

## 4123.\*\*

### RAST 5 TERMINALS AND CONNECTORS · RECEPTACLES FOR CONNECTOR



**Specification** RAST 5 CRIMP CONNECT

**For male (mm)** 6,3x0,8

**Wire size mm<sup>2</sup> (AWG)** 1-2,5 (18-14)

**Ø Insulation (mm)** 3-4,3

**Materials, temperature and contact resistance**

Part nr.	Material	Finishing	Max. Temp. (°C)	Contact Resist (mΩ)
4123.00	Brass	Natural	110	0.65
4123.01	Brass	Pre-tin-plated	120	0.50
4123.02	Brass	Tin plated	120	0.55
4123.24	Steel	Nickel-plated	300	1.50
4123.30	Bronze	Natural	120	(T.B.D.)
4123.31	Bronze	Pre-tin-plated	130	(T.B.D.)
4123.32	Bronze	Tin plated	130	(T.B.D.)
4123.70	German Silver	Natural	210	2.00

**Material thickness (mm)** 0,4

**Max. rated current**

Wire section	4123.00 / 01 / 02 / 24 / 30 / 31 / 32 / 70
1.00 mm <sup>2</sup>	12A
1.50 mm <sup>2</sup>	16A
2.50 mm <sup>2</sup>	20A

**Insertion / Withdrawal forces**


	4123.00 / 01 / 02 / 30 / 31 / 32	4123.24 / 70
1st Insertion (max)	20N <sup>1</sup>	25N <sup>1</sup>
1st Withdrawal (max)	40N <sup>1</sup>	40N <sup>1</sup>
6th Withdrawal (min)	13N <sup>1</sup>	13N <sup>1</sup>

<sup>1</sup> Valid for Natural Brass Tab

**Application tool** MN4122

**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)		
1.00 mm <sup>2</sup>	1.55 (±0.05)	3.05 (±0.05)	4.09 (±0.10)	108N @ 60s
1.50 mm <sup>2</sup>	1.70 (±0.05)	3.06 (±0.05)	4.10 (±0.10)	150N @ 60s
2.00 mm <sup>2</sup>	1.80 (±0.05)	3.07 (±0.05)	4.11 (±0.10)	150N @ 60s
2.50 mm <sup>2</sup>	1.90 (±0.05)	3.08 (±0.05)	4.12 (±0.10)	230N @ 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** 7000

**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

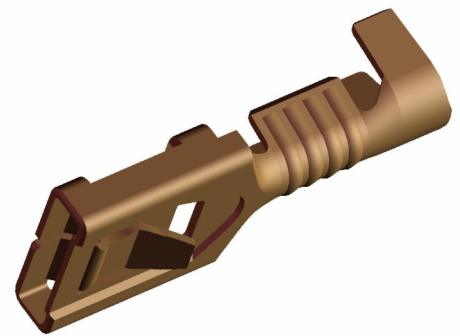
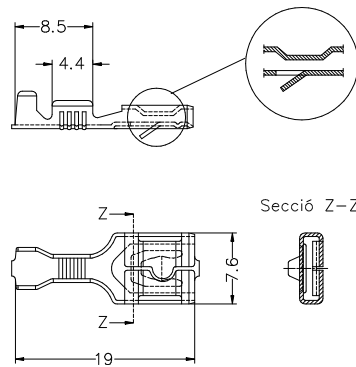
Part nr.	Approval	Standard	File	Certified framework
4123.02 <sup>1</sup>	UL	UL 1977	E222213	AWG 18 Stranded

<sup>1</sup> Cat. No. meets with the standard UL1977 as a component of UP-RAST5 full connection system.  
 Rated current and voltage:  
 4123.02/6434.02 - AWG 18 - 12A/600V (USR) - 10A/600V (CNR)  
 4123.02/6427.02 - AWG 18 - 12A/600V (USR) - 10A/600V (CNR)

#### Approvals



#### Drawing

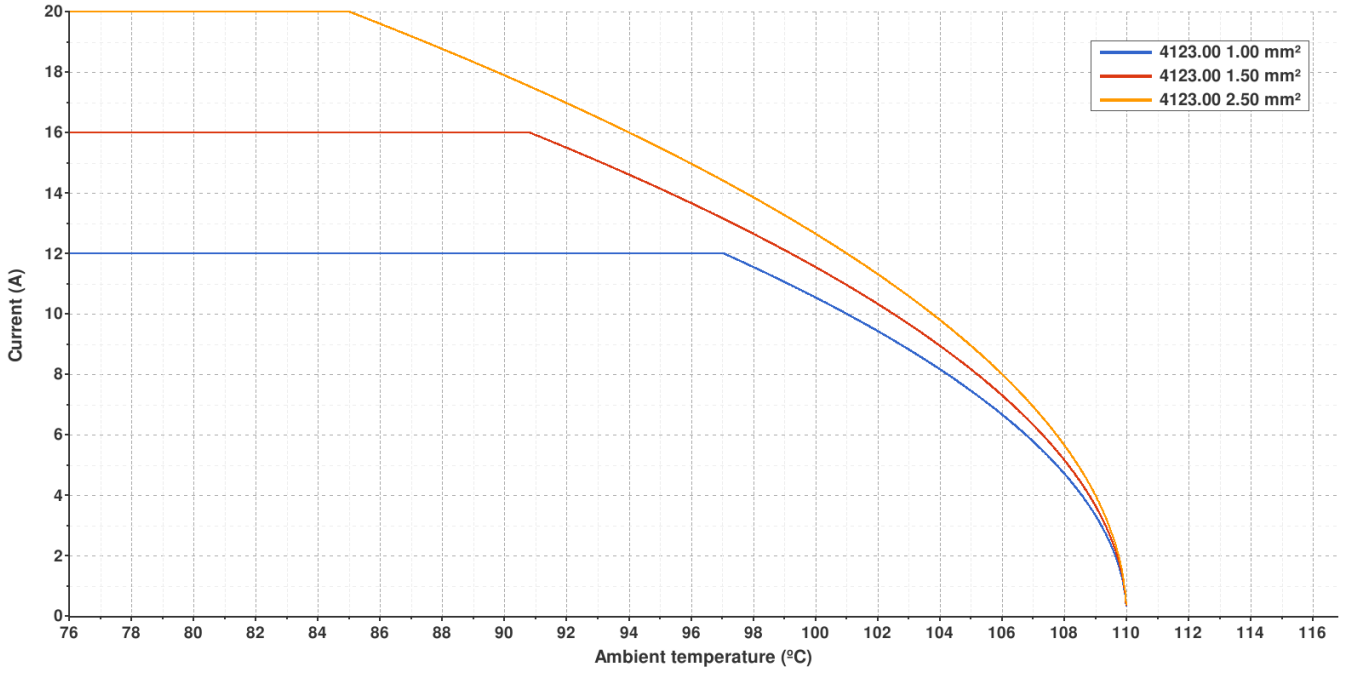


**4123.00 NATURAL BRASS**

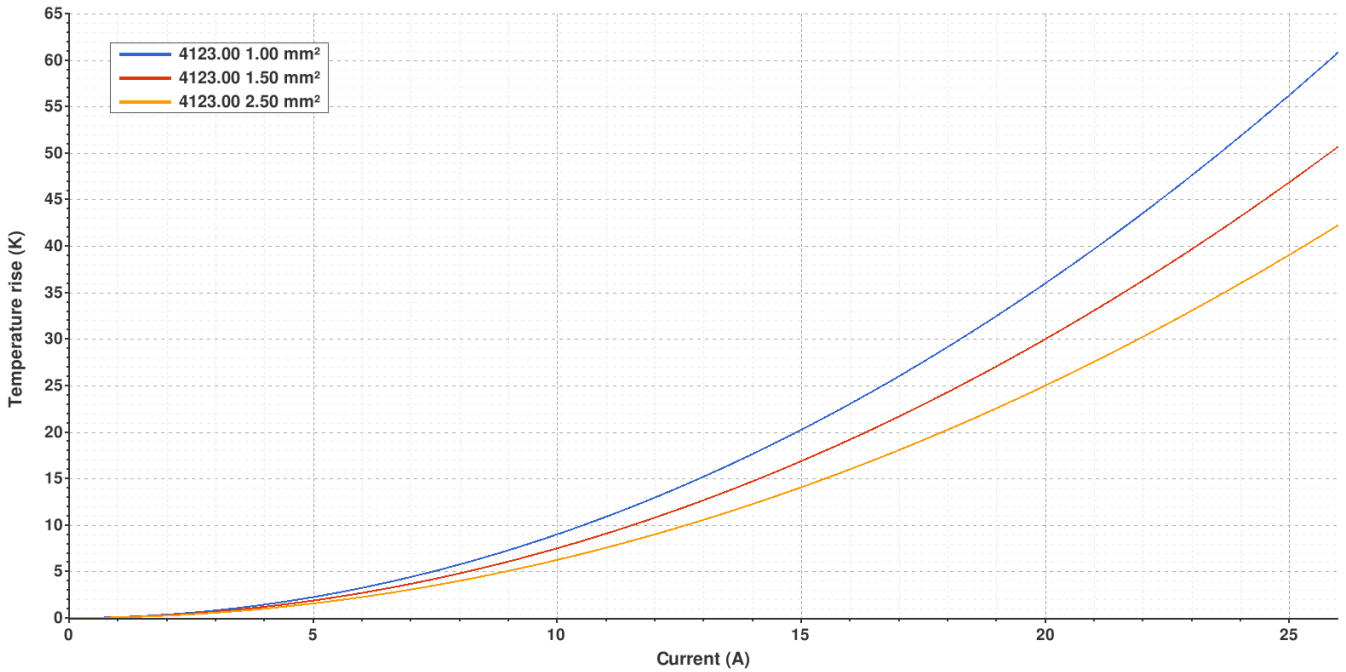


**RAST 5 TERMINALS AND CONNECTORS · RECEPTACLES FOR CONNECTOR**

**Derating curve** Current carrying capacity vs. Ambient temperature



**Temperature rise curve** Terminal temperature rise due to the current carried



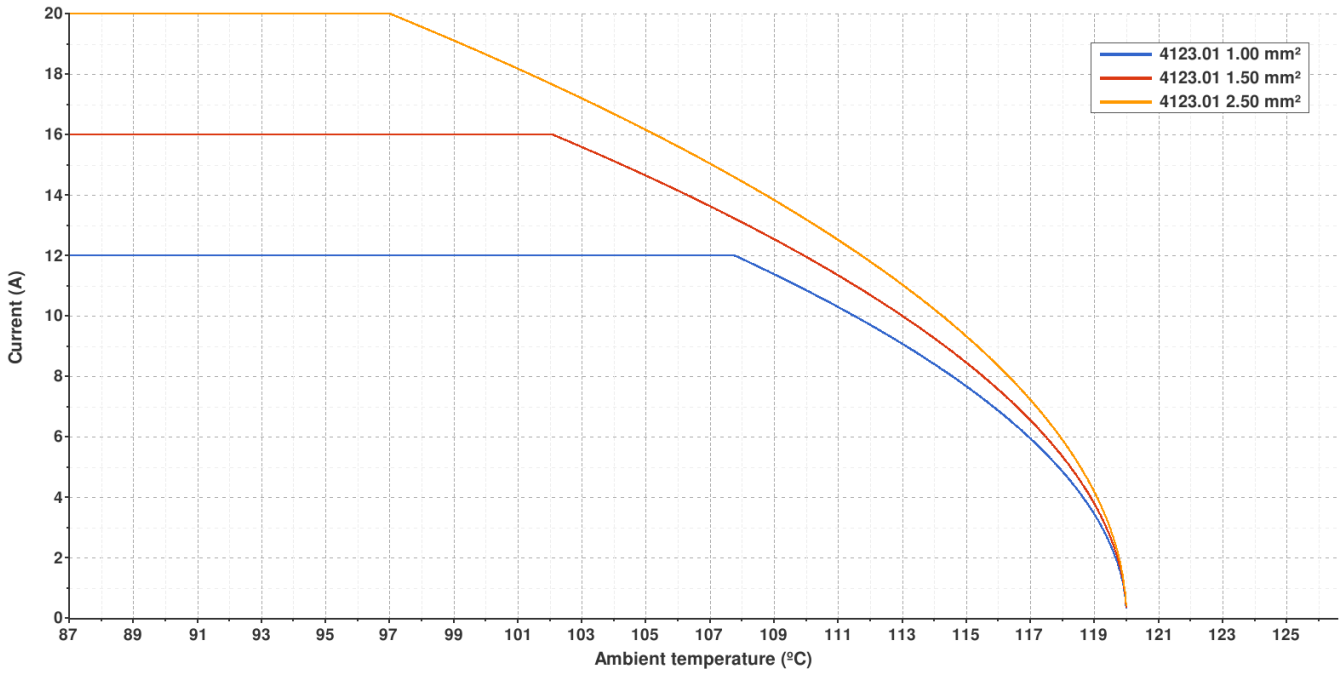
Valid for Natural Brass Tab

**4123.01 PRE-TIN-PLATED BRASS**

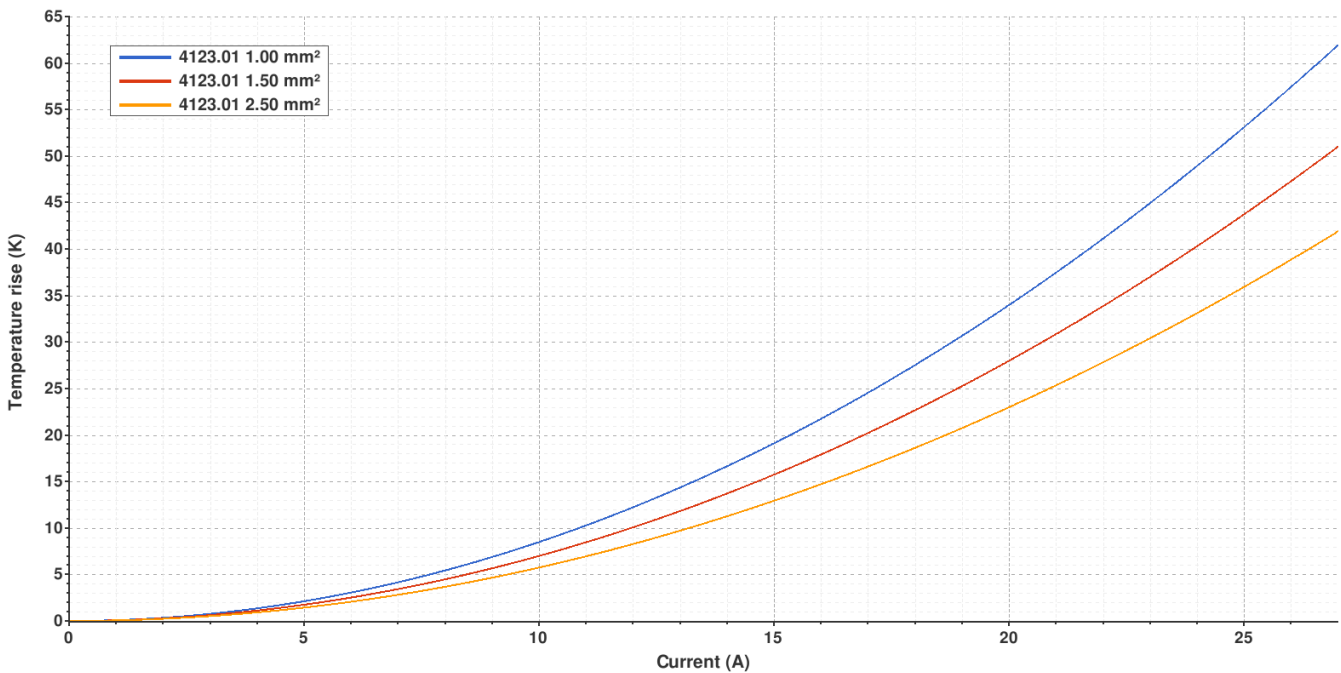


**RAST 5 TERMINALS AND CONNECTORS · RECEPTACLES FOR CONNECTOR**

**Derating curve** Current carrying capacity vs. Ambient temperature



**Temperature rise curve** Terminal temperature rise due to the current carried



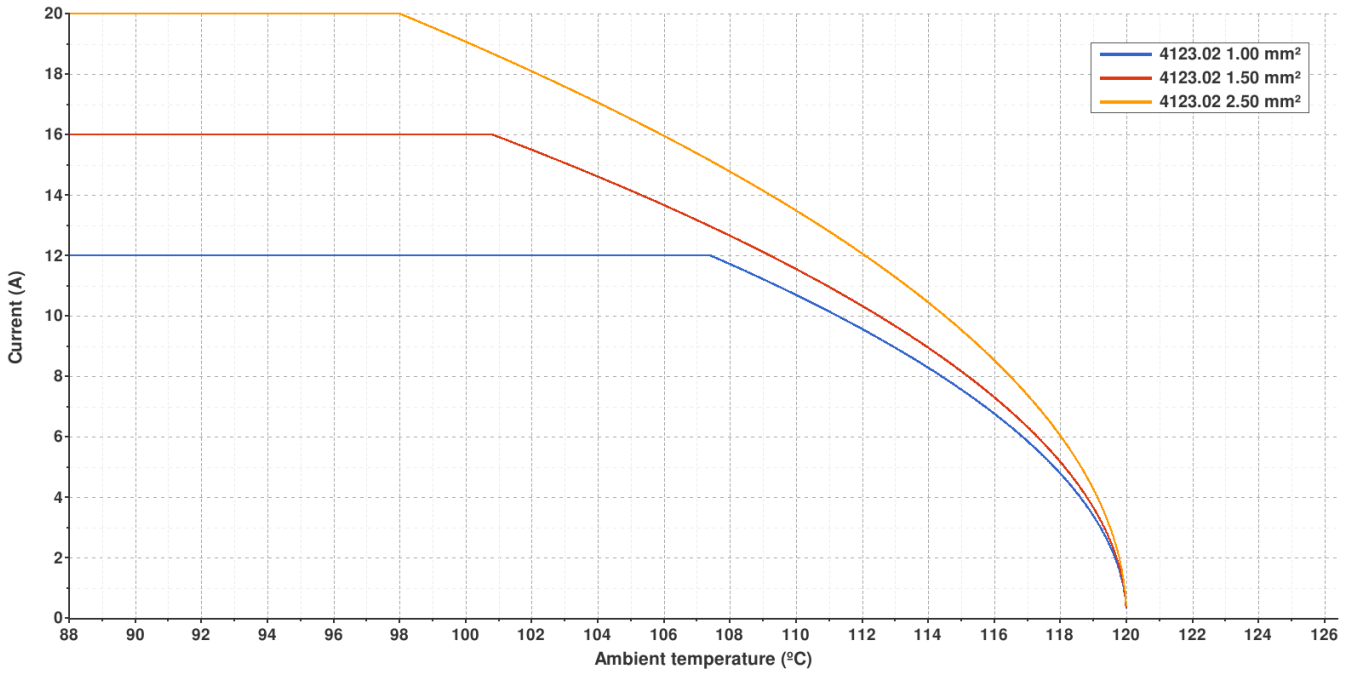
Valid for Natural Brass Tab

**4123.02 TIN PLATED BRASS**

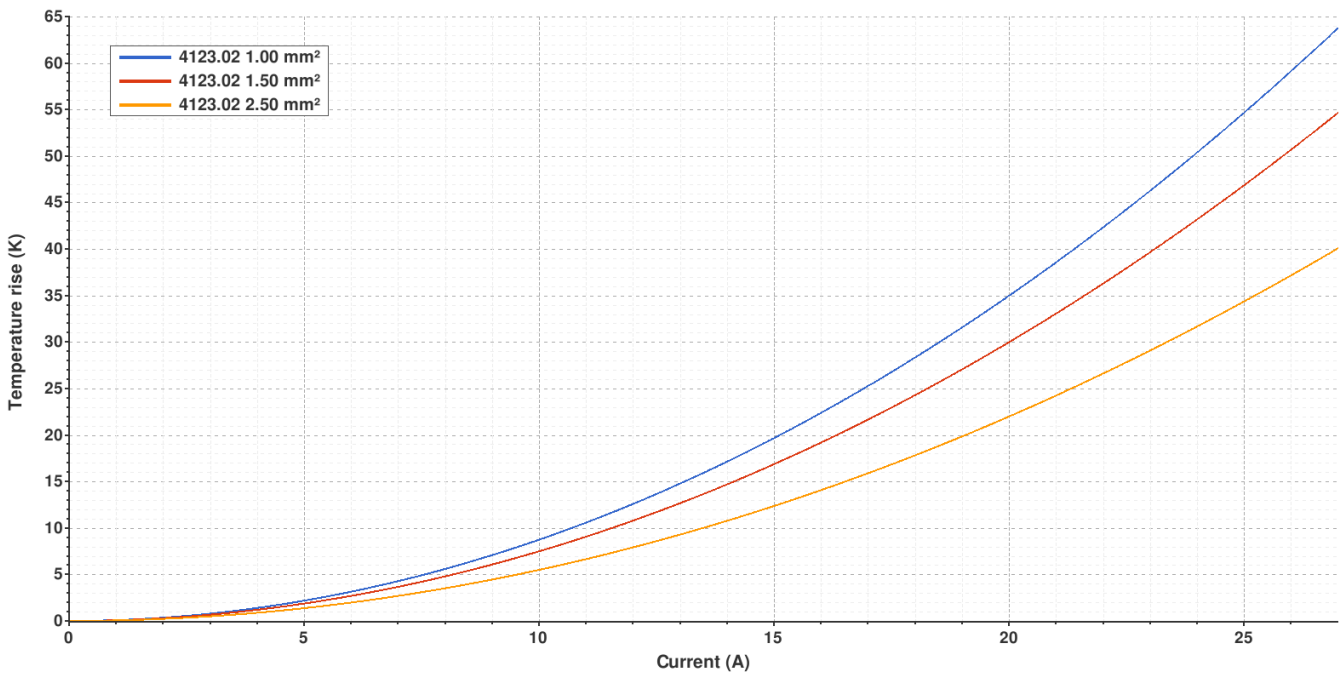


**RAST 5 TERMINALS AND CONNECTORS · RECEPTACLES FOR CONNECTOR**

**Derating curve** Current carrying capacity vs. Ambient temperature



**Temperature rise curve** Terminal temperature rise due to the current carried



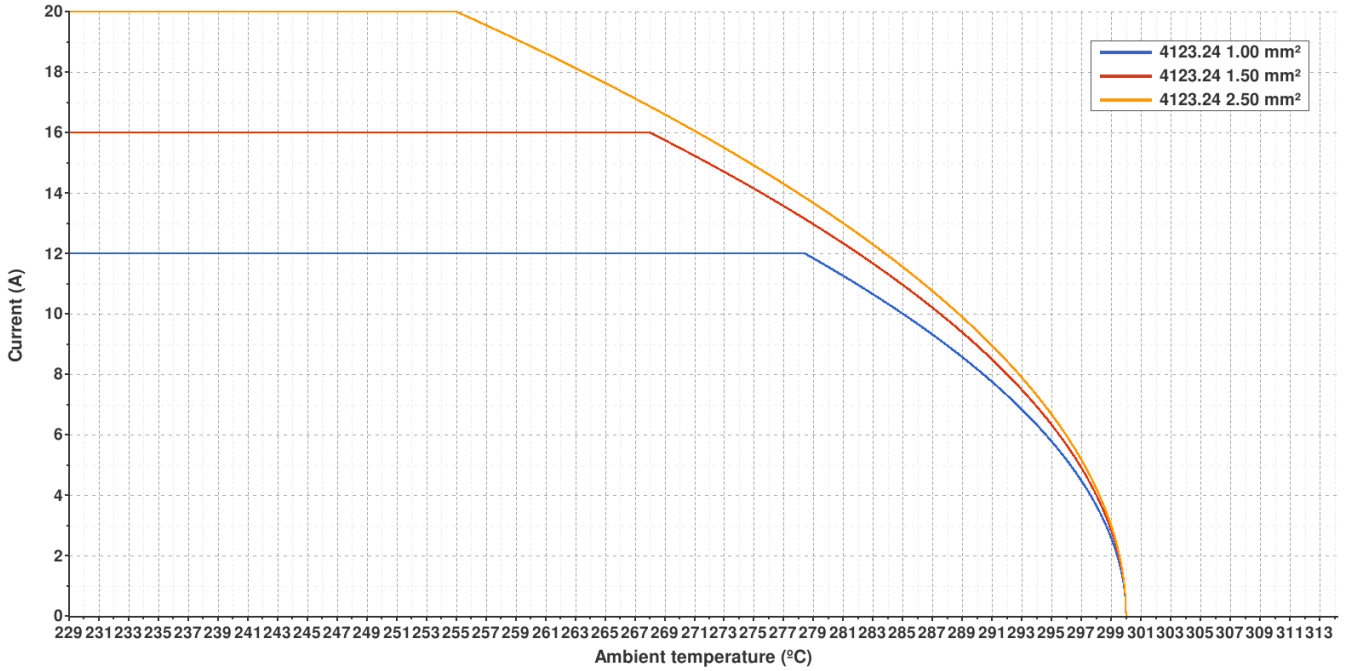
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**4123.24 NICKEL-PLATED STEEL**

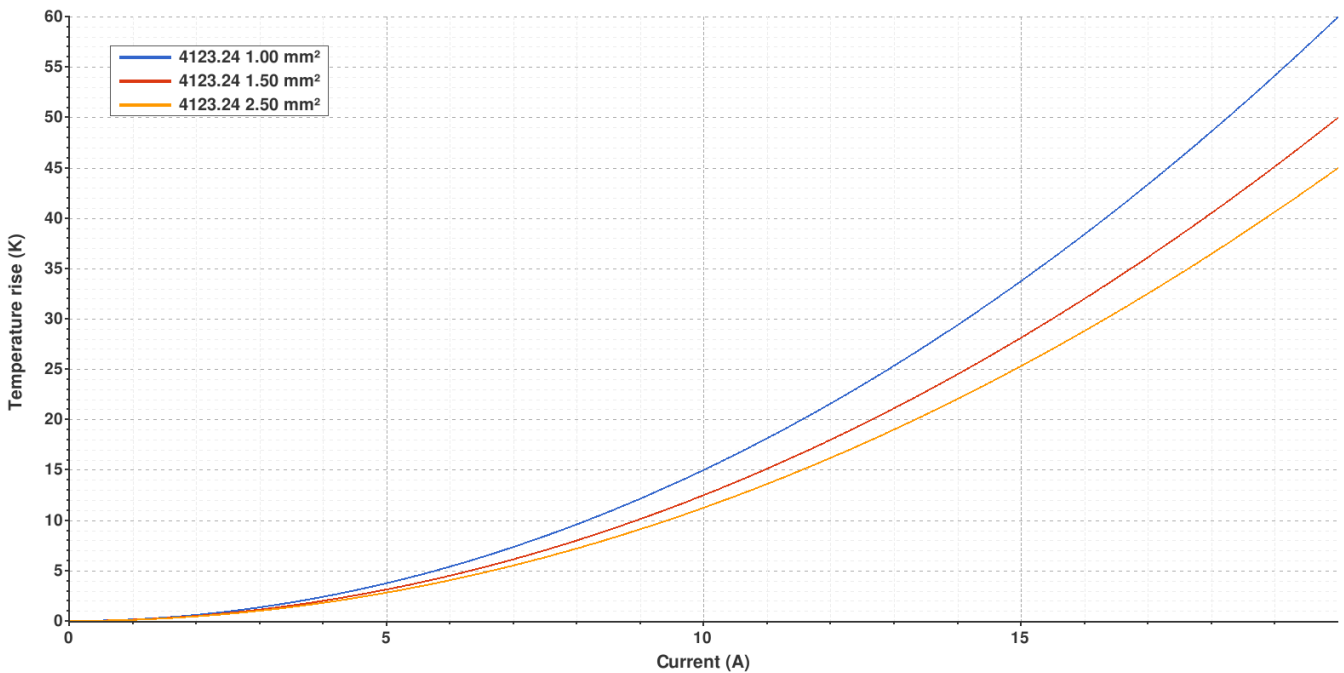


**RAST 5 TERMINALS AND CONNECTORS · RECEPTACLES FOR CONNECTOR**

**Derating curve** Current carrying capacity vs. Ambient temperature



**Temperature rise curve** Terminal temperature rise due to the current carried



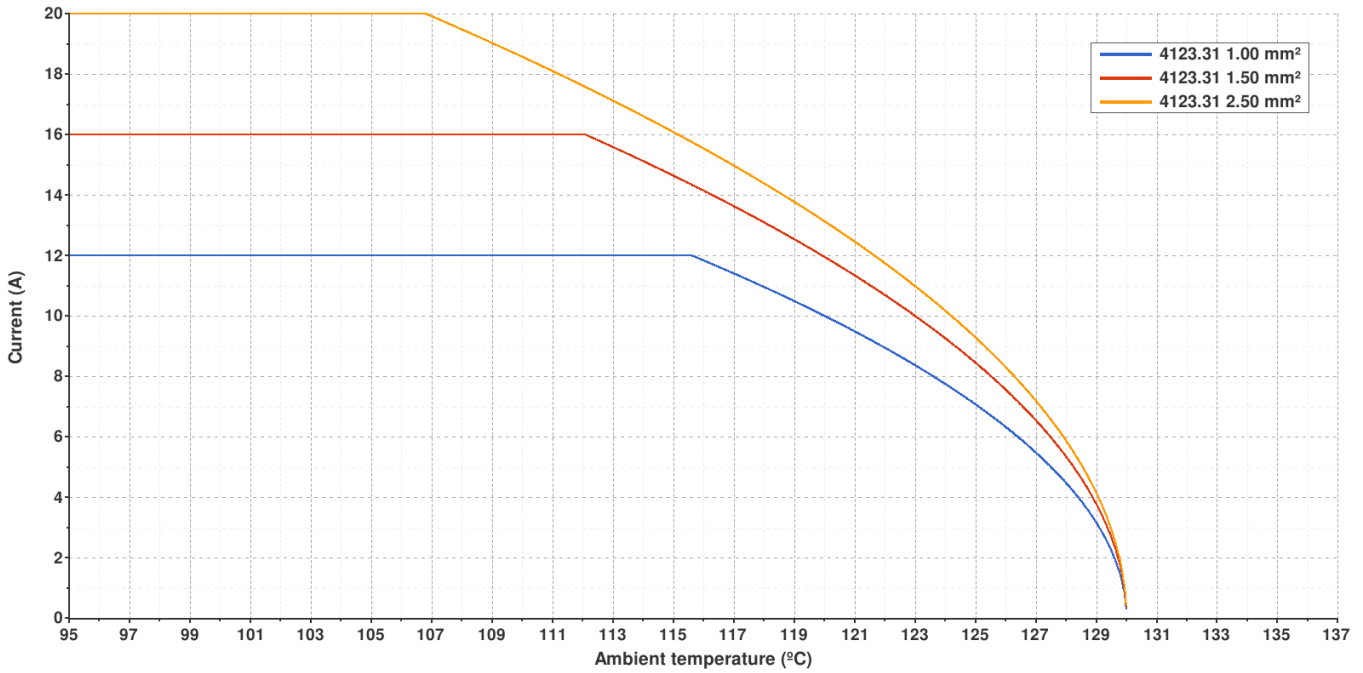
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**4123.31 PRE-TIN-PLATED BRONZE**

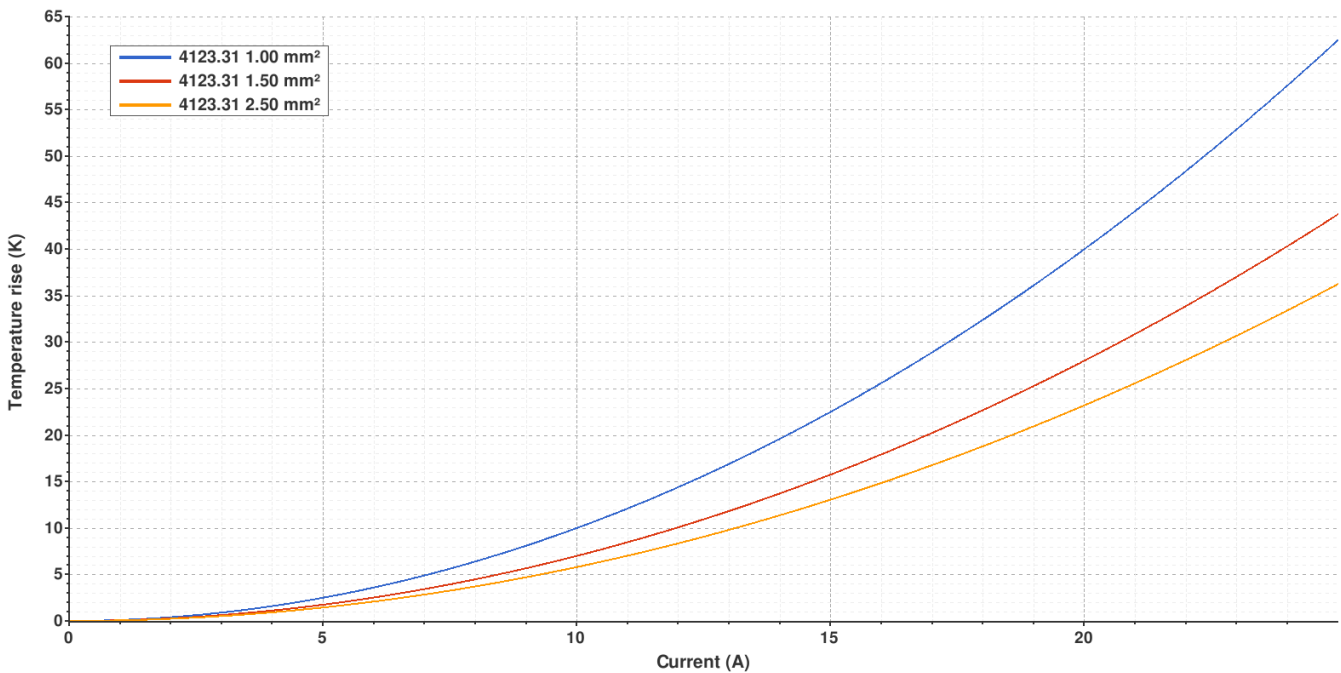


**RAST 5 TERMINALS AND CONNECTORS · RECEPTACLES FOR CONNECTOR**

**Derating curve** Current carrying capacity vs. Ambient temperature



**Temperature rise curve** Terminal temperature rise due to the current carried



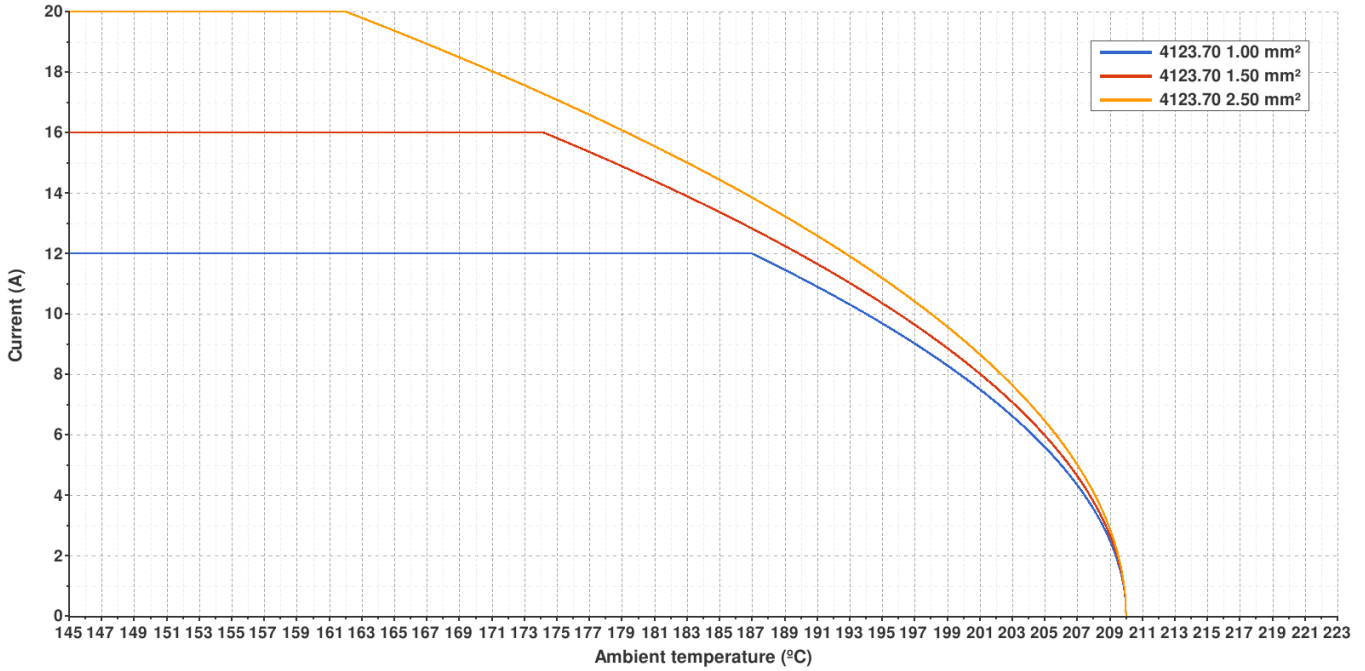
Valid for Natural Brass Tab

**4123.70 NATURAL GERMAN SILVER**

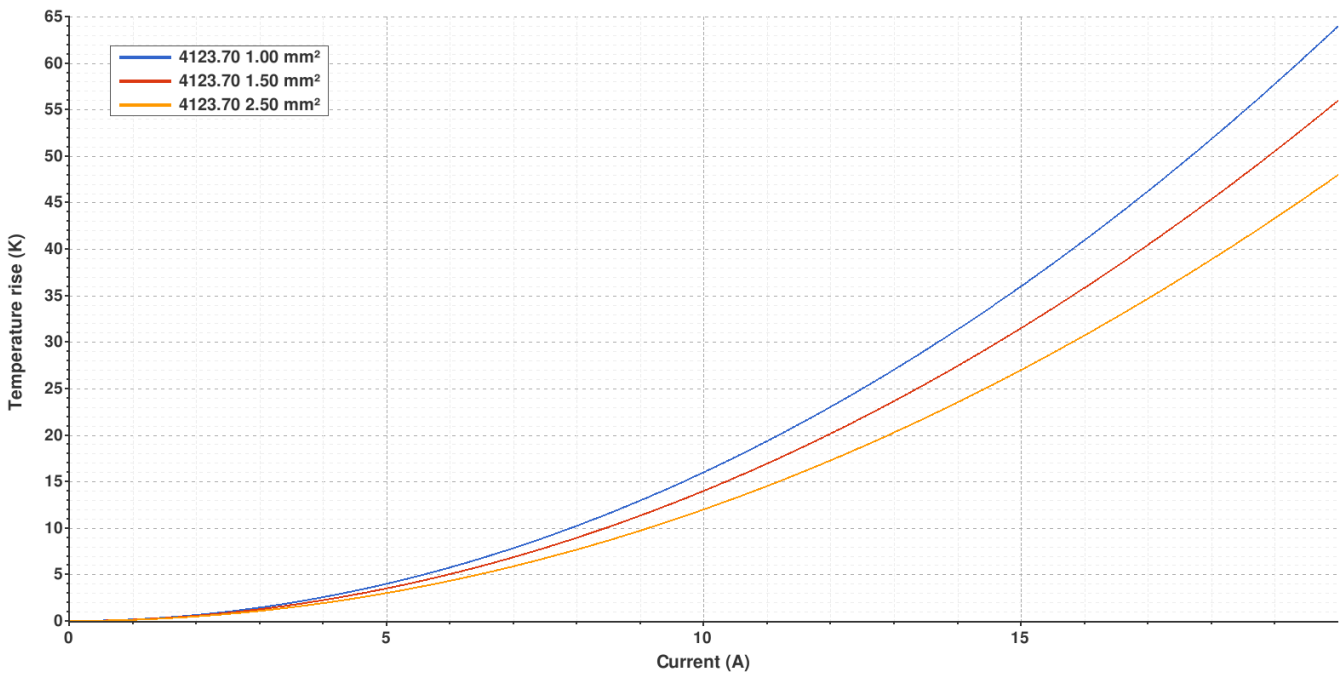


**RAST 5 TERMINALS AND CONNECTORS · RECEPTACLES FOR CONNECTOR**

**Derating curve** Current carrying capacity vs. Ambient temperature



**Temperature rise curve** Terminal temperature rise due to the current carried



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**4123.\*\***

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

**Disclaimer**

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Rev. Nr.	Concept	Date	Created/Revised	Approved
A7	Insertion and withdrawal forces - Update	2022-02-14	E. Roura (Laboratory Dept.)	O. Roura (Engineering Dept.)
A6	Change company name and logo	2021-10-21	E. Roura (Laboratory Dept.)	O. Roura (Engineering Dept.)
A5	New material (4123.51)	2021-08-05	E. Roura (Laboratory Dept.)	O. Roura (Engineering Dept.)
A4	Added material .51	2021-05-31	M.Codina (Engineering dept.)	E.Roura (Laboratory dept.)
A3	Derating and temperature rise curve updated	2021-04-09	E.Roura (laboratory dept.)	M.Codina (engineering dept.)
A2	Update contact resistance	2019-06-05	Laboratory Dept.	E. Roura
A1	Datasheet generated automatically [A1]	2018-11-08	Laboratory Dept.	E. Roura