

4420.** 6.3 (.250) TYPE SERIES · RECEPTACLES



Specification Standard Terminals

For male (mm) 6,3x0,8

Din 46247

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. (°C)	Contact Resist (mΩ)
4420.00	Brass	Natural	110	0.55
4420.02	Brass	Tin plated	120	0.45
4420.24	Steel	Nickel-plated	300	1.50
4420.30	Bronze	Natural	120	0.75
4420.32	Bronze	Tin plated	130	0.65
4420.70	German Silver	Natural	210	(T.B.D.)

Material thickness (mm) 0,4

Max. rated current

Wire section	4420.00 / 02 / 24 / 30 / 32 / 70
0.50 mm ²	8A
0.75 mm ²	10A
1.00 mm ²	12A

Insertion / Withdrawal forces


	4420.00 / 30 / 70	4420.02 / 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 MN4420

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 mm ²	1.34 (±0.03)	2.38 (±0.03)	3.49 (±0.10)	56N @ 60s
0.75 mm ²	1.44 (±0.05)	2.39 (±0.05)	3.50 (±0.10)	84N @ 60s
1.00 mm ²	1.54 (±0.05)	2.39 (±0.05)	3.51 (±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 8000

Compatible connectors 26310**, 26311**, 26313**, 26316**, 26320**, 26321**

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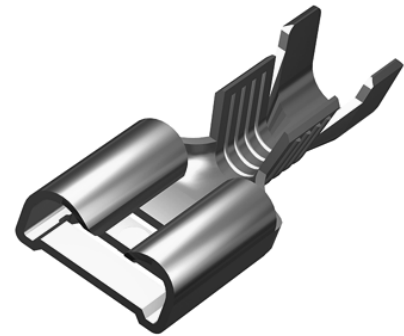
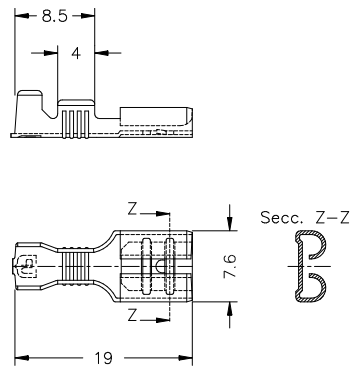
Approved regulations

Part nr.	Approval	Standard	File	Certified framework
4420.00	UL	UL 310	E211727	AWG 20-20 (10-10 Stranded Cu) / MN4420
4420.02	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN4420
4420.24	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN4420

Approvals



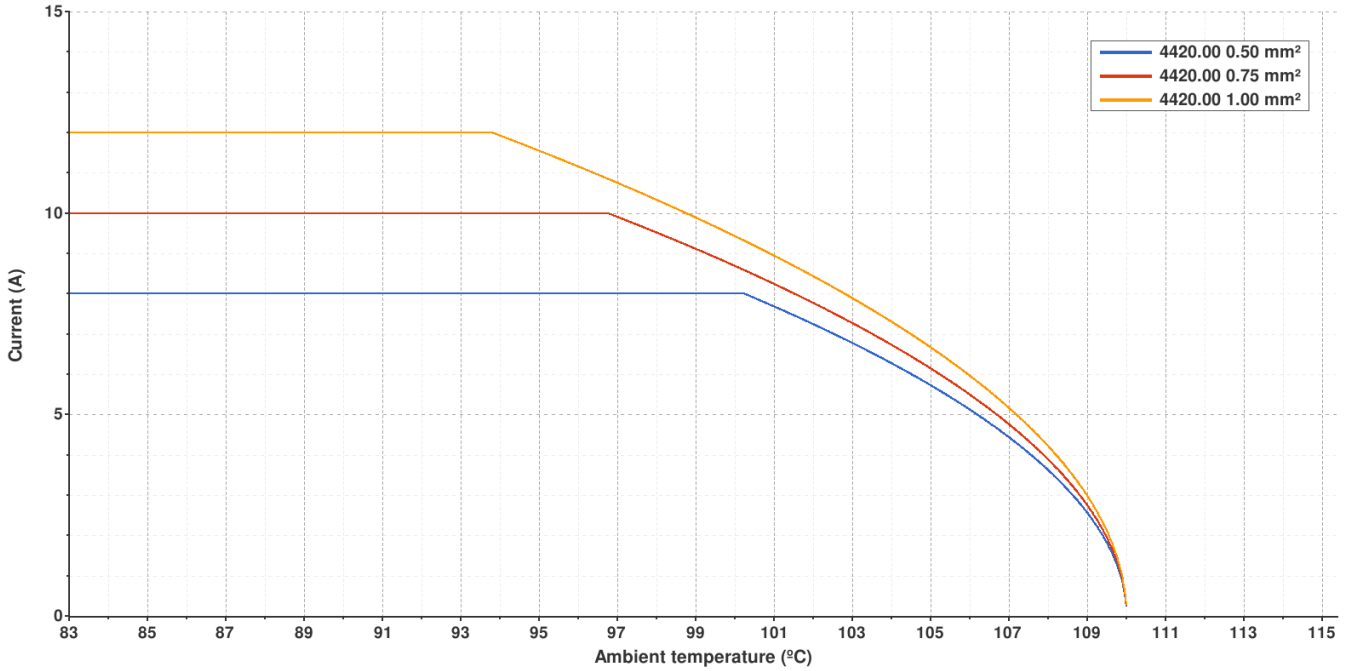
Drawing



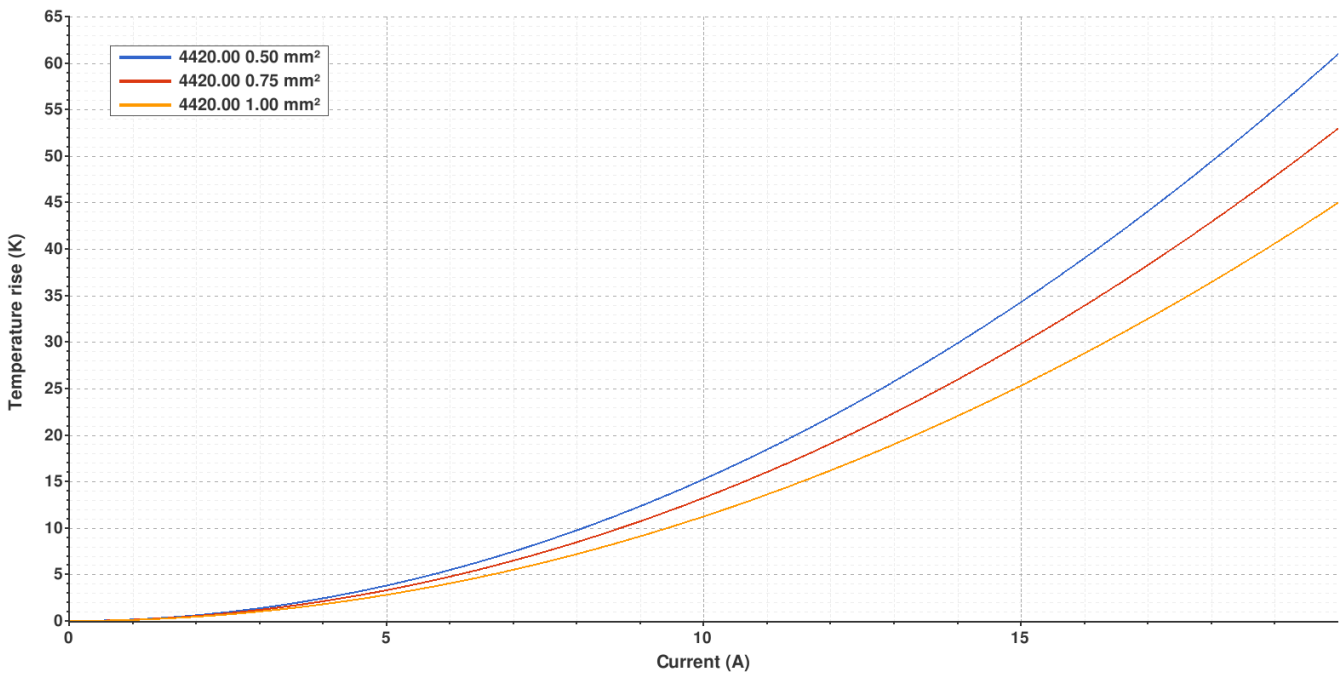
4420.00 NATURAL BRASS
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Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

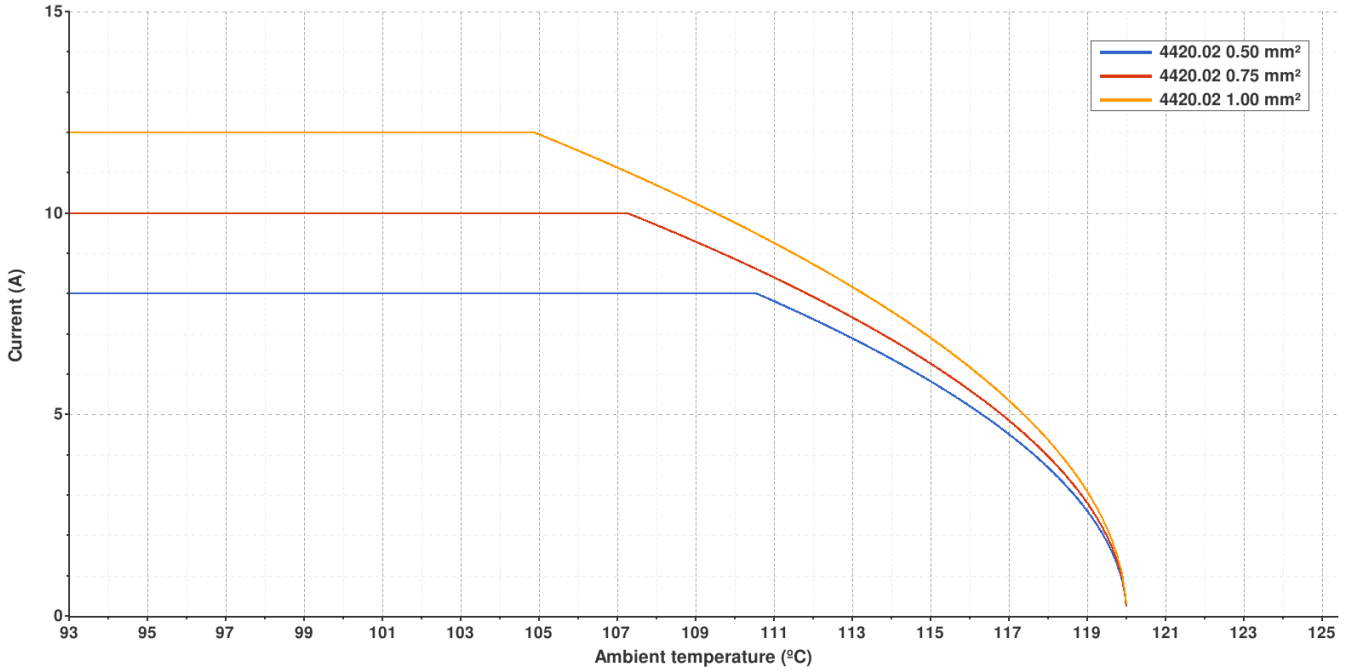


Valid for Natural Brass Tab

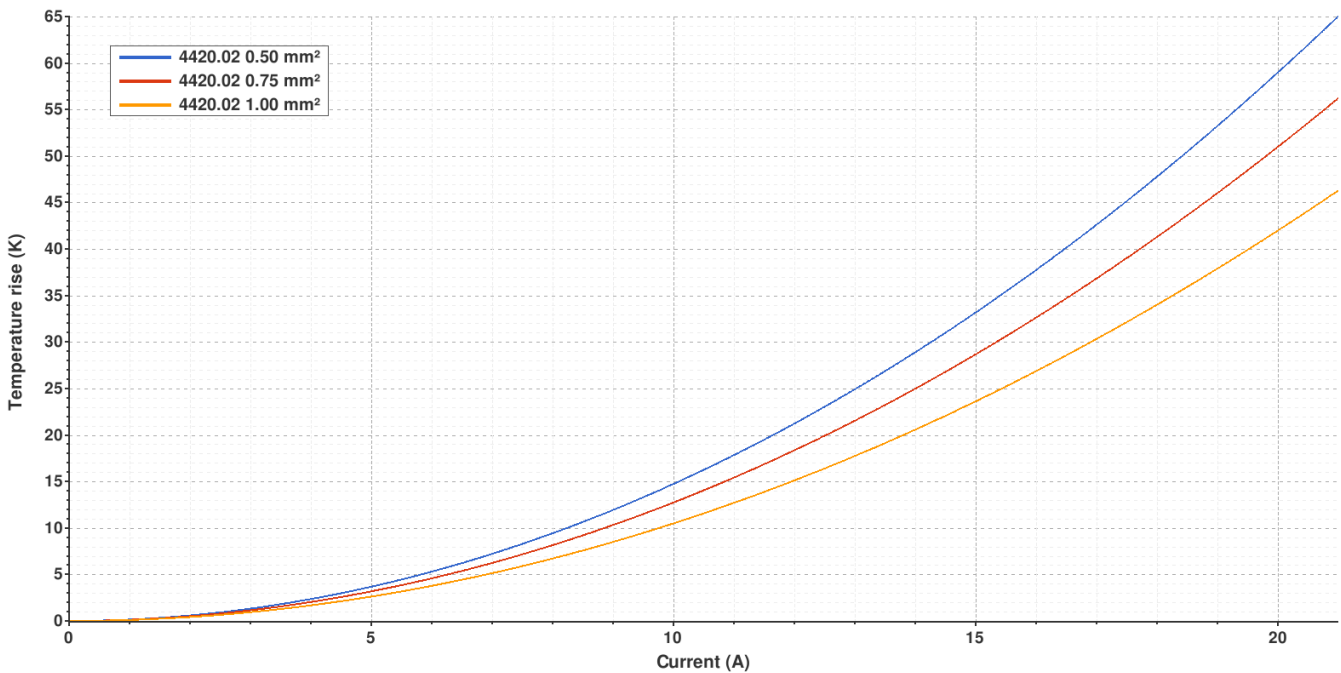
4420.02 TIN PLATED BRASS
6.3 (.250) TYPE SERIES · RECEPTACLES



Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

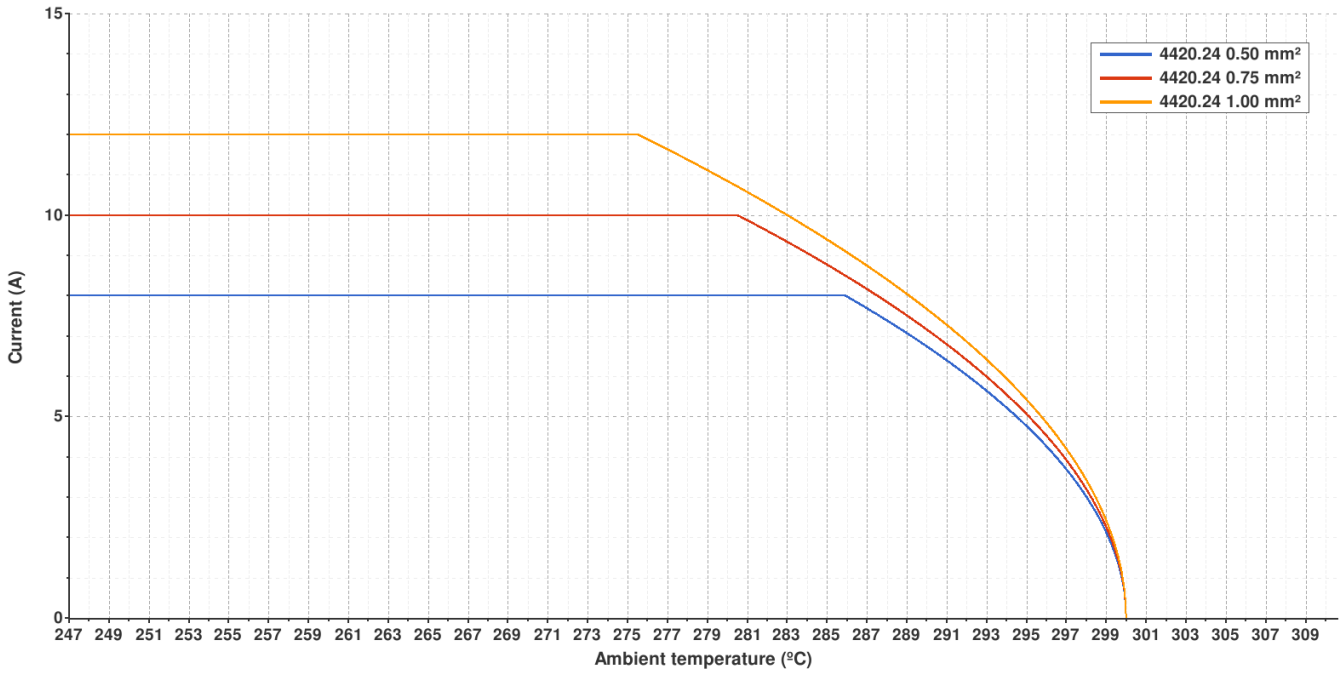


Valid for Natural Brass Tab

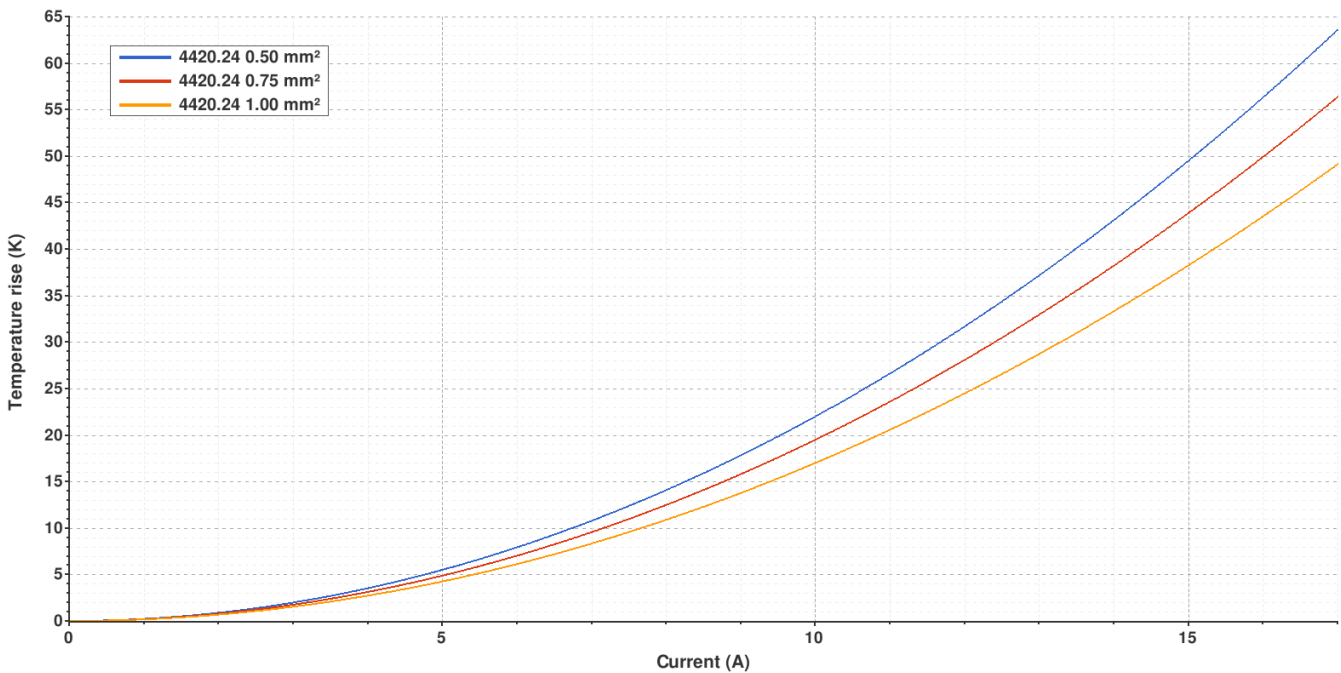
4420.24 NICKEL-PLATED STEEL
6.3 (.250) TYPE SERIES · RECEPTACLES



Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

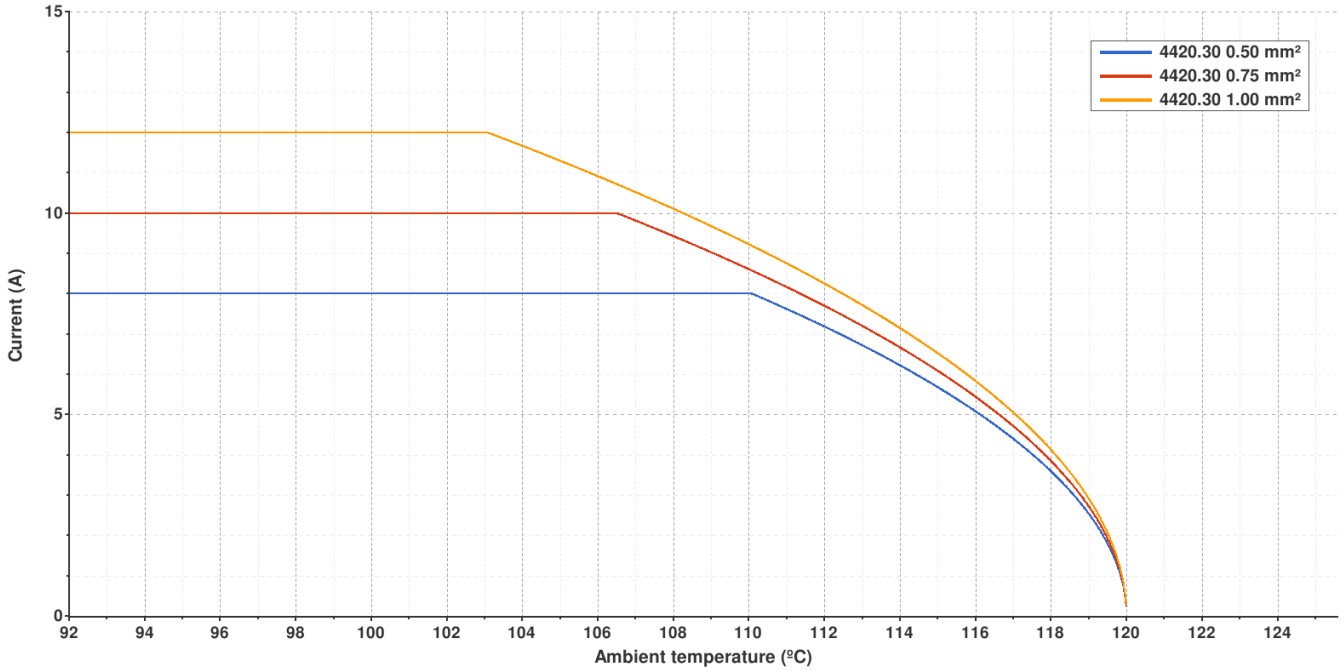


Valid for Natural Brass Tab

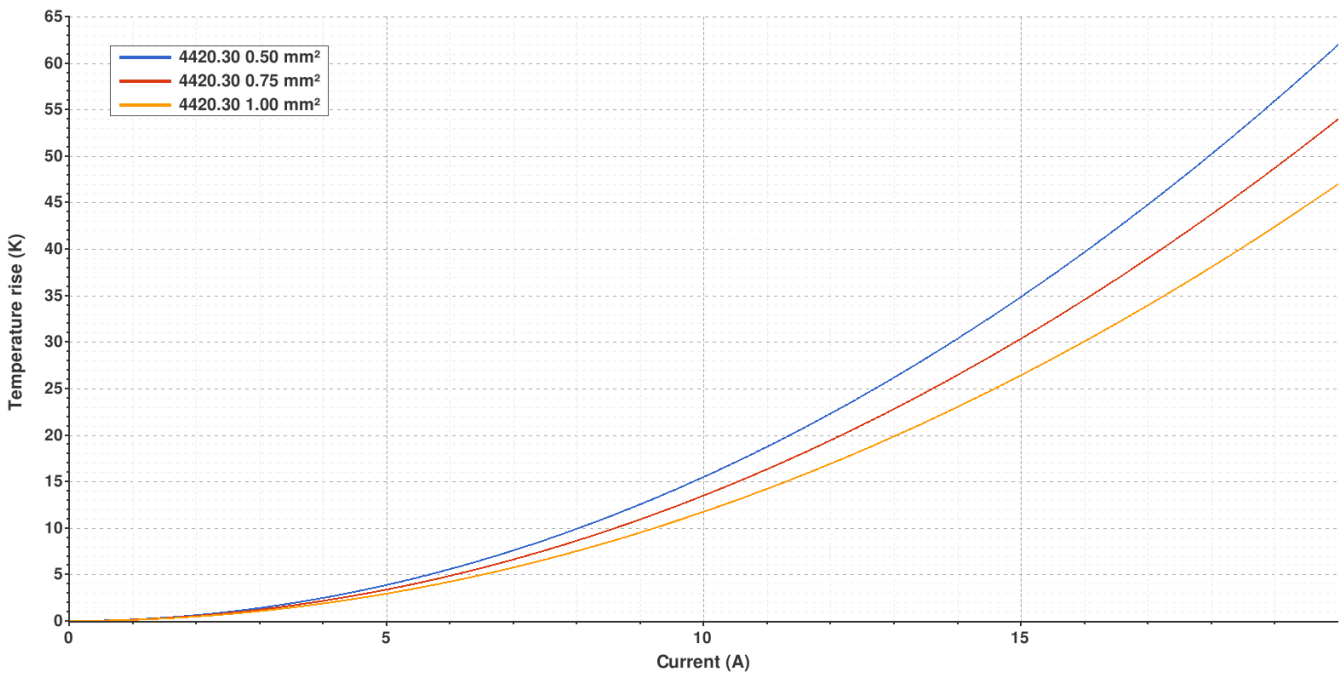
4420.30 NATURAL BRONZE
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Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

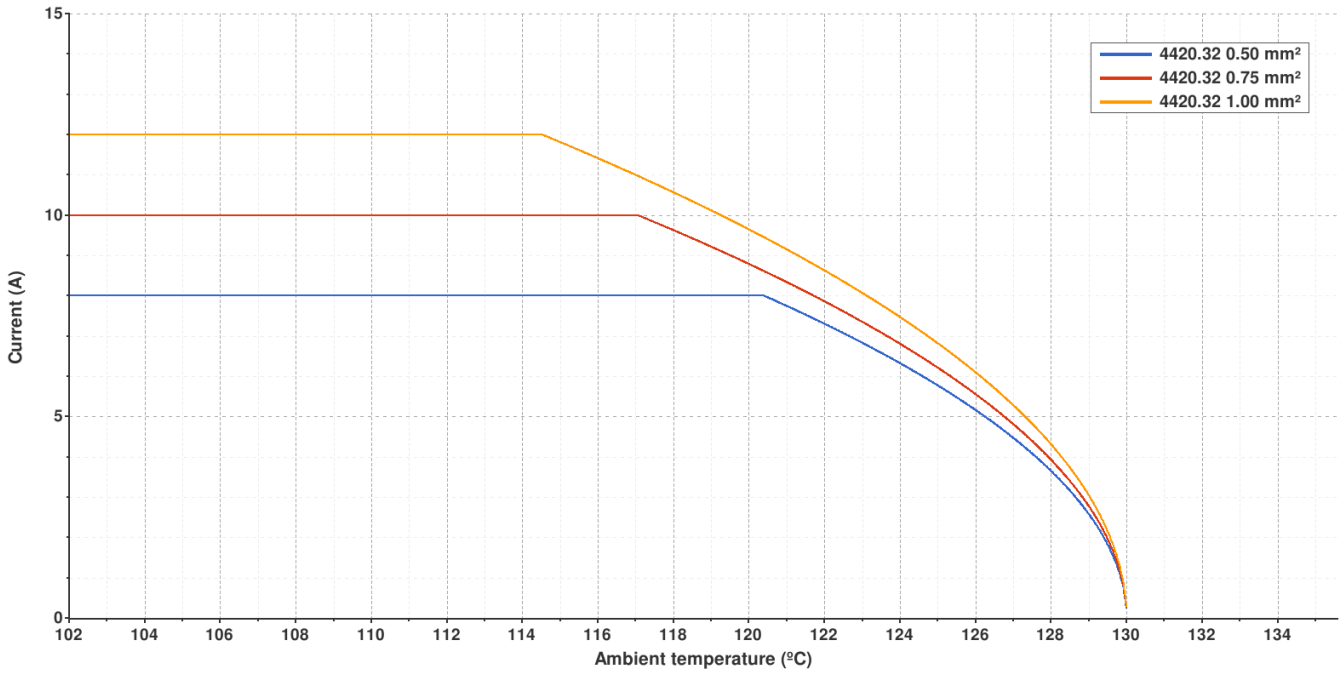


Valid for Natural Brass Tab

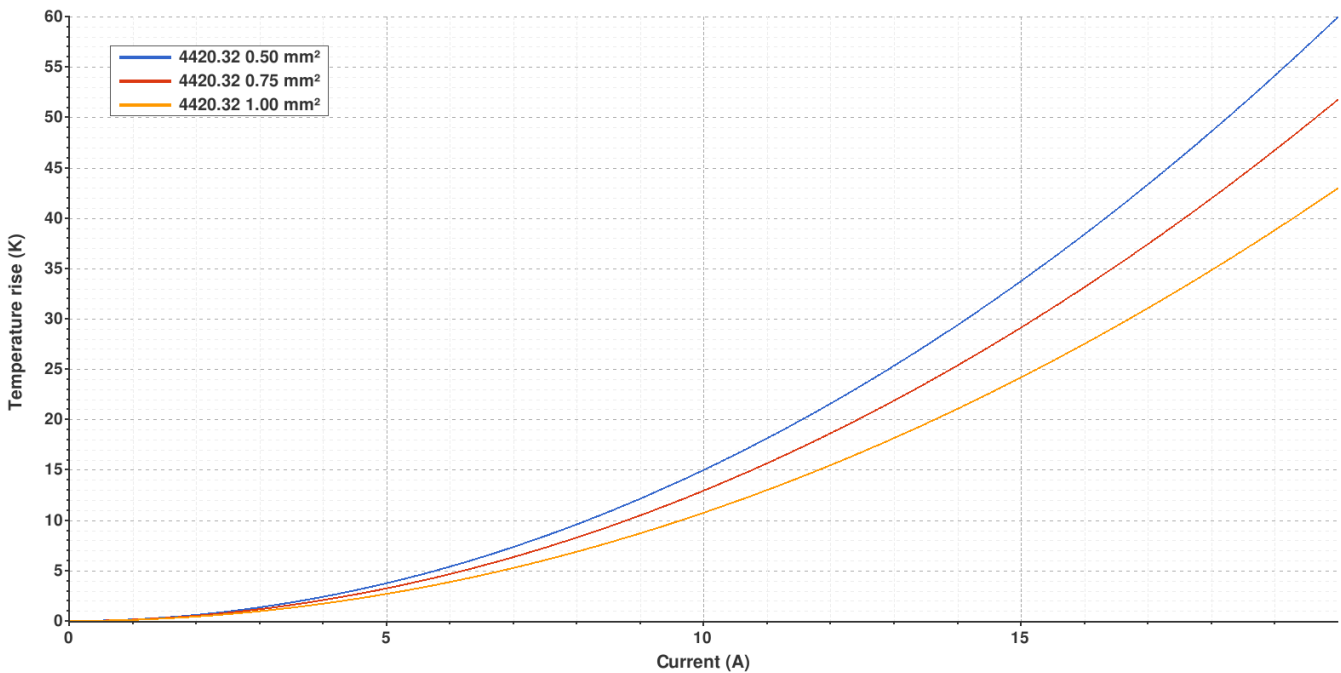
4420.32 TIN PLATED BRONZE
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Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried



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(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]	2019-02-05	Laboratory Dept.	E. Roura

Escubedo Connection Systems, 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