5814.**
4.8 (.187) TYPE SERIES · FLAGS

Specification Low insertion

Typology With Upper Dimple

For male (mm) 4,8x0,8

Wire size mm² (AWG) 0,5-1,5 (20-16)

Ø Insulation (mm) 1,9-3,3

Materials, temperature and contact resistance

Part nr.	Material	Finishing	Max. Temp. (ºC)	Contact Resist (mΩ)
5814.00	Brass	Natural	110	0.75
5814.01	Brass	Pre-tin-plated	120	0.60
5814.30	Bronze	Natural	120	(T.B.D.)
5814.31	Bronze	Pre-tin-plated	130	1.00
5814.32	Bronze	Tin plated	130	(T.B.D.)
5814.24	Steel	Nickel-plated	300	1.50
5814.70	German Silver	Natural	210	(T.B.D.)

Material thickness (mm) 0,35

Max. rated current

Wire section	5814.00 / 01 / 30 / 31 / 32 / 24 / 70
0.50 mm²	8A
0.75 mm²	10A
1.00 mm²	12A
1.50 mm²	16A

Insertion / Withdrawal forces

	5814.00 / 01 / 30 / 31 / 32 / 24 / 70
1st Insertion (max)	25N[1]
1st Withdrawal (max)	50N[1]
1st Withdrawal (min)	22N[1]
6th Withdrawal (min)	13N[1]

[1] Valid for Natural Brass Tab

Application tool MN5814

Crimping parameters & pull out force

Wire section (±10%)	Conductor		Insulator	Pull-out force (N)
	Height (mm)	Width (mm)	Width (mm)	
0.50 mm²	1.25 (±0.03)	2.42 (±0.03)	3.28 (±0.10)	56N @ 60s
0.75 mm²	1.35 (±0.05)	2.44 (±0.05)	3.30 (±0.10)	84N @ 60s
1.00 mm²	1.45 (±0.05)	2.46 (±0.05)	3.42 (±0.10)	108N @ 60s
1.50 mm²	1.65 (±0.05)	2.47 (±0.05)	3.50 (±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 5000

Compatible connectors 24833**

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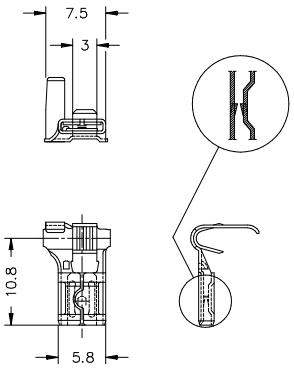
Approved regulations

Part nr.	Approval	Standard	File	Certified framework
5814.00	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN5814
5814.00	VDE	EN 61210	5000955-1433-0001 / 242926 / TL6 / RHZ	0,5 ... 1,5mm2. 110ºC max
5814.01	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN5814
5814.24	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN5814

Approvals

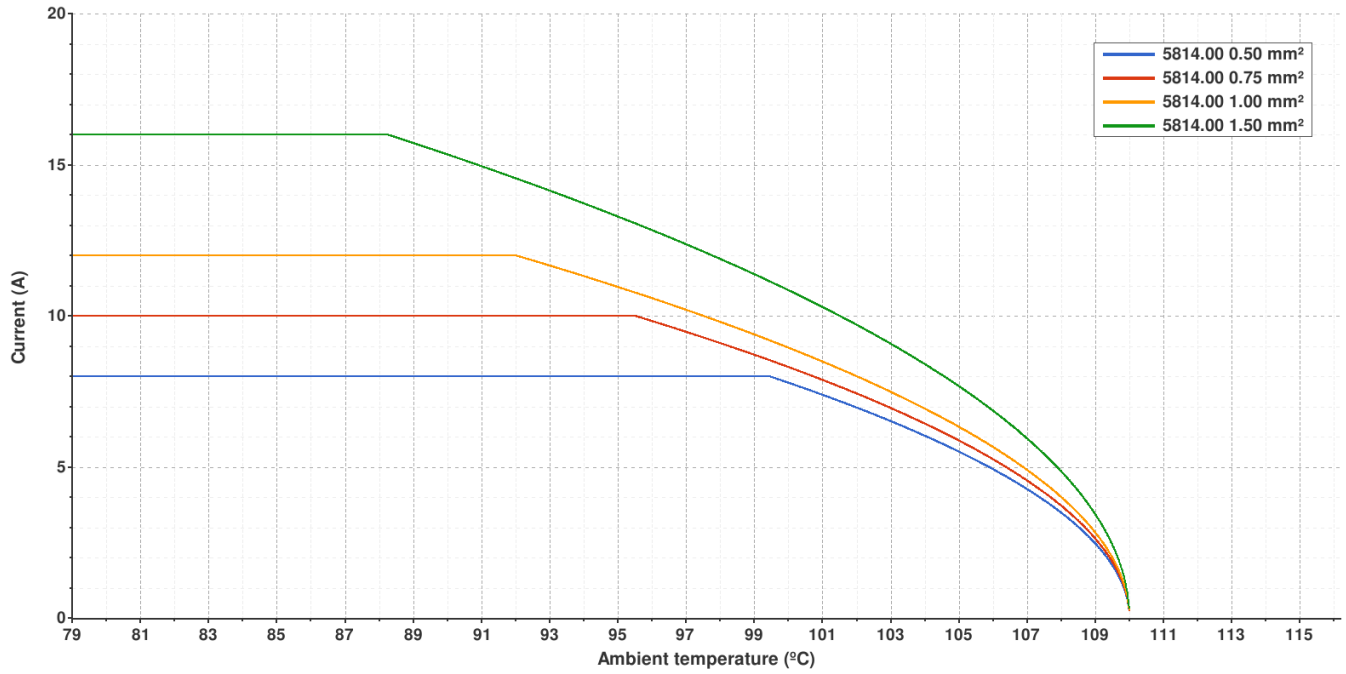
Drawing



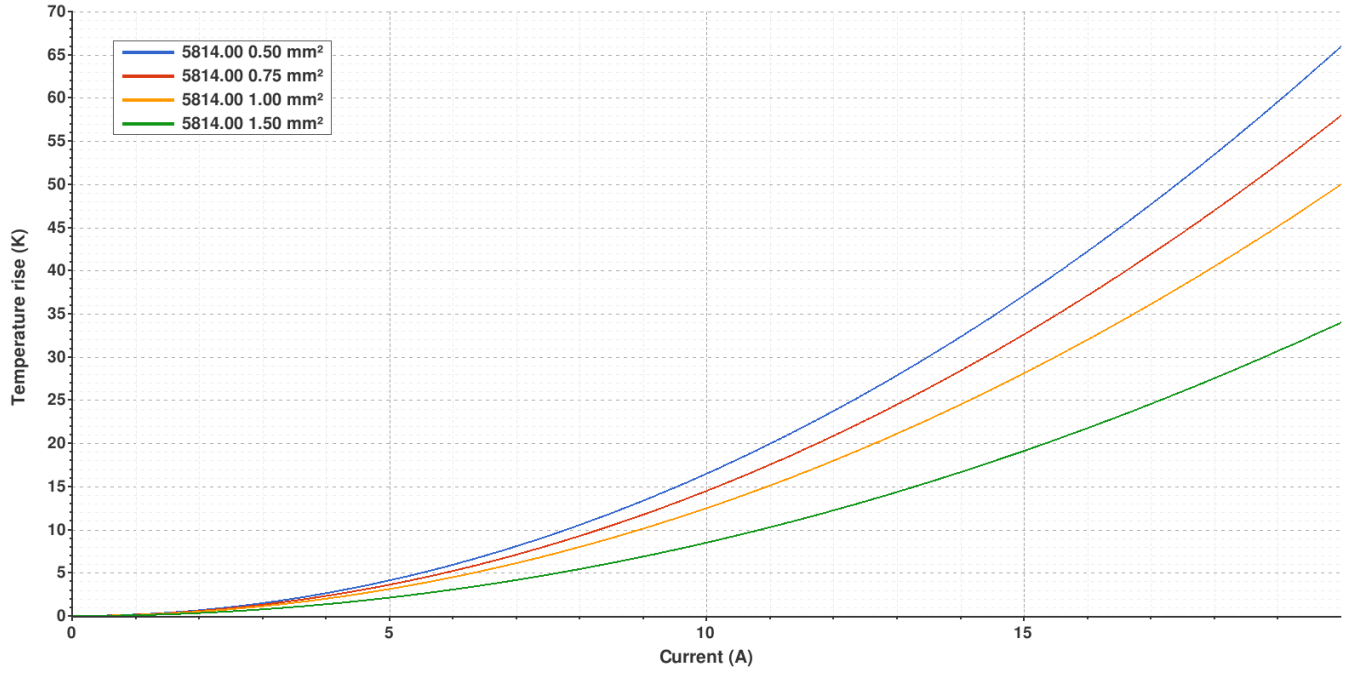
5814.00 NATURAL BRASS

4.8 (.187) TYPE SERIES · FLAGS

Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

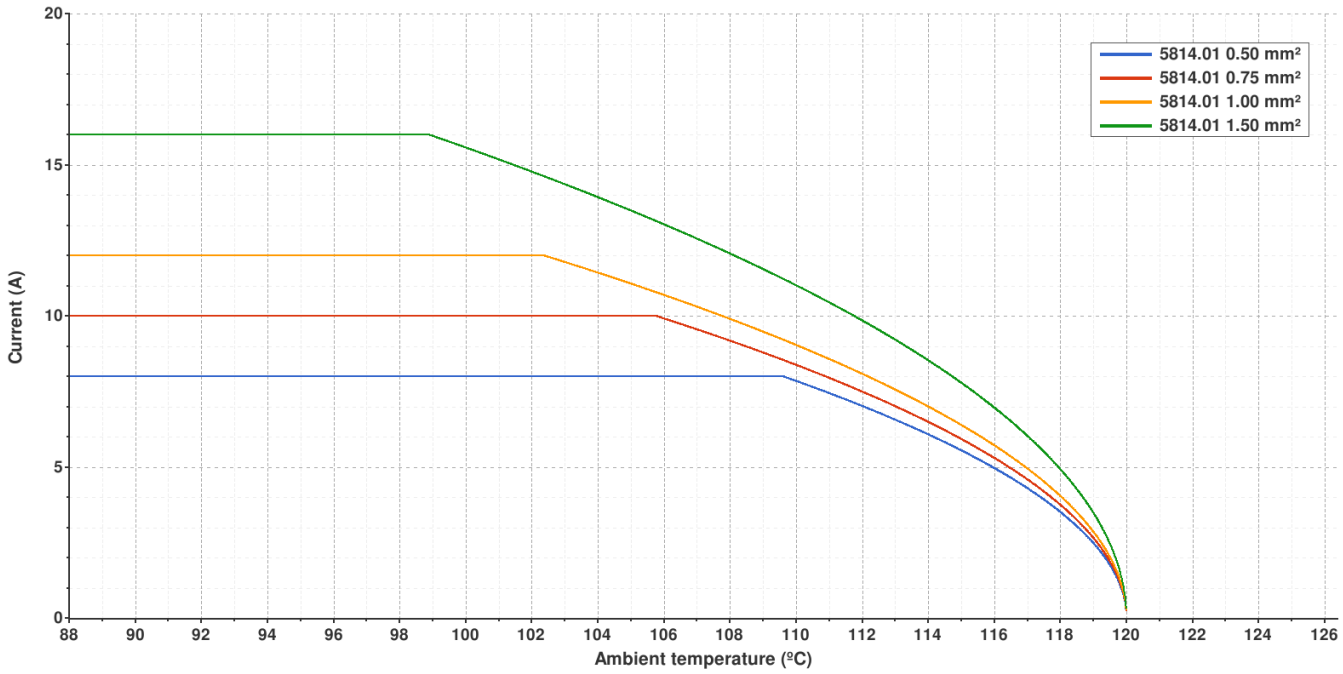


Valid for Natural Brass Tab

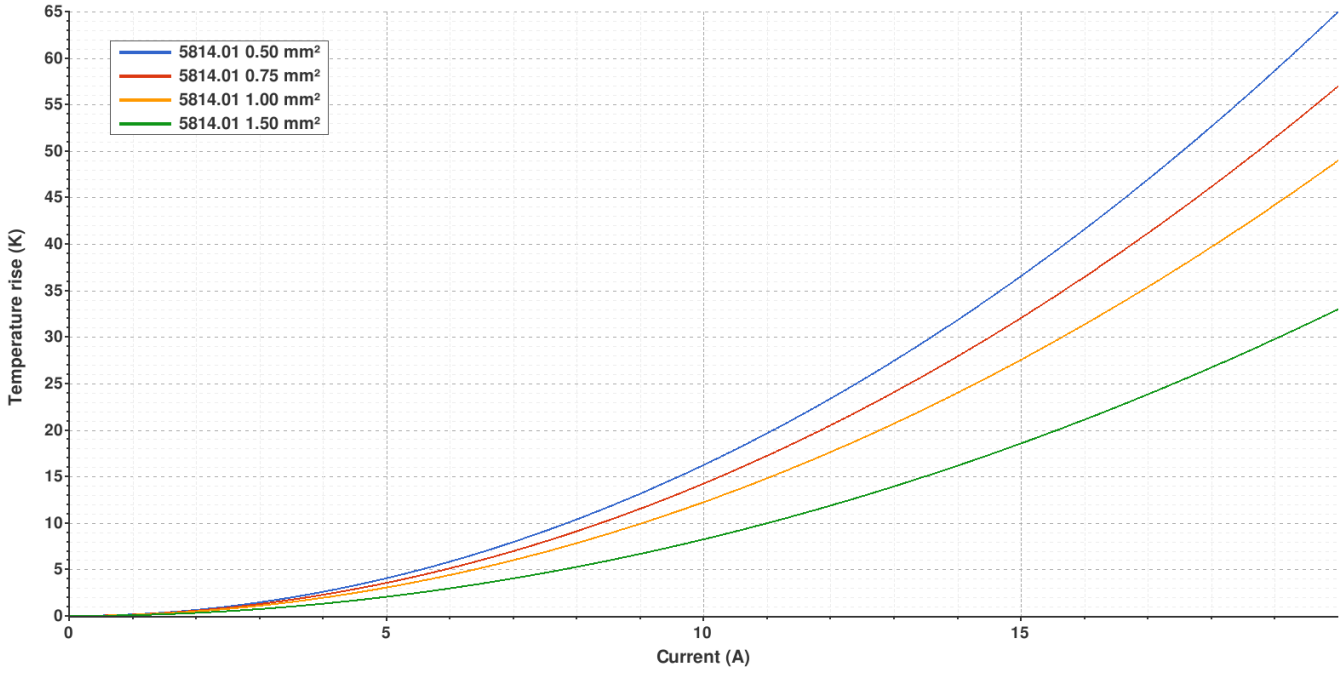
5814.01 PRE-TIN-PLATED BRASS

4.8 (.187) TYPE SERIES · FLAGS

Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

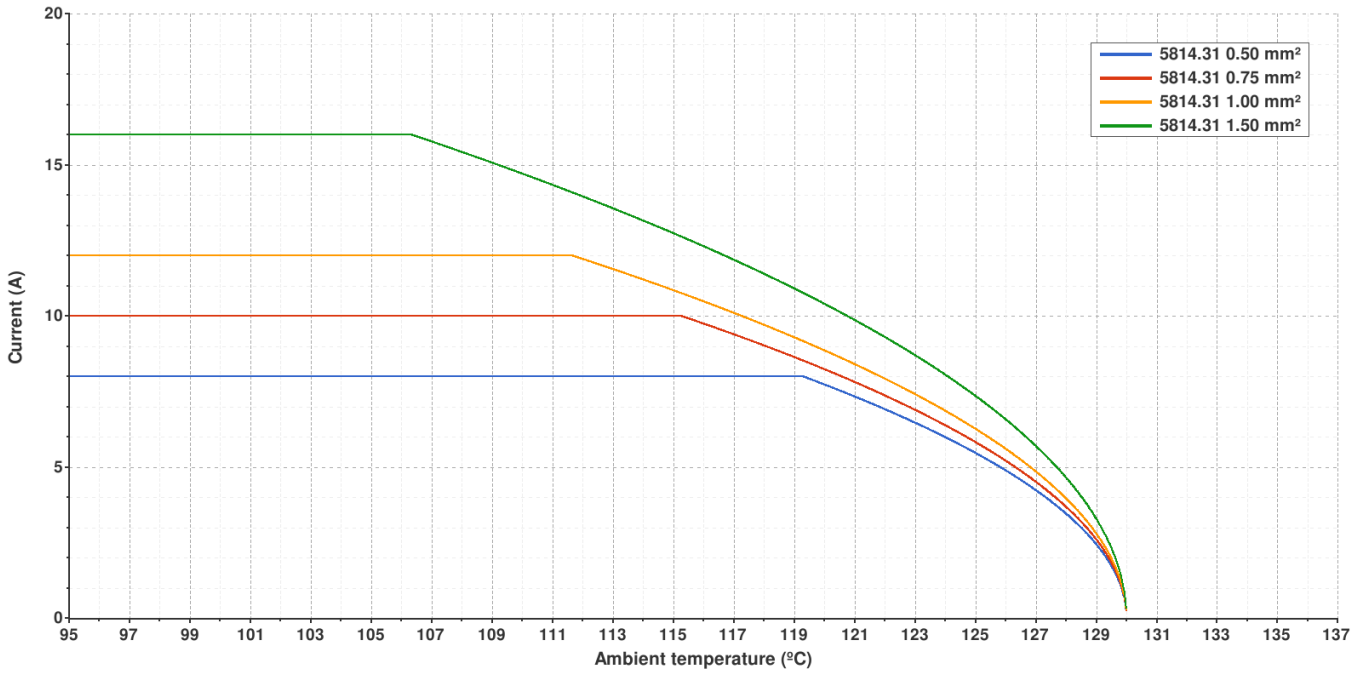


Valid for Natural Brass Tab

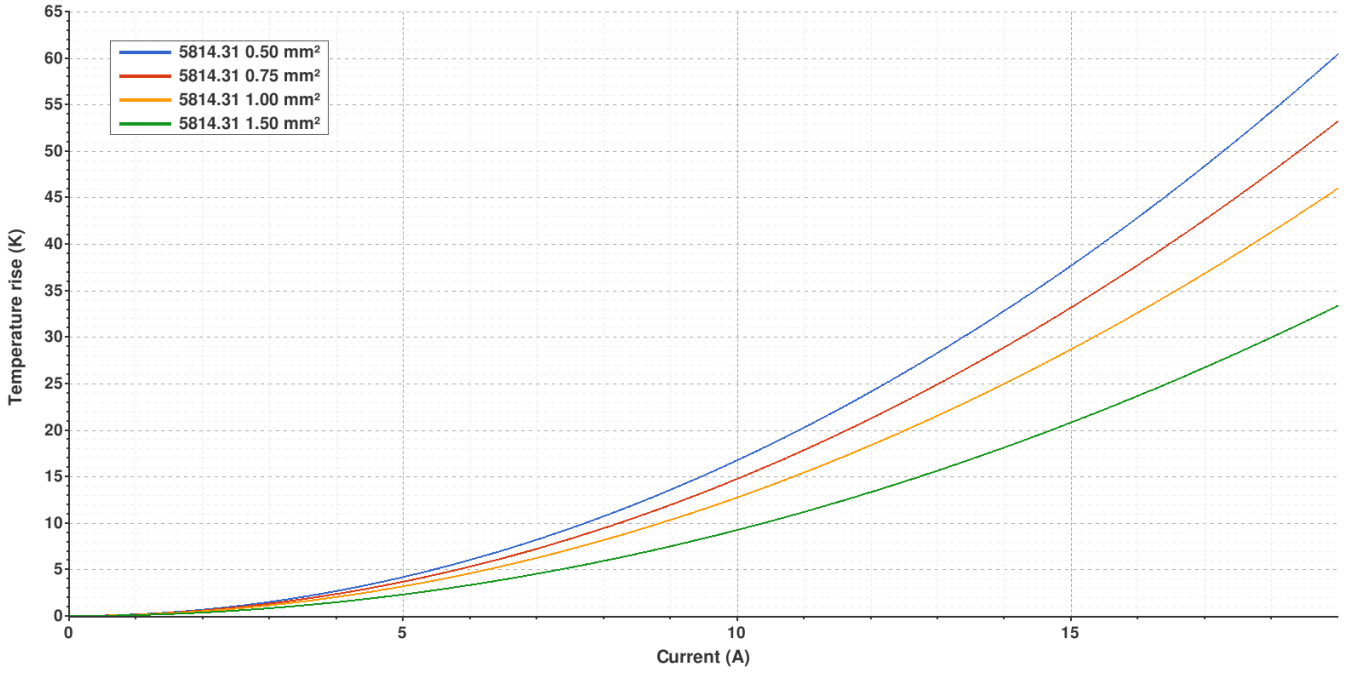
5814.31 PRE-TIN-PLATED BRONZE

4.8 (.187) TYPE SERIES · FLAGS

Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

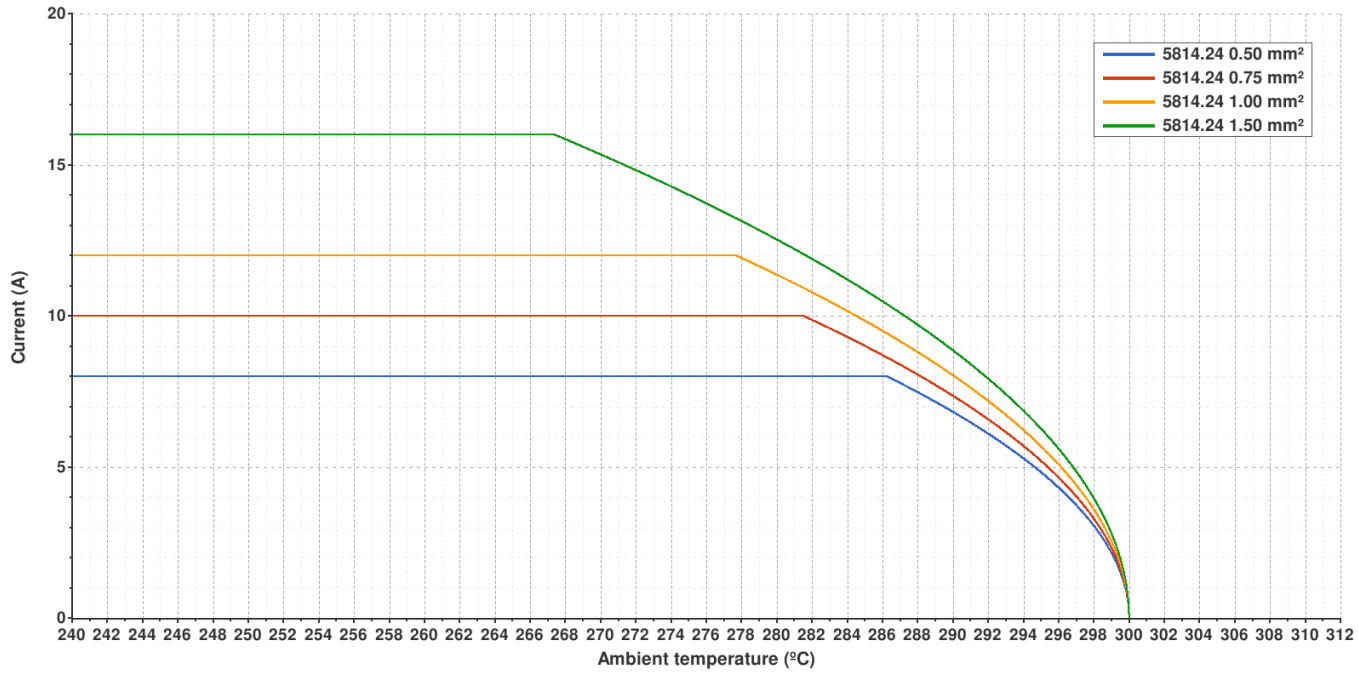


Valid for Natural Brass Tab

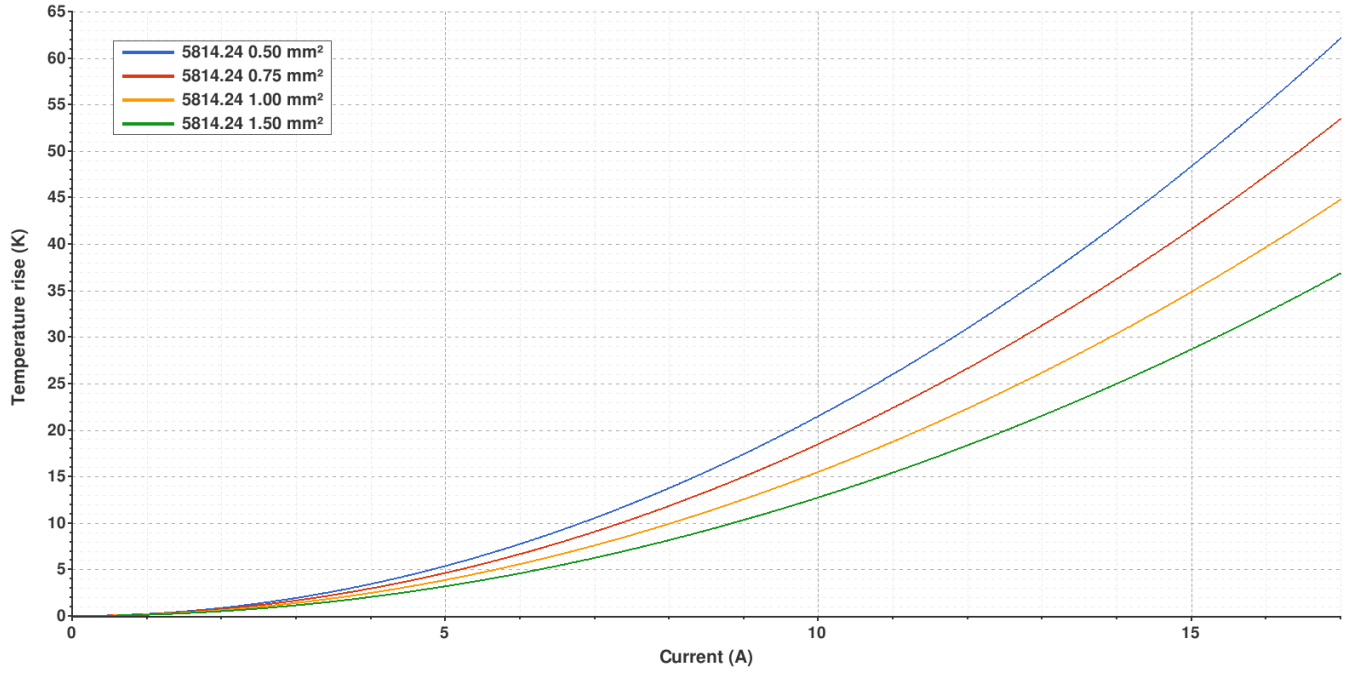
5814.24 NICKEL-PLATED STEEL

4.8 (.187) TYPE SERIES · FLAGS

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
A3	Add de-rating and temp. rise curves	2024-10-01	E. Roura (Laboratory dept.)	D. Yabar (Engineering dept.)
A2	Change company name and logo	2021-10-21	E. Roura (Laboratory Dept.)	D. Yabar (Engineering Dept.)
A1	Datasheet created automatically [A1]	2021-05-03	E. Roura (Laboratory Dept.)	D. Yabar (Engineering Dept.)

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