5420.**

6.3 (.250) TYPE SERIES · FLAGS

Specification Standard Terminals

Typology Long Flag

For male (mm) 6,3x0,8

Din 43346

Wire size mm² (AWG) 0,5-1 (20-18)

Ø Insulation (mm) 1,8-2,5

Materials, temperature and contact resistance

Part nr.	Material	Finishing	Max. Temp. (ºC)	Contact Resist (mΩ)
5420.00	Brass	Natural	110	0.75
5420.02	Brass	Tin plated	120	0.75
5420.24	Steel	Nickel-plated	300	(T.B.D.)
5420.30	Bronze	Natural	120	1.00
5420.32	Bronze	Tin plated	130	1.00
5420.33	Bronze	Silver-plated	150	(T.B.D.)

Material thickness (mm) 0,4

Max. rated current

Wire section	5420.00 / 02 / 24 / 30 / 32 / 33
0.50 mm²	8A
0.75 mm²	10A
1.00 mm²	12A

Insertion / Withdrawal forces

	5420.00	5420.02 / 24 / 32
1st Insertion (max)	60N[1]	60N[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 MN5420

Wire strip length 5.0 (±0.5) mm

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)	2.36 (±0.03)	3.42 (±0.10)	56N @ 60s
0.75 mm²	1.35 (±0.05)	2.37 (±0.05)	3.42 (±0.10)	84N @ 60s
1.00 mm²	1.45 (±0.05)	2.38 (±0.05)	3.43 (±0.10)	108N @ 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 12.88**, 26330**, 26331**

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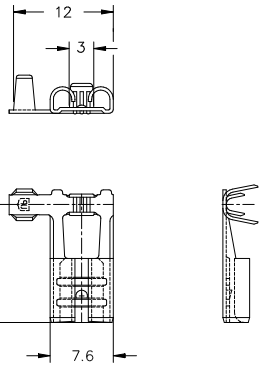
6.3 (.250) TYPE SERIES · FLAGS

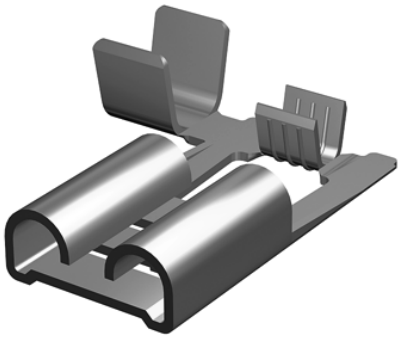
Approved regulations

Part nr.	Approval	Standard	File	Certified framework
5420.00	UL	UL 310	E211727	AWG 20-20 (10-10 Stranded Cu) / MN5420
5420.02	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN5420
5420.24	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN5420

Approvals

Drawing

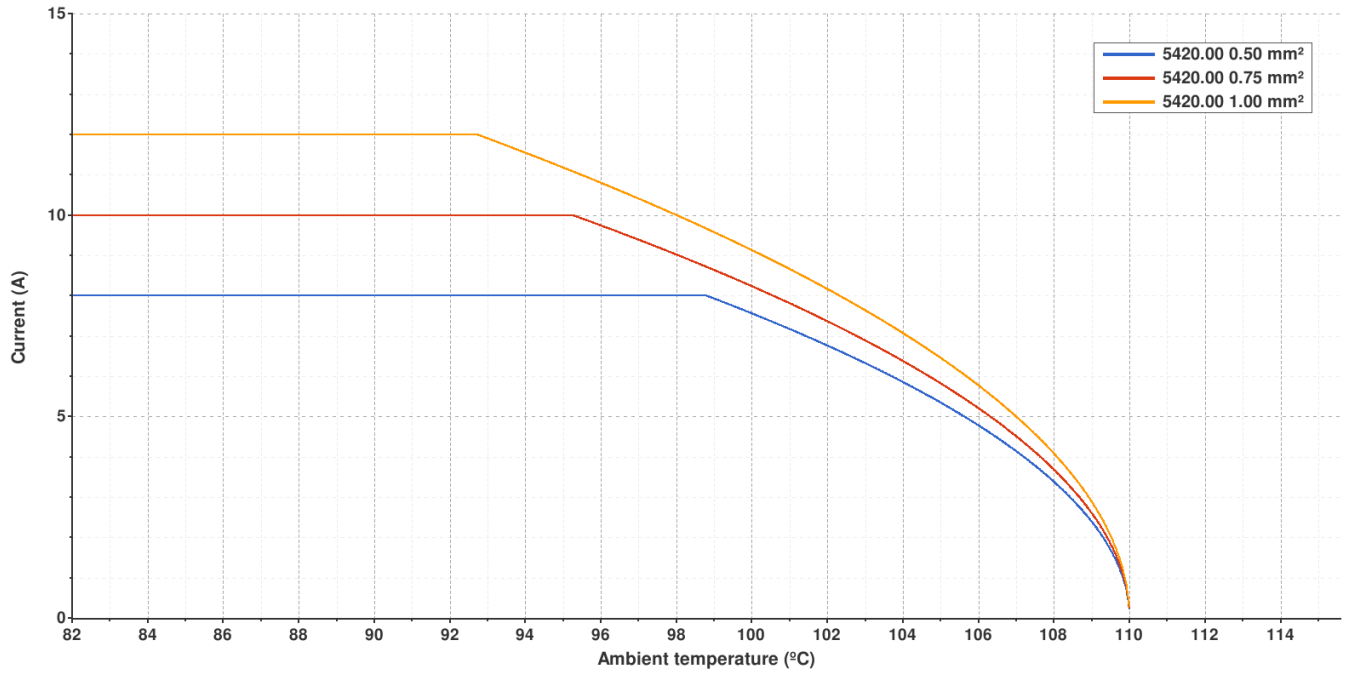




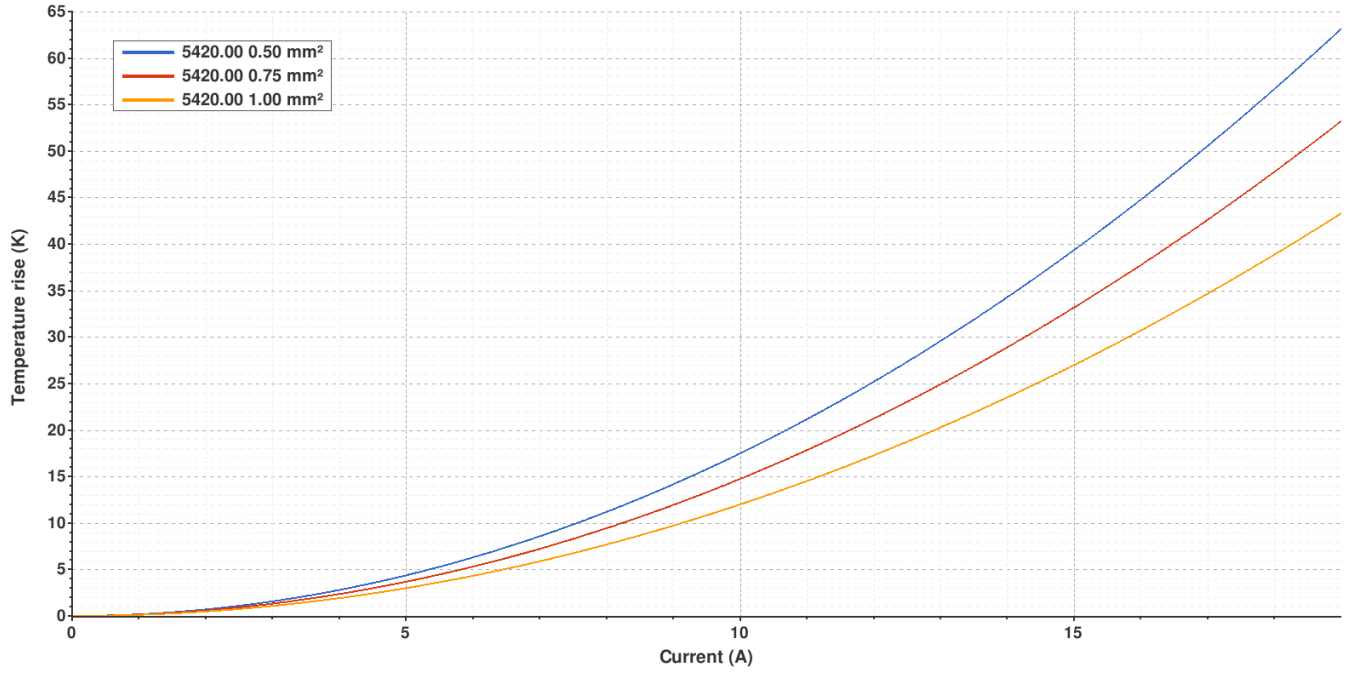
5420.00 NATURAL BRASS

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

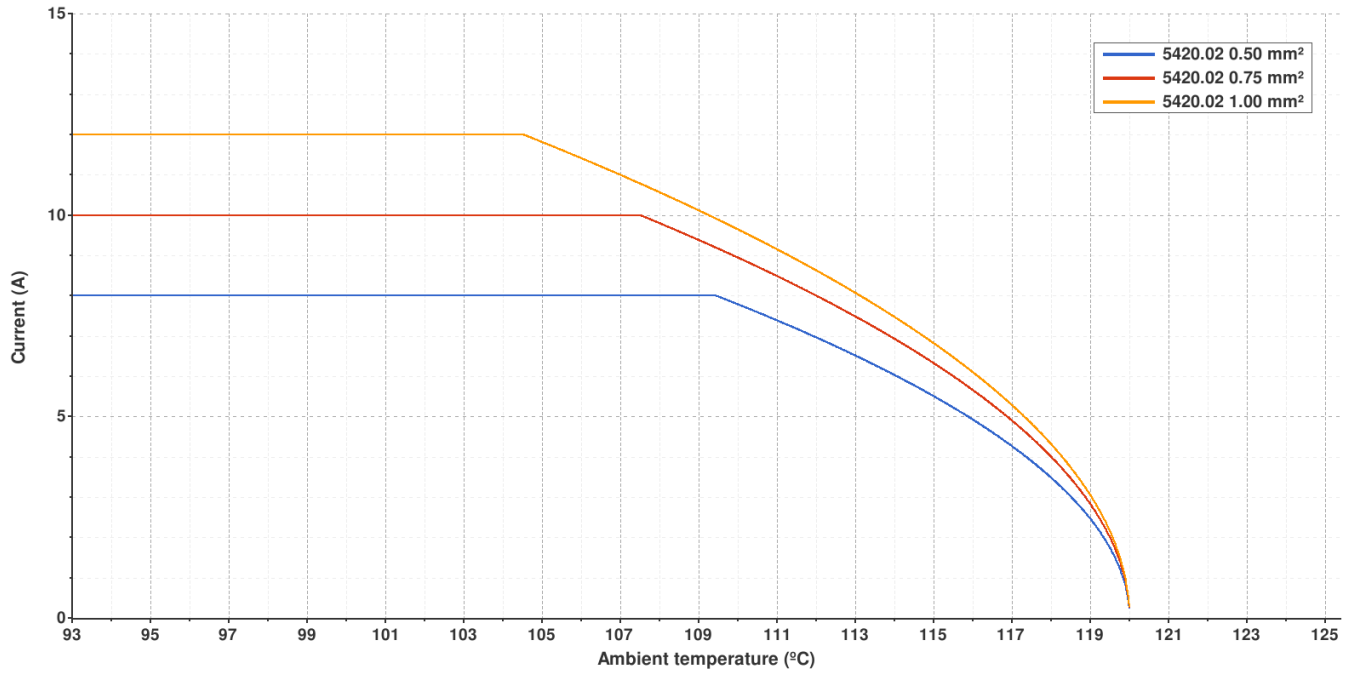


Valid for Natural Brass Tab

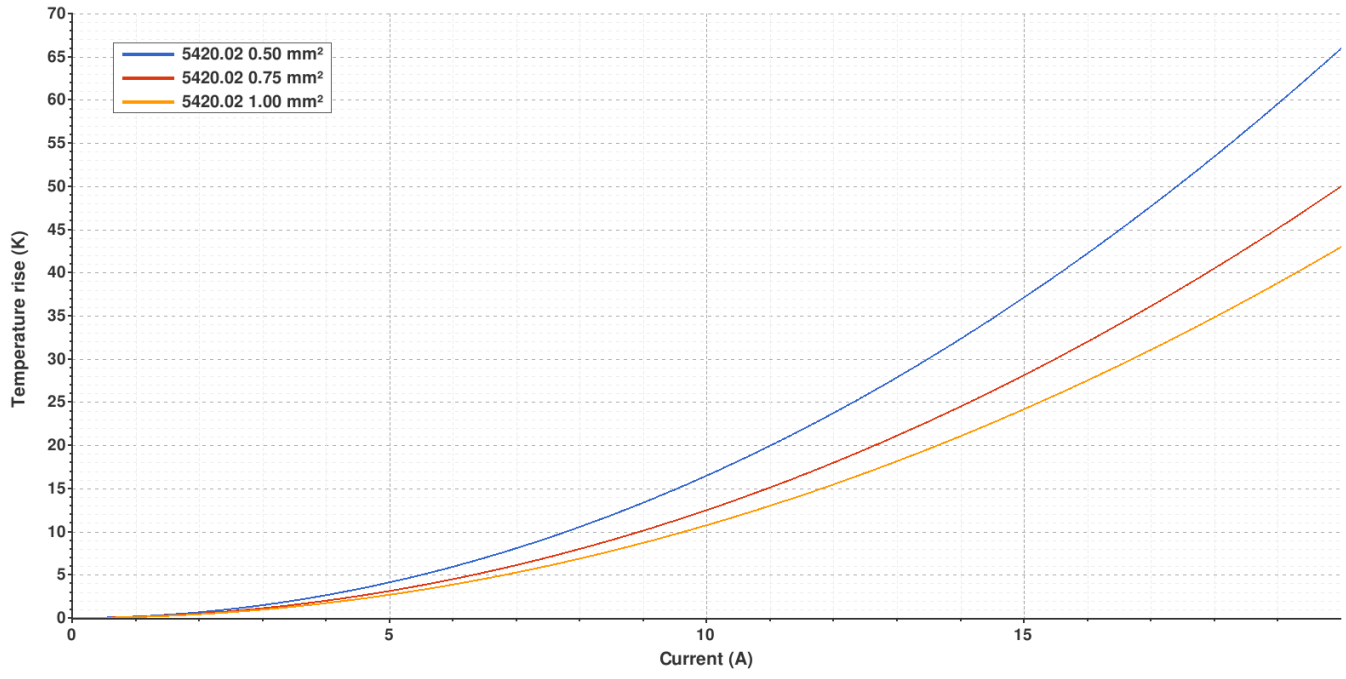
5420.02 TIN PLATED BRASS

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

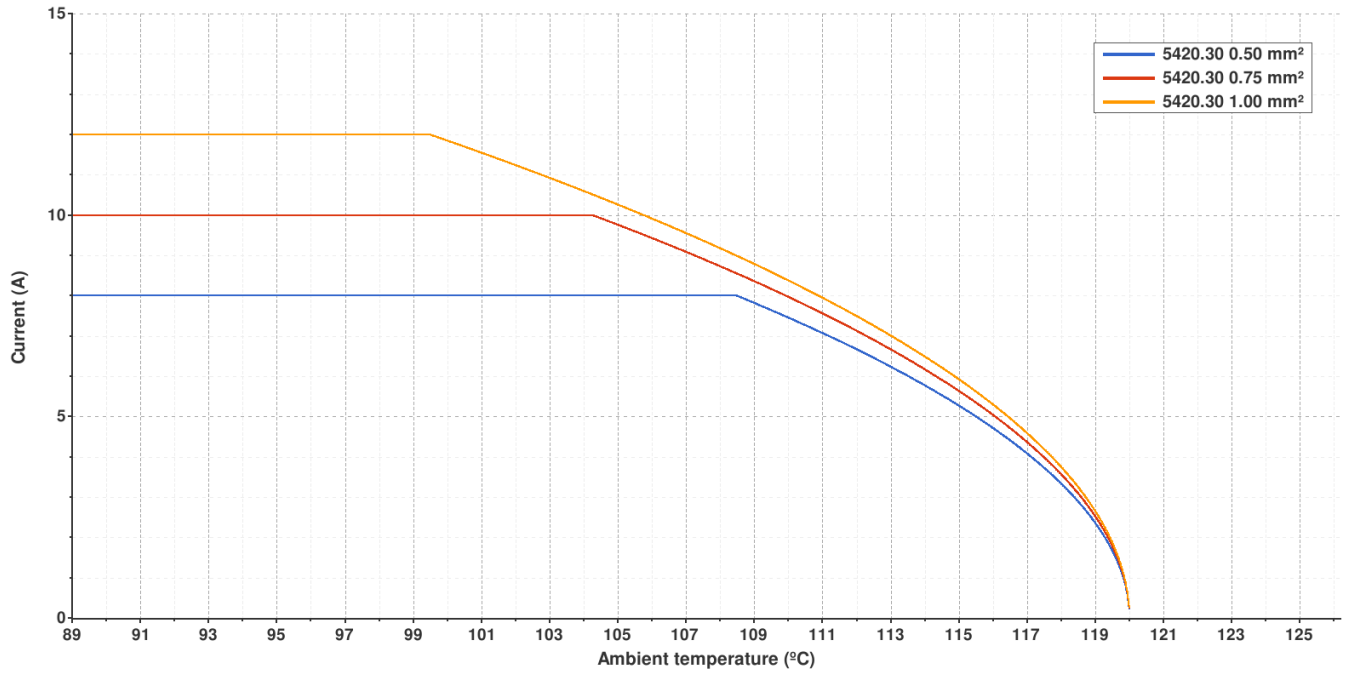


Valid for Natural Brass Tab

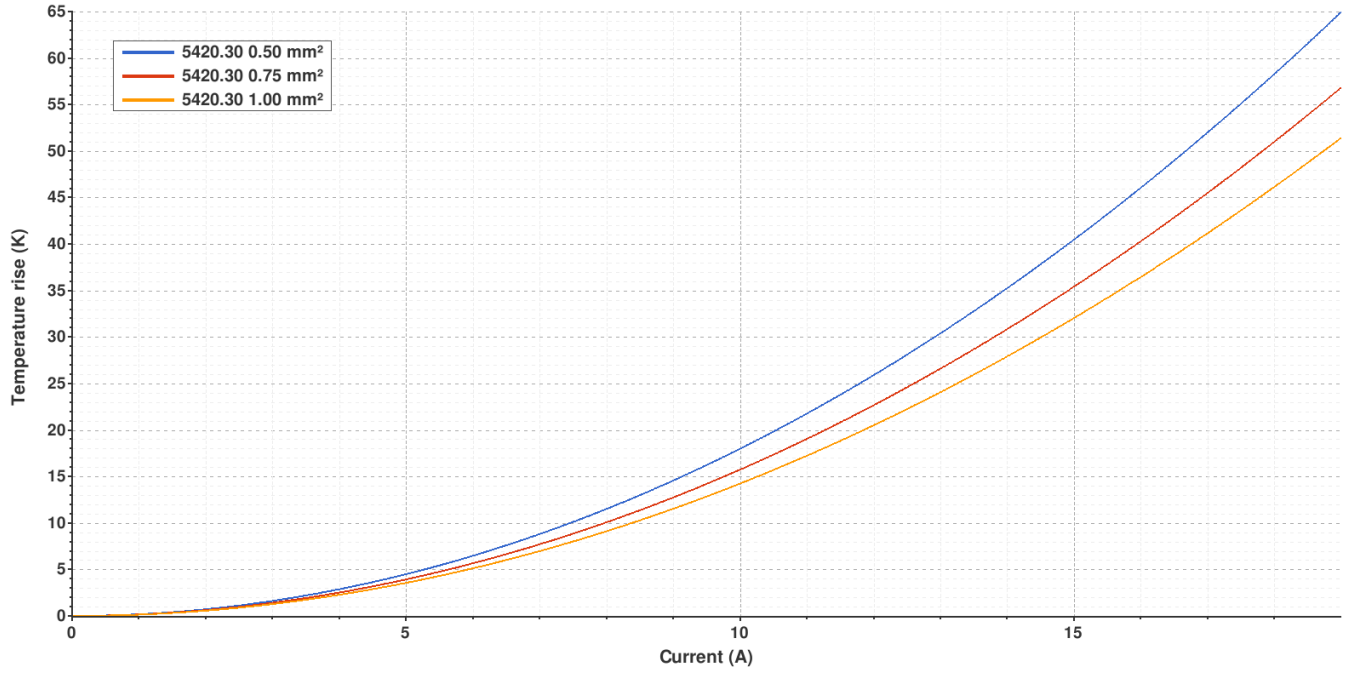
5420.30 NATURAL BRONZE

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

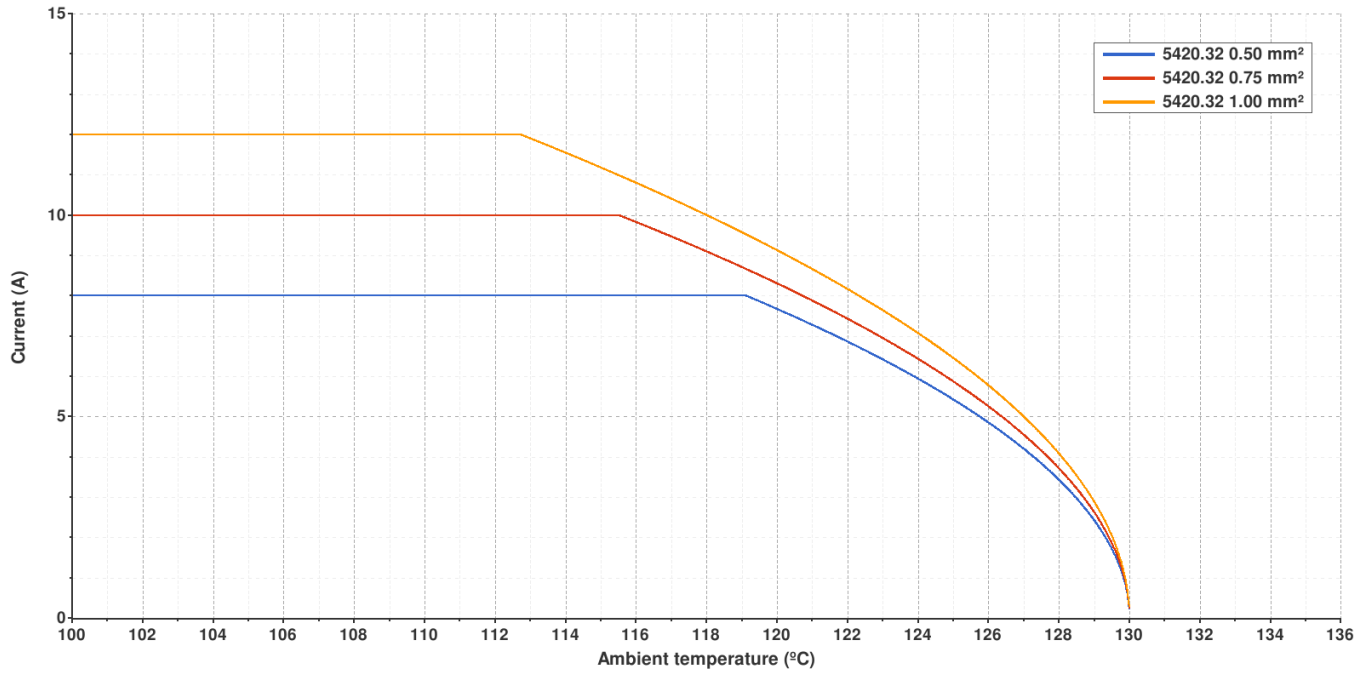


Valid for Natural Brass Tab

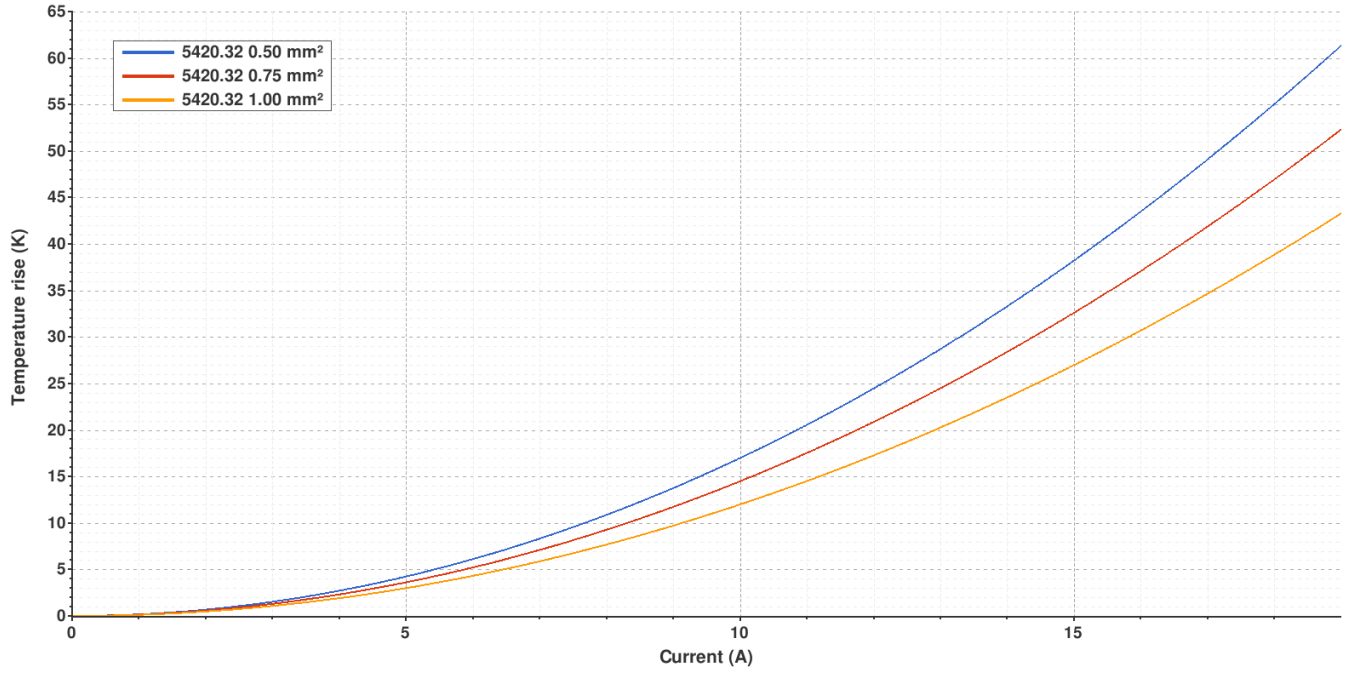
5420.32 TIN PLATED BRONZE

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

5420.**

6.3 (.250) TYPE SERIES · FLAGS

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

Disclaimer

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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]	2020-02-05	Laboratory Dept.	E. Roura

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