

5812.** 4.8 (.187) TYPE SERIES · FLAGS



Specification	Low insertion
Typology	With Upper Dimple
For male (mm)	4,8x0,5
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. (°C)	Contact Resist (mΩ)
5812.00	Brass	Natural	110	1.00
5812.01	Brass	Pre-tin-plated	120	0.75
5812.02	Brass	Tin plated	120	(T.B.D.)
5812.24	Steel	Nickel-plated	300	(T.B.D.)
5812.30	Bronze	Natural	120	(T.B.D.)
5812.31	Bronze	Pre-tin-plated	130	(T.B.D.)
5812.70	German Silver	Natural	210	(T.B.D.)

Material thickness (mm) 0,35

Max. rated current

Wire section	5812.00 / 01 / 02 / 24 / 30 / 31 / 70
0.50 mm ²	8A
0.75 mm ²	10A
1.00 mm ²	12A
1.50 mm ²	16A



Insertion / Withdrawal forces

	5812.00 / 01 / 02 / 24 / 30 / 31 / 70
1st Insertion (max)	25N ¹
1st Withdrawal (max)	50N ¹
1st Withdrawal (min)	22N ¹
6th Withdrawal (min)	13N ¹

¹ Valid for Natural Brass Tab

Application tool MN5812

Crimping parameters & pull out force

Wire section (±10%)	Conductor 		Insulator 	Pull-out force (N)
	Height (mm)	Width (mm)	Width (mm)	
0.50 mm ²	1.25 (±0.03)	2.40 (±0.03)	3.50 (±0.10)	56N @ 60s
0.75 mm ²	1.35 (±0.05)	2.42 (±0.05)	3.50 (±0.10)	84N @ 60s
1.00 mm ²	1.45 (±0.05)	2.43 (±0.05)	3.50 (±0.10)	108N @ 60s
1.50 mm ²	1.65 (±0.05)	2.46 (±0.05)	3.50 (±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 5000

Compatible connectors 24833**

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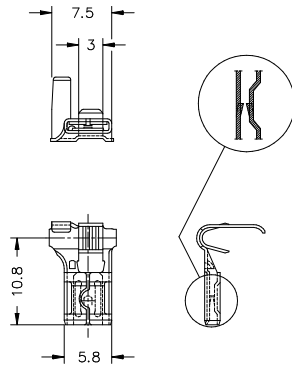
Approved regulations

Part nr.	Approval	Standard	File	Certified framework
5812.00	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN5812
5812.01	UL	UL 310	E211727	AWG 20-20 (10-10 Stranded Cu) / MN5812
5812.24	UL	UL 310	E211727	AWG 20-20 (10-10 Stranded Cu) / MN5812

Approvals



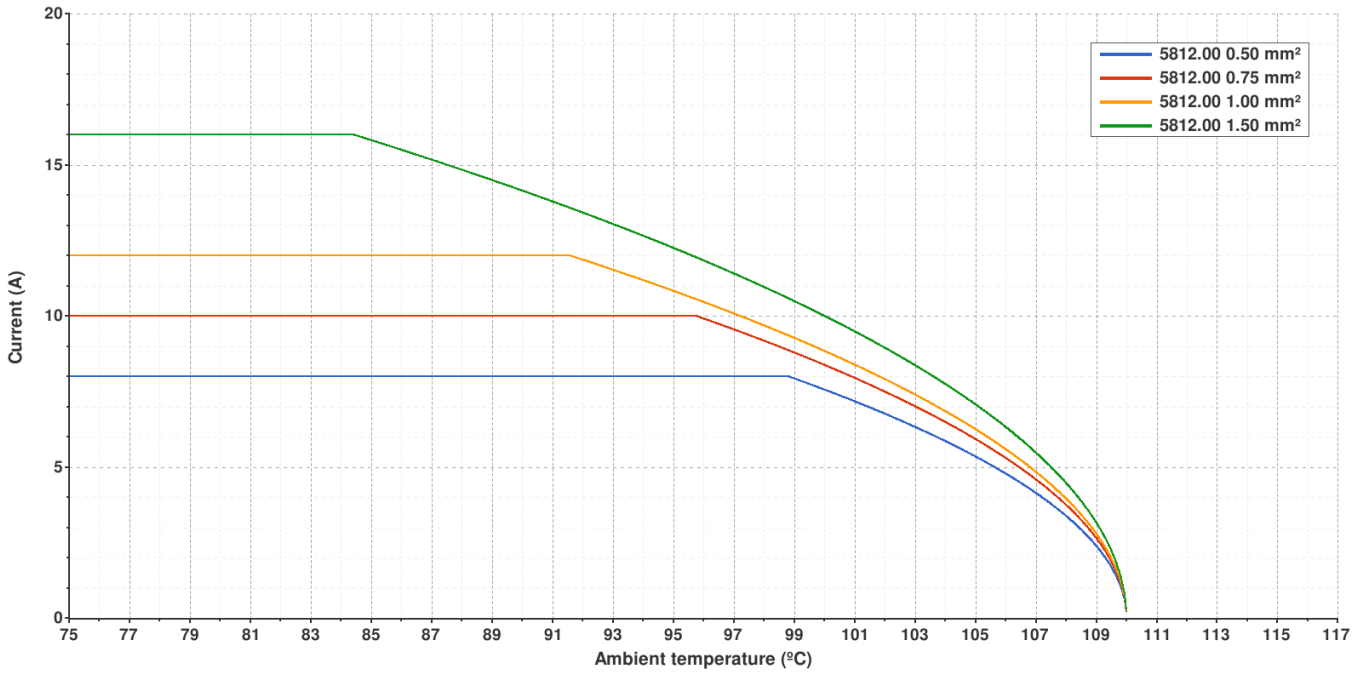
Drawing



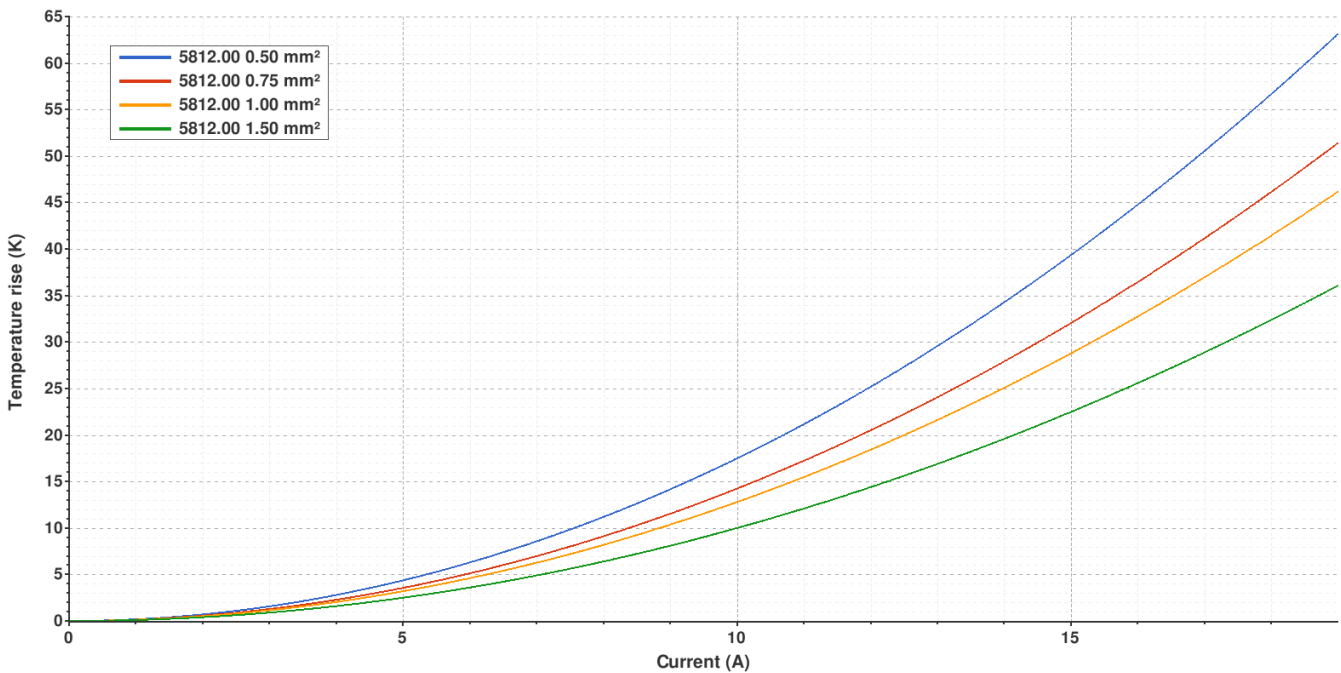
5812.00 NATURAL BRASS
4.8 (.187) TYPE SERIES · FLAGS



Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

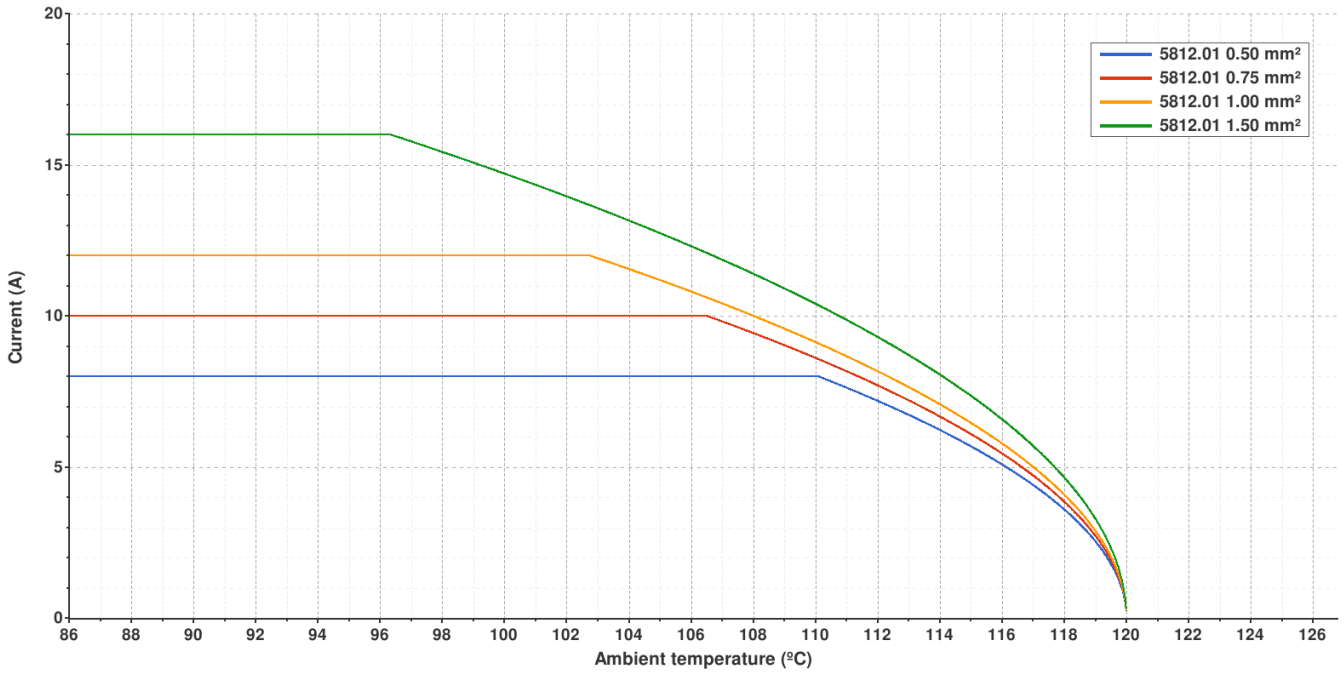


Valid for Natural Brass Tab

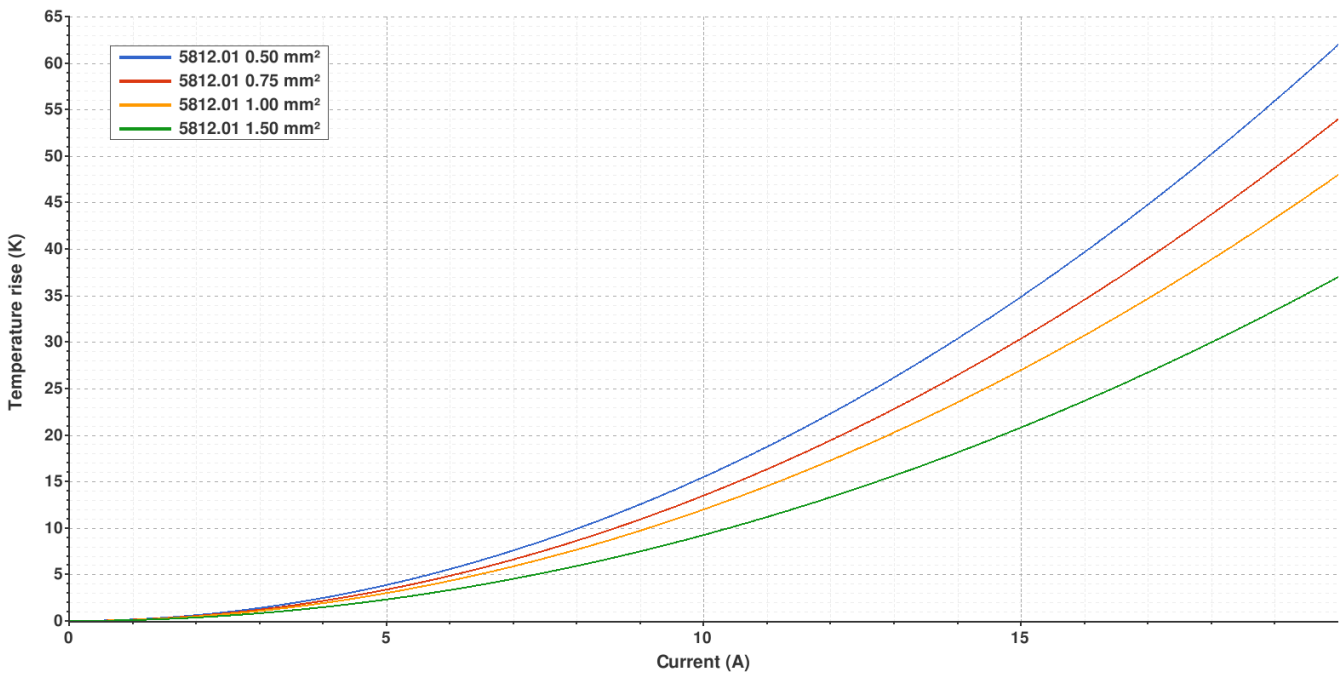
5812.01 PRE-TIN-PLATED BRASS
4.8 (.187) TYPE SERIES · FLAGS



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

Disclaimer

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Rev. Nr.	Concept	Date	Created/Revised	Approved
A2	Change company name and logo	2021-10-21	E. Roura (Laboratory Dept.)	D. Yabar (Engineering Dept.)
A1	Datasheet created automatically [A1]	2021-05-03	E. Roura (Laboratory Dept.)	D. Yabar (Engineering Dept.)

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