

4939J**

6.3 (.250) TYPE SERIES · RECEPTACLES

SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.



Specification Self-locking terminals under TP design

Typology Extra low insertion

For male (mm) 6,3x0,8

Wire size mm² (AWG) 1-2,5(18-14)

Ø Insulation (mm) 3-4,3

Materials, temperature and contact resistance

Part nr.	Material	Finishing	Max. Temp. (°C)	Contact Resist (mΩ)
4939J00	Brass	Natural	110	1.00
4939J01	Brass	Pre-tin-plated	120	0.75
4939J02	Brass	Tin plated	120	0.75
4939J24	Steel	Nickel-plated	300	2.50

Material thickness (mm) 0,4

Insertion / Withdrawal forces

	4939J00 / 01 / 02 / 24
1st Withdrawal (min, locking enabled)	90N ¹
1st Withdrawal (max)	25N ¹
1st Insertion (max)	20N ¹

¹ Valid for Natural Brass Tab

Security function Self-locking function prevents disconnection by pulling the cable. Disconnection is possible disabling the locking function, pressing the lever manually or sliding the connector (see withdrawal forces). It allows several connections-disconnections maintaining the functional features.

Application tool MN4939

Wire strip length 5.5 (±0.5) mm

Crimping parameters & pull out force

Wire section (±10%)	Conductor		Insulator	Pull-out force (N)
	Height (mm)	Width (mm)	Width (mm)	
1.00 mm ²	1.55 (±0.05)	3.06 (±0.05)	4.09 (±0.10)	108N @ 60s
1.50 mm ²	1.70 (±0.05)	3.07 (±0.05)	4.11 (±0.10)	150N @ 60s
2.00 mm ²	1.80 (±0.05)	3.08 (±0.05)	4.12 (±0.10)	150N @ 60s
2.50 mm ²	1.90 (±0.05)	3.10 (±0.05)	4.17 (±0.10)	230N @ 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 6000

Compatible connectors 26418**, RS5412**-K, RS5413**-K, RS5414**-K, RS5415**-K

Max. rated current

Wire section	4939J00 / 01 / 02 / 24
1.00 mm ²	12A
1.50 mm ²	16A
2.50 mm ²	20A

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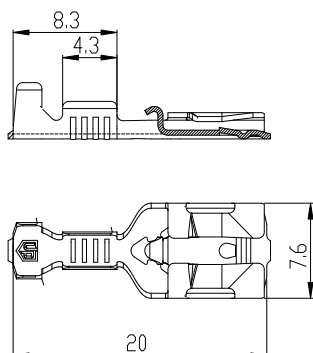
Approved regulations

Part nr.	Approval	Standard	File	Certified framework
4939J00	UL	UL 310	E211727	AWG 18-14 (16-41 Stranded Cu) / MN4939
4939J01	UL	UL 310	E211727	AWG 18-14 (16-41 Stranded Cu) / MN4939
4939J02	UL	UL 310	E211727	AWG 18-14 (16-41 Stranded Cu) / MN4939
4939J24	UL	UL 310	E211727	AWG 18-14 (16-41 Stranded Cu) / MN4939

Approvals



Drawing



4939J00 NATURAL BRASS

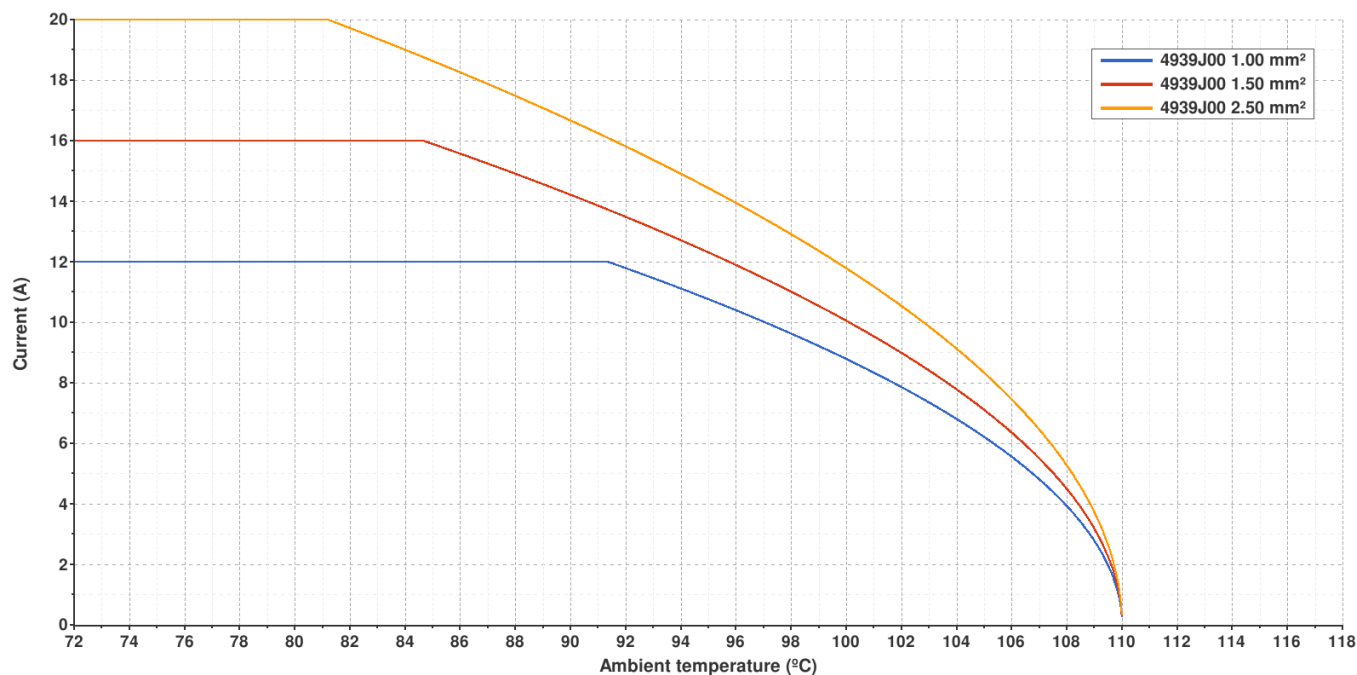
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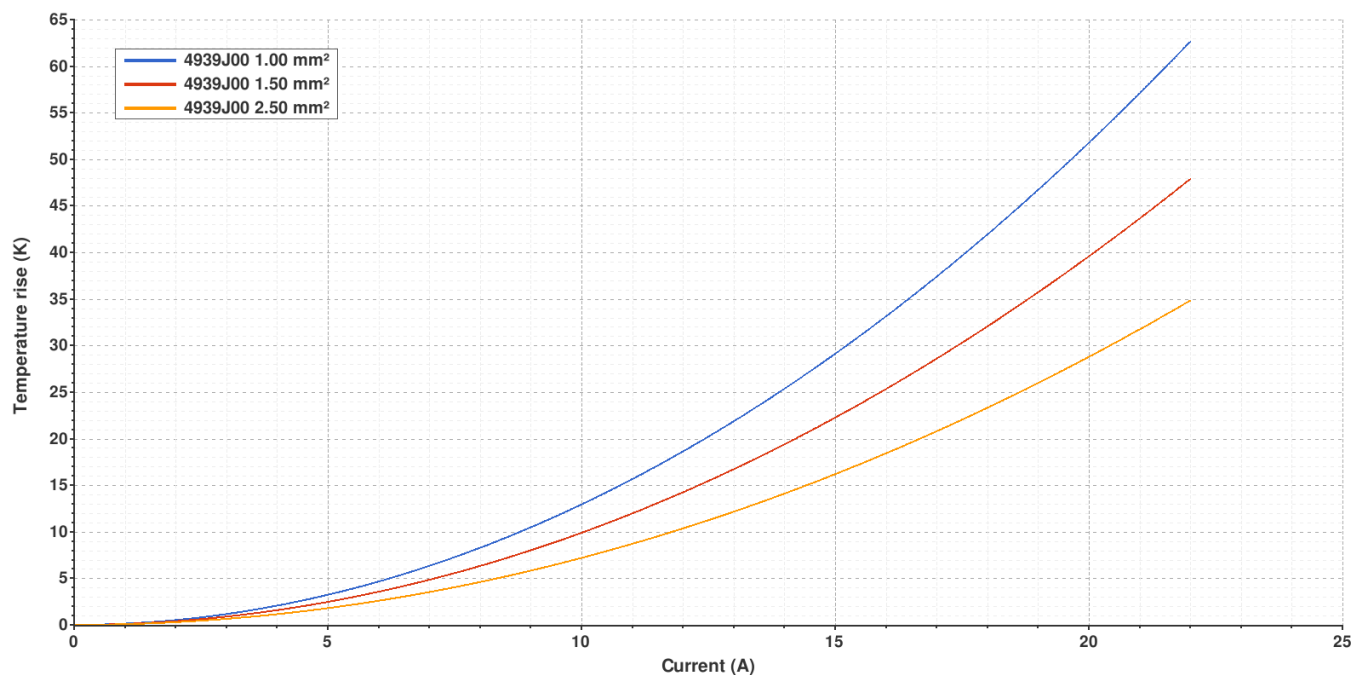
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



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4939J01 PRE-TIN-PLATED BRASS

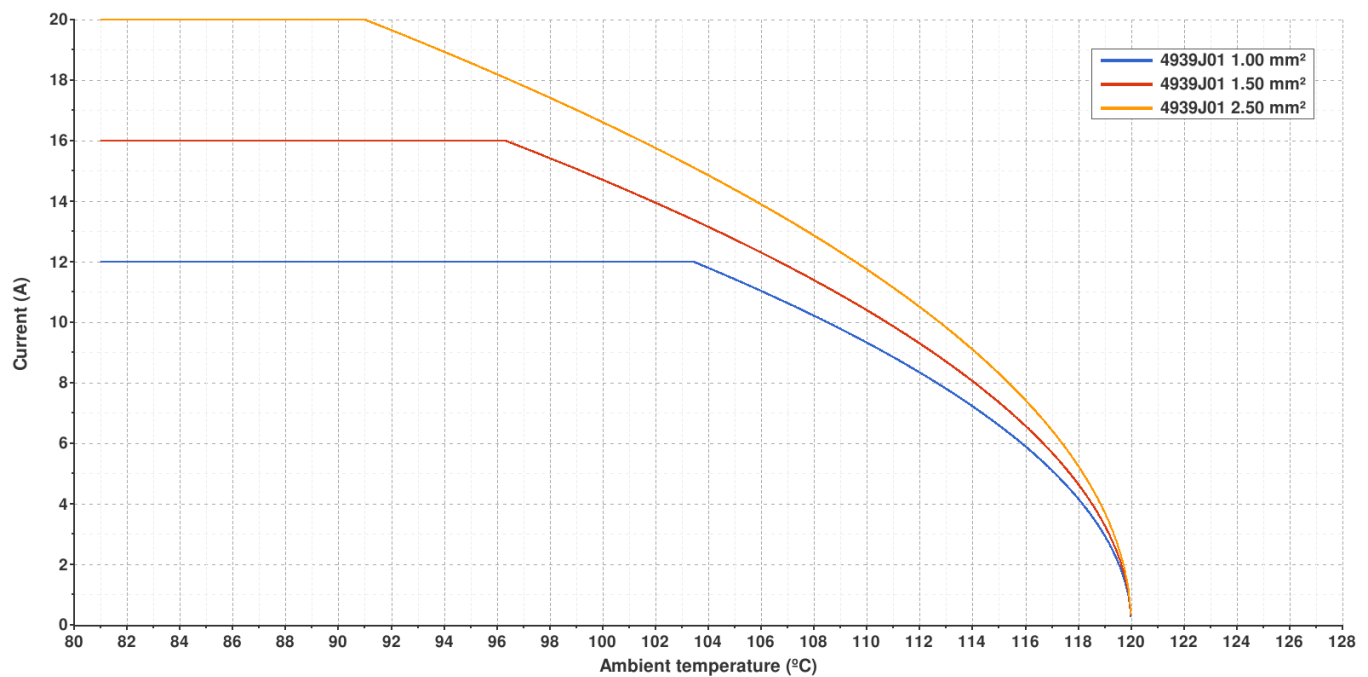
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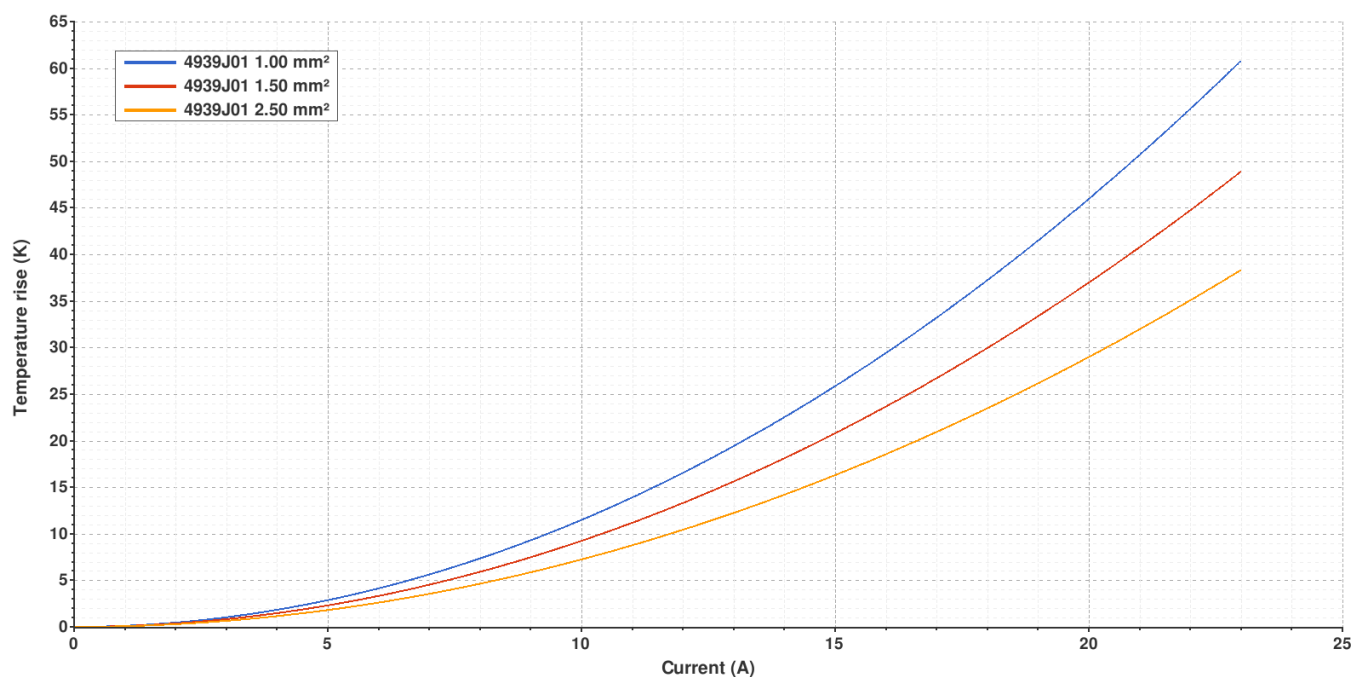
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



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4939J02 TIN PLATED BRASS

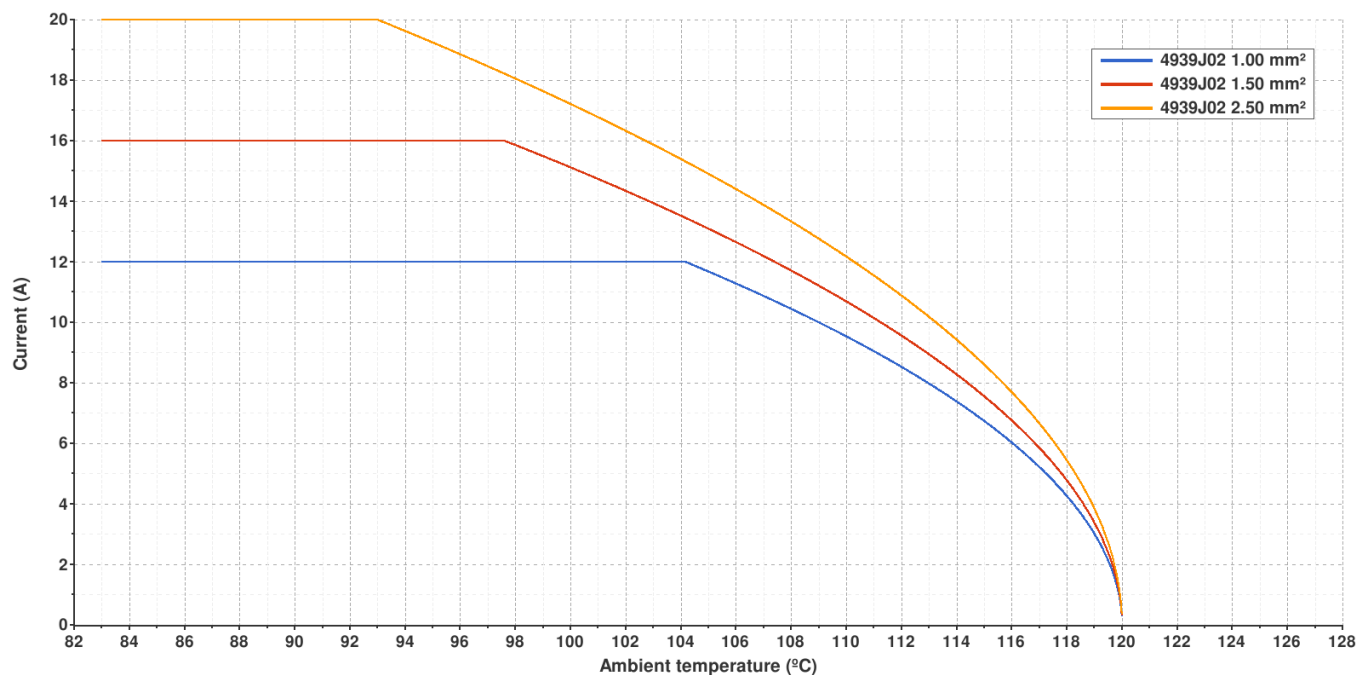
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SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.



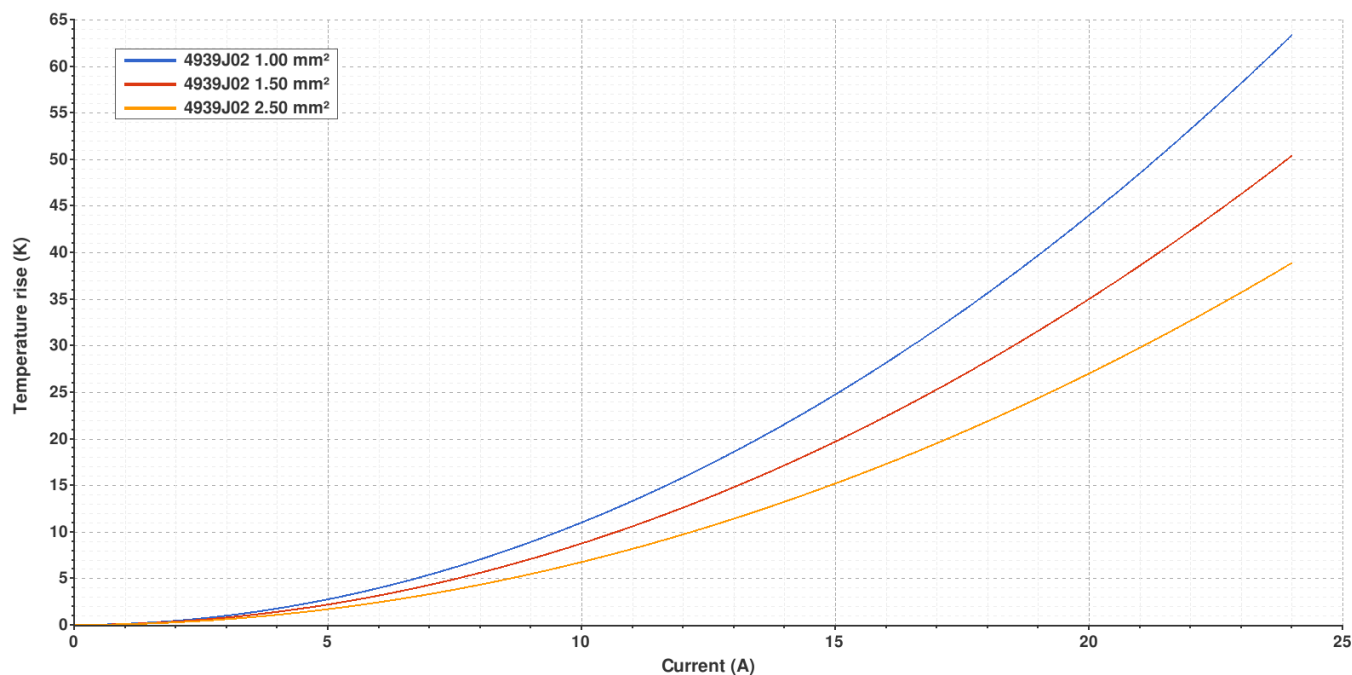
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab

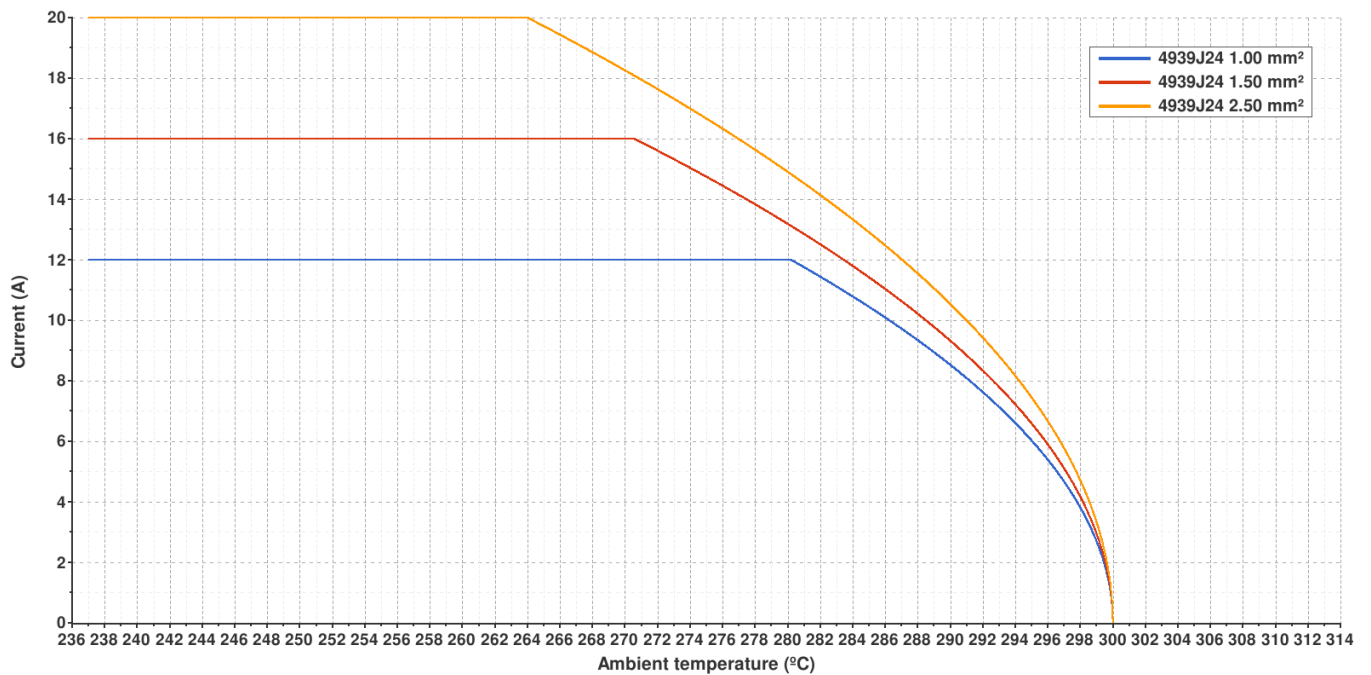
4939J24 NICKEL-PLATED STEEL

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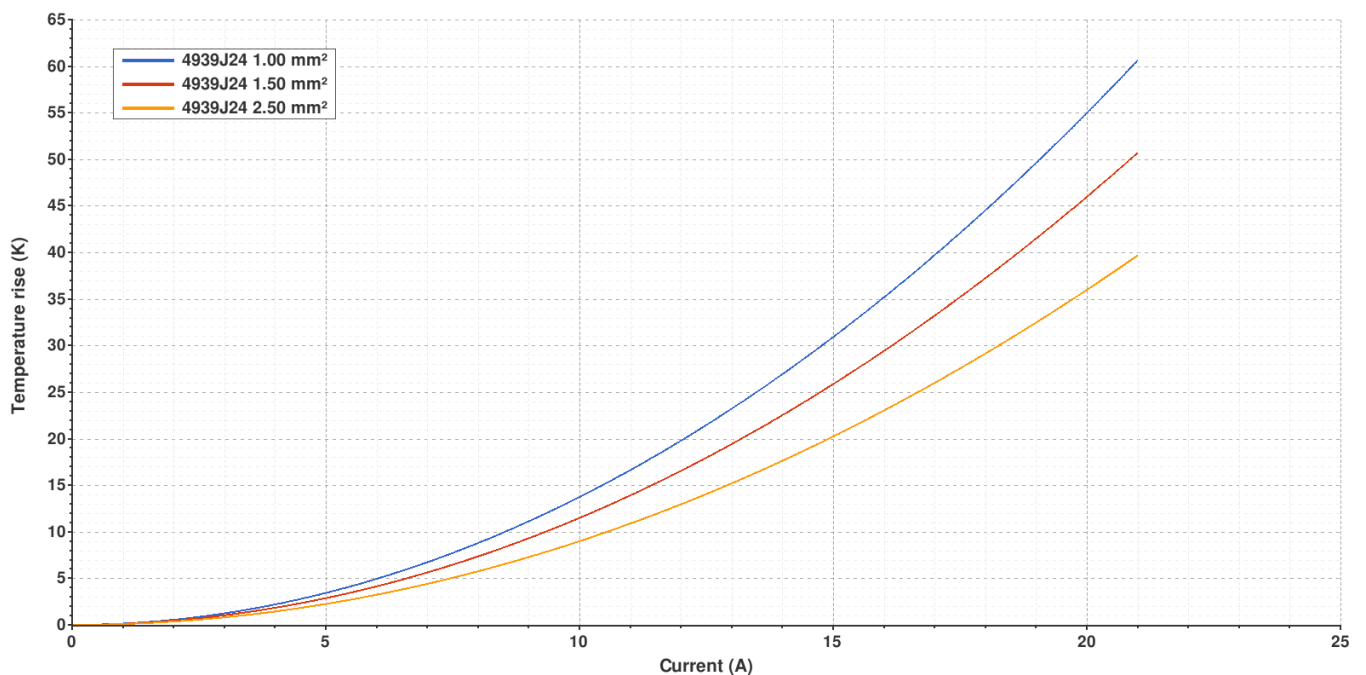
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



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Rev. Nr.	Concept	Date	Created/Revised	Approved
A5	Update contact resistance	2026-02-06	E. Roura (laboratory dept.)	E. Turon (engineering dept.)
A4	update datasheet	2025-10-01	D. Yabar (Engineering Dept.)	E. Roura (Laboratory Dept.)
A3	Update 1st Withdrawal value to 25N	2025-06-13	D. Yabar (Engineering Dept.)	E. Turon (Engineering Dept.)
A2	Update 'Approved regulations'	2025-04-29	E. Roura (laboratory dept.)	E. Turon (engineering dept.)
A1	Datasheet generated automatically [A1]	2025-02-25	D. Yabar (Engineering Dept.)	Engineering Dept.