

5830.** 6.3 (.250) TYPE SERIES · FLAGS



Specification Long Flag

For male (mm) 6,3x0,8

Wire size mm² (AWG) 2,5-5 (14-10)

Ø Insulation (mm) 3,6-5

Materials, temperature and contact resistance

Part nr.	Material	Finishing	Max. Temp. (°C)	Contact Resist (mΩ)
5830.00	Brass	Natural	110	0.75
5830.01	Brass	Pre-tin-plated	120	0.50
5830.24	Steel	Nickel-plated	300	2.00
5830.51	Cu. Alloy	Pre-tin-plated	150	0.50

Material thickness (mm) 0,4

Max. rated current

Wire section	5830.00 / 01 / 24 / 51
2.50 mm ²	20A
3.00 mm ²	20A
4.00 mm ²	26A
5.00 mm ²	26A

Insertion / Withdrawal forces



	5830.00	5830.01 / 24 / 51
1st Insertion (max)	35N ¹	35N ¹
1st Withdrawal (max)	60N ¹	60N ¹
1st Withdrawal (min)	27N ¹	22N ¹
6th Withdrawal (min)	22N ¹	18N ¹

¹ Valid for Natural Brass Tab

Application tool MN5830

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)	
2.50 mm ²	1.95 (±0.05)	3.47 (±0.05)	4.05 (±0.10)	230N @ 60s
3.00 mm ²	2.05 (±0.05)	3.50 (±0.05)	4.20 (±0.10)	≥ 250N
4.00 mm ²	2.25 (±0.05)	3.55 (±0.05)	4.23 (±0.10)	310N @ 60s
5.00 mm ²	2.50 (±0.05)	3.60 (±0.05)	4.35 (±0.10)	≥ 350N

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 2100

Approved regulations

Part nr.	Approval	Standard	File	Certified framework
5830.00	UL	UL 310	E211727	AWG 12-12 (65-65 Stranded Cu) / MN5830
5830.01	UL	UL 310	E211727	AWG 12-12 (65-65 Stranded Cu) / MN5830
5830.51	UL	UL 310	E211727	AWG 12-12 (65-65 Stranded Cu) / MN5830

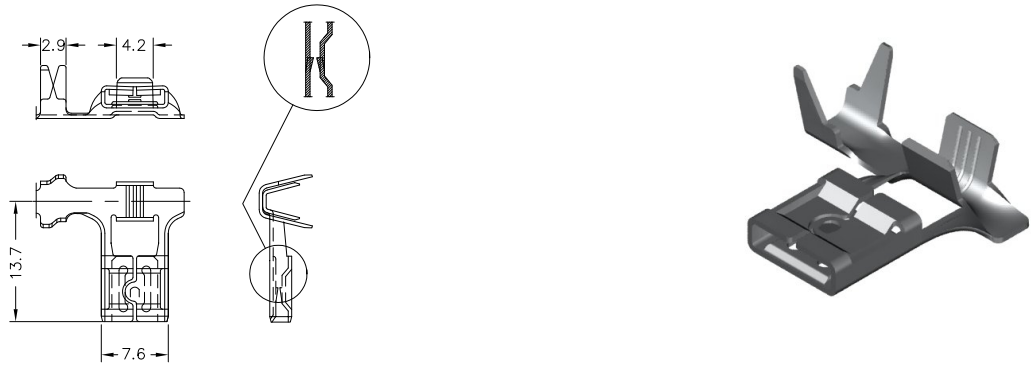
5830.**
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Approvals



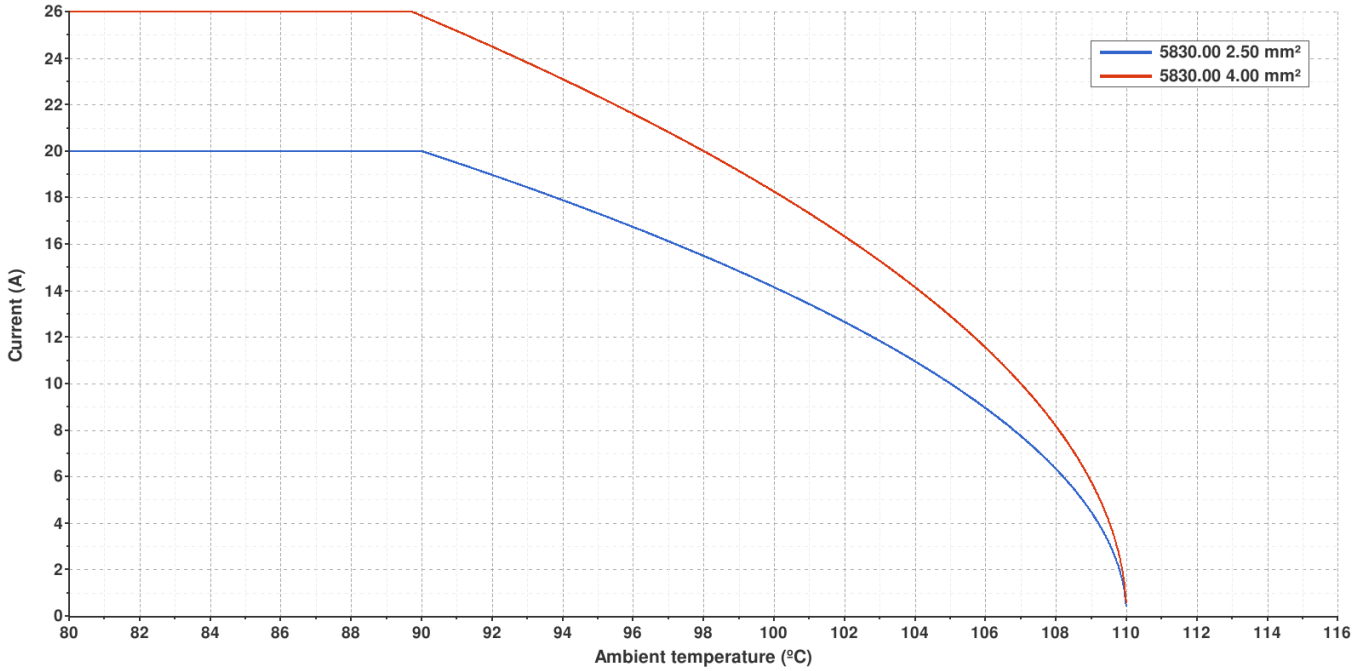
Drawing



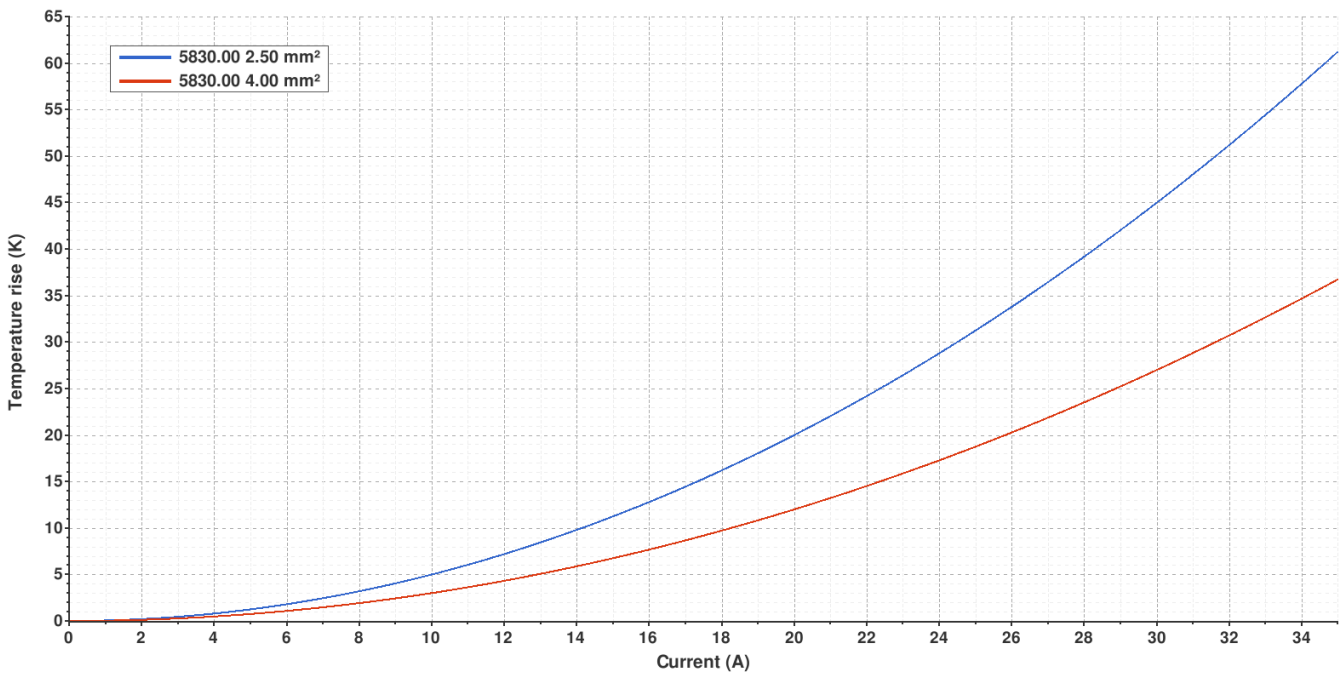
5830.00 NATURAL BRASS
6.3 (.250) TYPE SERIES · FLAGS



Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

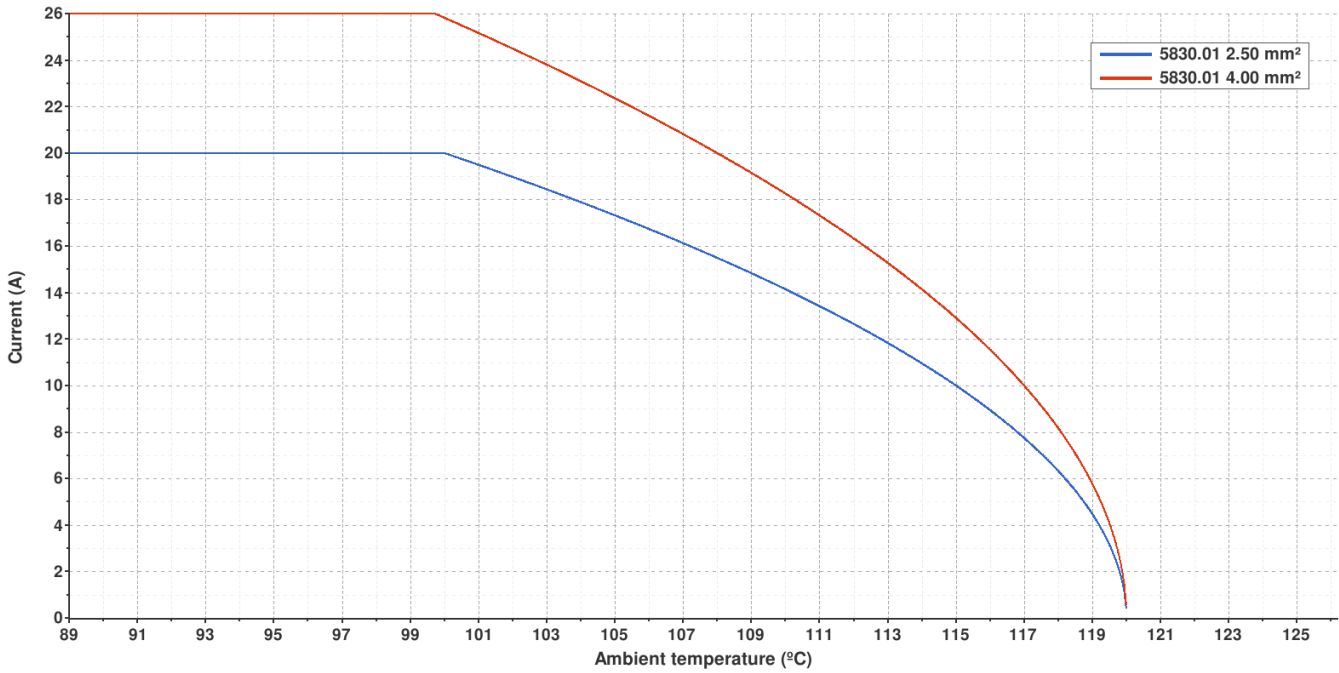


Valid for Natural Brass Tab

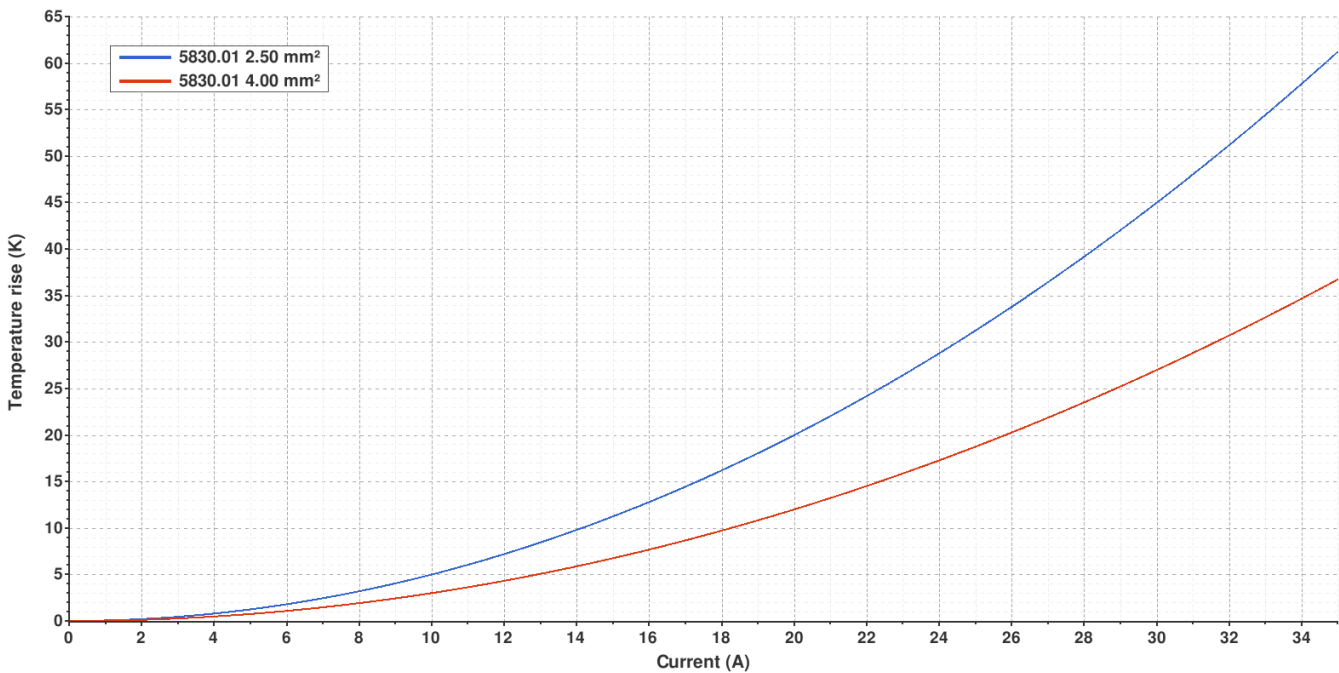
5830.01 PRE-TIN-PLATED BRASS
6.3 (.250) TYPE SERIES · FLAGS



Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

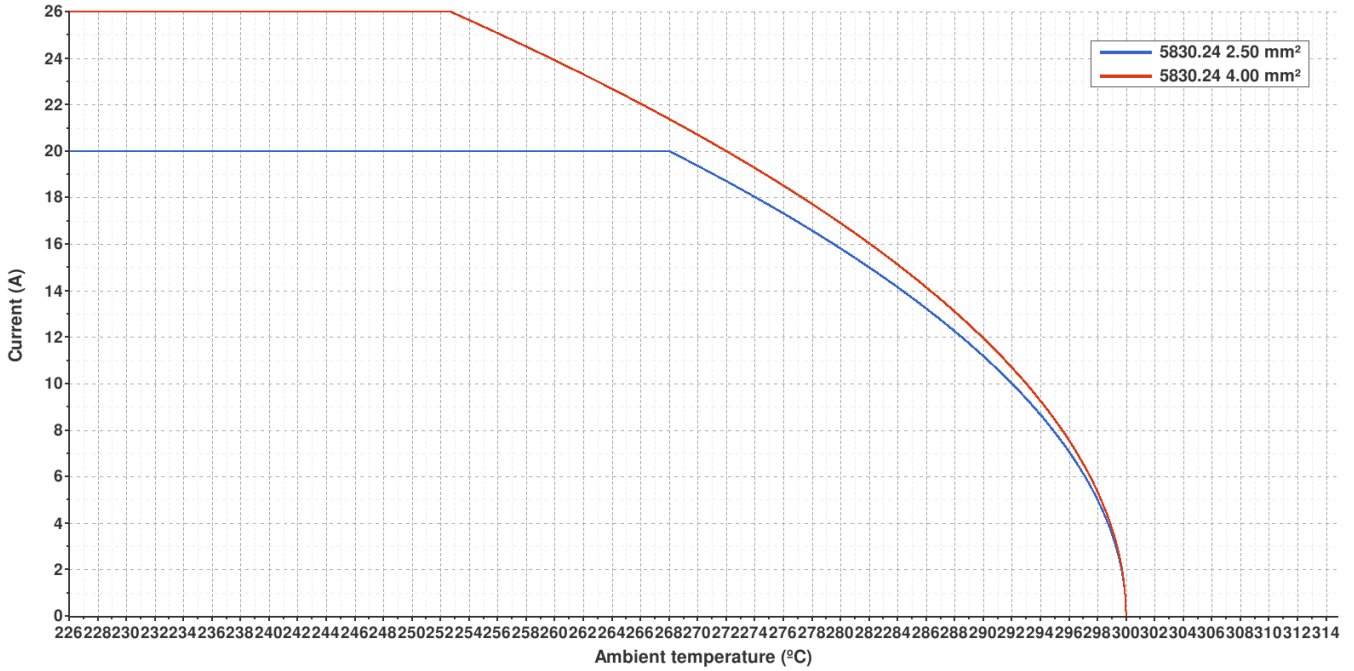


Valid for Natural Brass Tab

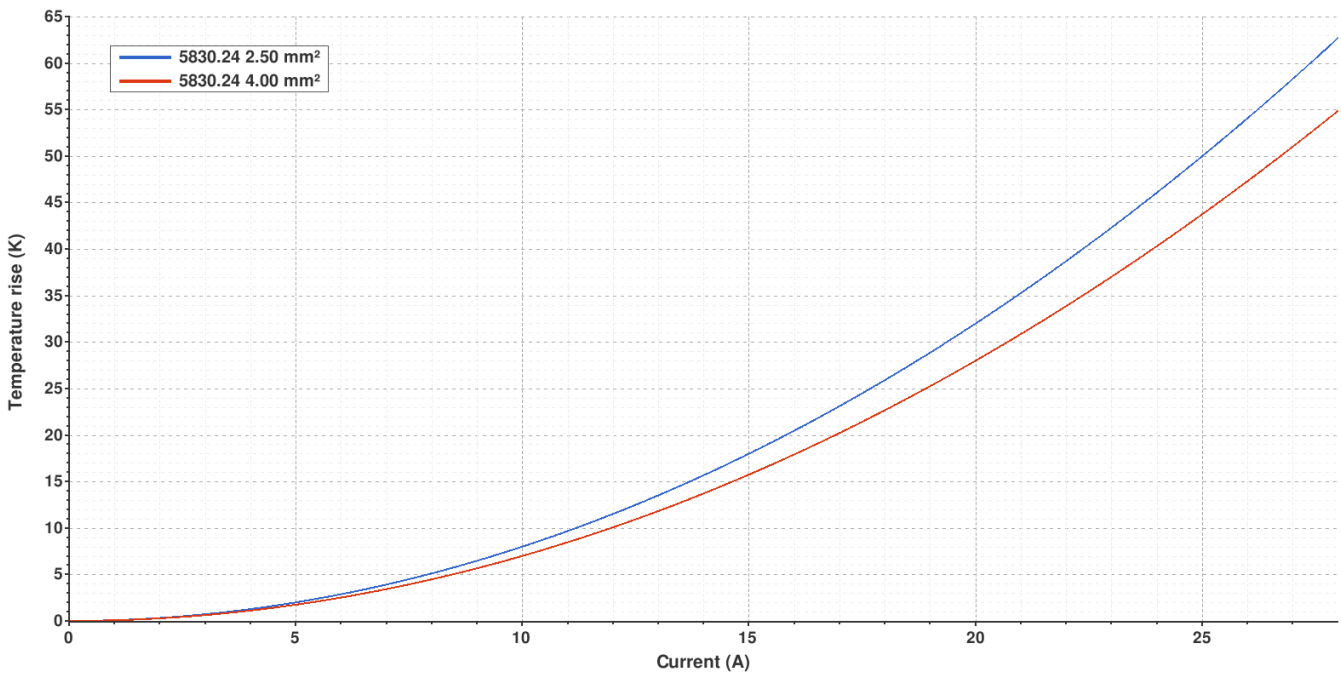
5830.24 NICKEL-PLATED STEEL
6.3 (.250) TYPE SERIES · FLAGS



Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

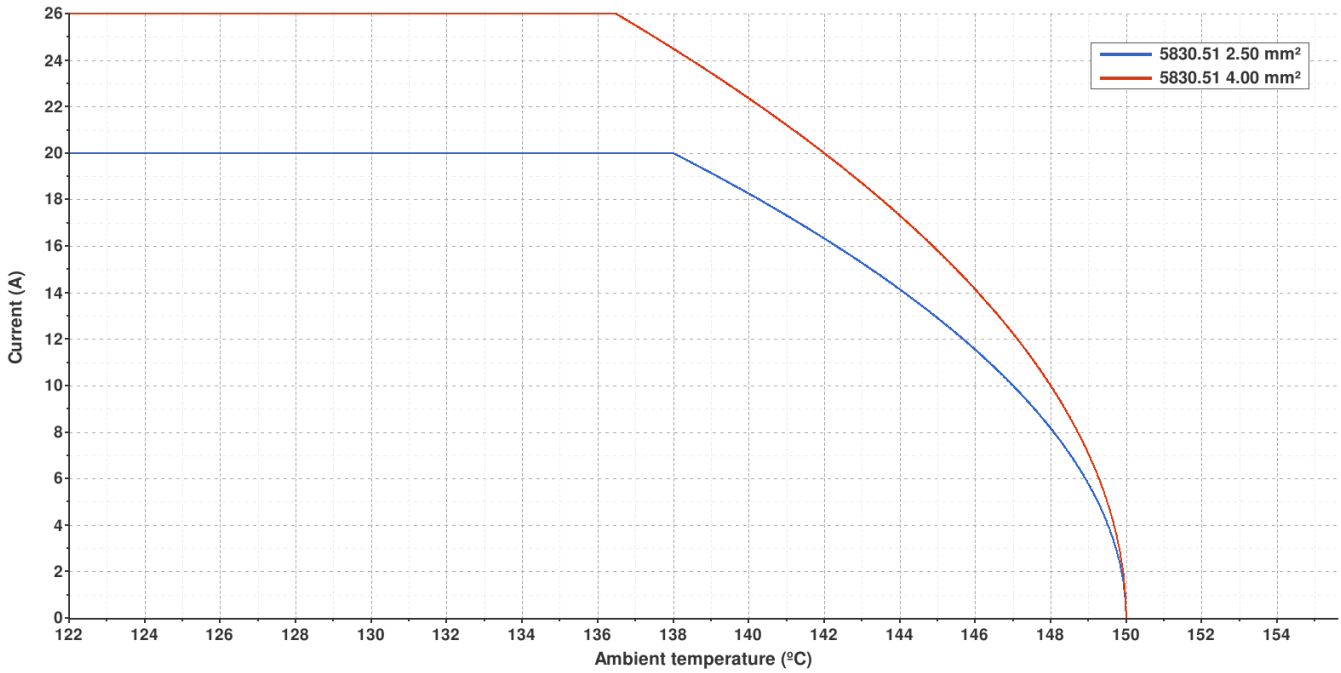


Valid for Natural Brass Tab

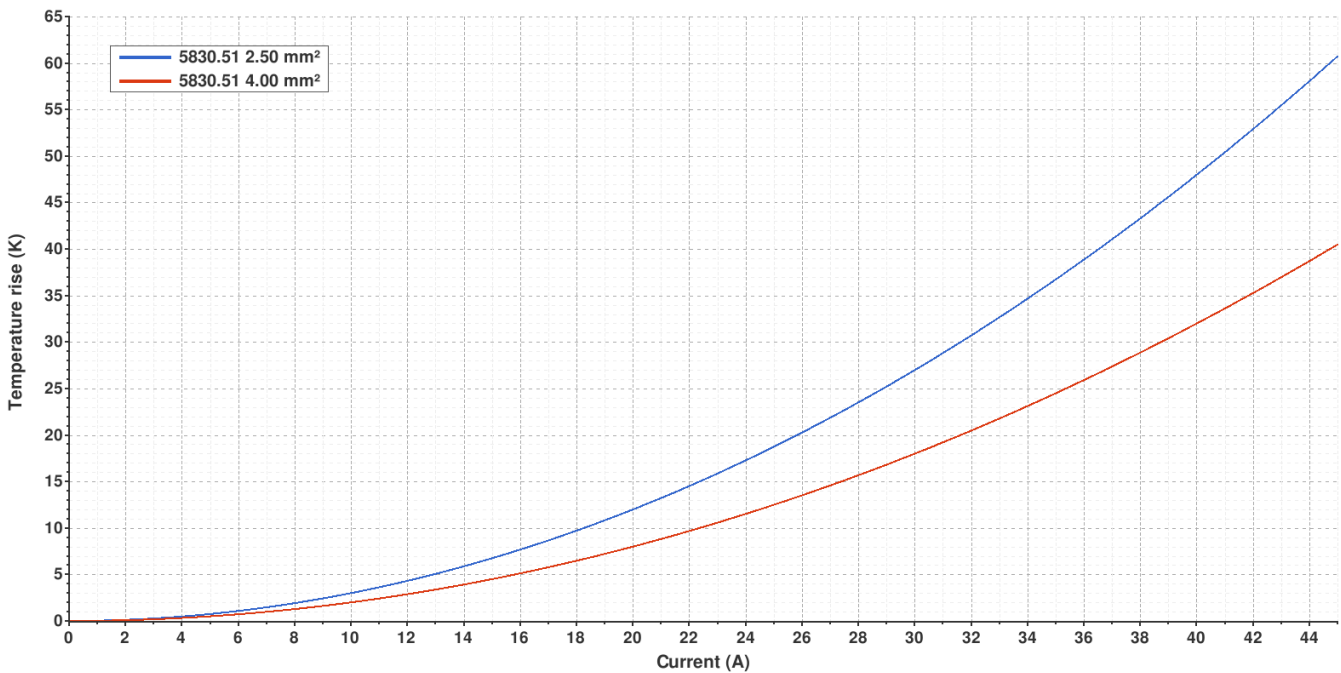
5830.51 PRE-TIN-PLATED CU. ALLOY
6.3 (.250) TYPE SERIES · FLAGS



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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Rev. Nr.	Concept	Date	Created/Revised	Approved
A3	Update insertion and withdrawal forces	2021-11-12	E. Roura (Laboratory Dept.)	O. Roura (Engineering Dept.)
A2	Change company name and logo	2021-10-21	Laboratory Dept.	E. Roura
A1	Datasheet generated automatically [A1]	2019-01-18	Laboratory Dept.	E. Roura

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