5820.**
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Specification Low insertion

For male (mm) 6,3x0,8

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)
5820.00	Brass	Natural	110
5820.01	Brass	Pre-tin-plated	120
5820.24	Steel	Nickel-plated	300
5820.30	Bronze	Natural	120
5820.31	Bronze	Pre-tin-plated	130
5820.70	German Silver	Natural	210

Material thickness (mm) 0,4

Max. rated current

Wire section	5820.00 / 01 / 24 / 30 / 31 / 70
0.50 mm²	8A
0.75 mm²	10A
1.00 mm²	12A
1.50 mm²	16A

Insertion / Withdrawal forces

	5820.00 / 01 / 24 / 30 / 31 / 70
1st Insertion (max)	35N[1]
1st Withdrawal (max)	60N[1]
1st Withdrawal (min)	30N[1]
6th Withdrawal (min)	22N[1]

[1] Valid for Natural Brass Tab

Application tool MN5820

Crimping parameters & pull out force

Wire section (±10%)	Conductor		Insulator	Pull-out force (N)
	Height (mm)	Width (mm)	Width (mm)	
0.50 mm²	1.40 (±0.03)	2.48 (±0.03)	3.80 (±0.10)	56N @ 60s
0.75 mm²	1.45 (±0.05)	2.48 (±0.05)	3.80 (±0.10)	84N @ 60s
1.00 mm²	1.50 (±0.05)	2.51 (±0.05)	3.80 (±0.10)	108N @ 60s
1.50 mm²	1.65 (±0.05)	2.53 (±0.05)	3.80 (±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 3500

Compatible connectors 26333**, 26336**

Approved regulations

Part nr.	Approval	Standard	File	Certified framework
5820.00	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN5820
5820.01	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN5820
5820.24	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN5820

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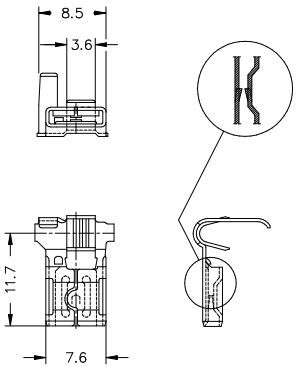
Approvals

Drawing



5820.00 NATURAL BRASS

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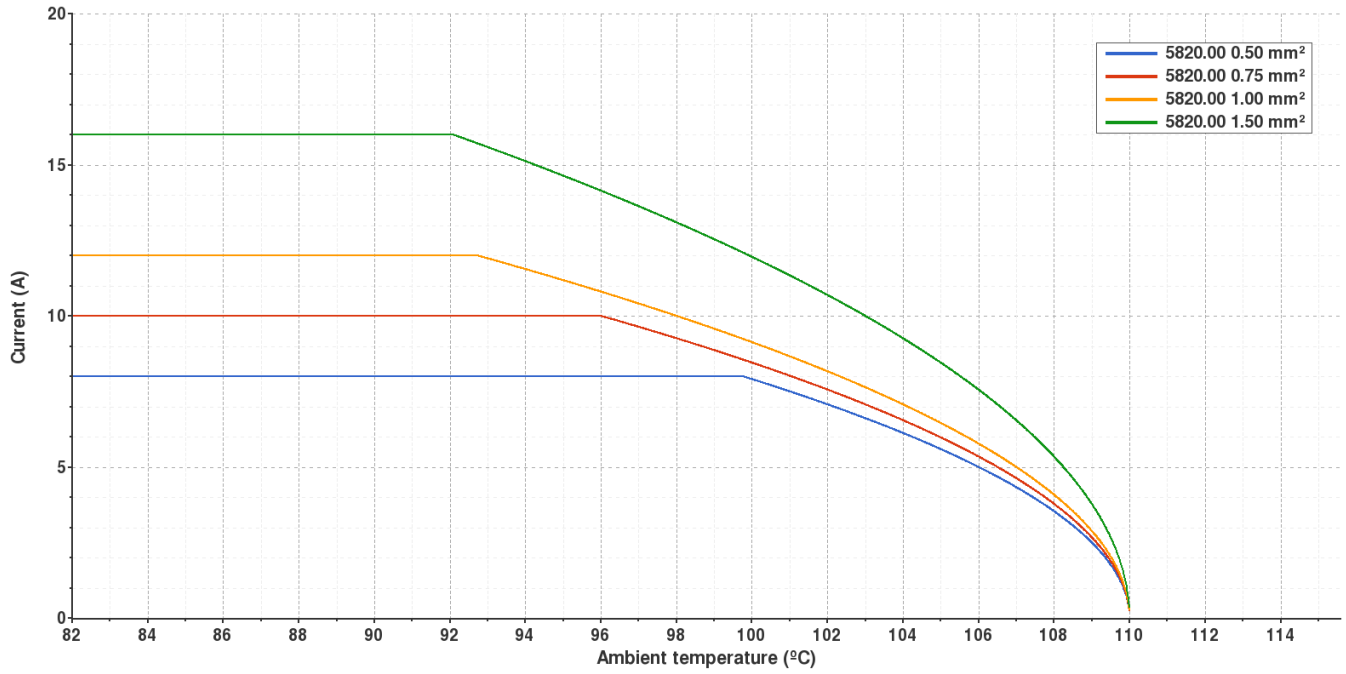
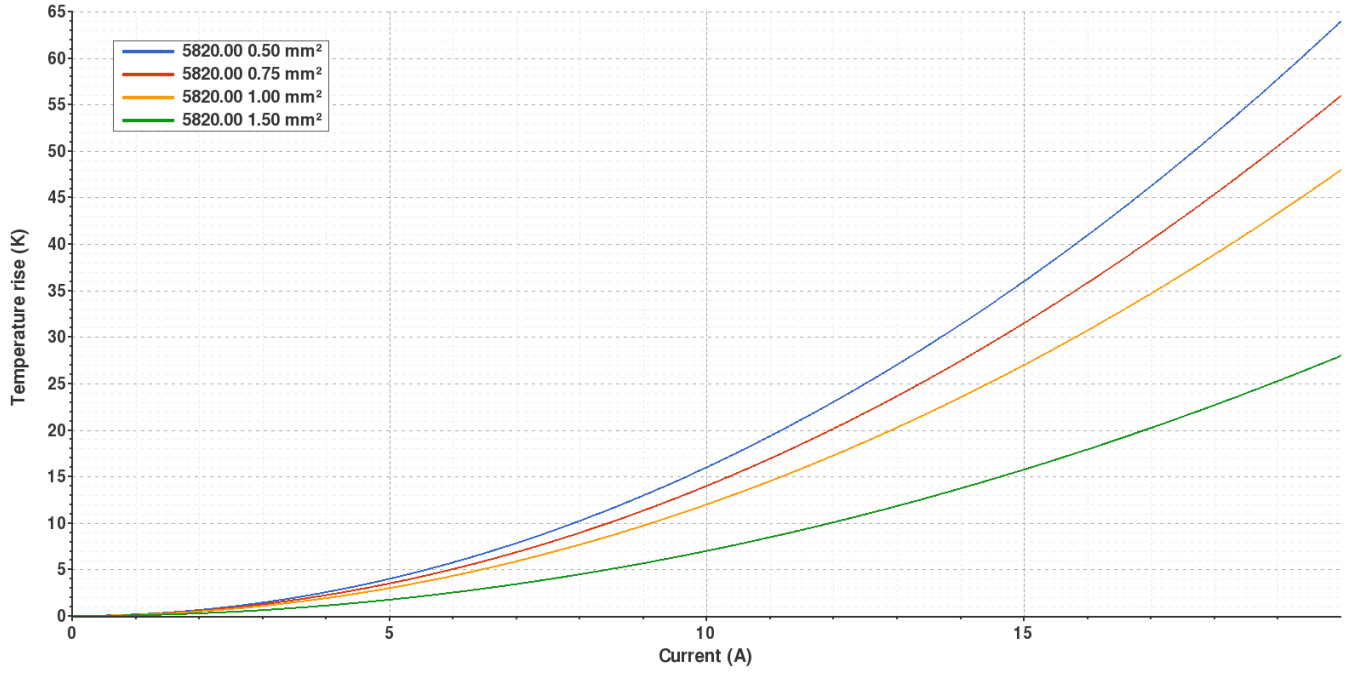
Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

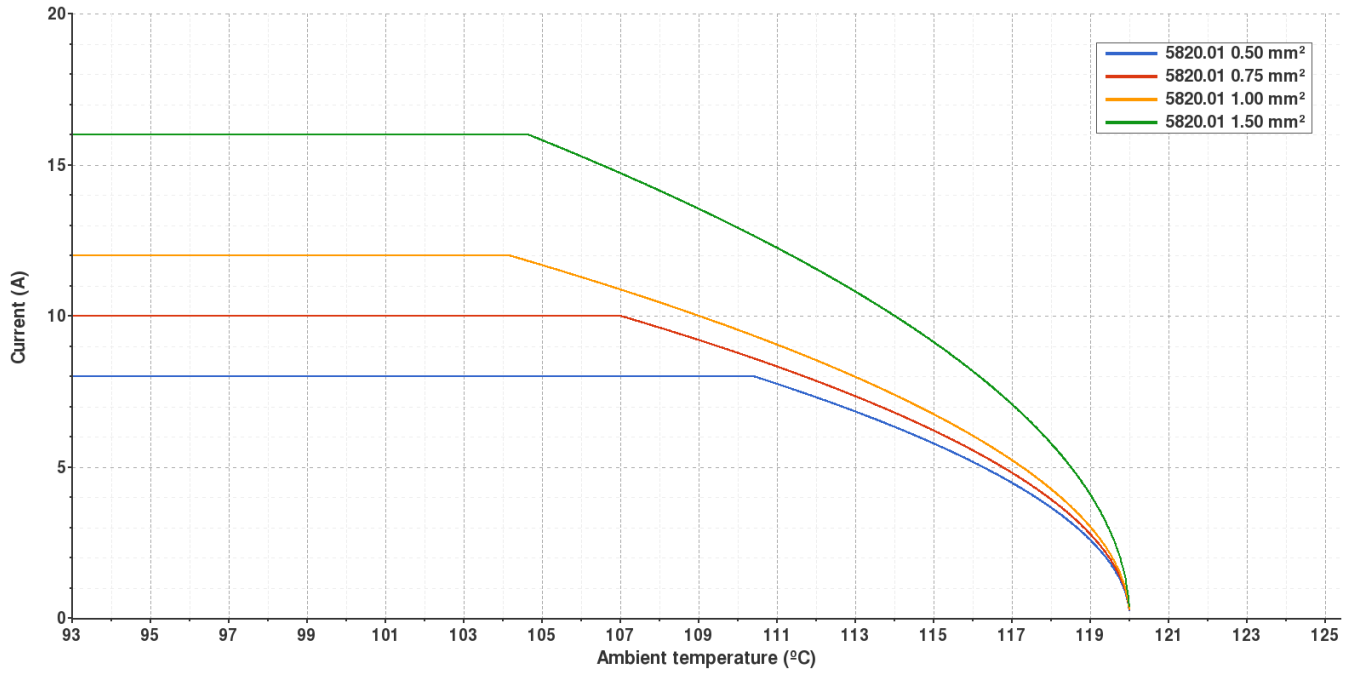


Valid for Natural Brass Tab

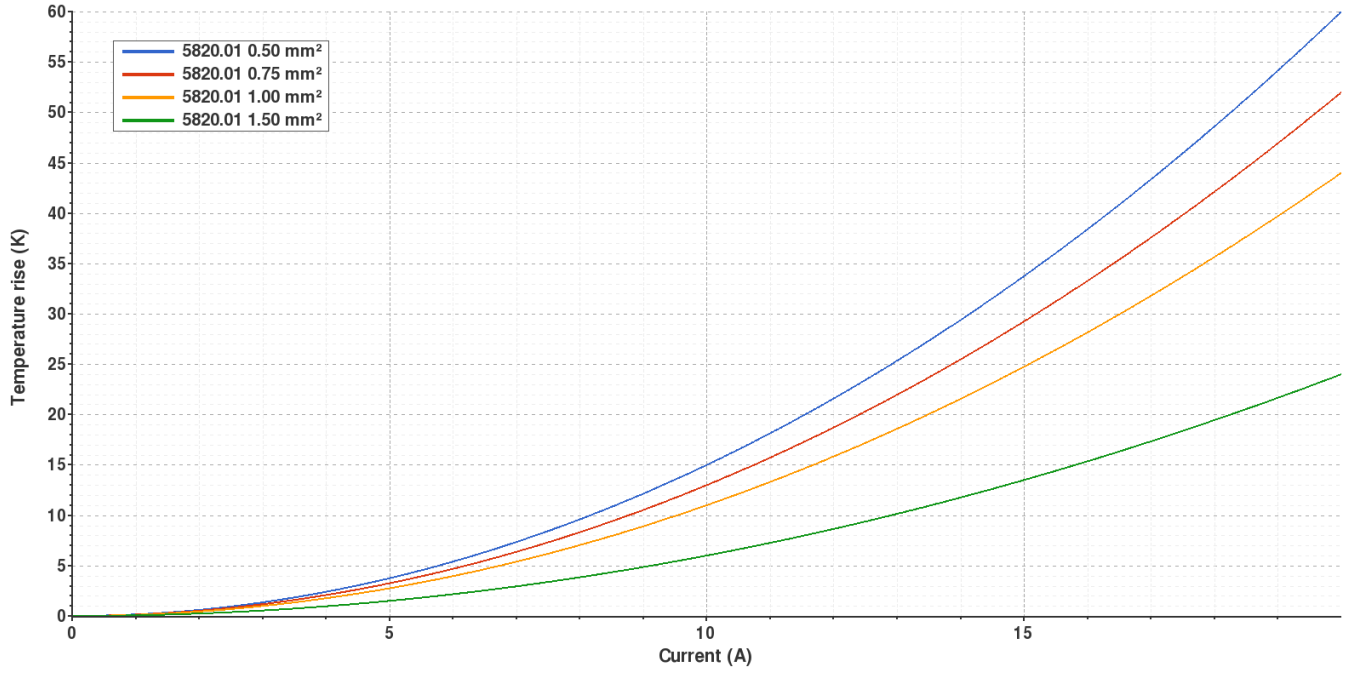
5820.01 PRE-TIN-PLATED BRASS

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

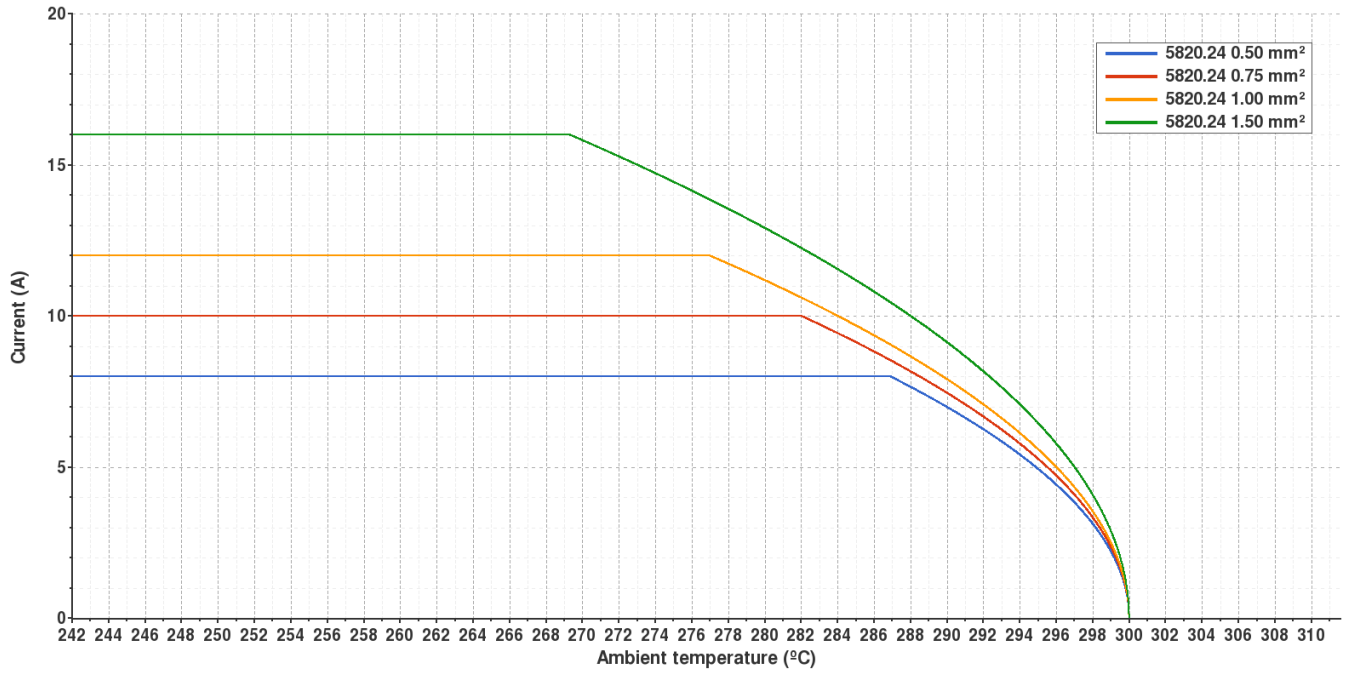


Valid for Natural Brass Tab

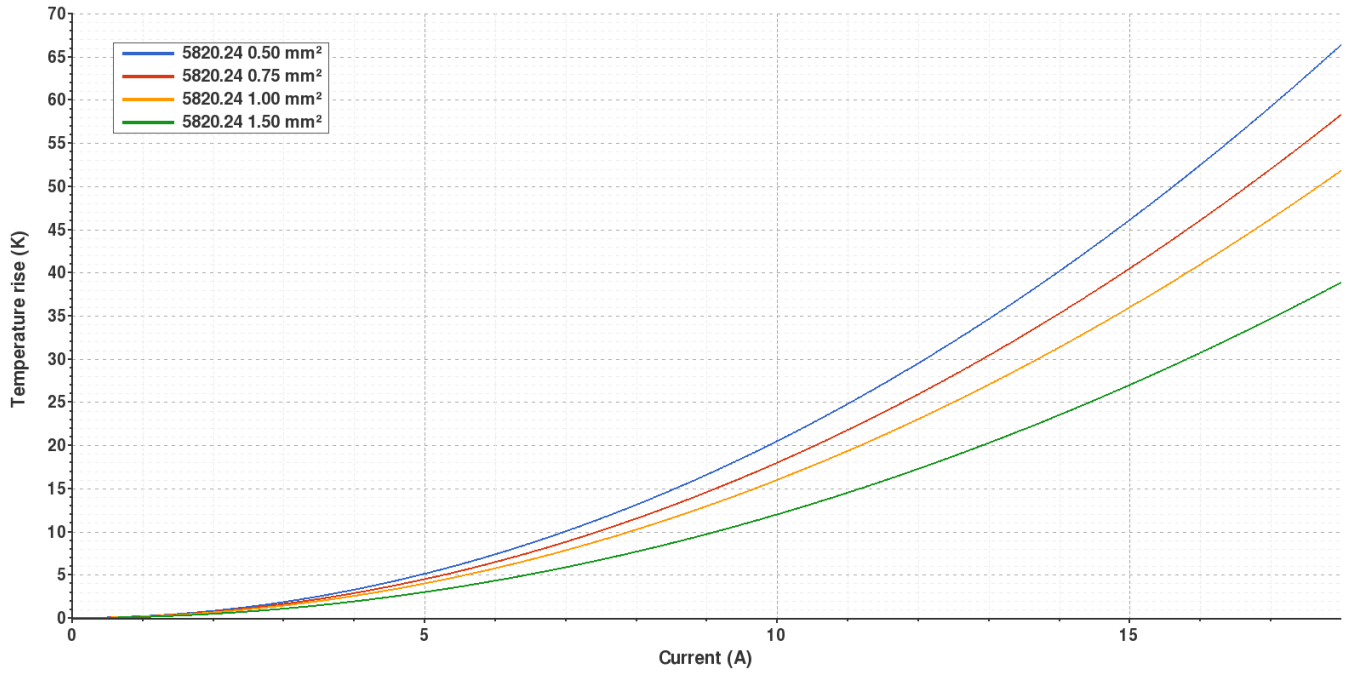
5820.24 NICKEL-PLATED STEEL

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

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Rev. Nr.	Concept	Date	Created/Revised	Approved
A2	Update electric curves (de-ratint)	2020-10-16	Laboratory Dept.	E. Roura
A1	Datasheet generated automatically [A1]	2018-07-23	Laboratory Dept.	E. Roura

Especialitats Elèctriques Escubedo S.A.U. · Ctra. de Girona-Olot Km. 35,5 · 17843 Riudellots de la Creu · Girona · Spain
Tel.: 34 972 171 706 · Fax: +34 972 171 714 · info@escubedo.com · www.escubedo.com