4937J**

6.3 (.250) TYPE SERIES · RECEPTACLES

SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.

TP SEK3

Specification Self-locking terminals under TP design

Typology Extra low insertion

For male (mm) 6,3x0,8

Wire size mm² (AWG) 0,5-1,5 (20-16)

Ø Insulation (mm) 2,1-3,3

Materials, temperature and contact resistance

Part nr.	Material	Finishing	Max. Temp. (ºC)	Contact Resist (mΩ)
4937J00	Brass	Natural	110	1.00
4937J01	Brass	Pre-tin-plated	120	0.75
4937J02	Brass	Tin plated	120	0.75
4937J24	Steel	Nickel-plated	300	2.50

Material thickness (mm) 0,4

Max. rated current

Wire section	4937J00 / 01 / 02 / 24
0.50 mm²	8A
0.75 mm²	10A
1.00 mm²	12A
1.50 mm²	16A

Compatible connectors 26418**, RS5412**-K, RS5413**-K, RS5414**-K, RS5415**-K, 26417**, RS5416**-K

Insertion / Withdrawal forces

	4937J00 / 01 / 02 / 24
1st Insertion (max)	20N[1]
1st Withdrawal (min, locking enabled)	90N[1]
1st Withdrawal (max)	25N[1]

[1] Valid for Natural Brass Tab

Secutiry 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 MN4937

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)	
0.50 mm²	1.35 (±0.03)	2.57 (±0.03)	3.47 (±0.10)	56N @ 60s
0.75 mm²	1.45 (±0.05)	2.58 (±0.05)	3.48 (±0.10)	84N @ 60s
1.00 mm²	1.55 (±0.05)	2.59 (±0.05)	3.50 (±0.10)	108N @ 60s
1.50 mm²	1.70 (±0.05)	2.60 (±0.05)	3.51 (±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.

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Winding number 6000

Approved regulations

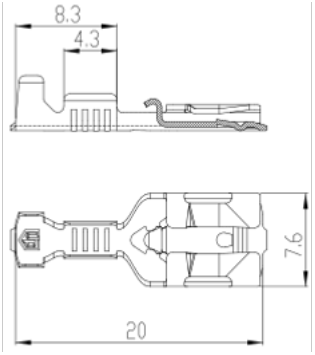
Part nr.	Approval	Standard	File	Certified framework
4937J00	UL	UL 310	E211727	AWG 20-16 (10-26 Stranded Cu) / MN4937
4937J01	UL	UL 310	E211727	AWG 20-16 (10-26 Stranded Cu) / MN4937
4937J02	UL	UL 310	E211727	AWG 20-16 (10-26 Stranded Cu) / MN4937
4937J24	UL	UL 310	E211727	AWG 20-16 (10-26 Stranded Cu) / MN4937

Approvals

RoHS

c UL us

Drawing



4937J00 NATURAL BRASS

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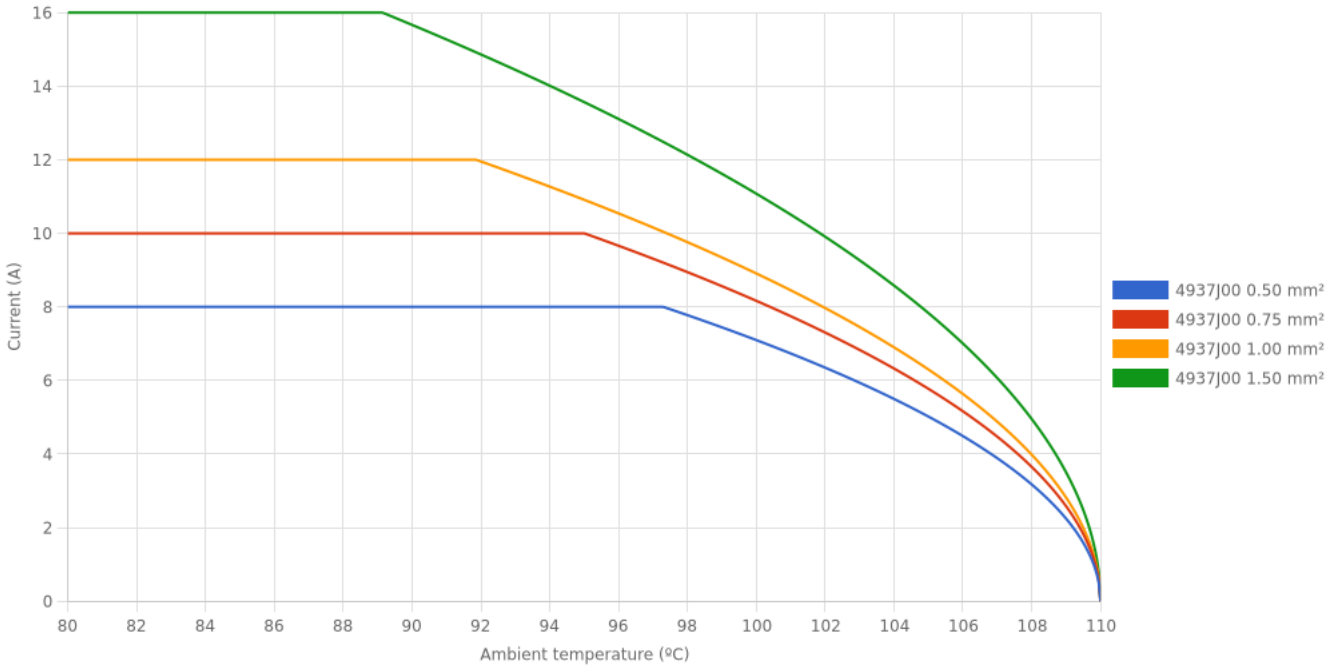
TP SEK3

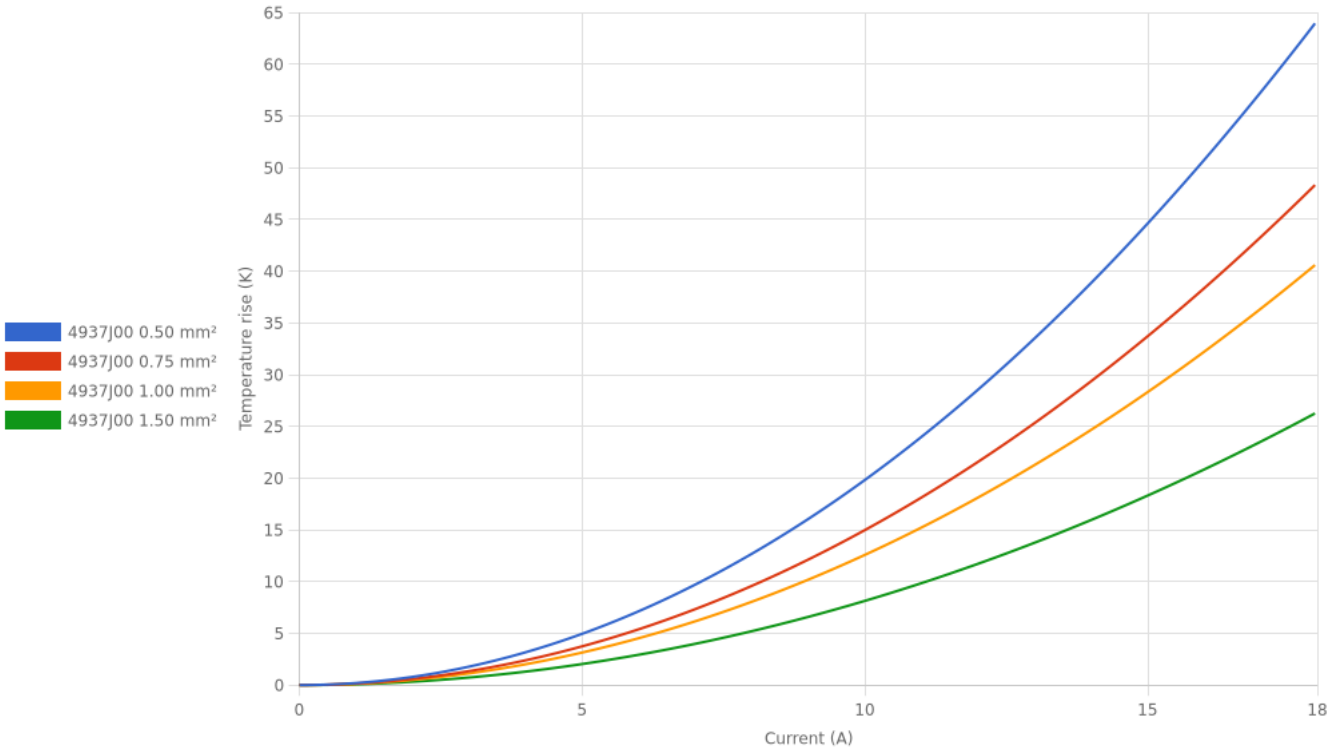
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab

4937J02 TIN PLATED BRASS

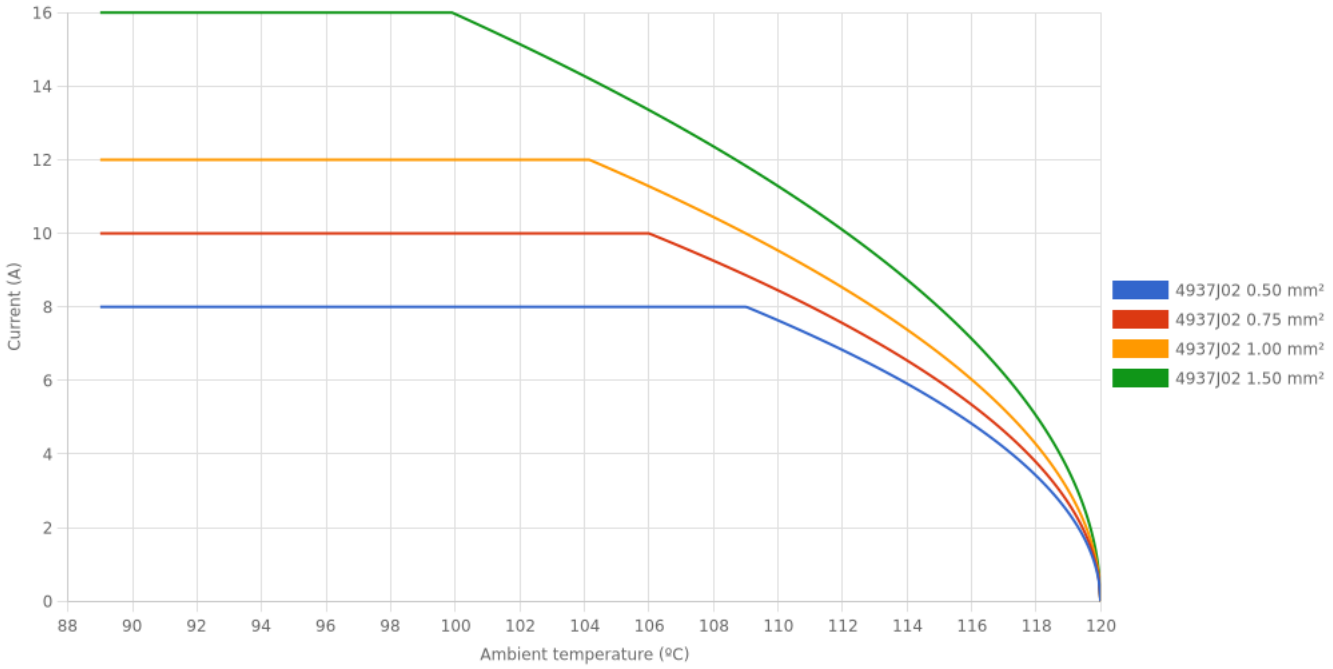
6.3 (.250) TYPE SERIES · RECEPTACLES

SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.

TP SEK3

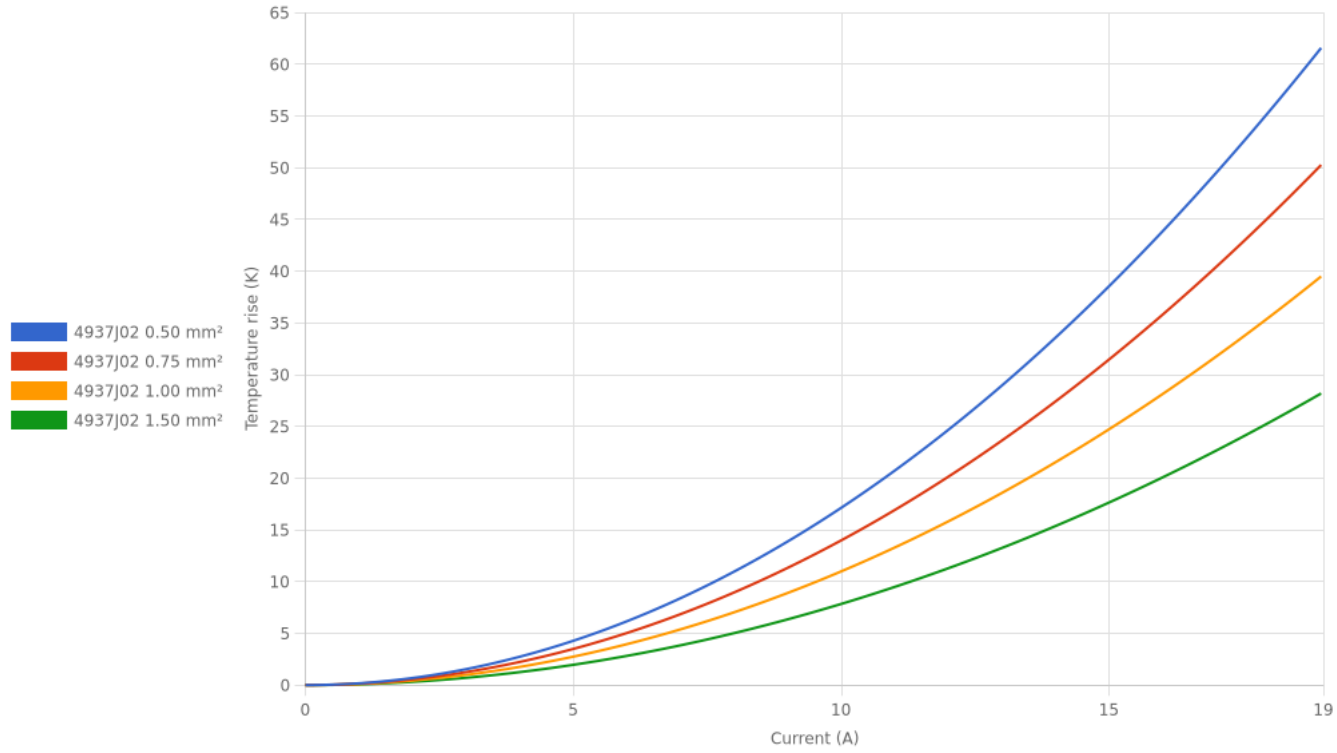
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab

4937J24 NICKEL-PLATED STEEL

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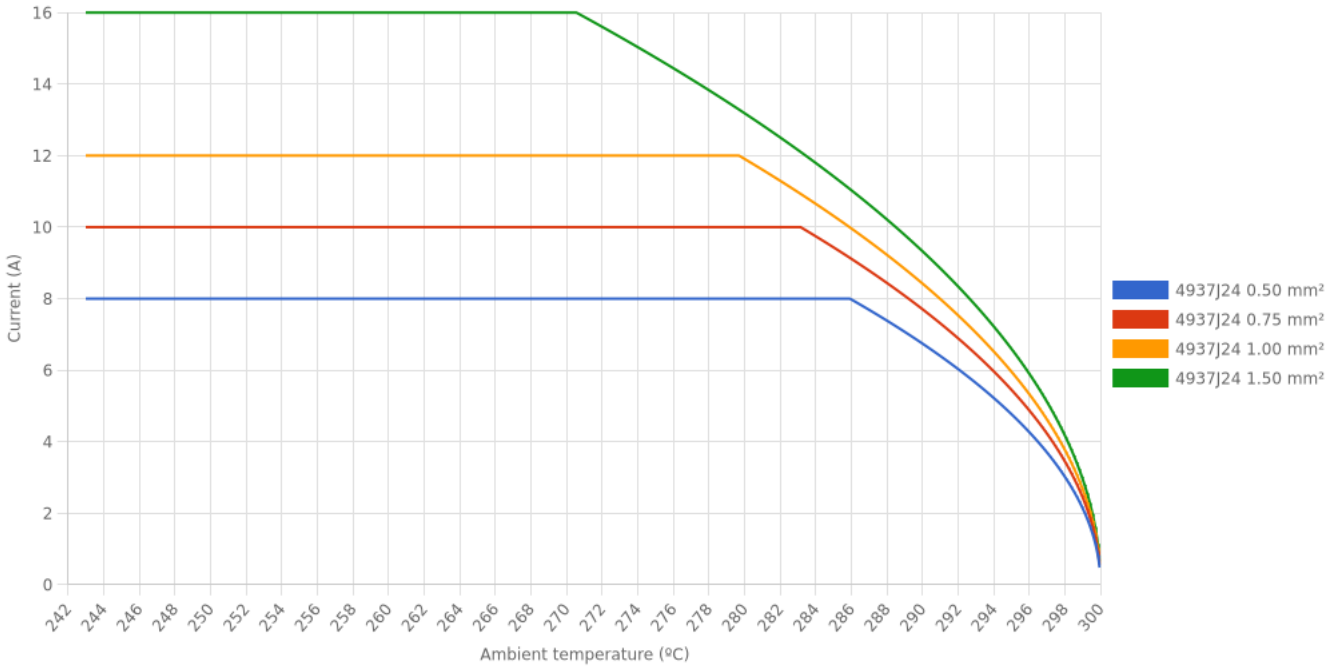
SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.

TP SEK3

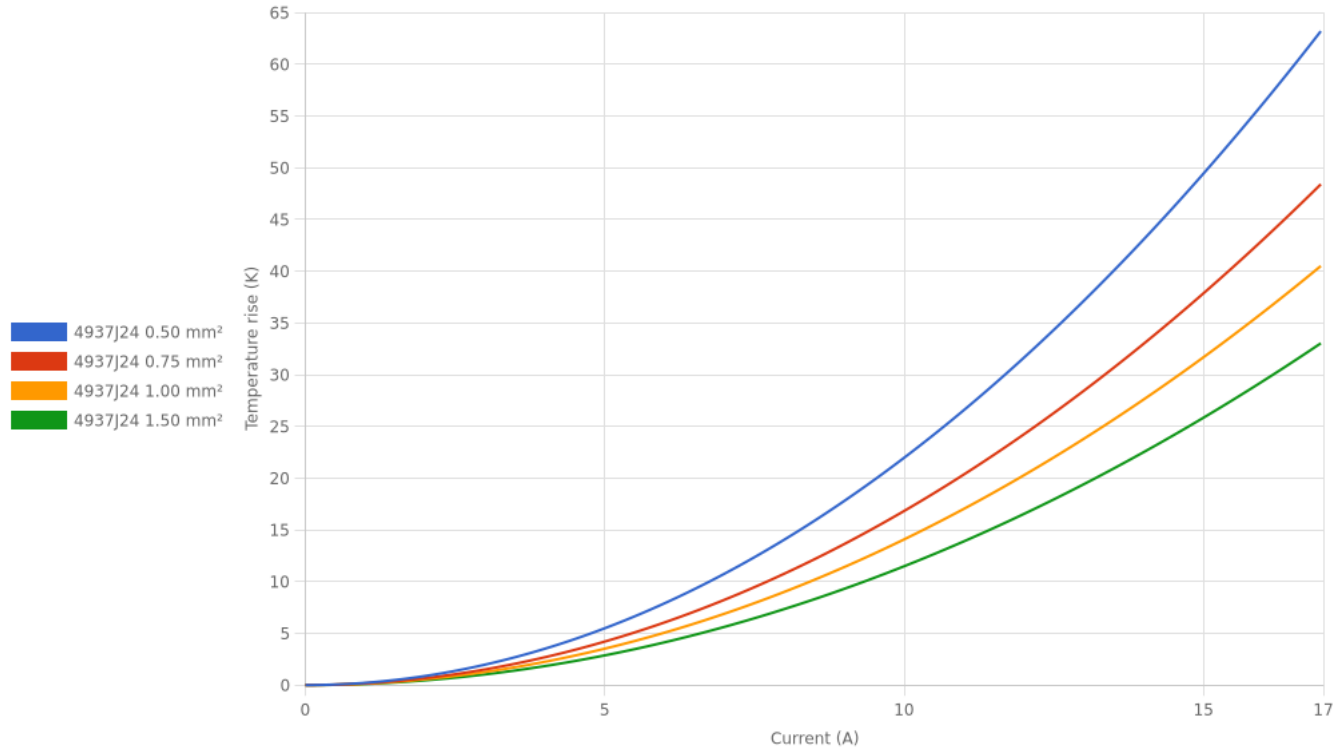
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



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Disclaimer

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Rev. Nr.	Concept	Date	Created/Revised	Approved
A6	Update compatible connector 26417**	2026-03-26	E. Roura (laboratory dept.)	O. Roura (engineering dept.)
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 gerenated automatically [A1]	2025-02-25	D. Yabar (Engineering Dept.)	Engineering Dept.

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