

4941.**

6.3 (.250) TYPE SERIES · RECEPTACLES

SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.



Specification Self-locking terminals under TP design

For male (mm) 6,3x0,8

Wire size mm² (AWG) 2,5-5 (14-10)

Ø Insulation (mm) 3,6-5

Materials, temperature and contact resistance

| Part nr. | Material | Finishing | Max. Temp. (°C) | Contact Resist (mΩ) |
|----------|----------|----------------|-----------------|---------------------|
| 4941.00 | Brass | Natural | 110 | 1.50 |
| 4941.01 | Brass | Pre-tin-plated | 120 | 0.75 |
| 4941.30 | Bronze | Natural | 120 | 1.25 |
| 4941.31 | Bronze | Pre-tin-plated | 130 | 0.75 |
| 4941.24 | Steel | Nickel-plated | 300 | 2.50 |

Material thickness (mm) 0,4

Max. rated current

| Wire section | 4941.00 / 01 / 30 / 31 / 24 |
|-----------------------------|-----------------------------|
| 1.00 + 2.50 mm ² | 12A |
| 1.50 + 1.50 mm ² | 16A |
| 1.50 + 2.50 mm ² | 16A |
| 2.50 mm ² | 20A |
| 2.50 + 2.50 mm ² | 20A |

Insertion / Withdrawal forces

| | 4941.00 / 01 / 30 / 31 | 4941.24 |
|---------------------------------------|------------------------|------------------|
| 1st Insertion (max) | 25N ¹ | 35N ¹ |
| 1st Withdrawal (max) | 25N ¹ | 35N ¹ |
| 1st Withdrawal (min, locking enabled) | 90N ¹ | 90N 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 MN4941

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 + 2.50 mm ² | 2.15 (±0.05) | 3.66 (±0.05) | 5.50 (±0.10) | (108N @ 60s) + (230N @ 60s) |
| 1.50 + 1.50 mm ² | 2.05 (±0.05) | 3.66 (±0.05) | 5.50 (±0.10) | (150N @ 60s) + (150N @ 60s) |
| 1.50 + 2.50 mm ² | 2.30 (±0.05) | 3.67 (±0.05) | 5.50 (±0.10) | (150N @ 60s) + (230N @ 60s) |
| 2.50 mm ² | 1.95 (±0.05) | 3.68 (±0.05) | 5.50 (±0.10) | 230N @ 60s |
| 2.50 + 2.50 mm ² | 2.50 (±0.05) | 3.70 (±0.05) | 5.70 (±0.10) | (230N @ 60s) + (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

4941.**

6.3 (.250) TYPE SERIES · RECEPTACLES

SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.



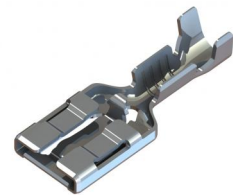
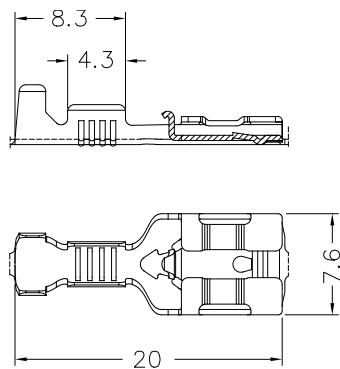
Approved regulations

| Part nr. | Approval | Standard | File | Certified framework |
|----------|----------|----------|---------|--|
| 4941.00 | UL | UL 310 | E211727 | AWG 14-14+16 (41-41+26 Stranded Cu) / MN4941 |
| 4941.01 | UL | UL 310 | E211727 | AWG 14-14+16 (41-41+26 Stranded Cu) / MN4941 |
| 4941.24 | UL | UL 310 | E211727 | AWG 14-14+16 (41-41+26 Stranded Cu) / MN4941 |

Approvals



Drawing

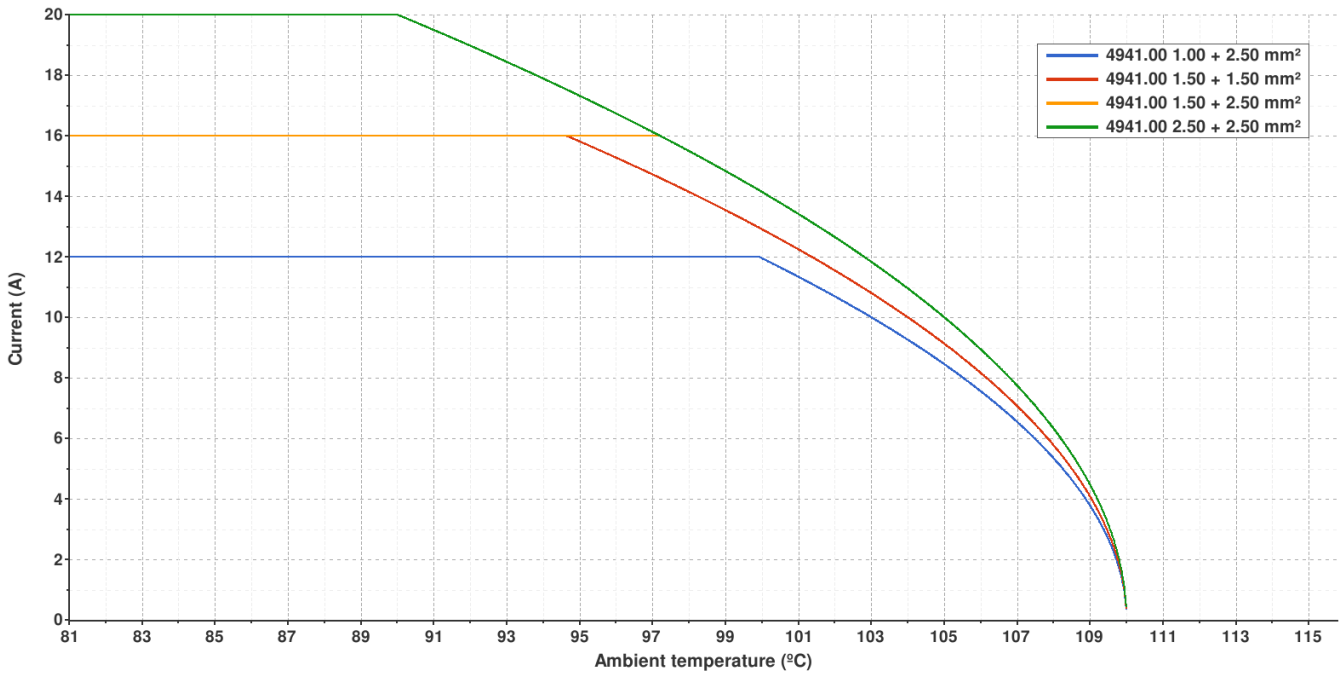


4941.00 NATURAL BRASS

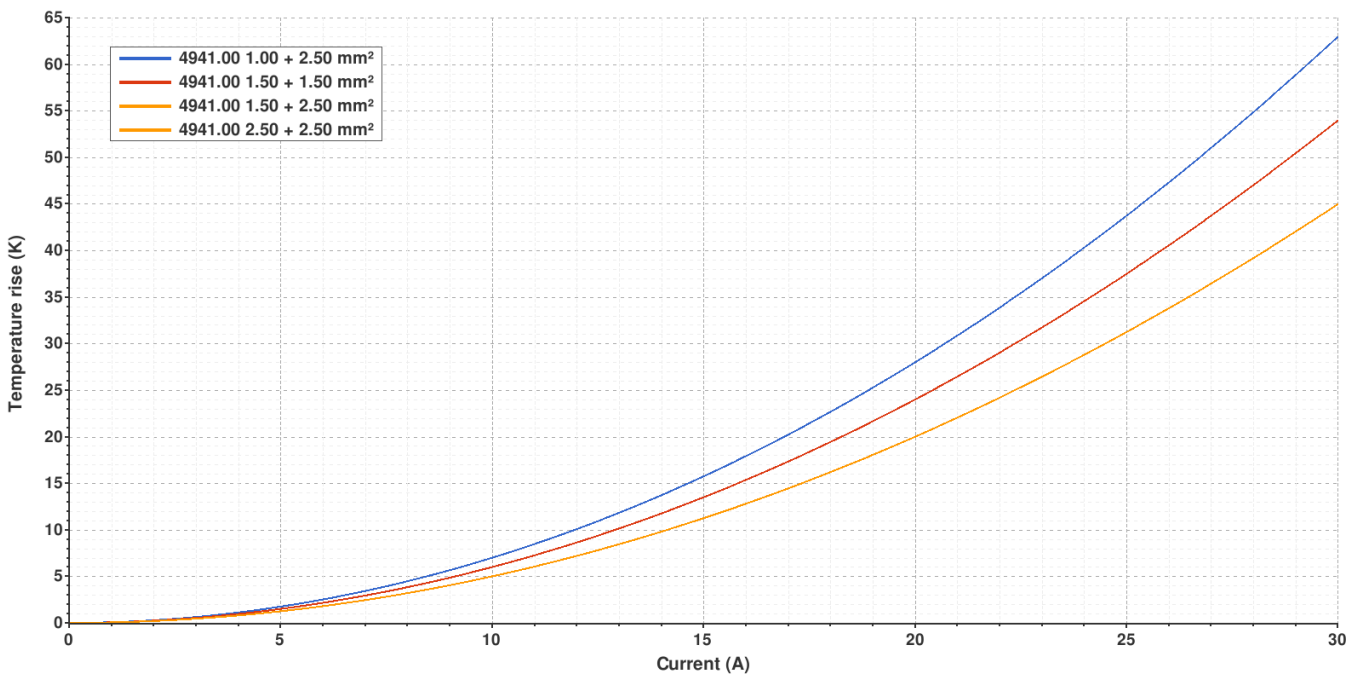


6.3 (.250) TYPE SERIES · RECEPTACLES
SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.

Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried



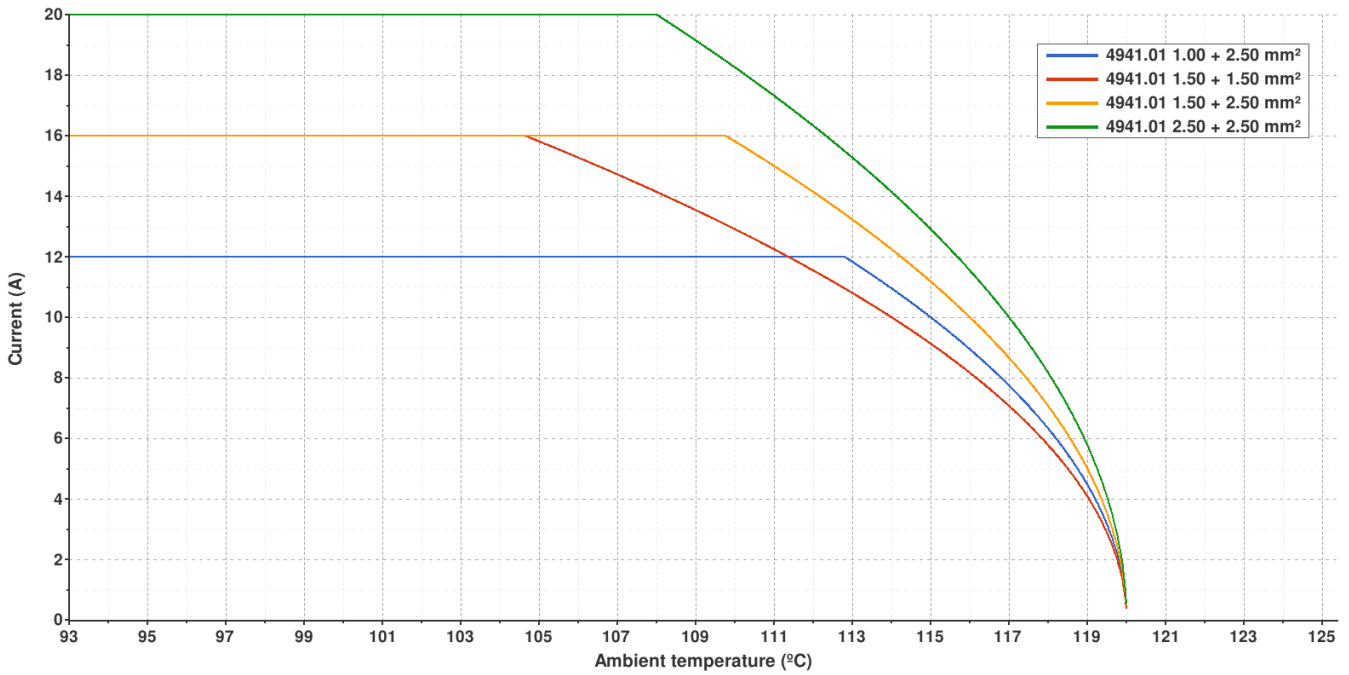
Valid for Natural Brass Tab

4941.01 PRE-TIN-PLATED BRASS

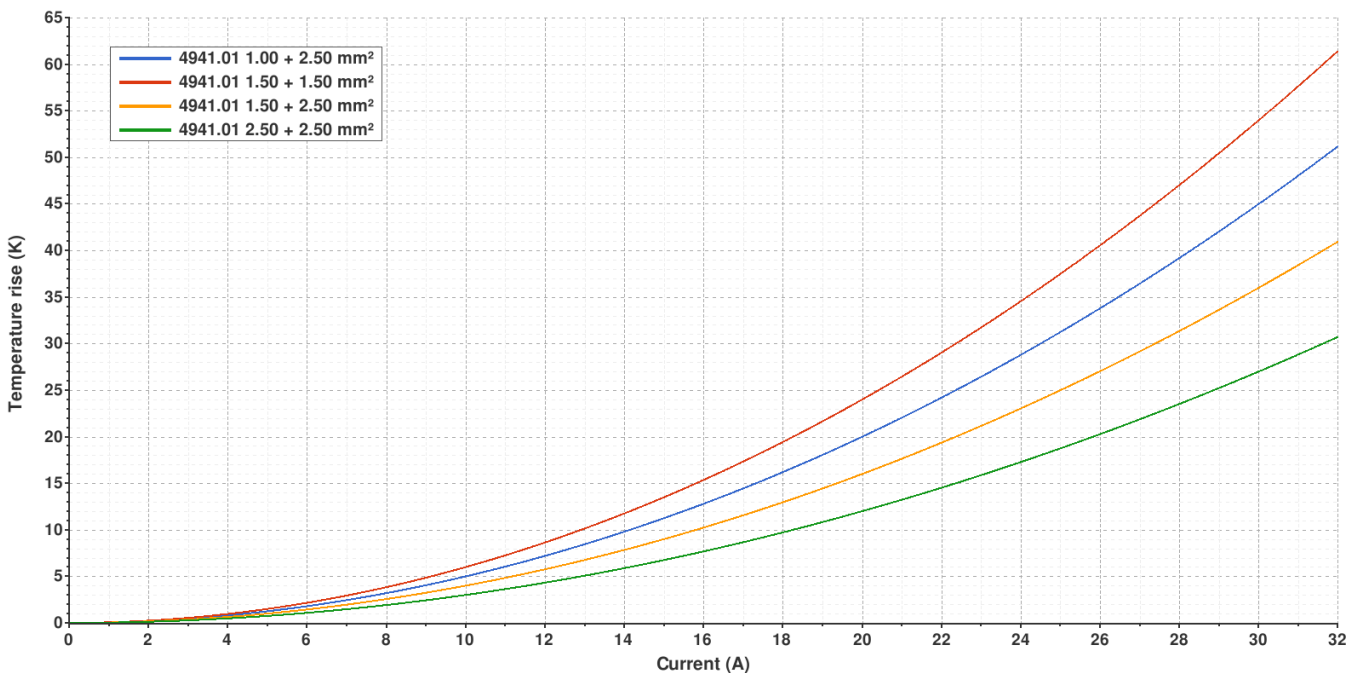


6.3 (.250) TYPE SERIES · RECEPTACLES
SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.

Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried



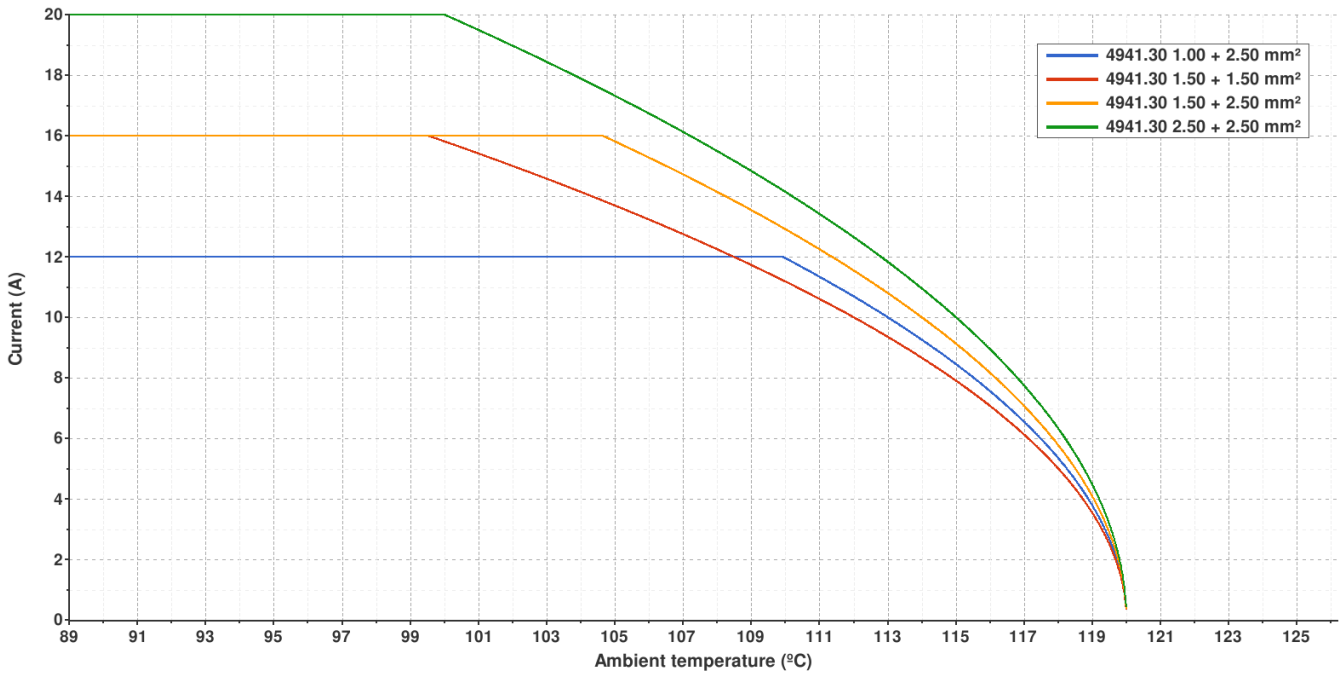
Valid for Natural Brass Tab

4941.30 NATURAL BRONZE

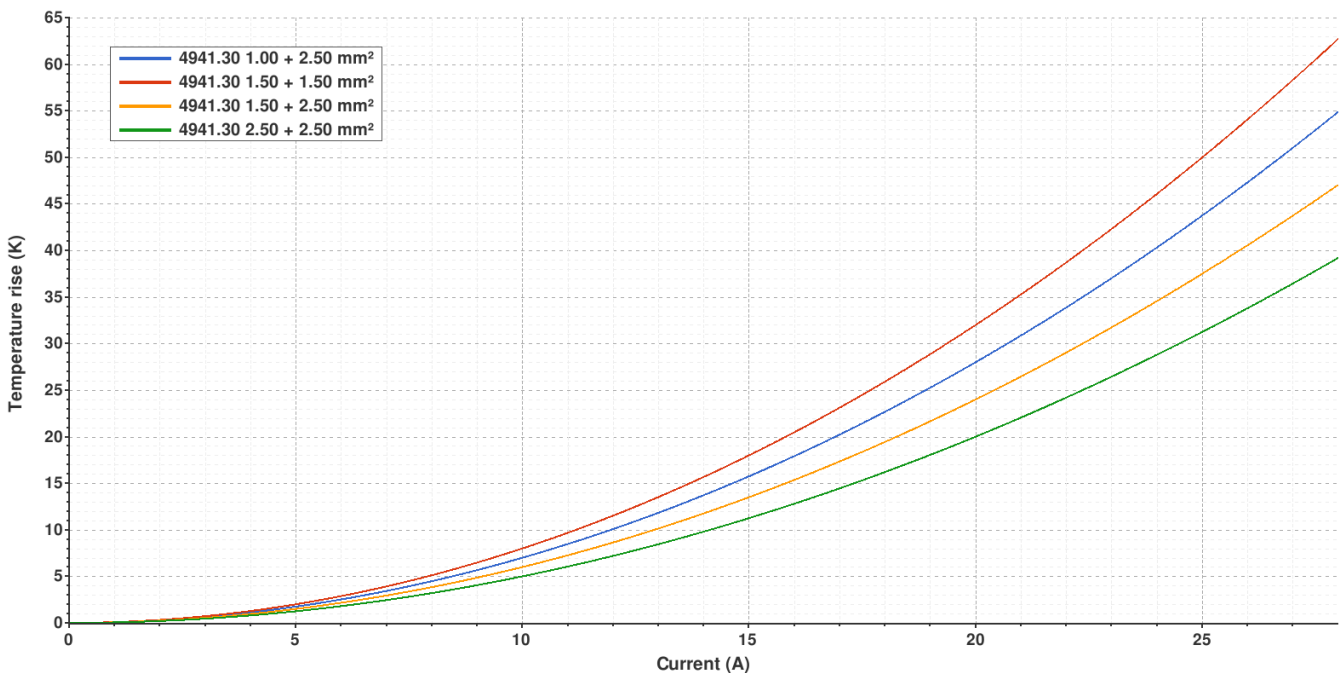


6.3 (.250) TYPE SERIES · RECEPTACLES
SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.

Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried



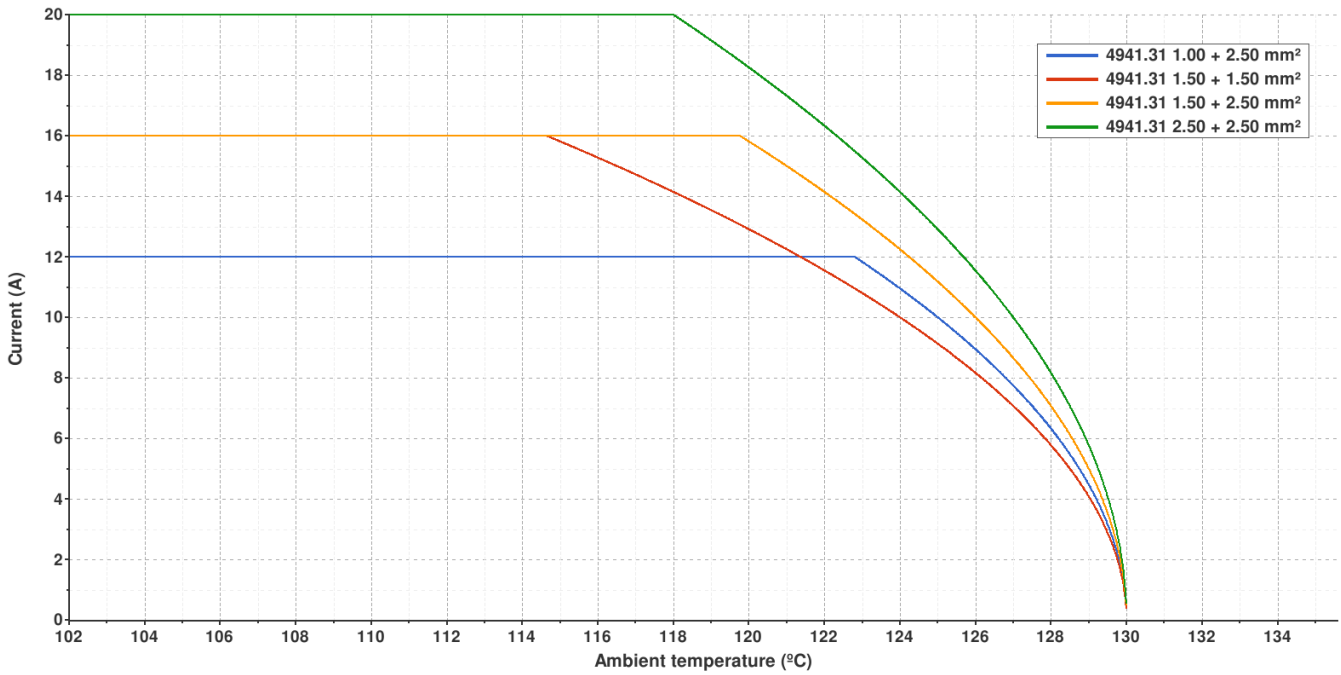
Valid for Natural Brass Tab

4941.31 PRE-TIN-PLATED BRONZE

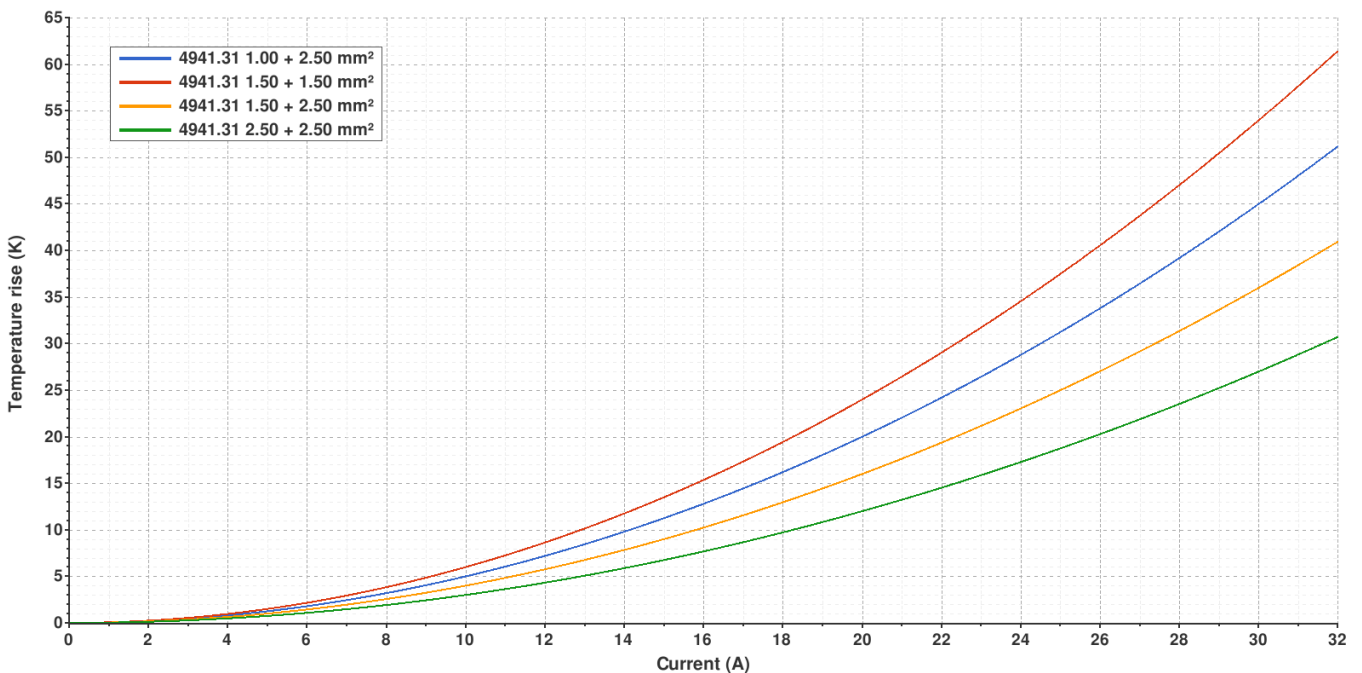


6.3 (.250) TYPE SERIES · RECEPTACLES
SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.

Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried



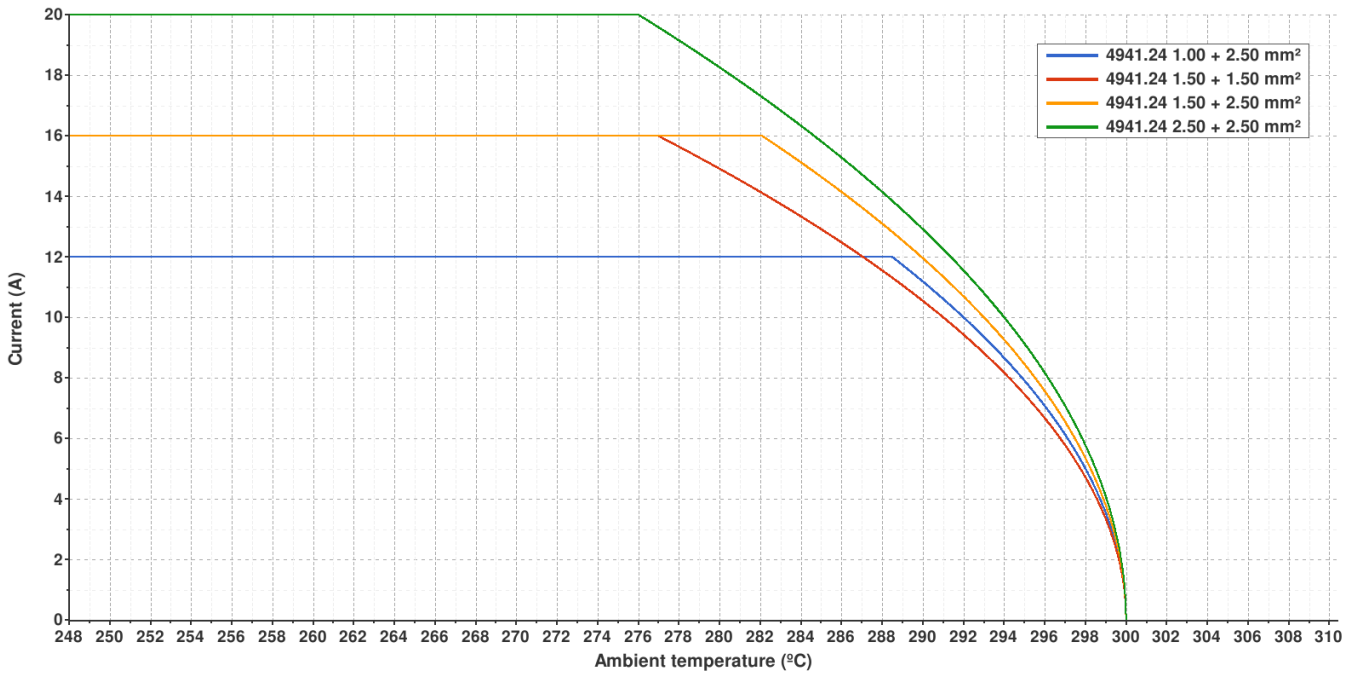
Valid for Natural Brass Tab

4941.24 NICKEL-PLATED STEEL

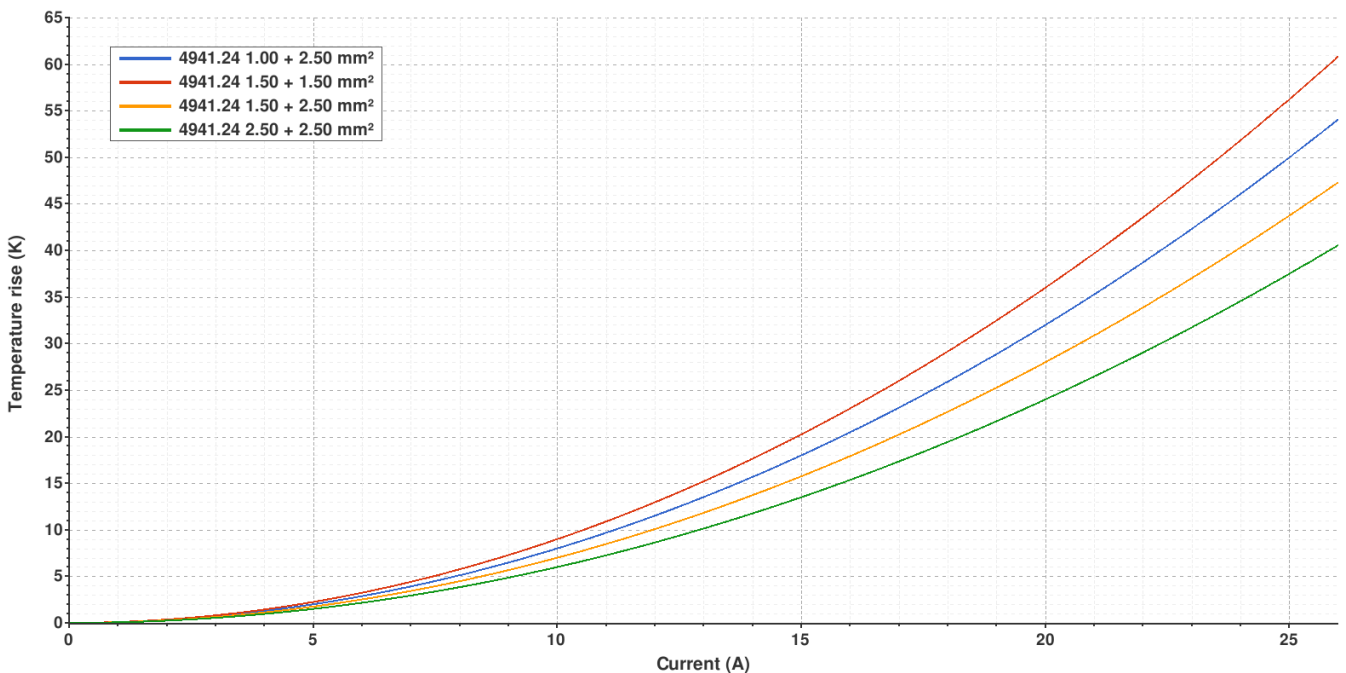


6.3 (.250) TYPE SERIES · RECEPTACLES
SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.

Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried



Valid for Natural Brass Tab

4941.****6.3 (.250) TYPE SERIES · RECEPTACLES****SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.****Disclaimer**

Data obtained from Escubedo Laboratory essays, using own methodology, cabling, equipment and original crimping tools, done in laboratory conditions and following the indicated standards, errors and omissions excepted. This document has no contractual meaning and it is publicised only for informative purposes. It can be changed without prior notice. The end customer has the sole responsibility to check these characteristics in its environment and with its own components, manufacturing methods and equipment. See also the full range product overview if available. For further information please visit our web site or contact us

| Rev. Nr. | Concept | Date | Created/Revised | Approved |
|----------|--|------------|------------------|----------|
| A2 | Change company name and logo | 2021-10-21 | Laboratory Dept. | E. Roura |
| A1 | Datasheet generated automatically [A1] | 2018-07-31 | Laboratory Dept. | E. Roura |

Escubedo Connection Systems, S.A.U. · Ctra. de Girona-Olot Km. 35,5 · 17843 Riudellots de la Creu · Girona · Spain
Tel.: 34 972 171 706 · Fax: +34 972 171 714 · info@escubedo.com · www.escubedo.com