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. (ºC)	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

Insertion / Withdrawal forces

	5830.51 / 01 / 24	5830.00
1st Insertion (max)	35N[1]	35N[1]
1st Withdrawal (max)	60N[1]	60N[1]
1st Withdrawal (min)	22N[1]	27N[1]
6th Withdrawal (min)	18N[1]	22N[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 mm²	1.95 (±0.05)	3.47 (±0.05)	4.05 (±0.10)	230N @ 60s
3.00 mm²	2.05 (±0.05)	3.50 (±0.05)	4.20 (±0.10)	≥ 250N
4.00 mm²	2.25 (±0.05)	3.55 (±0.05)	4.23 (±0.10)	310N @ 60s
5.00 mm²	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

Max. rated current

Wire section	5830.51 / 00 / 01 / 24
2.50 mm²	20A
3.00 mm²	20A
4.00 mm²	26A
5.00 mm²	26A

Approved regulations

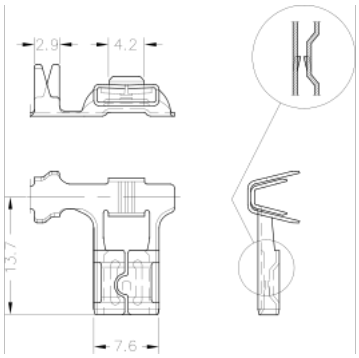
Part nr.	Approval	Standard	File	Certified framework
5830.00	UL	UL 310	E211727	AWG 12-12 (65-65 Stranded Cu) / MN5830
5830.01	UL	UL 310	E211727	AWG 12-12 (65-65 Stranded Cu) / MN5830
5830.51	UL	UL 310	E211727	AWG 12-12 (65-65 Stranded Cu) / MN5830

5830.**

6.3 (.250) TYPE SERIES · FLAGS

Approvals

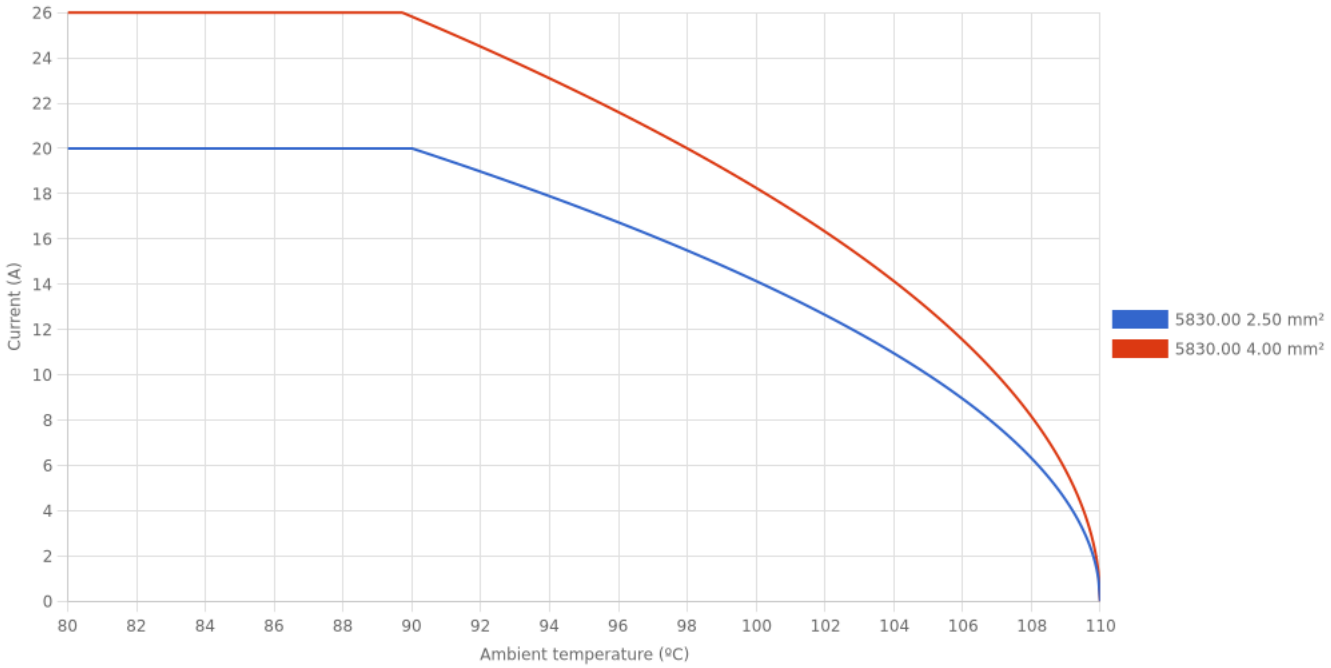
Drawing



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

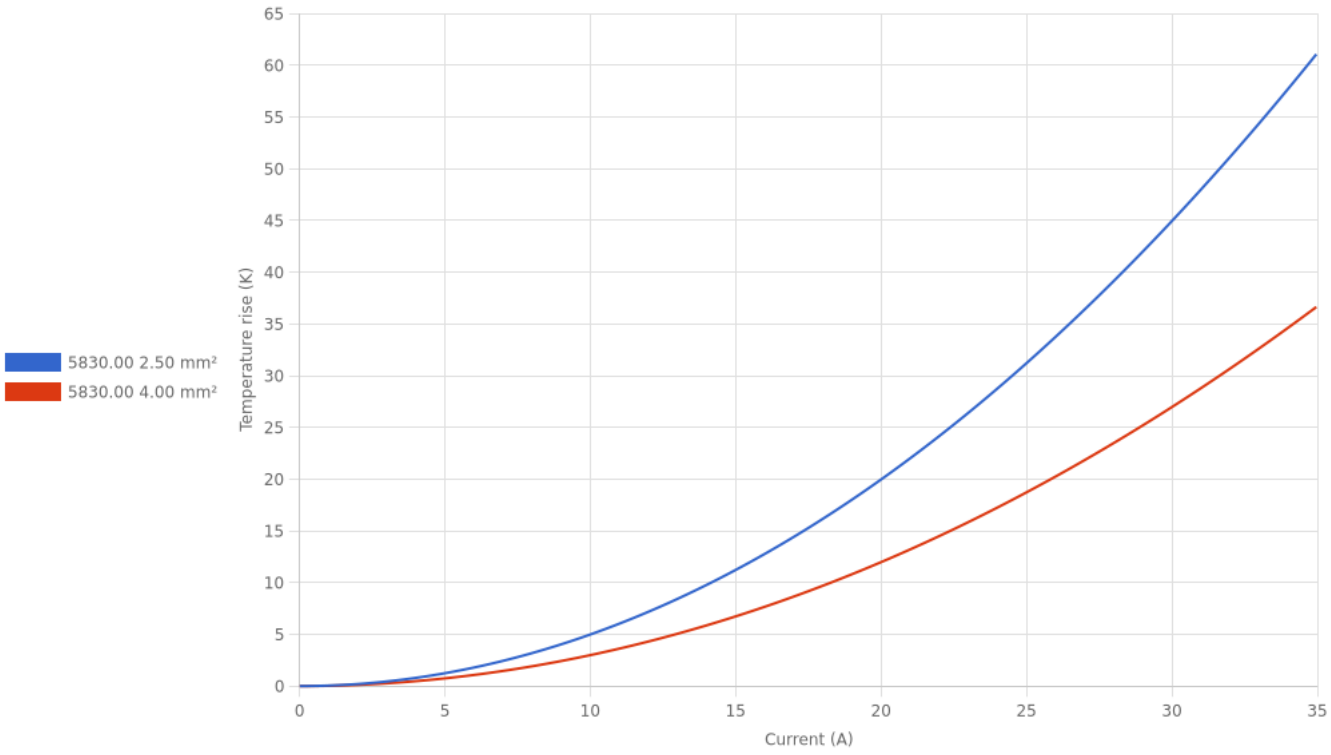
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried

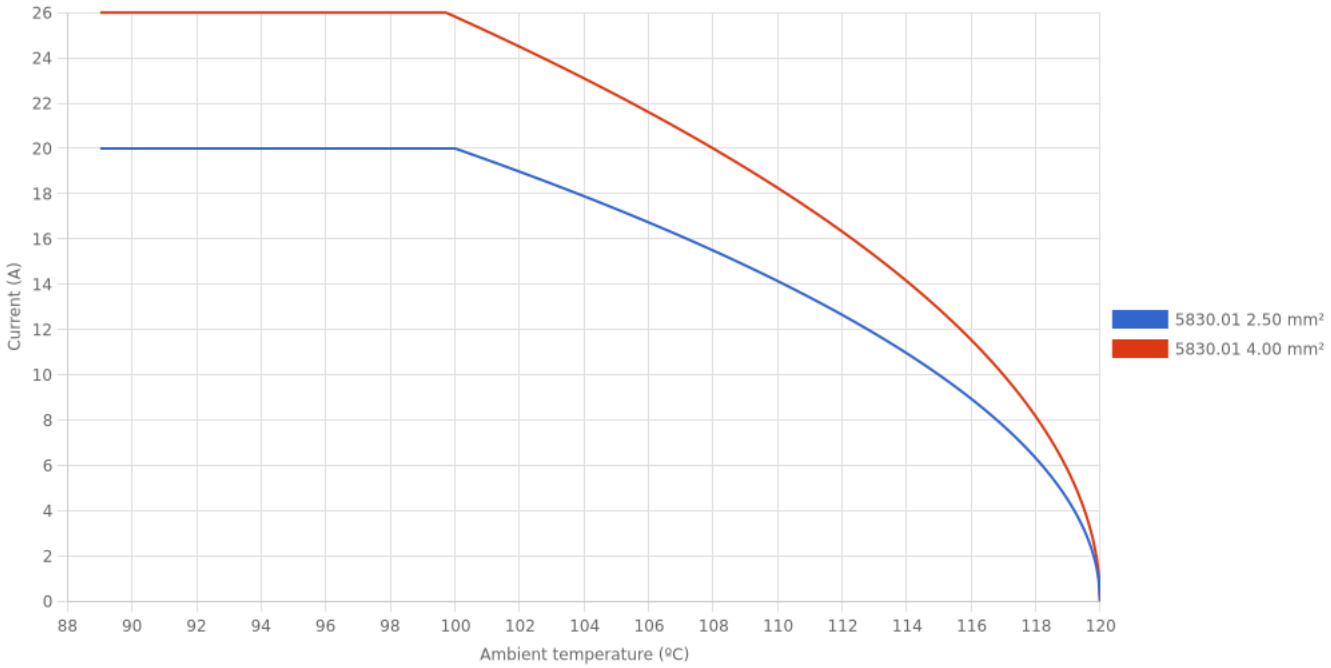


Valid for Natural Brass Tab

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

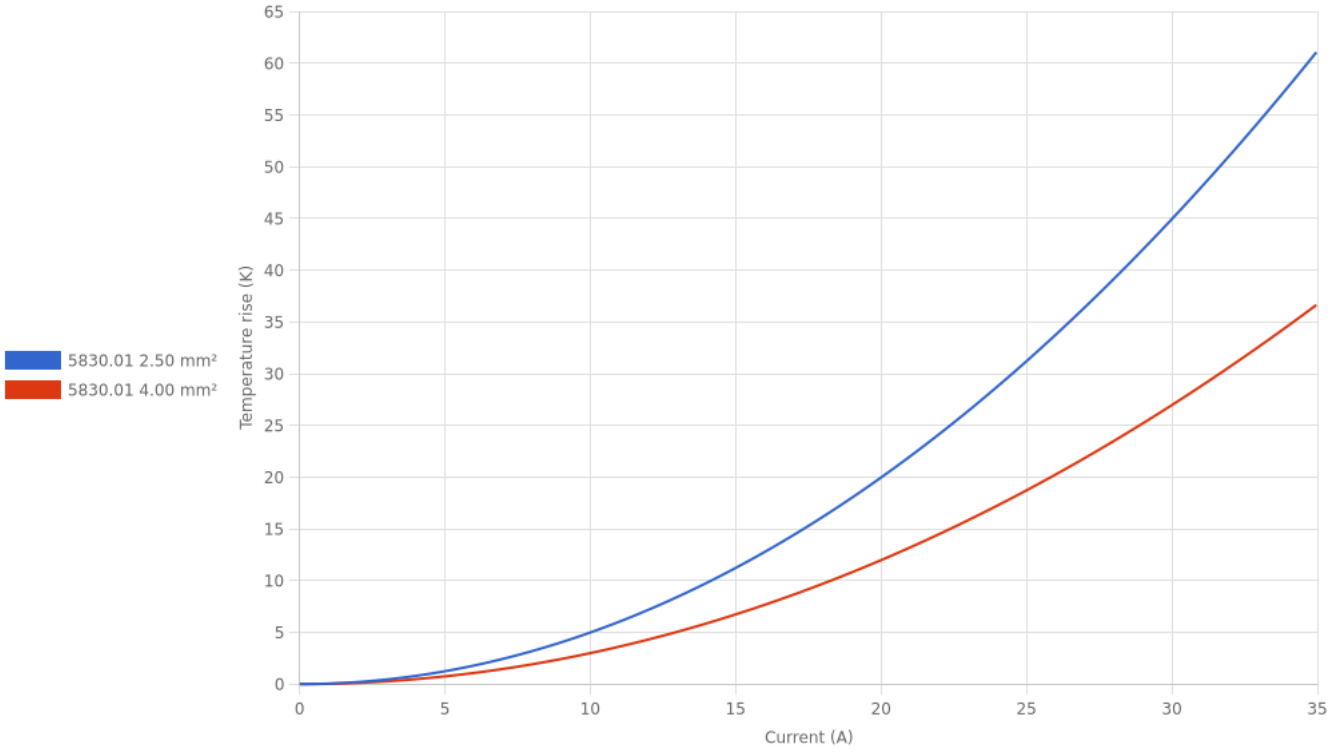
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried

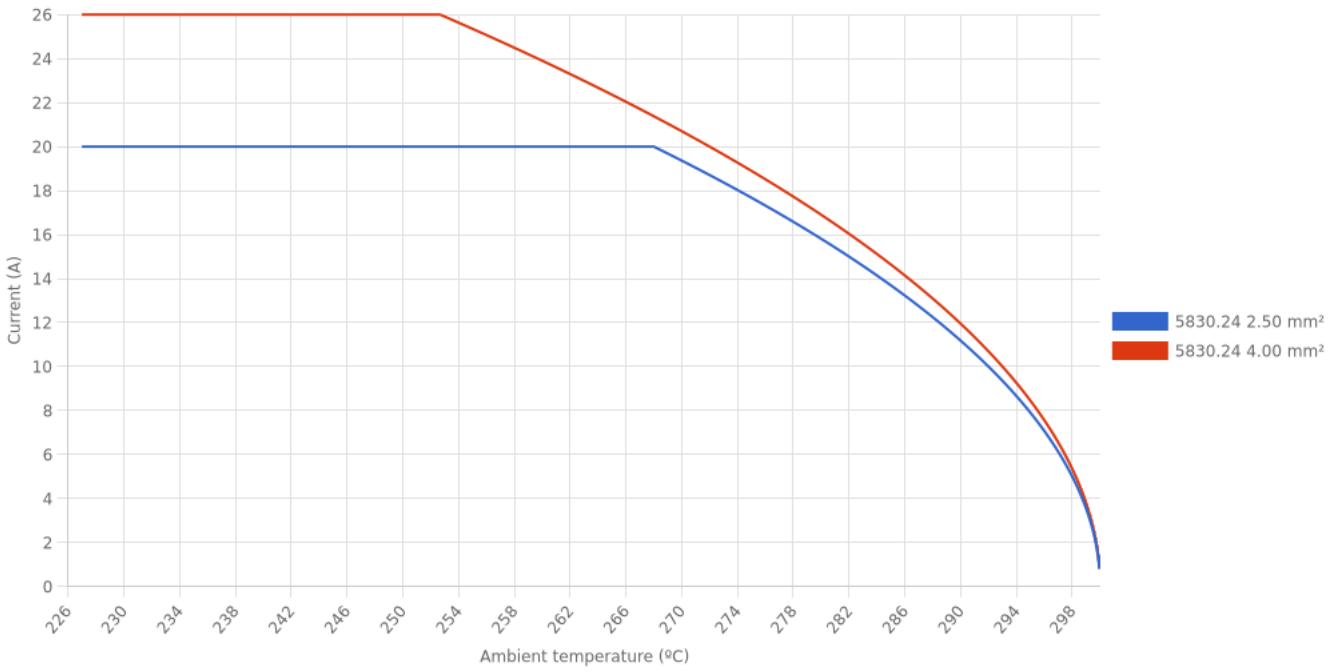


Valid for Natural Brass Tab

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

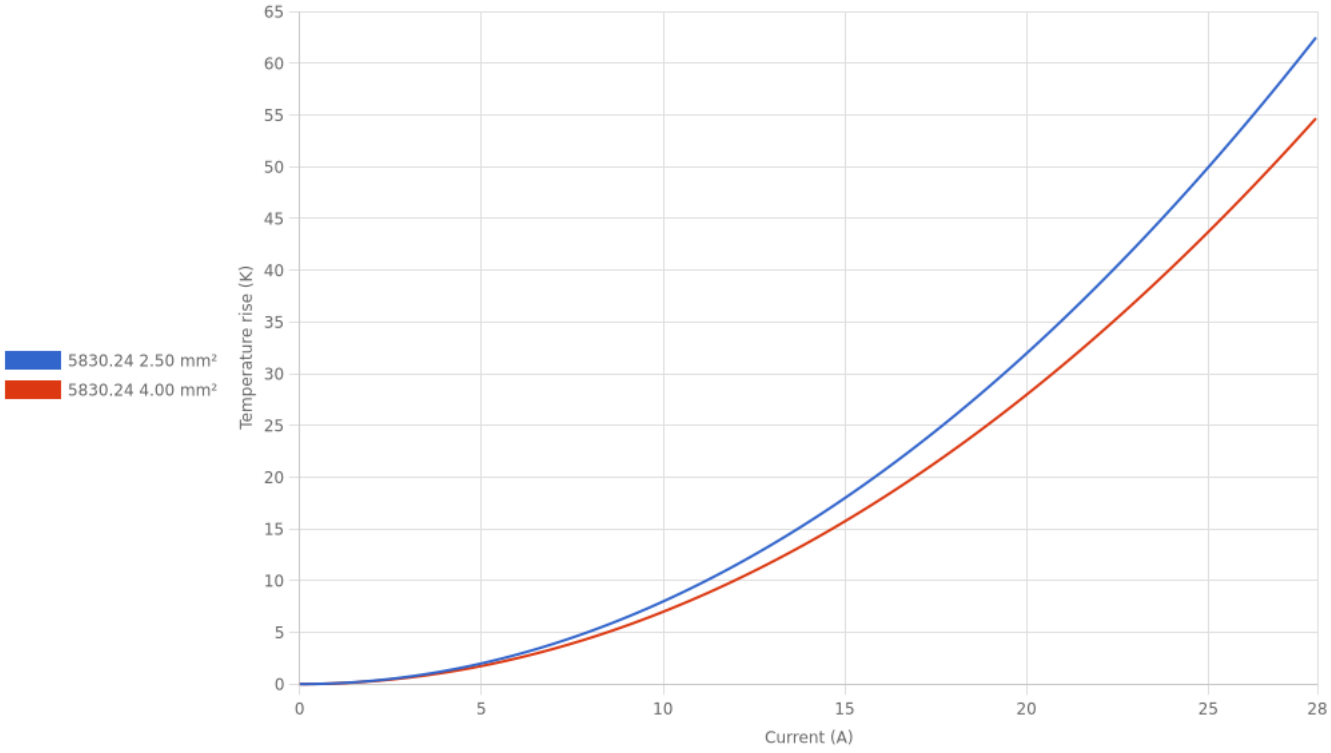
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried

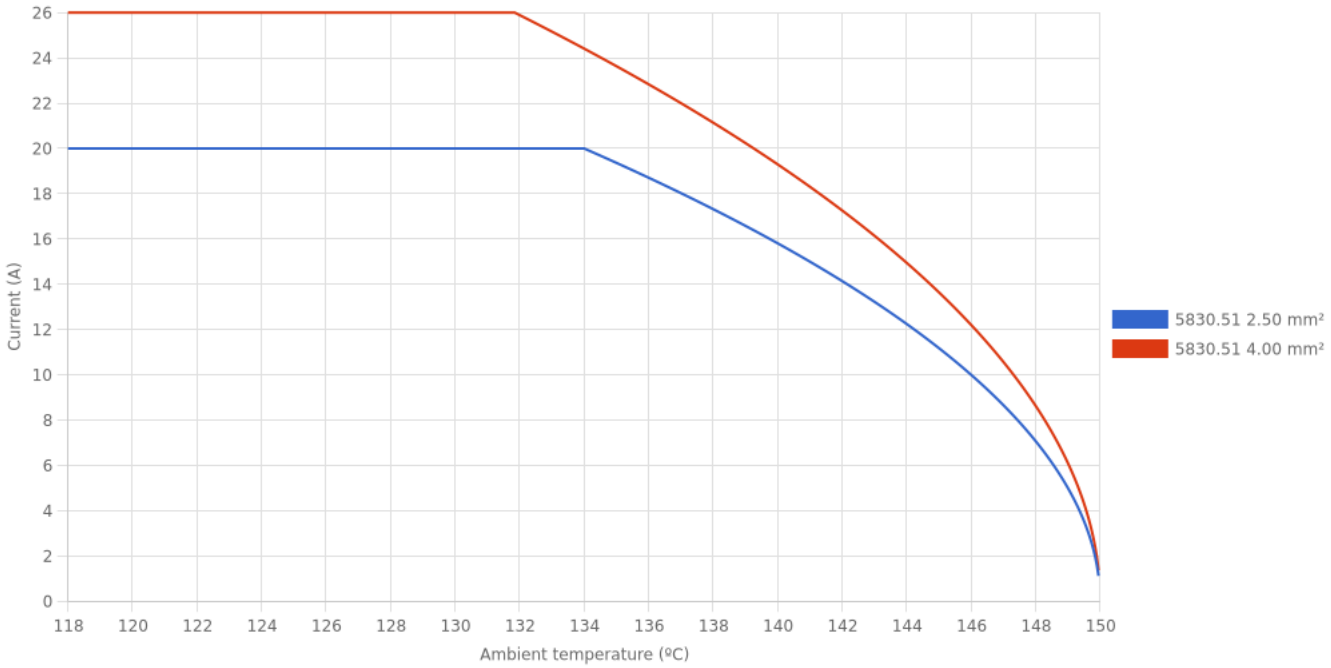


Valid for Natural Brass Tab

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

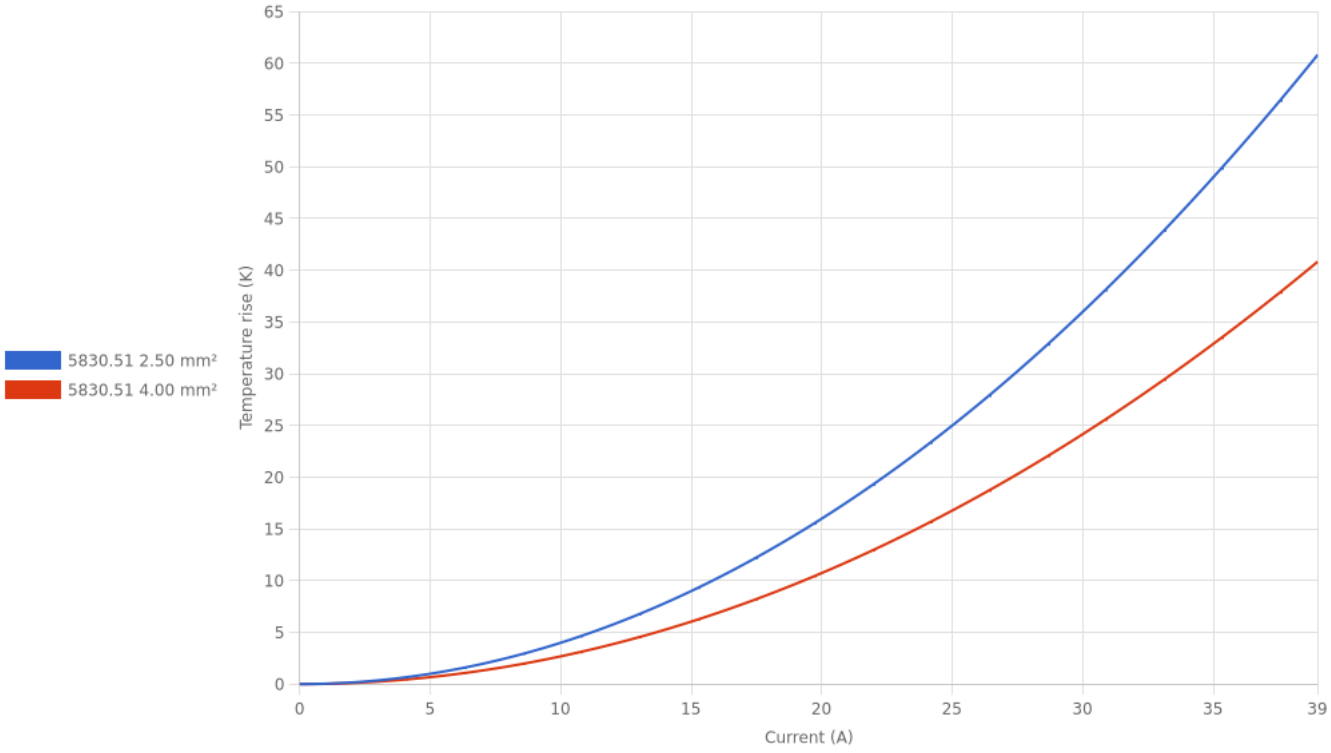
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab

5830.**

6.3 (.250) TYPE SERIES · FLAGS

Escubedo Connection Systems, S.A.U. · 17843 Riudellots de la Creu · Girona · Spain
Tel.: 34 972 171 706 · Fax: +34 972 171 714 · info@escubedo.com · www.escubedo.com