



4120.**

RAST 5 TERMINALS AND CONNECTORS · RECEPTACLES FOR CONNECTOR



Specification RAST 5 CRIMP CONNECT

Typology With Upper Dimple

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)
4120.00	Brass	Natural	110	0.65
4120.01	Brass	Pre-tin-plated	120	0.50
4120.02	Brass	Tin plated	120	0.55
4120.24	Steel	Nickel-plated	300	1.50
4120.30	Bronze	Natural	120	(T.B.D.)
4120.31	Bronze	Pre-tin-plated	130	(T.B.D.)
4120.32	Bronze	Tin plated	130	(T.B.D.)
4120.70	German Silver	Natural	210	2.00

Material thickness (mm) 0,4

Max. rated current

Wire section	4120.00 / 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

	4120.00 / 01 / 02 / 24 / 30 / 31 / 32 / 70
1st Insertion (max)	30N ¹
1st Withdrawal (max)	50N ¹
10th Withdrawal (min)	10N 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)		
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

Compatible connectors P8412**, P8413**, P8414**, P8415**, R5315**-K, R5412**-K, R5413**-K, R5414**-K, R5415**-K, R5416**-K, R5417**-K



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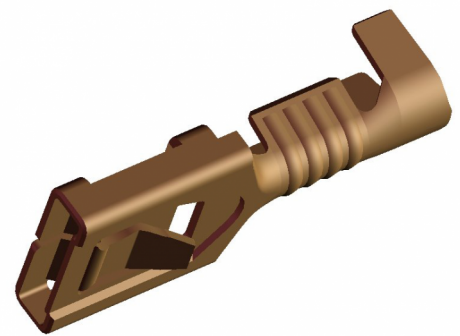
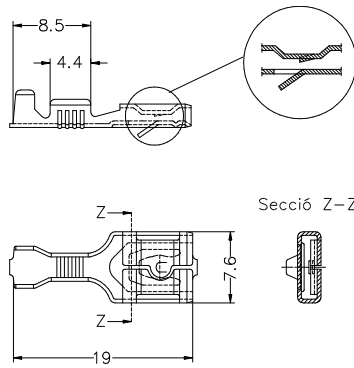
Approved regulations

Part nr.	Approval	Standard	File	Certified framework
4120.00	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN4120
4120.01	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN4120
4120.24	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN4120

Approvals



Drawing





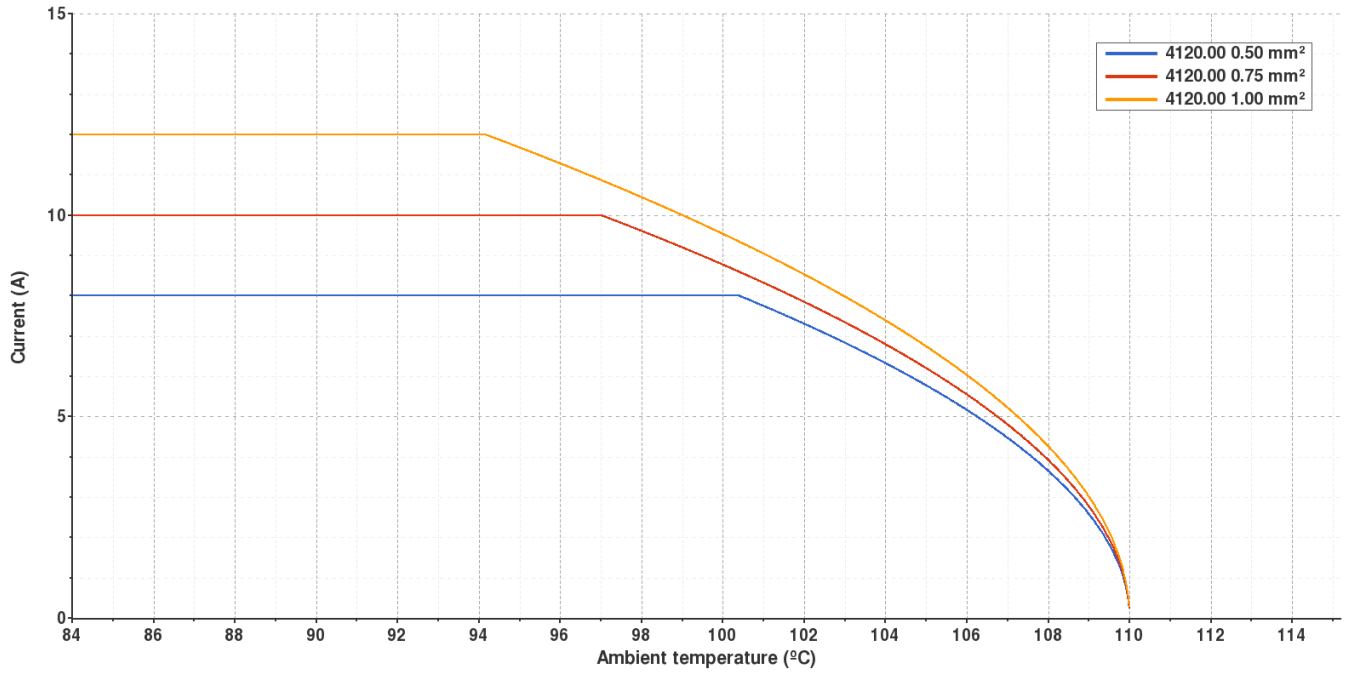
4120.00 NATURAL BRASS

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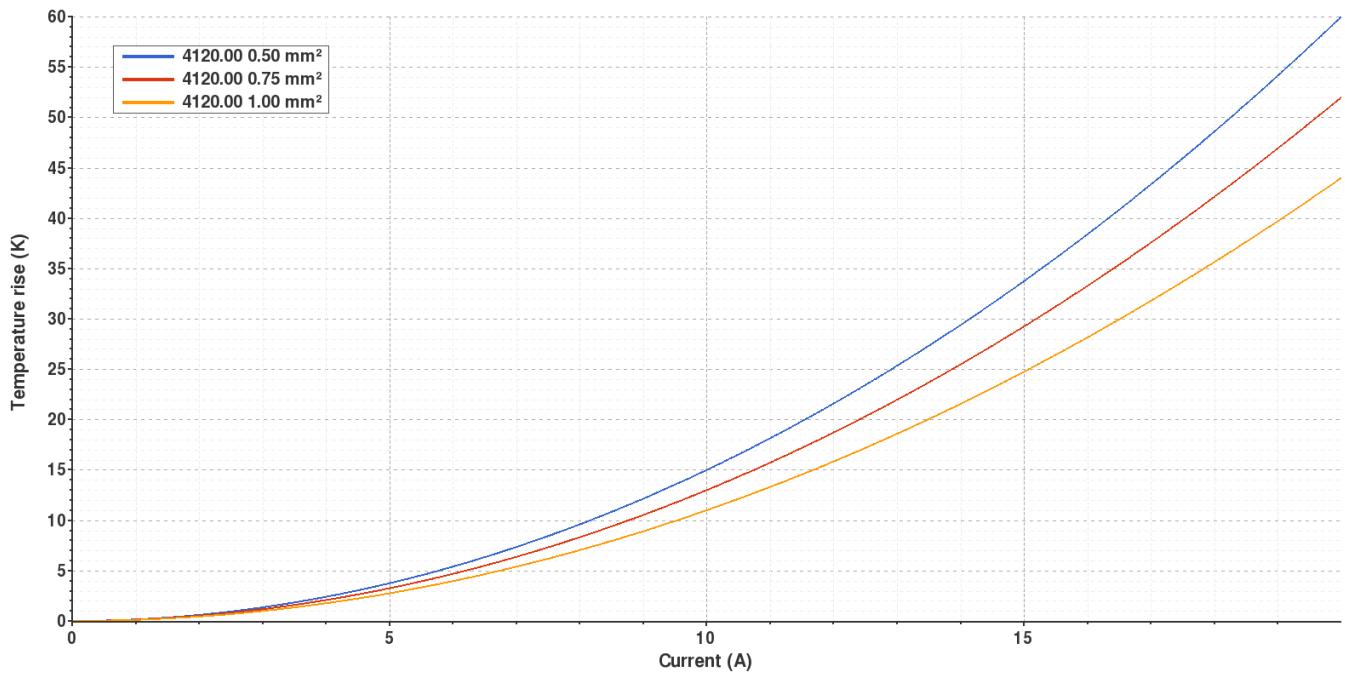
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab



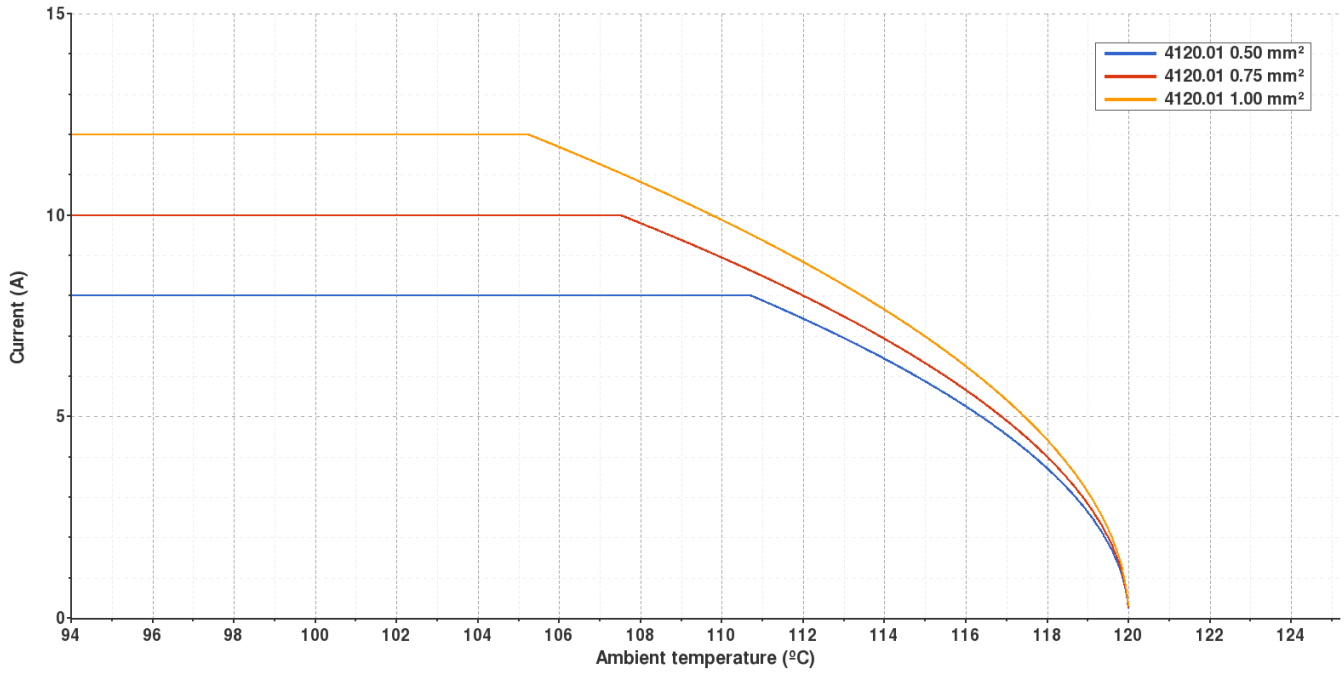
4120.01 PRE-TIN-PLATED BRASS

RAST 5 TERMINALS AND CONNECTORS · RECEPTACLES FOR CONNECTOR



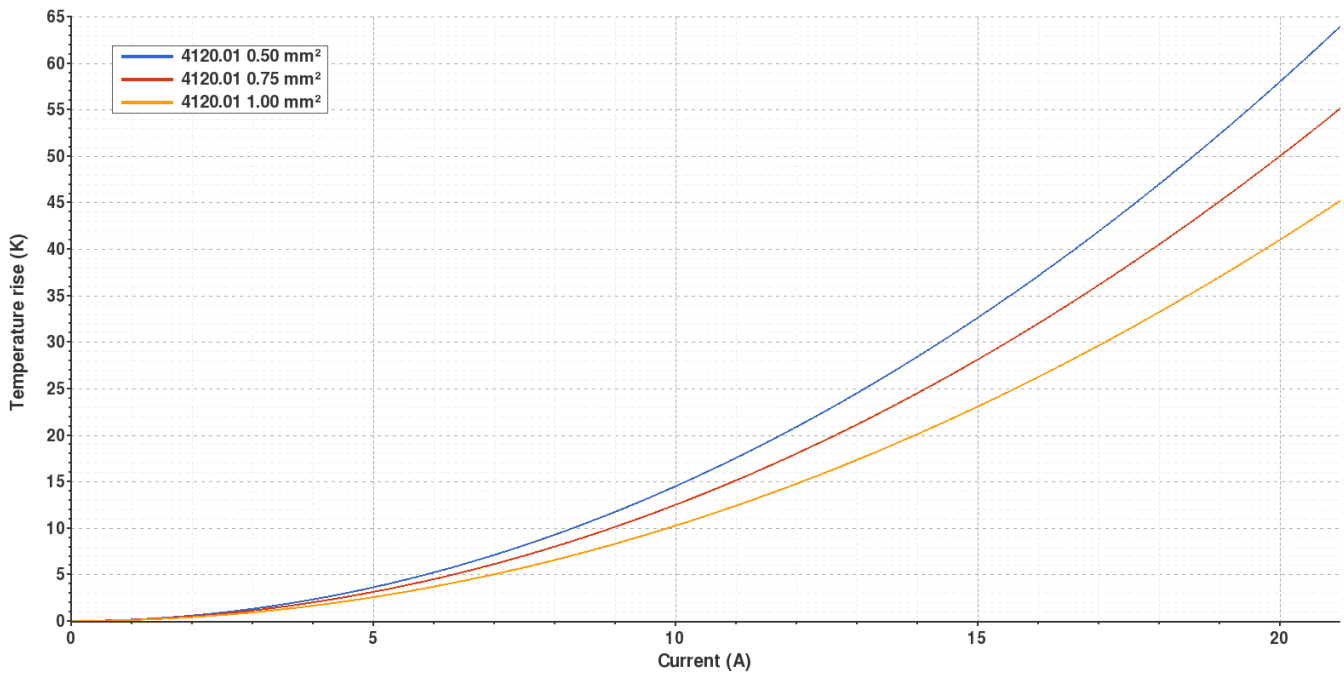
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab



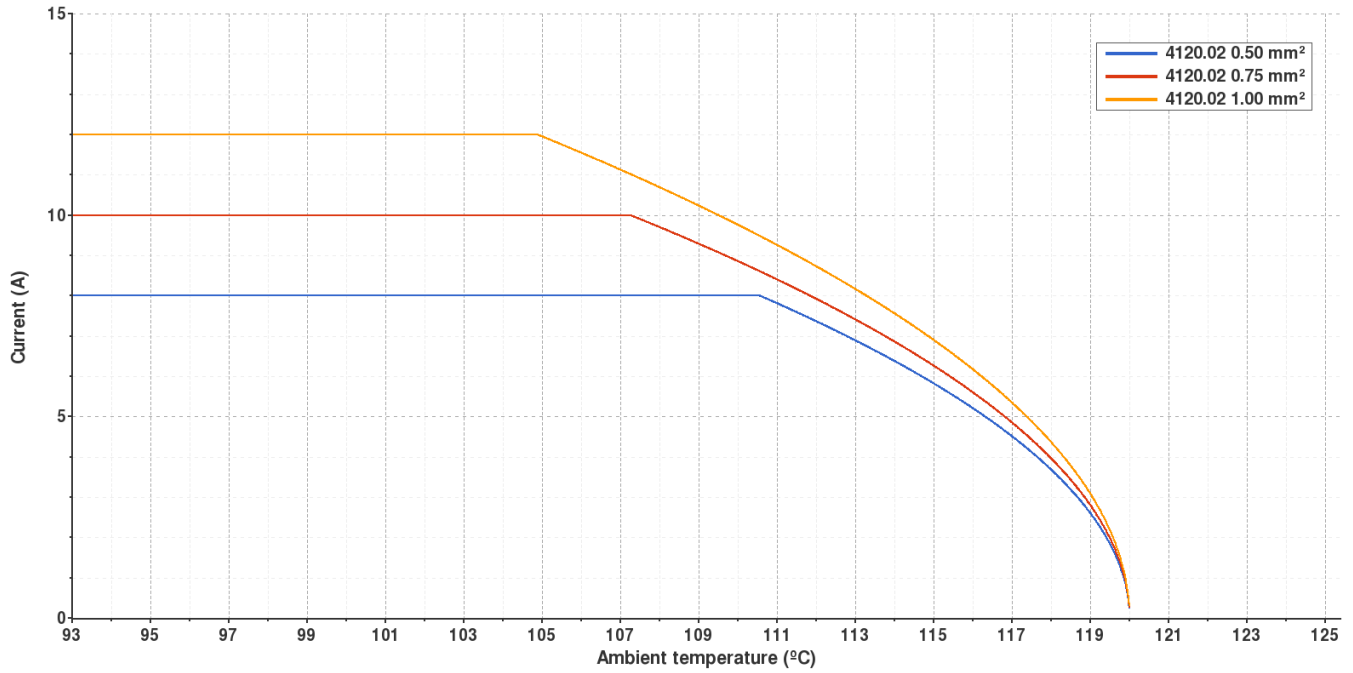
4120.02 TIN PLATED BRASS

RAST 5 TERMINALS AND CONNECTORS · RECEPTACLES FOR CONNECTOR



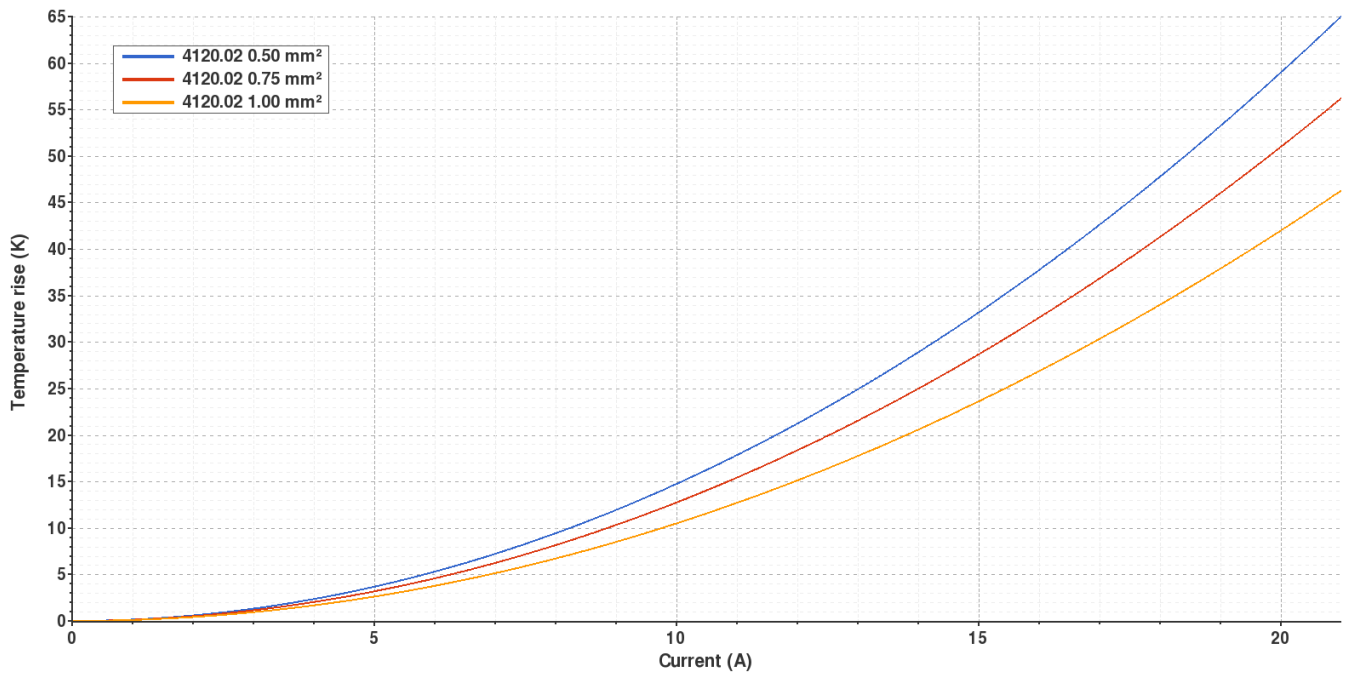
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab



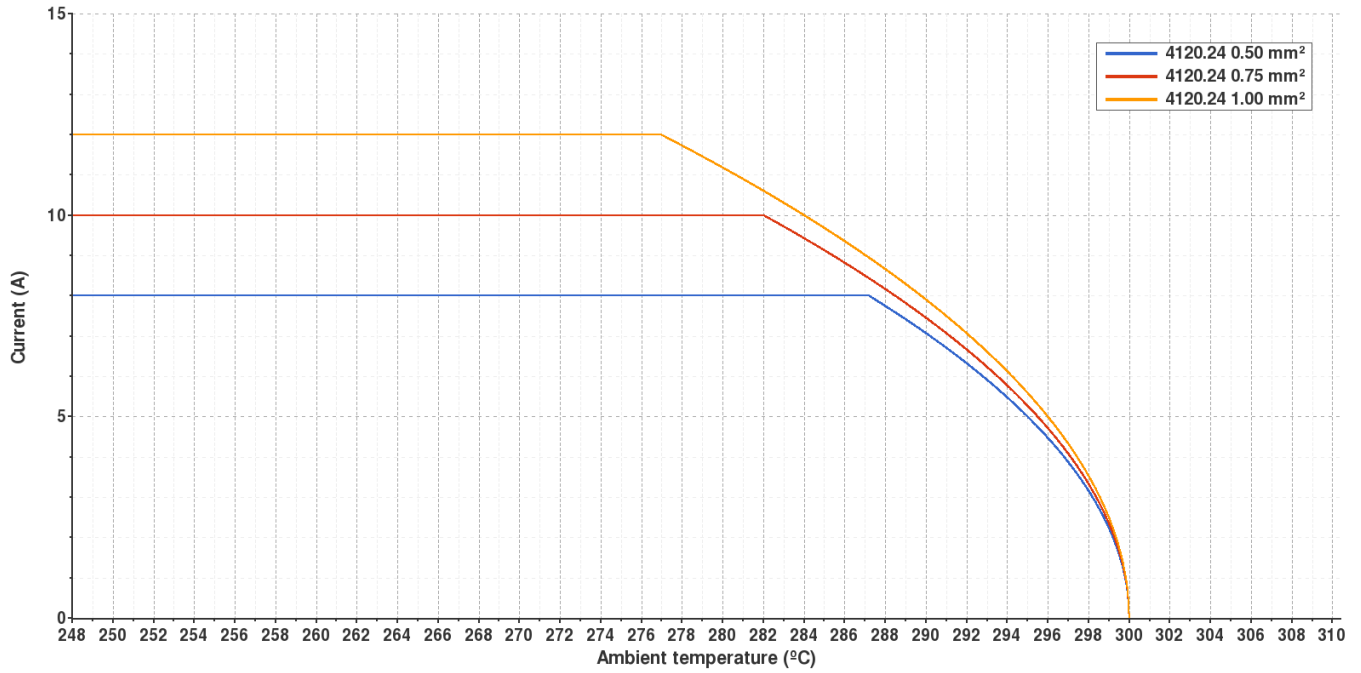
4120.24 NICKEL-PLATED STEEL

RAST 5 TERMINALS AND CONNECTORS · RECEPTACLES FOR CONNECTOR



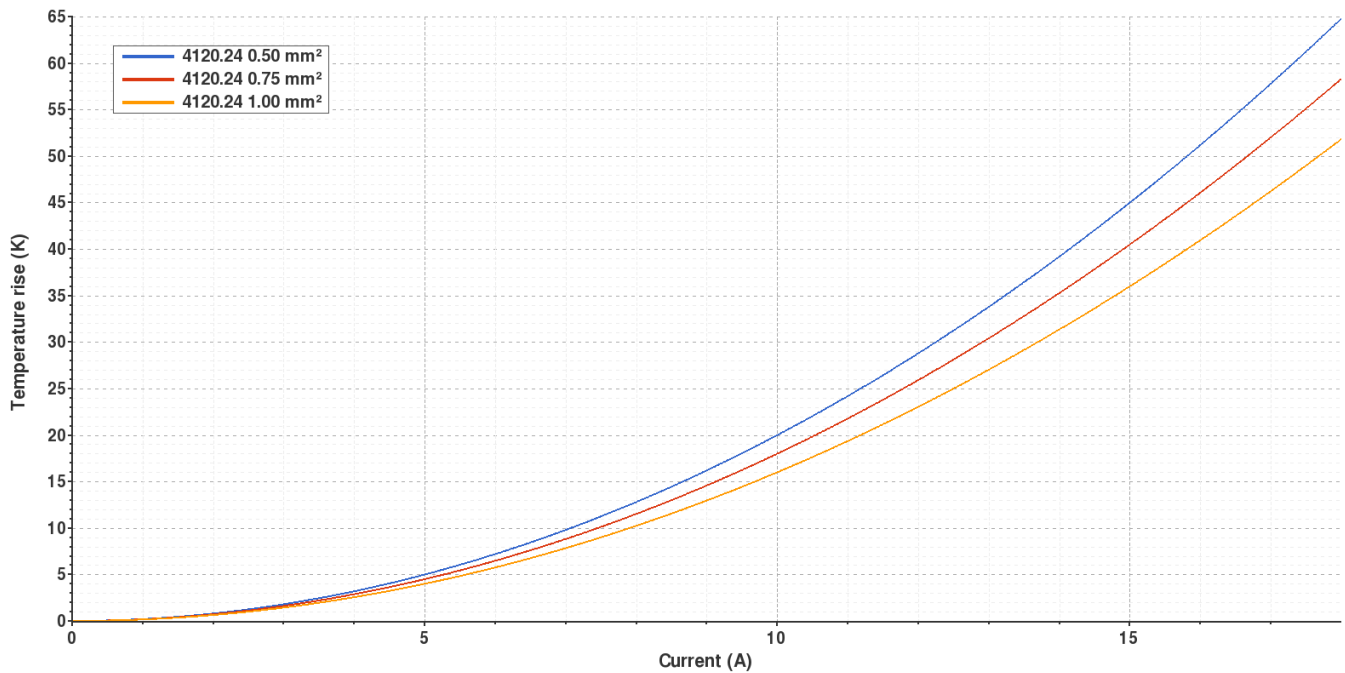
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab



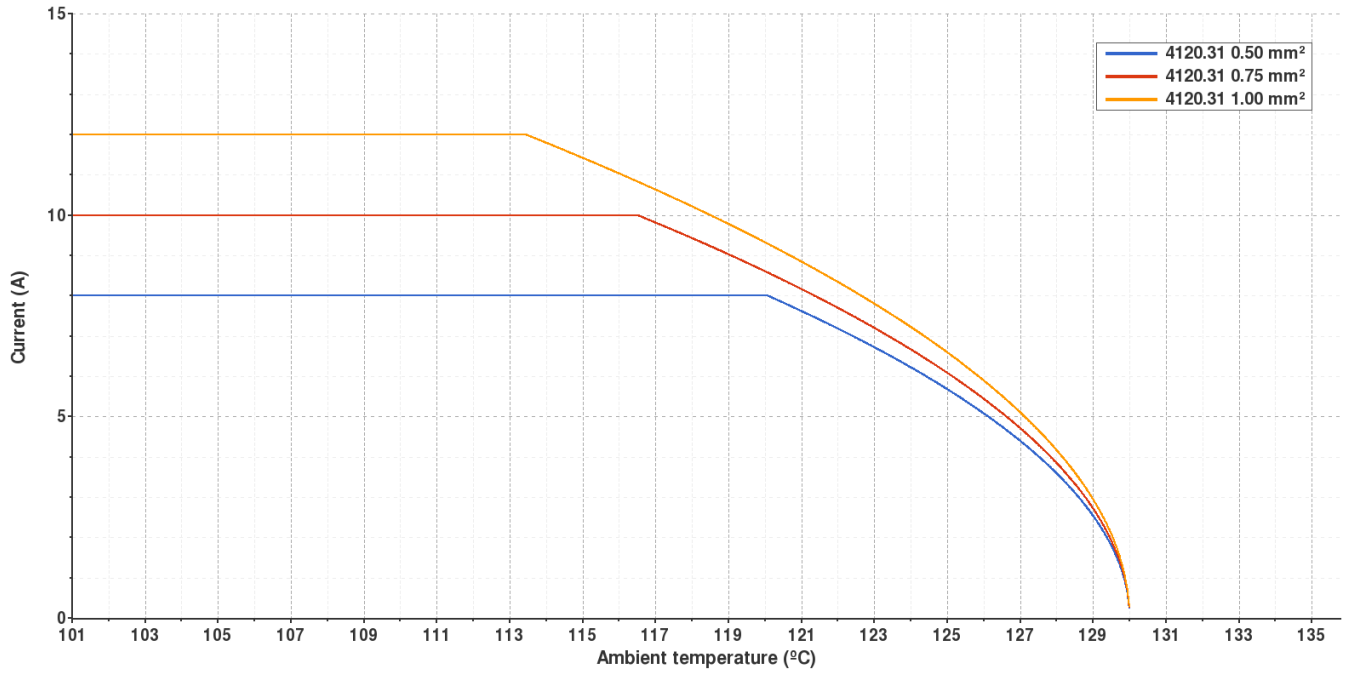
4120.31 PRE-TIN-PLATED BRONZE

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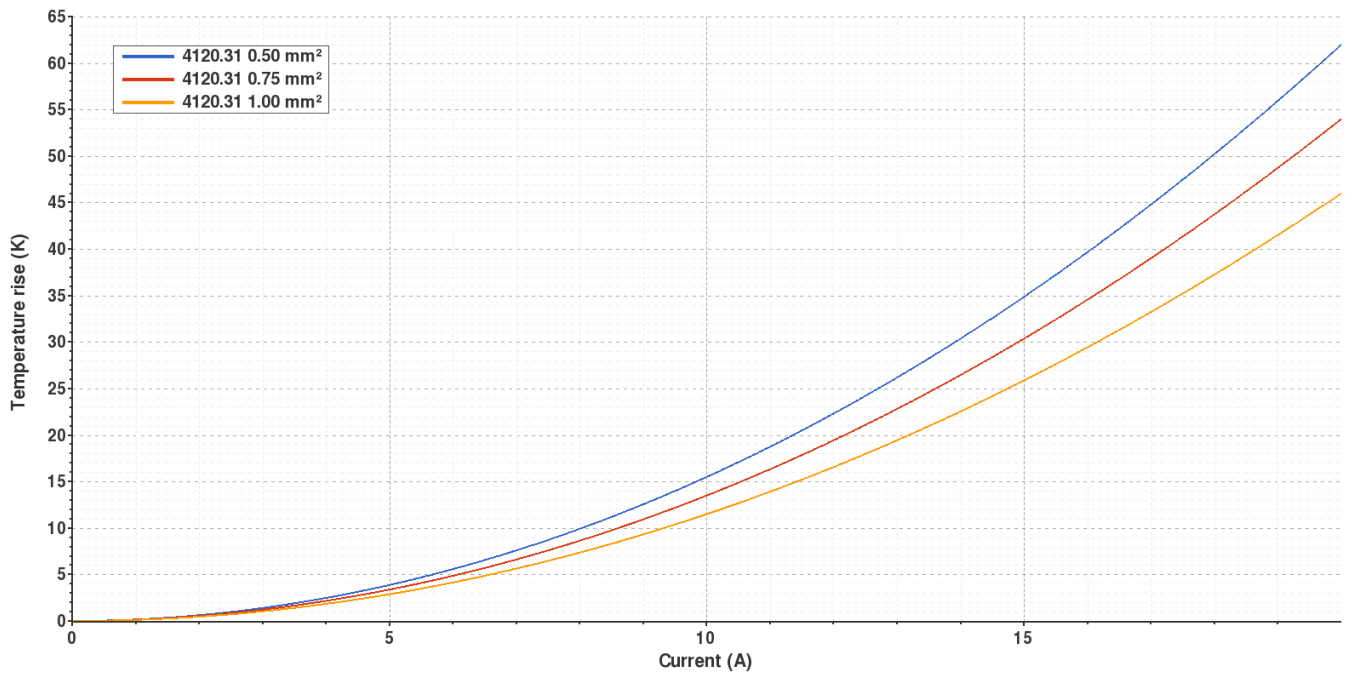
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab



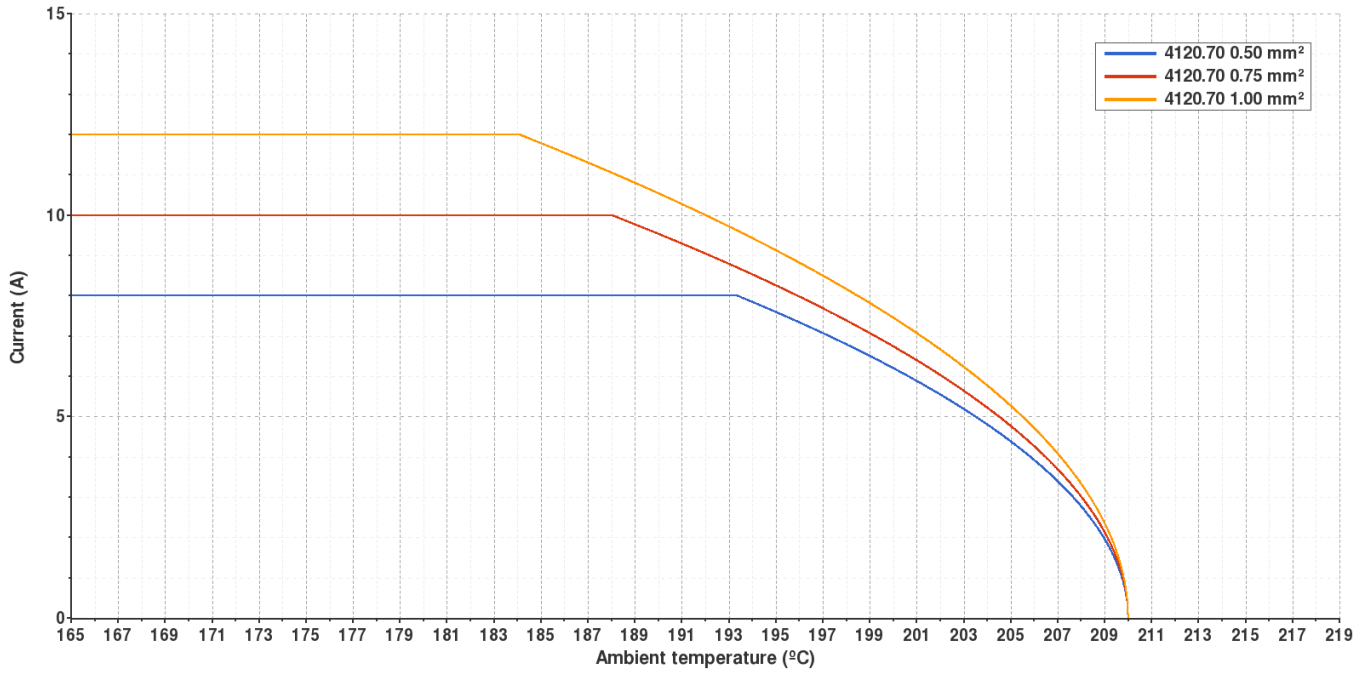
4120.70 NATURAL GERMAN SILVER

RAST 5 TERMINALS AND CONNECTORS · RECEPTACLES FOR CONNECTOR



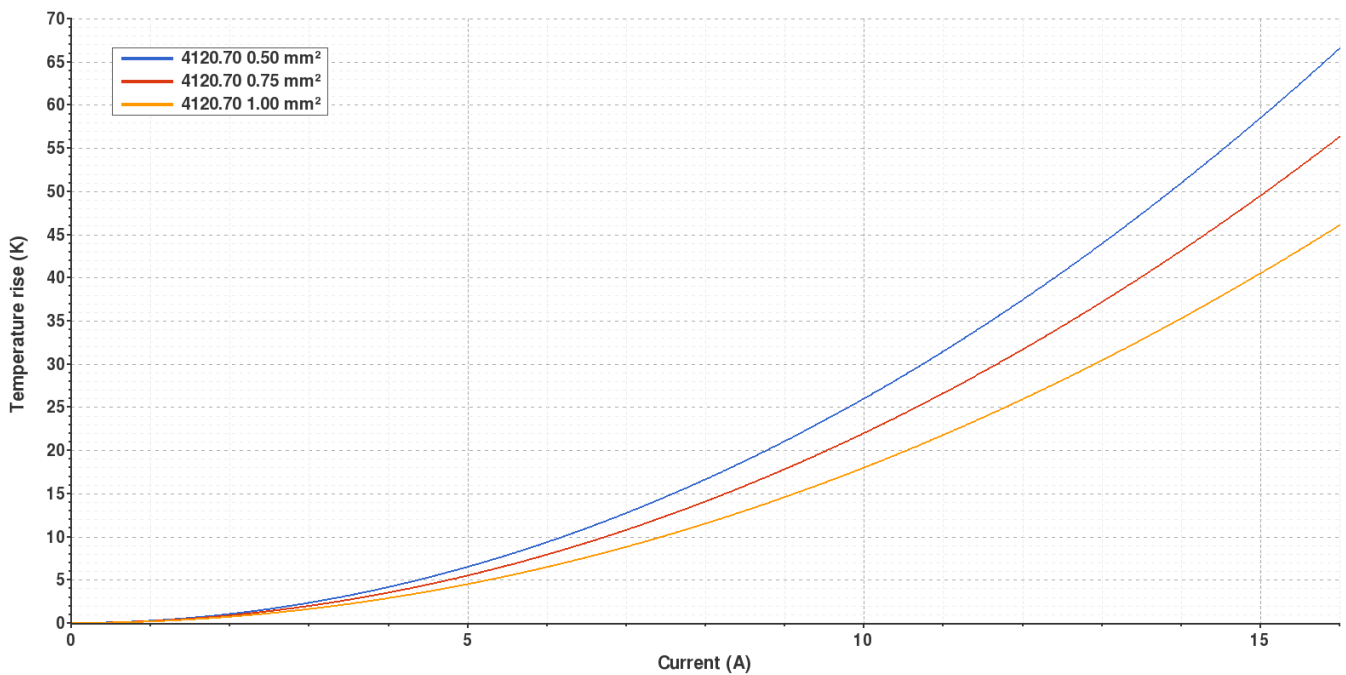
Derating curve

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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A1	Datasheet generated automatically [A1]	2019-06-04	Laboratory Dept.	E. Roura

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