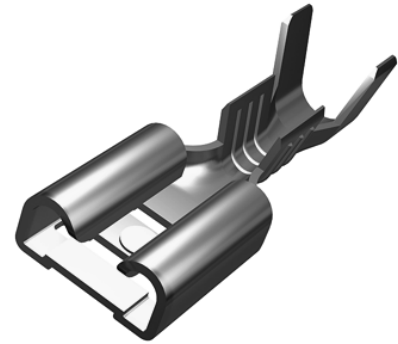
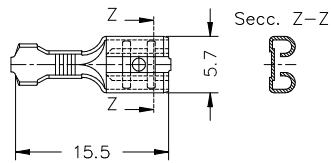
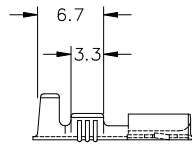
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Approvals



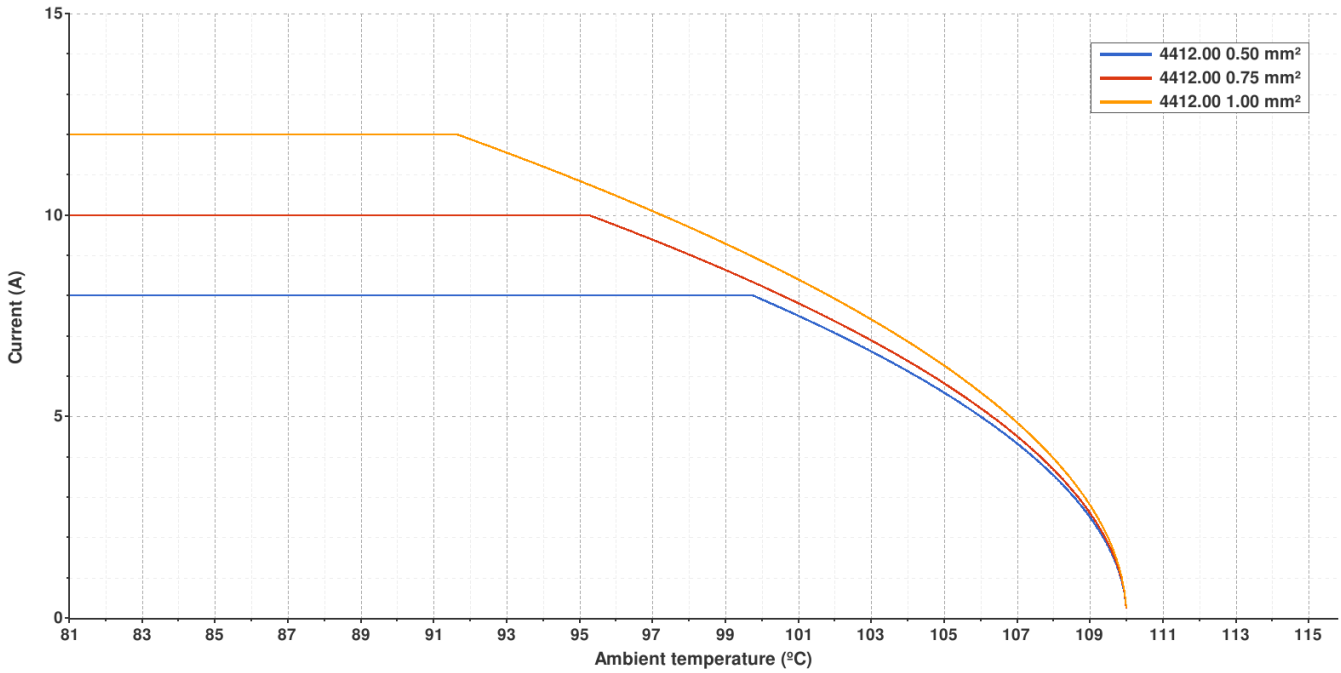
Drawing



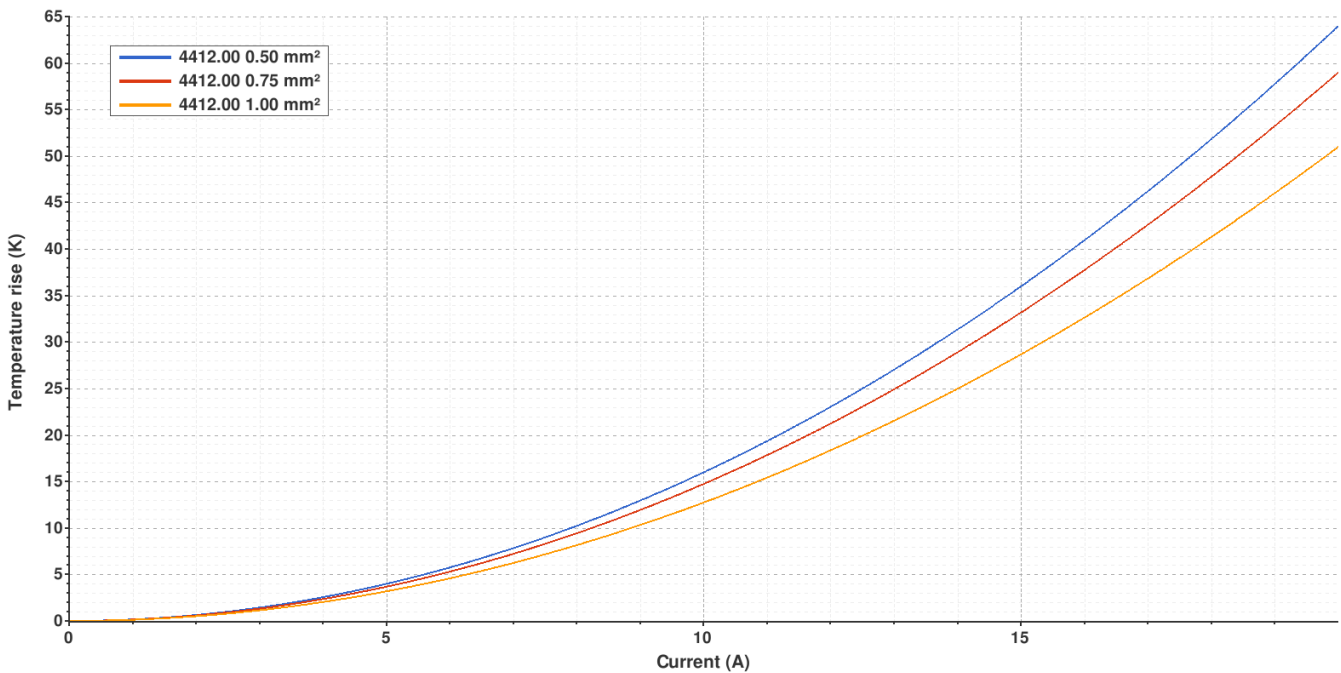
4412.00 NATURAL BRASS
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Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

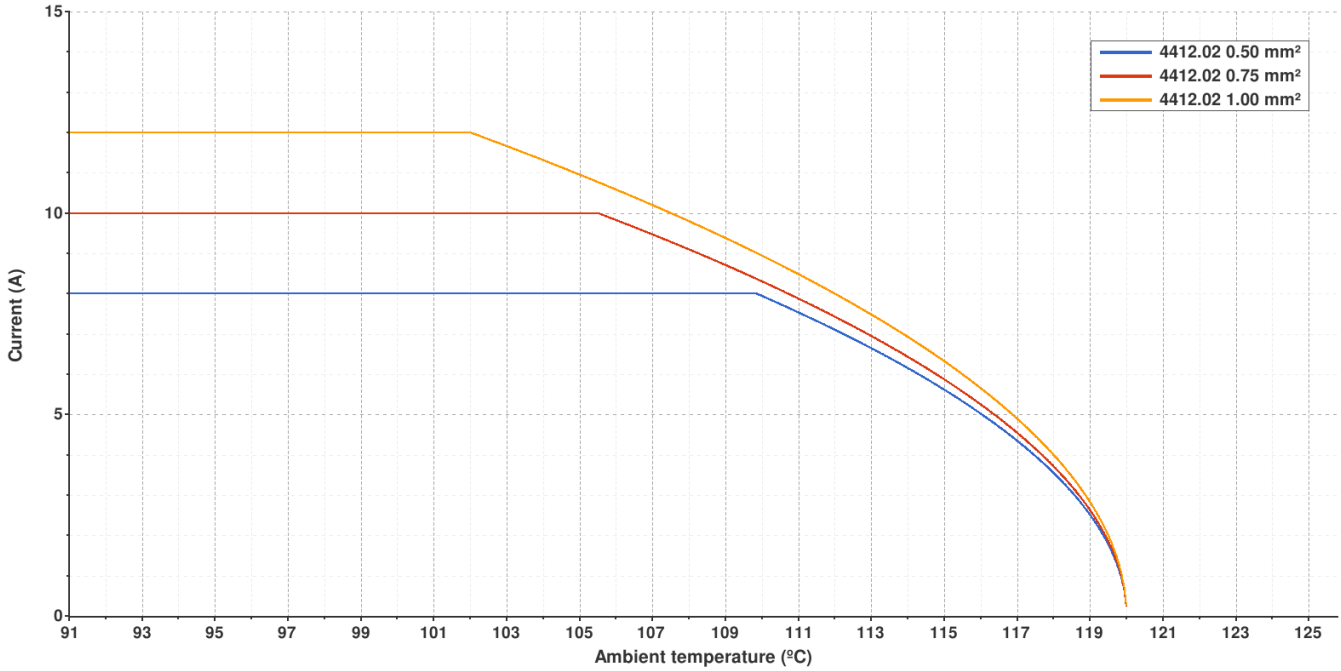


Valid for Natural Brass Tab

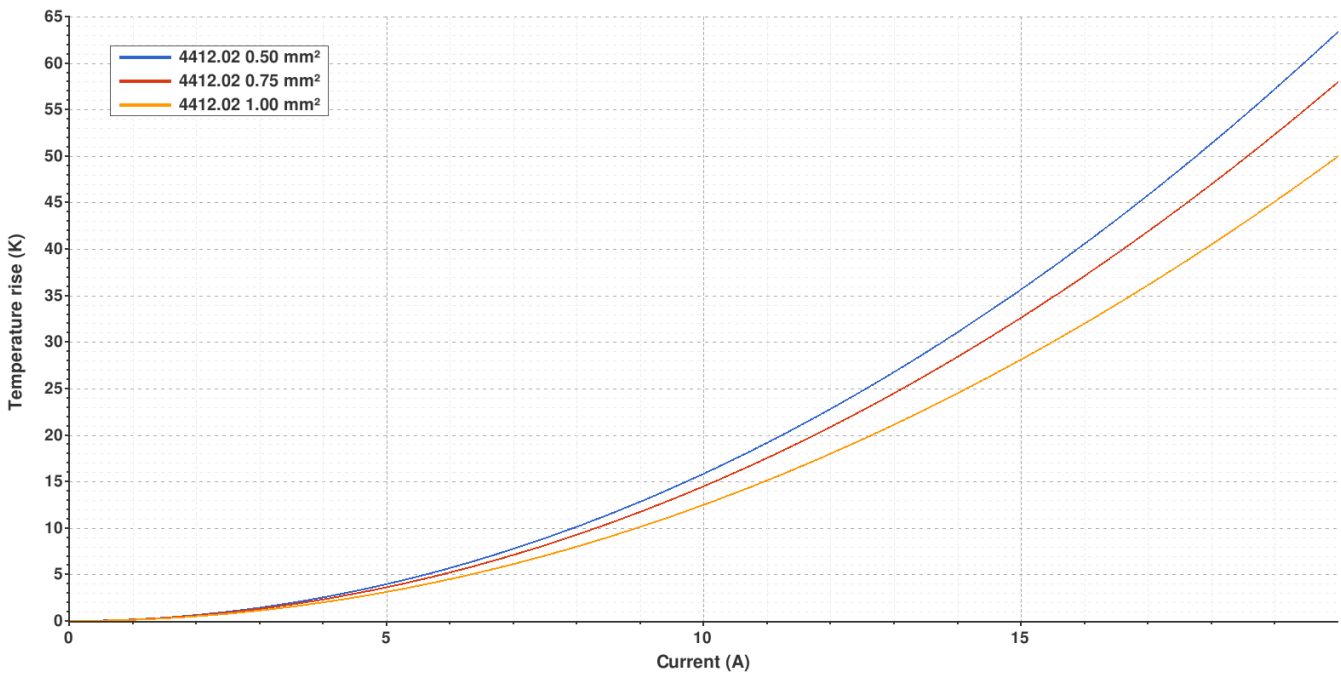
4412.02 TIN PLATED BRASS
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Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

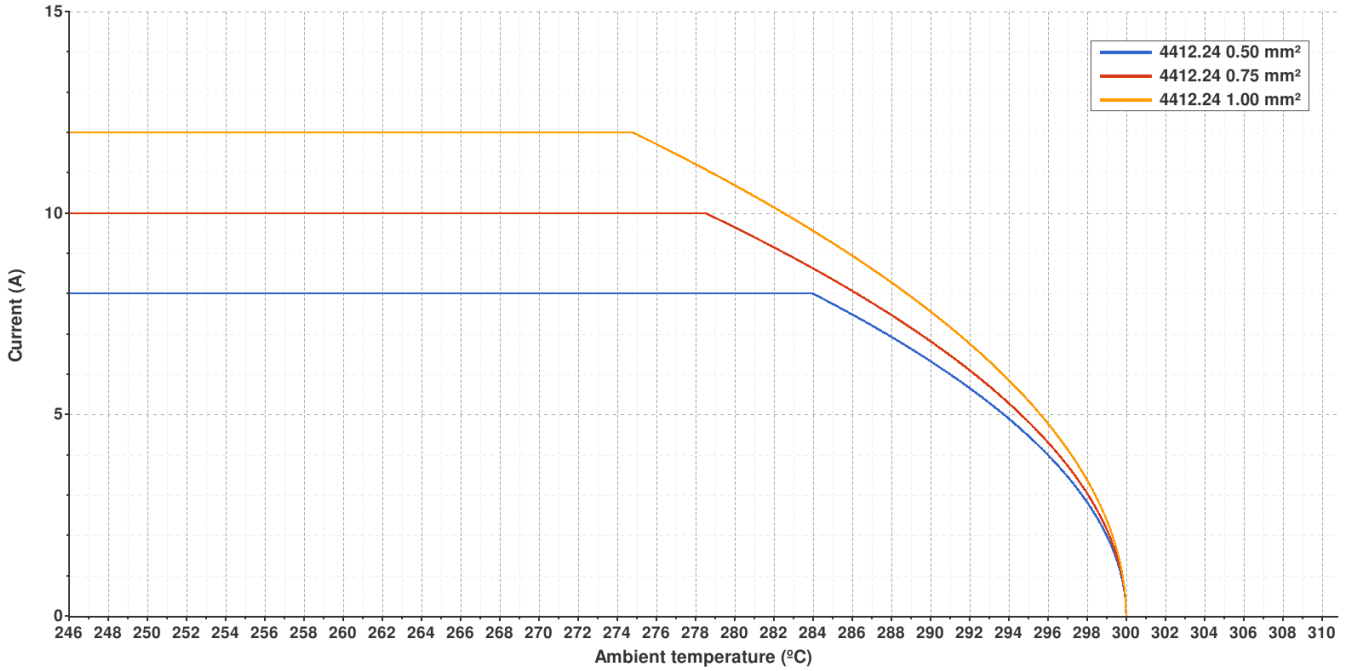


Valid for Natural Brass Tab

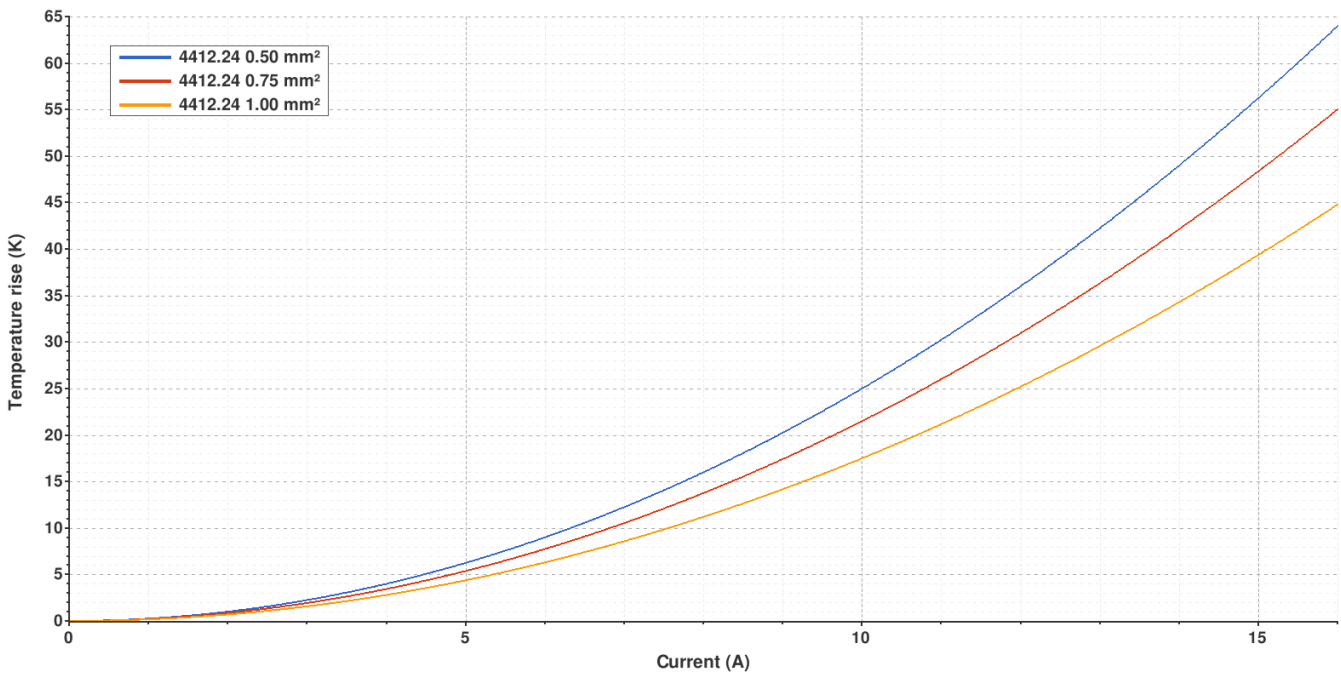
4412.24 NICKEL-PLATED STEEL
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Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

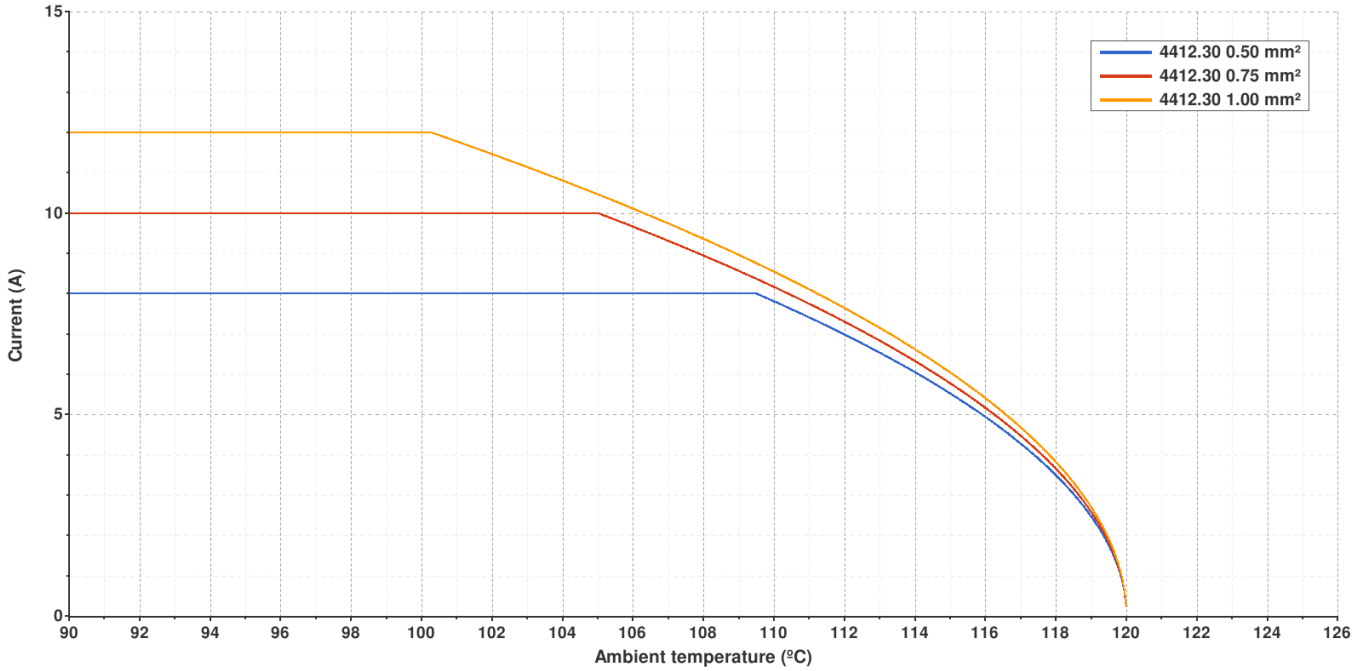


Valid for Natural Brass Tab

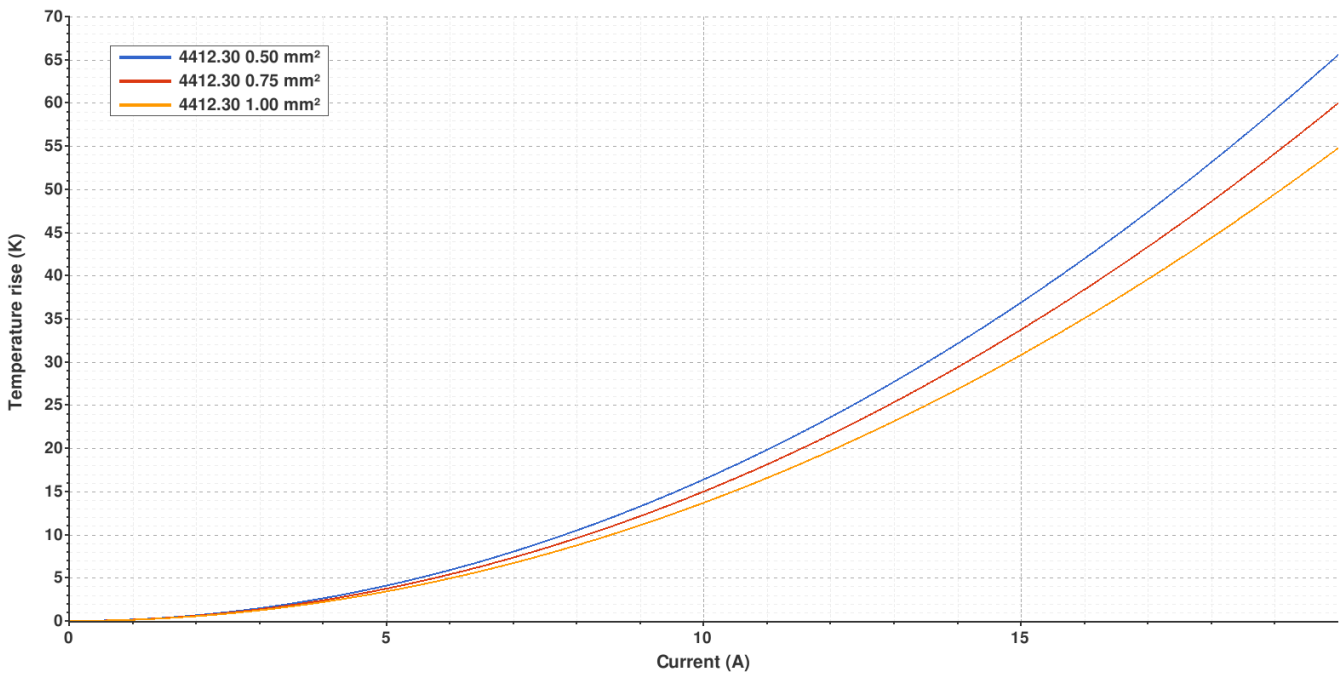
4412.30 NATURAL BRONZE
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Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

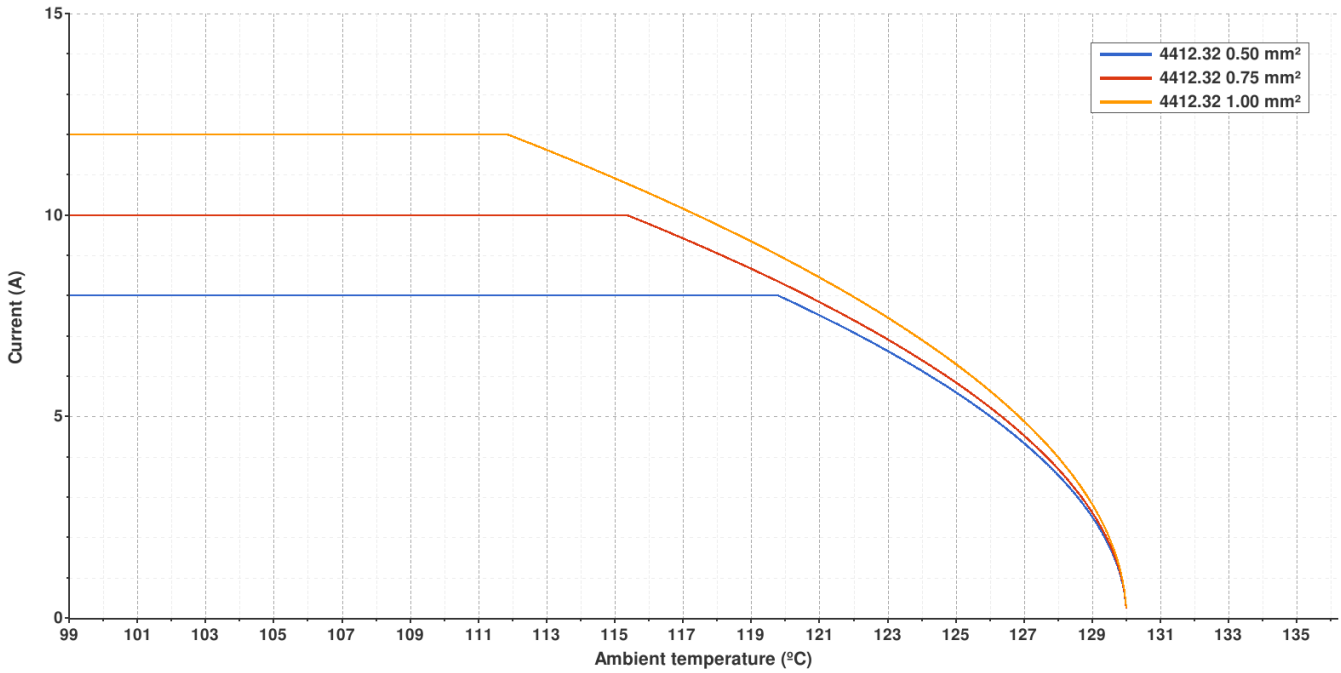


Valid for Natural Brass Tab

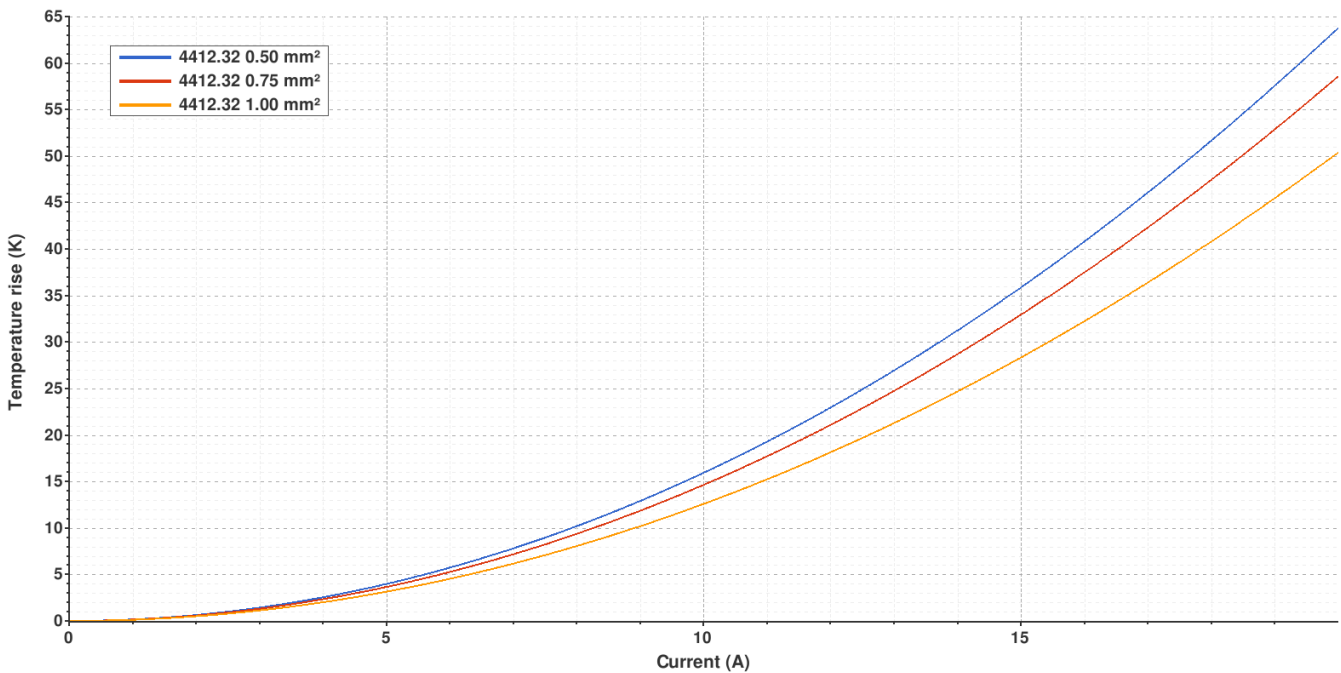
4412.32 TIN PLATED BRONZE
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Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried



Valid for Natural Brass Tab

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

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A2	Change company name and logo	2021-10-21	Laboratory Dept.	E. Roura
A1	Datasheet generated automatically [A1]	2019-02-15	Laboratory Dept.	E. Roura

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