4813E**

4.8 (.187) TYPE SERIES · RECEPTACLES

Specification Low insertion

For male (mm) 4,8x0,5

Wire size mm² (AWG) 0,5-1,5 (20-16)

Ø Insulation (mm) 1,8-2,5

Materials, temperature and contact resistance

Part nr.	Material	Finishing	Max. Temp. (ºC)	Contact Resist (mΩ)
4813E00	Brass	Natural	110	0.95
4813E01	Brass	Pre-tin-plated	120	0.70
4813E24	Steel	Nickel-plated	300	(T.B.D.)
4813E30	Bronze	Natural	120	(T.B.D.)
4813E31	Bronze	Pre-tin-plated	130	(T.B.D.)
4813E70	German Silver	Natural	210	(T.B.D.)

Material thickness (mm) 0,35

Max. rated current

Wire section	4813E00 / 01 / 24 / 30 / 31 / 70
0.50 mm²	8A
0.75 mm²	10A
1.00 mm²	12A
1.50 mm²	16A

Insertion / Withdrawal forces

	4813E00 / 01 / 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 MN4813E

Wire strip length 4.4 (±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	1.30 (±0.03)	2.36 (±0.03)	3.13 (±0.10)	56N @ 60s
0.75 mm²	1.40 (±0.05)	2.37 (±0.05)	3.13 (±0.10)	84N @ 60s
1.00 mm²	1.50 (±0.05)	2.39 (±0.05)	3.14 (±0.10)	108N @ 60s
1.50 mm²	1.65 (±0.05)	2.40 (±0.05)	3.15 (±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 10000

Compatible connectors 24814**

Approved regulations

Part nr.	Approval	Standard	File	Certified framework
4813E00	UL	UL 310	E211727	AWG 20-16 (10-26 Stranded Cu) / MN4813E
4813E01	UL	UL 310	E211727	AWG 20-16 (10-26 Stranded Cu) / MN4813E

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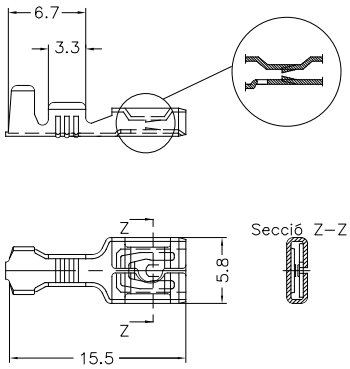
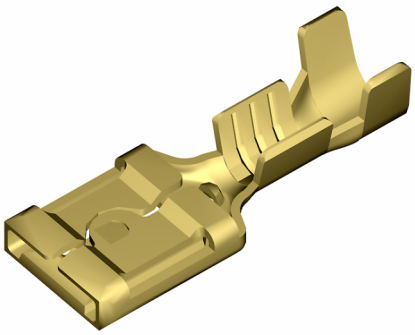
Approvals

Drawing

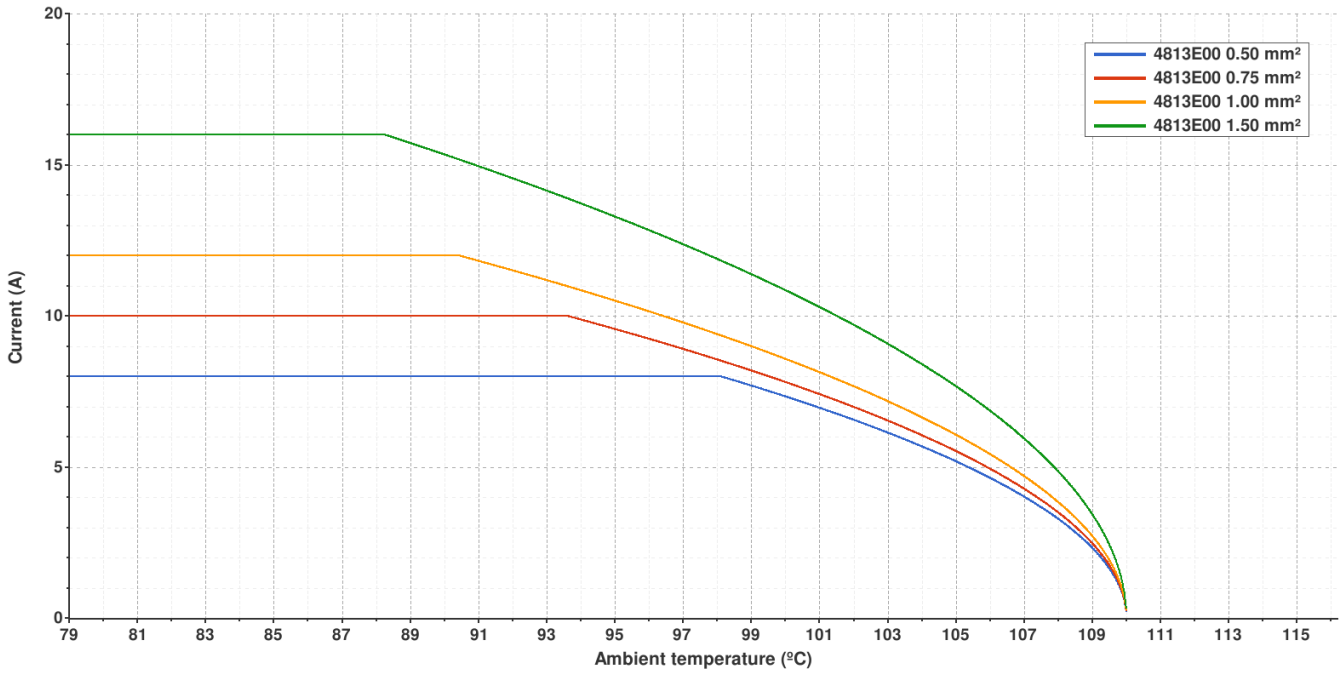




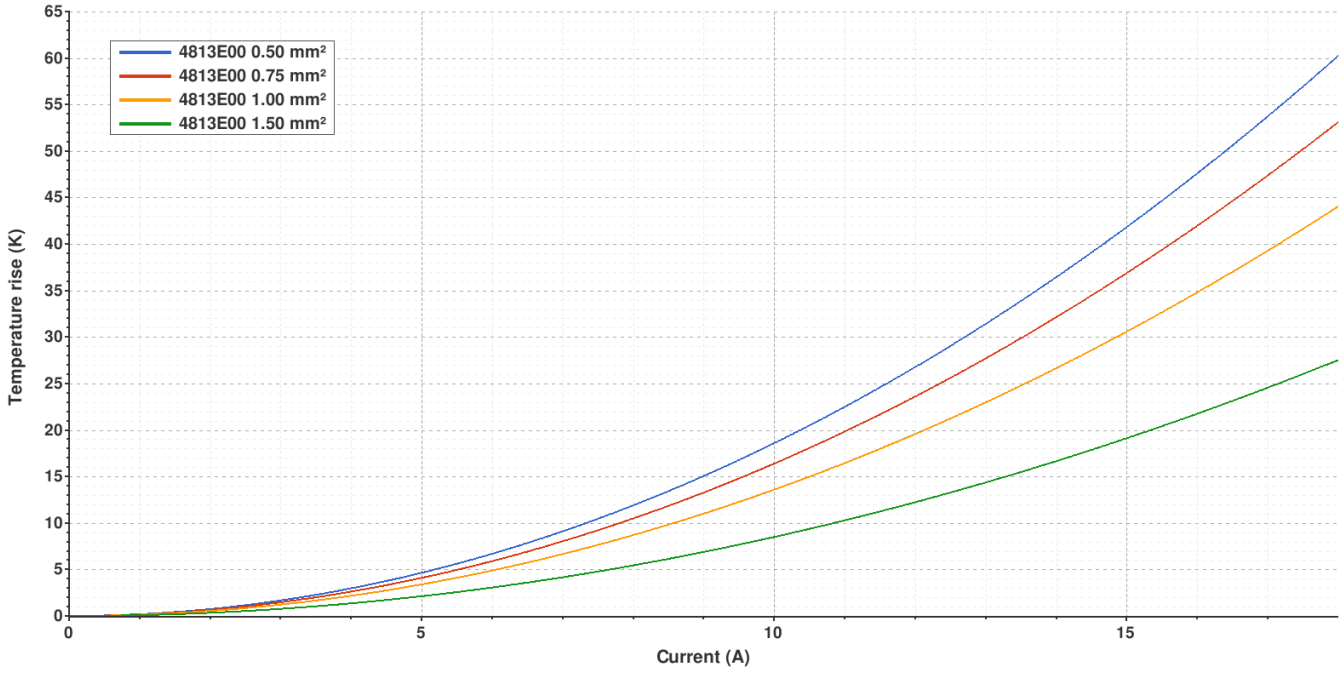
4813E00 NATURAL BRASS

4.8 (.187) TYPE SERIES · RECEPTACLES

Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried

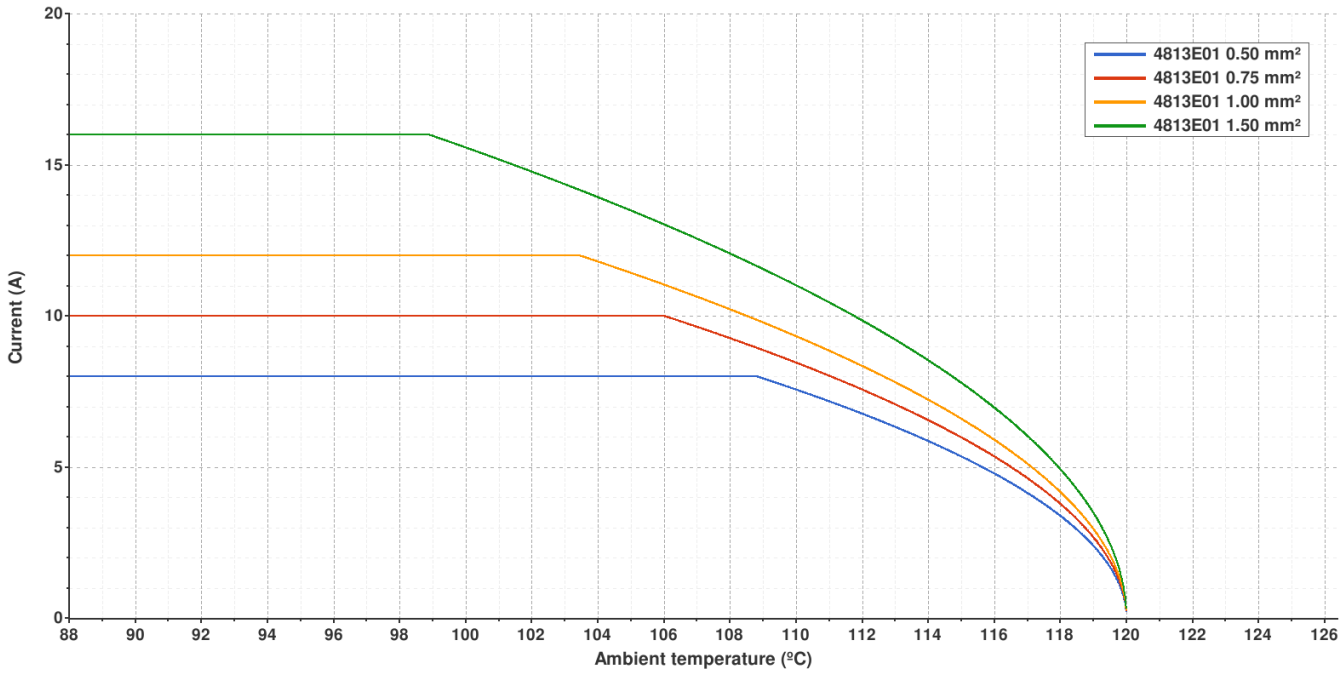


Valid for Natural Brass Tab

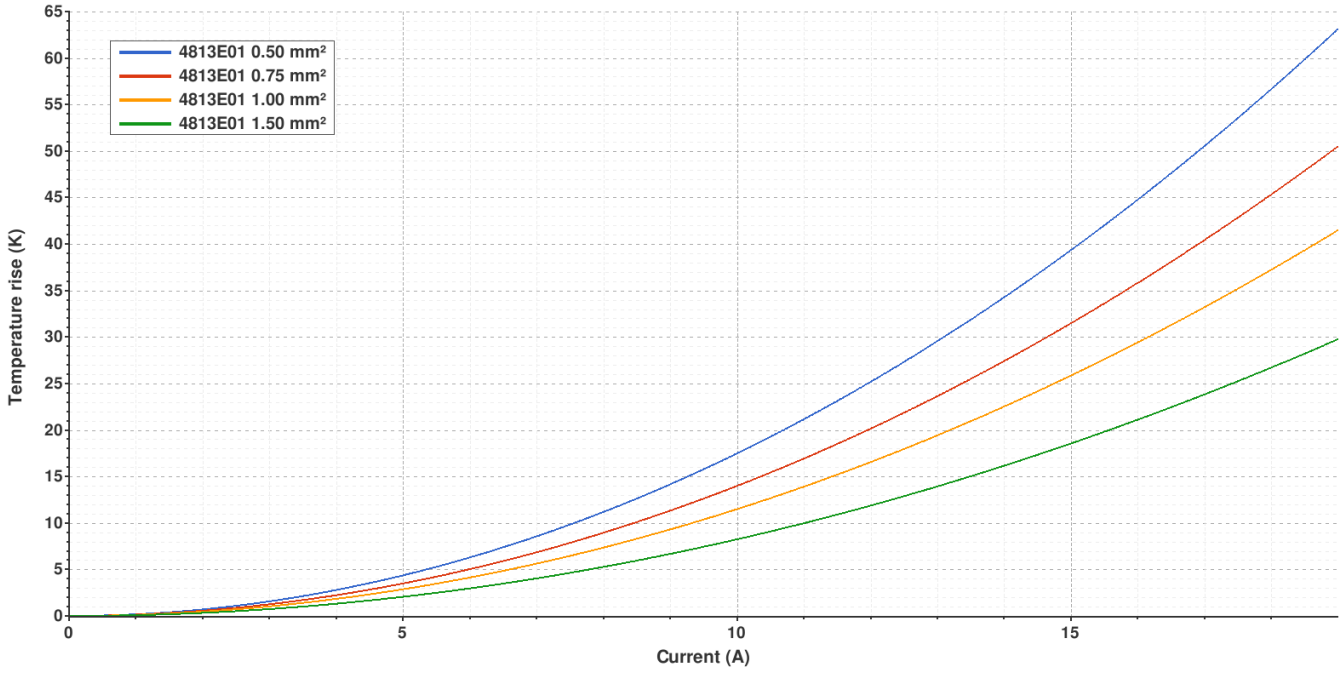
4813E01 PRE-TIN-PLATED BRASS

4.8 (.187) 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

4813E**

4.8 (.187) TYPE SERIES · RECEPTACLES

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

Disclaimer

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Rev. Nr.	Concept	Date	Created/Revised	Approved
A3	Change company name and logo	2021-10-21	E.Roura (Lab.Dept)	D.Yabar (Eng. Dept)
A2	Application tool updated	2021-02-22	E.Roura (Lab.Dept)	D.Yabar (Eng. Dept)
A1	Datasheet generated automatically [A1]	2019-02-27	Lab. Dept.	E. Roura

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