4809.**

2.8 (.110) TYPE SERIES · RECEPTACLES

Specification Low insertion

Din Esp

For male (mm) 2,8x0,5

Wire size mm² (AWG) 0,5-1 (20-18)

Ø Insulation (mm) 1,8-3,3

Materials, temperature and contact resistance

Part nr.	Material	Finishing	Max. Temp. (ºC)	Contact Resist (mΩ)
4809.00	Brass	Natural	110	(T.B.D.)
4809.01	Brass	Pre-tin-plated	120	0.85
4809.24	Steel	Nickel-plated	300	2.00
4809.30	Bronze	Natural	120	(T.B.D.)
4809.31	Bronze	Pre-tin-plated	130	(T.B.D.)

Material thickness (mm) 0,3

Max. rated current

Wire section	4809.00 / 01 / 24 / 30 / 31
0.50 mm²	6A
0.75 mm²	8A
1.00 mm²	8A

Compatible connectors 22814**, 22815**, 22816**

Insertion / Withdrawal forces

	4809.00 / 01 / 24 / 30 / 31
1st Insertion (max)	20N¹
1st Withdrawal (max)	40N¹
1st Withdrawal (min)	13N¹
6th Withdrawal (min)	9N¹

¹ Valid for Natural Brass Tab

Application tool MN4809

Wire strip length 3.7 (±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	1.15 (±0.03)	2.06 (±0.03)	3.05 (±0.10)	56N @ 60s
0.75 mm²	1.25 (±0.05)	2.07 (±0.05)	3.06 (±0.10)	84N @ 60s
1.00 mm²	1.35 (±0.05)	2.08 (±0.05)	3.07 (±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 15000

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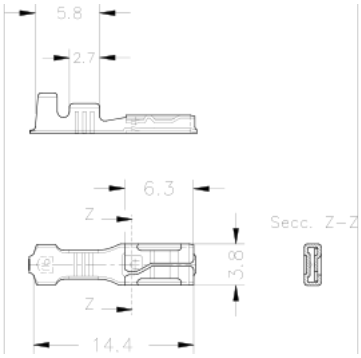
Approved regulations

Part nr.	Approval	Standard	File	Certified framework
4809.00	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN4809
4809.01	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN4809
4809.24	UL	UL 310	E211727	AWG 20-18 (10-16 Stranded Cu) / MN4809

Approvals

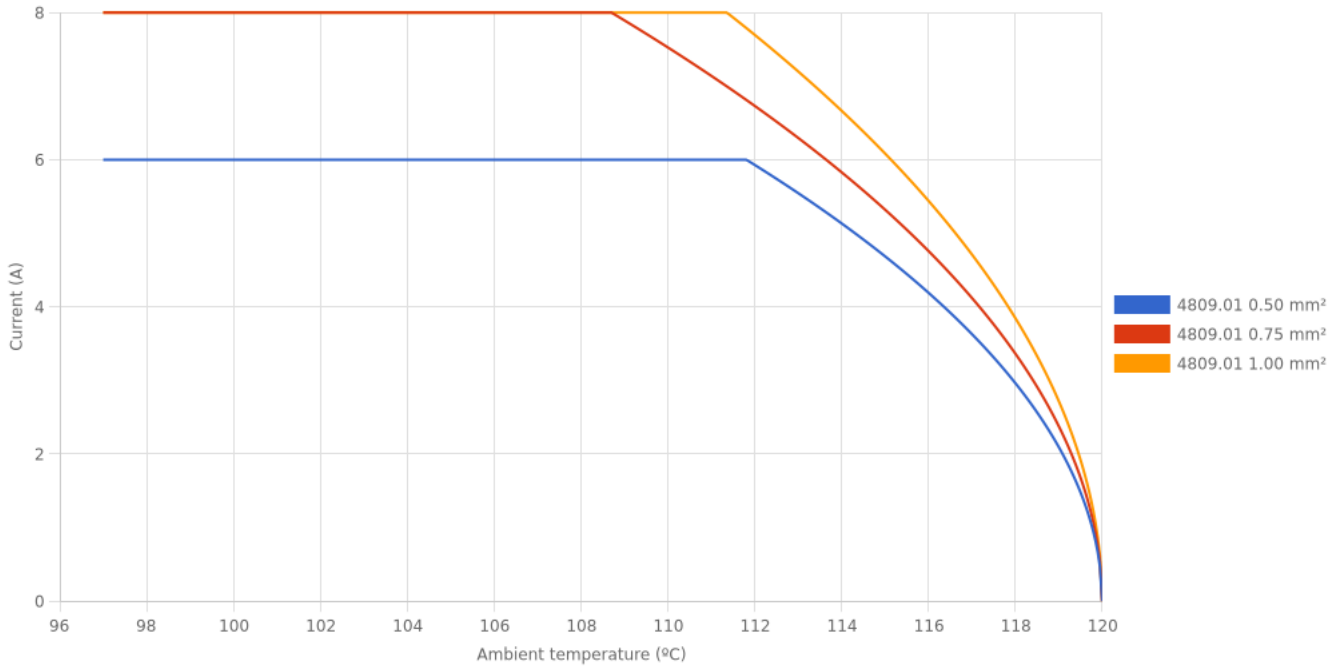
Drawing



4809.01 PRE-TIN-PLATED BRASS
2.8 (.110) TYPE SERIES · RECEPTACLES

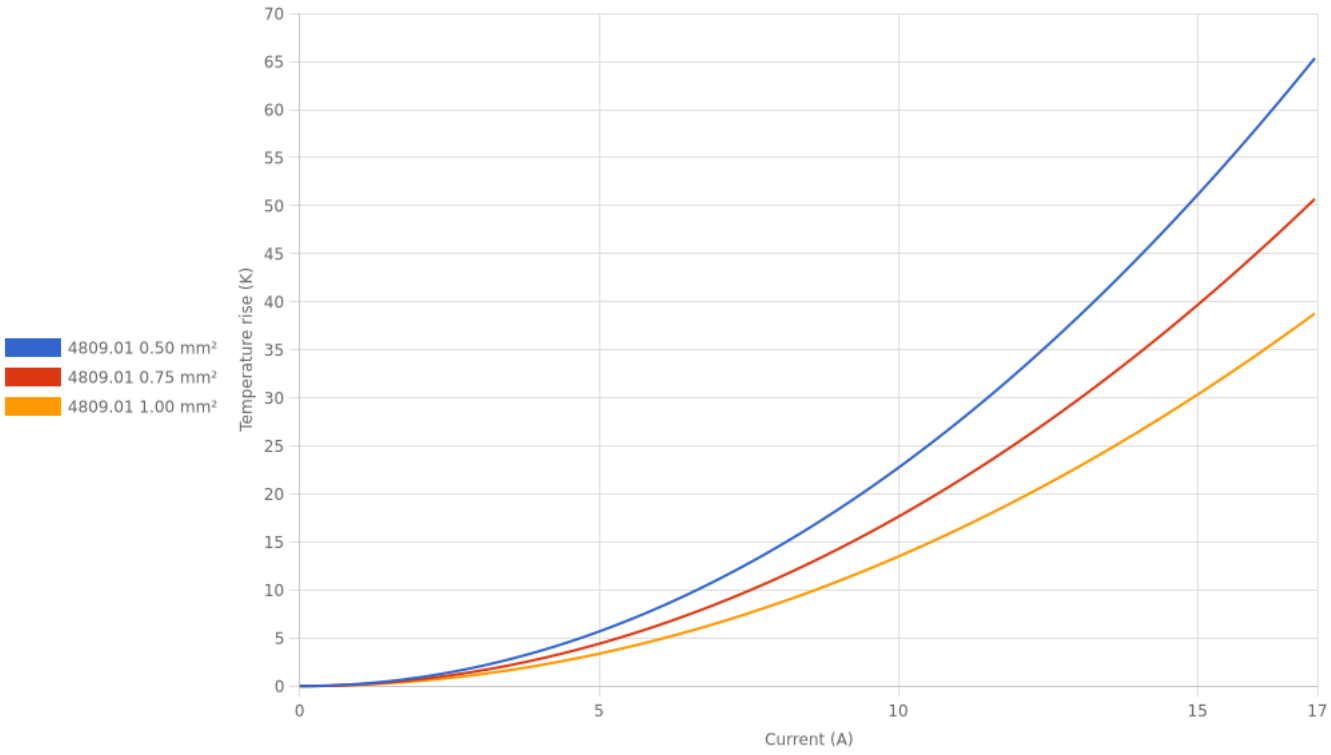
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried

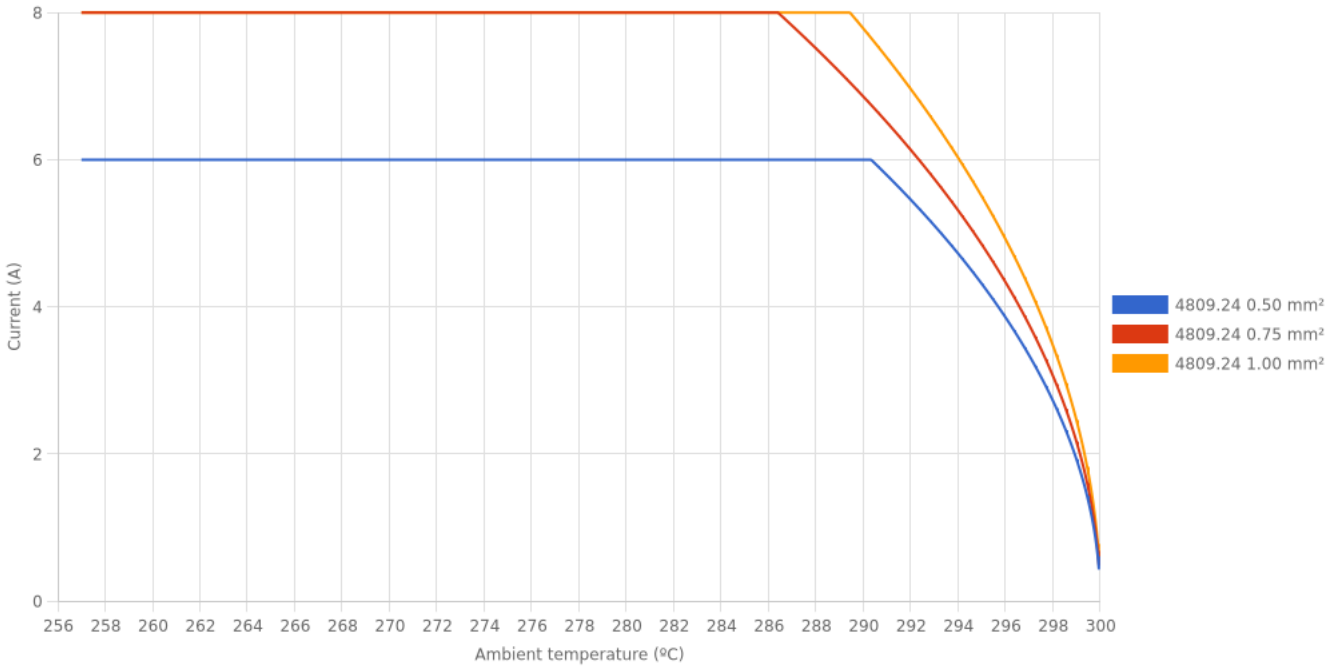


Valid for Natural Brass Tab

4809.24 NICKEL-PLATED STEEL
2.8 (.110) TYPE SERIES · RECEPTACLES

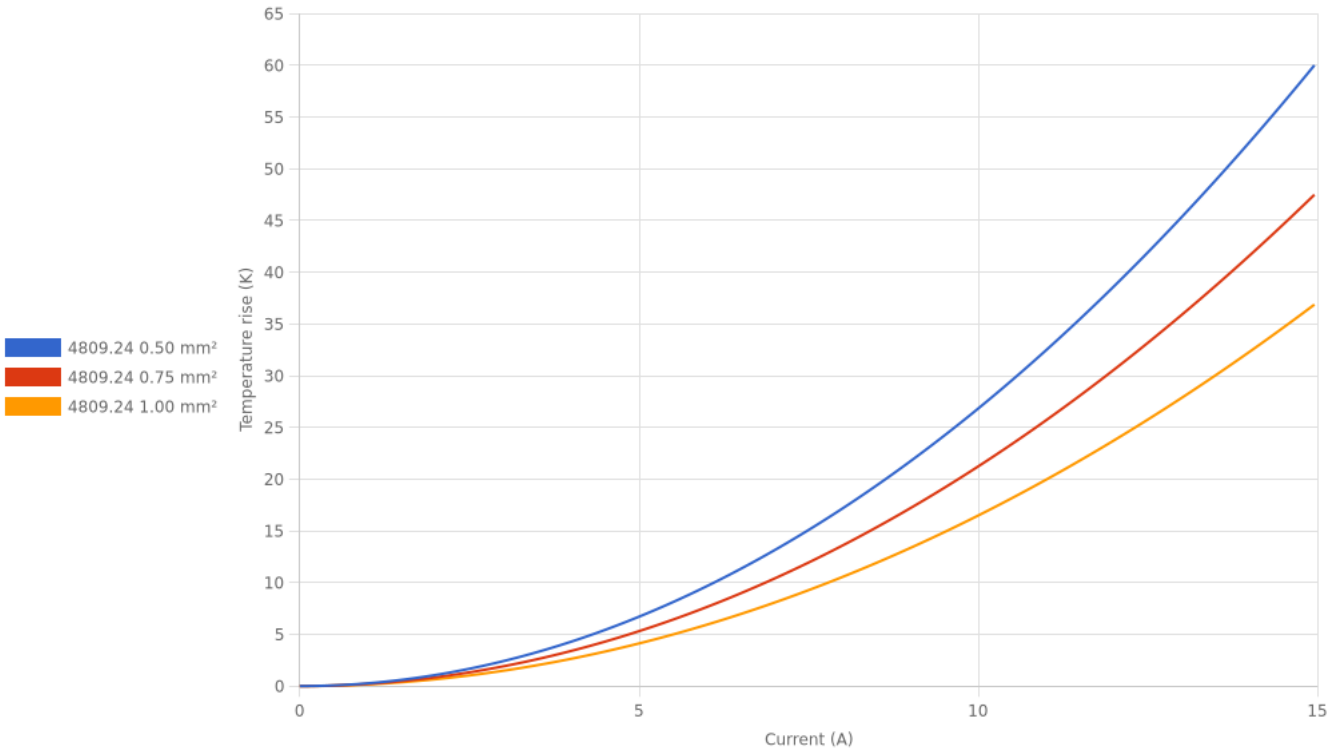
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab

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