

## 4937J\*\*

### 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 mm<sup>2</sup> (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. (°C) | 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

**Insertion / Withdrawal forces**

|                                       | 4937J00 / 01 / 02 / 24 |
|---------------------------------------|------------------------|
| 1st Insertion (max)                   | 20N <sup>1</sup>       |
| 1st Withdrawal (max)                  | 25N <sup>1</sup>       |
| 1st Withdrawal (min, locking enabled) | 90N <sup>1</sup>       |

<sup>1</sup> 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** MN4937

**Wire strip length** 5.5 (±0.5) mm

**Crimping parameters & pull out force**

| Wire section<br>(±10%) | Conductor    |              | Insulator    | Pull-out force<br>(N) |
|------------------------|--------------|--------------|--------------|-----------------------|
|                        | Height (mm)  | Width (mm)   | Width (mm)   |                       |
| 0.50 mm <sup>2</sup>   | 1.35 (±0.03) | 2.57 (±0.03) | 3.47 (±0.10) | 56N @ 60s             |
| 0.75 mm <sup>2</sup>   | 1.45 (±0.05) | 2.58 (±0.05) | 3.48 (±0.10) | 84N @ 60s             |
| 1.00 mm <sup>2</sup>   | 1.55 (±0.05) | 2.59 (±0.05) | 3.50 (±0.10) | 108N @ 60s            |
| 1.50 mm <sup>2</sup>   | 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.

**Winding number** 6000

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

**Max. rated current**

| Wire section         | 4937J00 / 01 / 02 / 24 |
|----------------------|------------------------|
| 0.50 mm <sup>2</sup> | 8A                     |
| 0.75 mm <sup>2</sup> | 10A                    |
| 1.00 mm <sup>2</sup> | 12A                    |
| 1.50 mm <sup>2</sup> | 16A                    |

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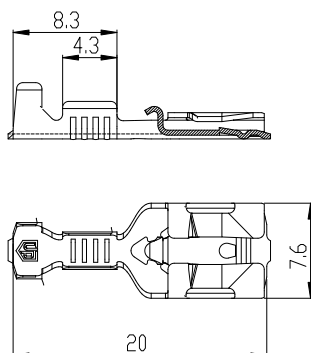
#### Approved regulations

| 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



#### Drawing



## 4937J00 NATURAL BRASS

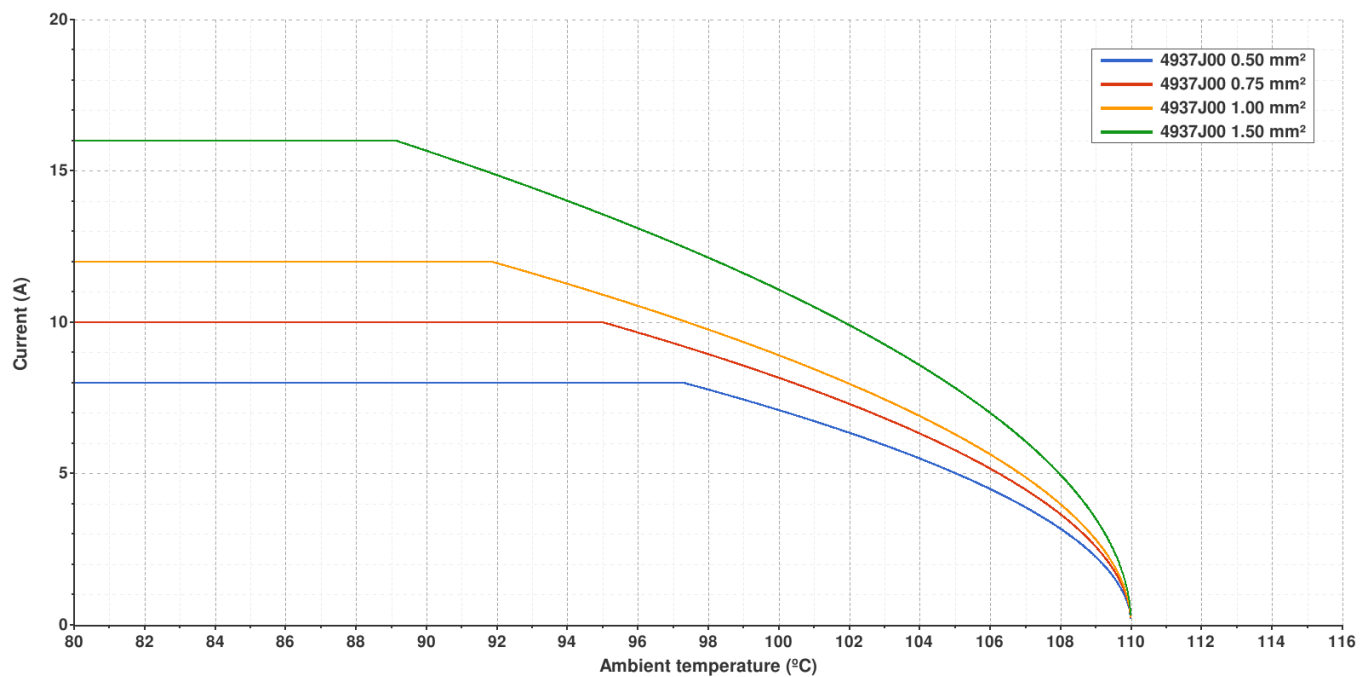
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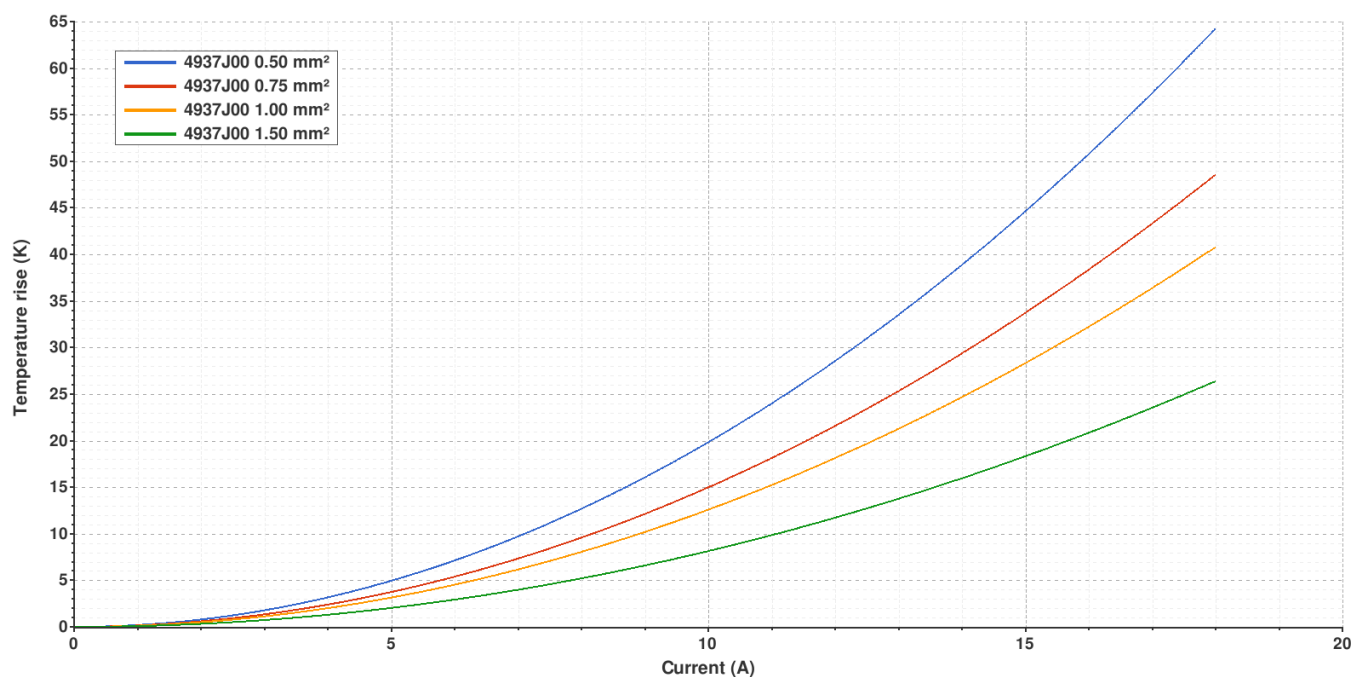
#### Derating curve

Current carrying capacity vs. Ambient temperature



#### Temperature rise curve

Terminal temperature rise due to the current carried



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## 4937J02 TIN PLATED BRASS

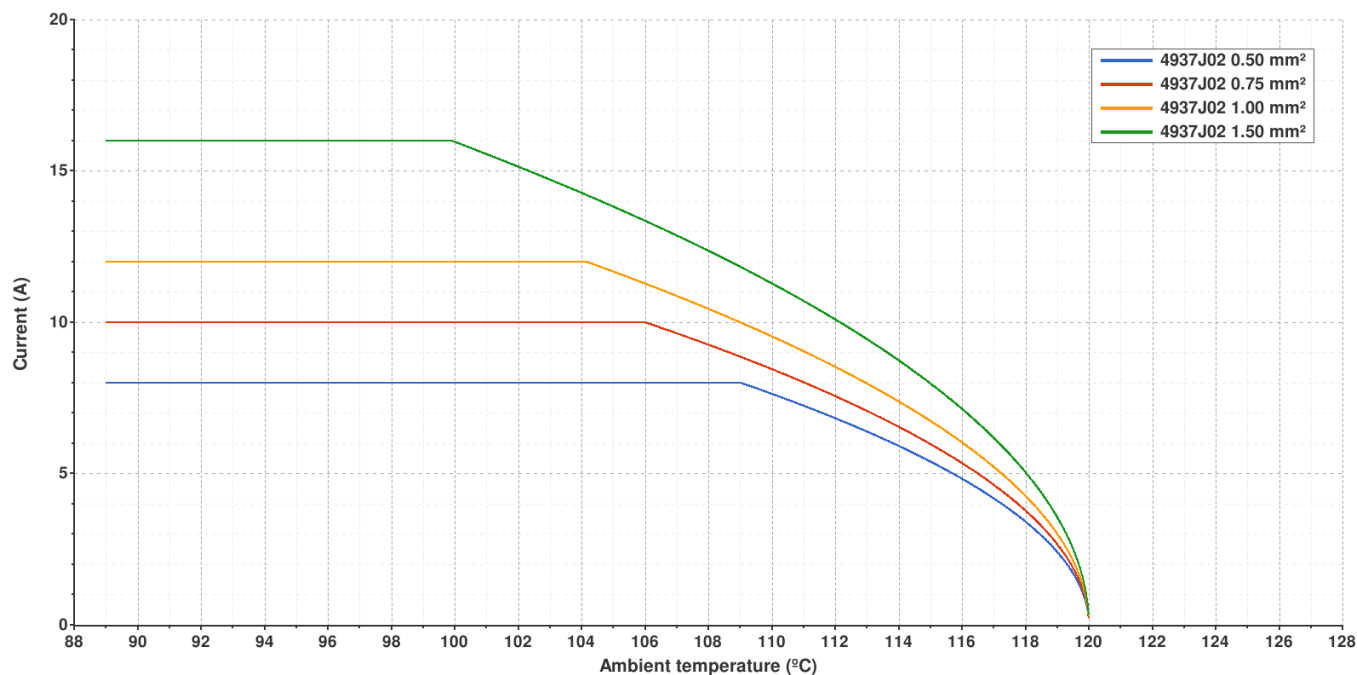
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SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.



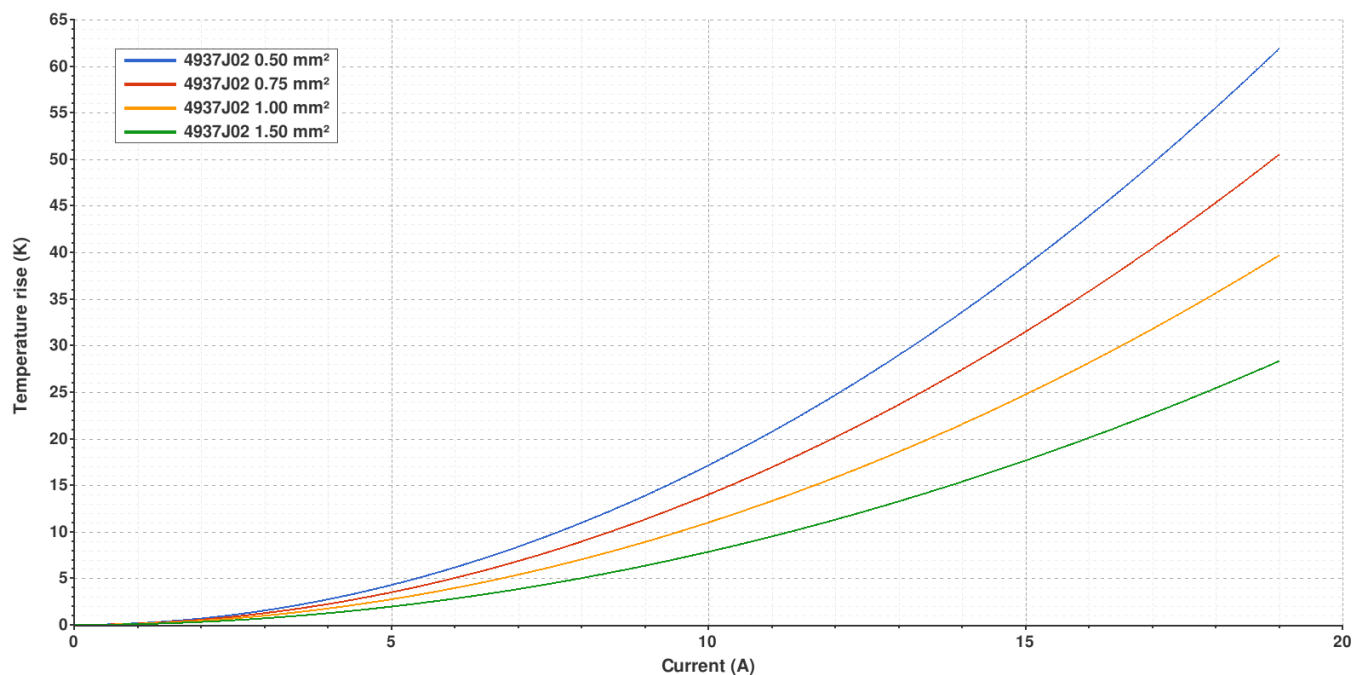
#### Derating curve

Current carrying capacity vs. Ambient temperature



#### Temperature rise curve

Terminal temperature rise due to the current carried



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## 4937J24 NICKEL-PLATED STEEL

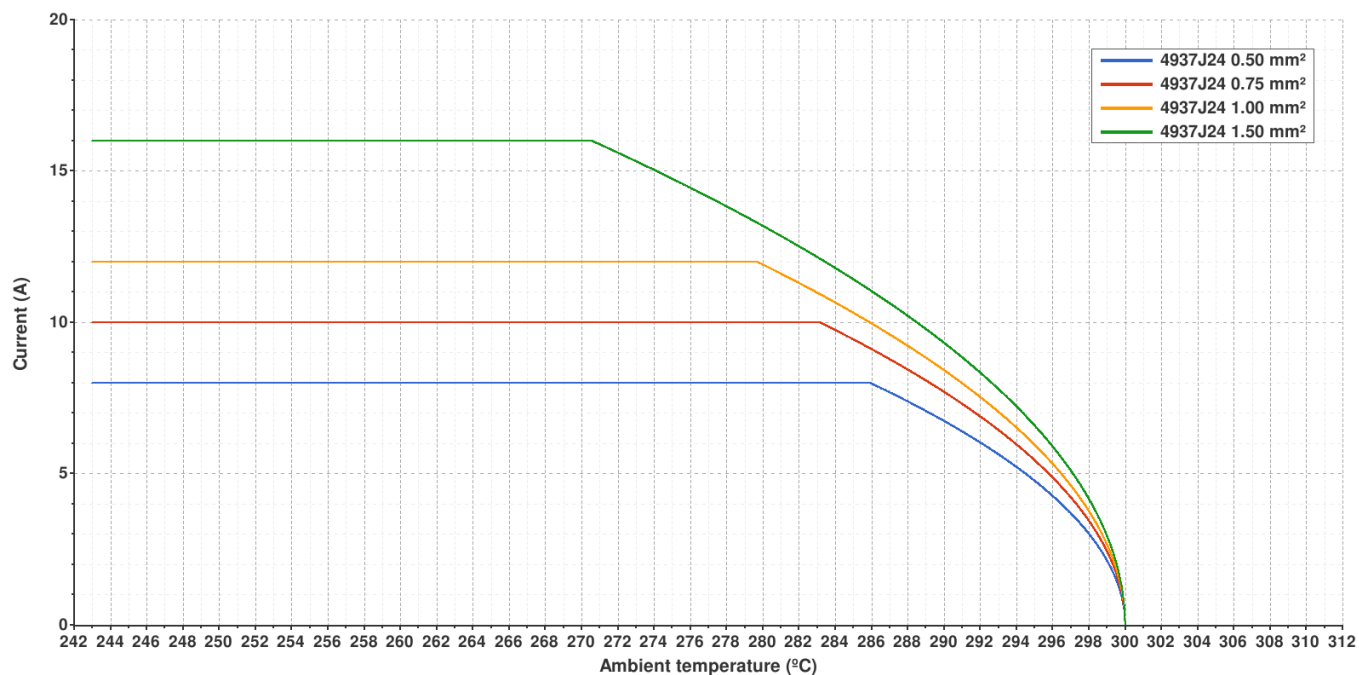
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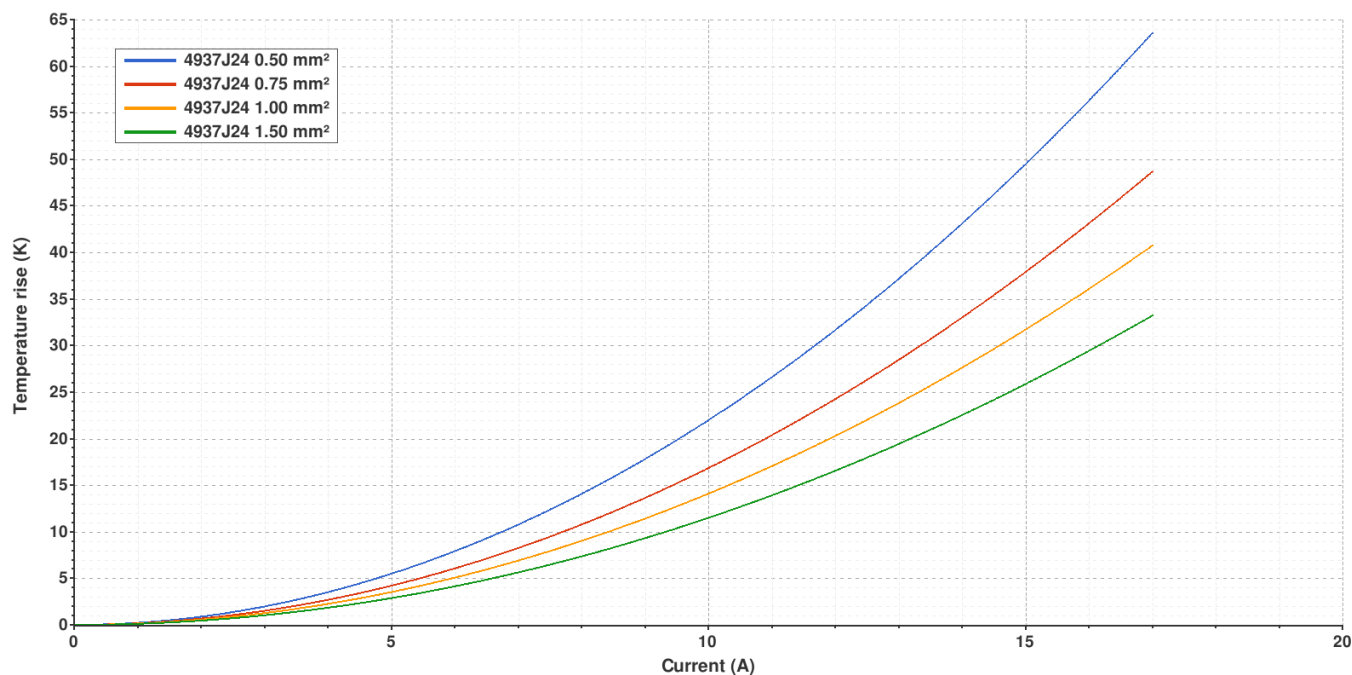
#### Derating curve

Current carrying capacity vs. Ambient temperature



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Terminal temperature rise due to the current carried



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**4937J\*\*****6.3 (.250) TYPE SERIES · RECEPTACLES****SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.****Disclaimer**

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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.            |