4937.**

6.3 (.250) TYPE SERIES · RECEPTACLES

SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.

TP SEK3

Specification Self-locking terminals under TP design

For male (mm) 6,3x0,8

Wire size mm² (AWG) 0,5-1,5 (20-16)

Ø Insulation (mm) 2-3,3

Materials, temperature and contact resistance

Part nr.	Material	Finishing	Max. Temp. (ºC)	Contact Resist (mΩ)
4937.00	Brass	Natural	110	0.90
4937.01	Brass	Pre-tin-plated	120	0.70
4937.24	Steel	Nickel-plated	300	3.00
4937.30	Bronze	Natural	120	1.10
4937.31	Bronze	Pre-tin-plated	130	0.80

Material thickness (mm) 0,4

Max. rated current

Wire section	4937.00 / 01 / 24 / 30 / 31
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**

Insertion / Withdrawal forces

	4937.00 / 01 / 30 / 31	4937.24
1st Insertion (max)	25N¹	35N¹
1st Withdrawal (min, locking enabled)	90N¹	90N¹
1st Withdrawal (max)	25N¹	35N¹

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.

Winding number 6000

4937.**

6.3 (.250) TYPE SERIES · RECEPTACLES

SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.

TP SEK3

Approved regulations

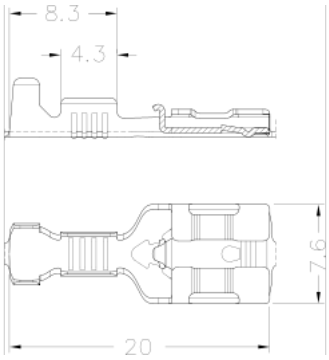
Part nr.	Approval	Standard	File	Certified framework
4937.00	UL	UL 310	E211727	AWG 20-16 (10-26 Stranded Cu) / MN4937
4937.01	UL	UL 310	E211727	AWG 20-16 (10-26 Stranded Cu) / MN4937
4937.24	UL	UL 310	E211727	AWG 20-16 (10-26 Stranded Cu) / MN4937

Approvals

RoHS

c UL us

Drawing



4937.00 NATURAL BRASS

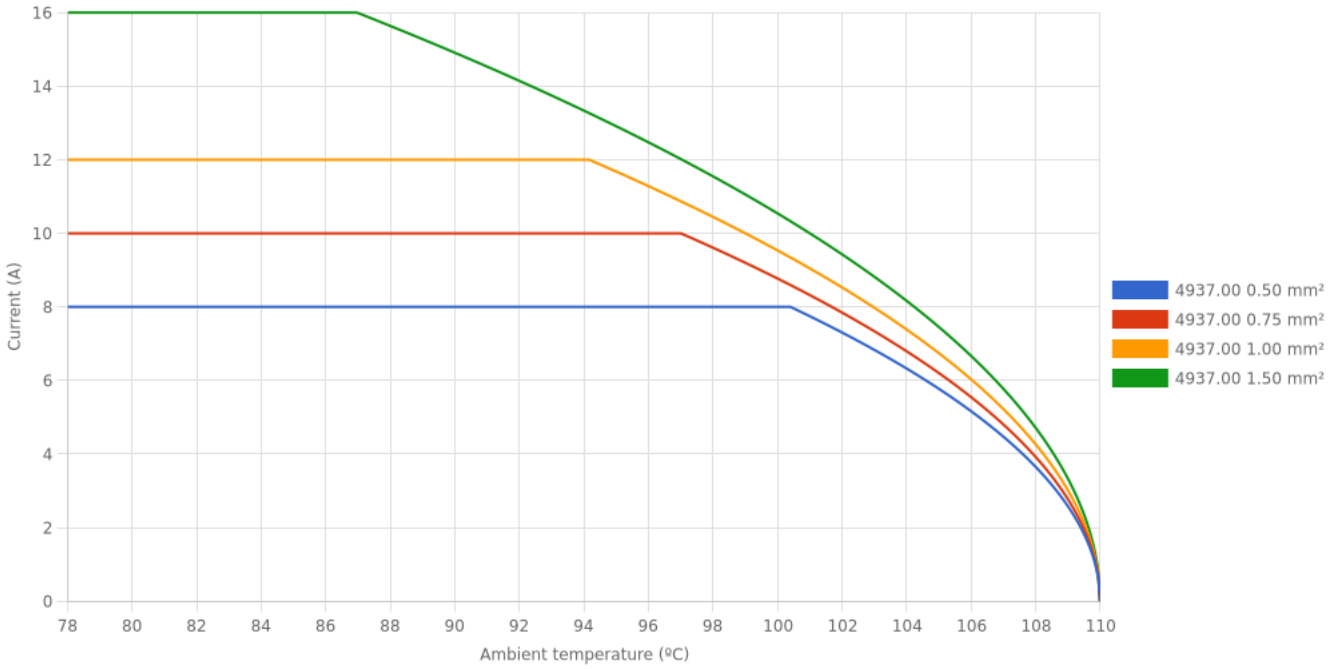
6.3 (.250) TYPE SERIES · RECEPTACLES

SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.

TP SEK3

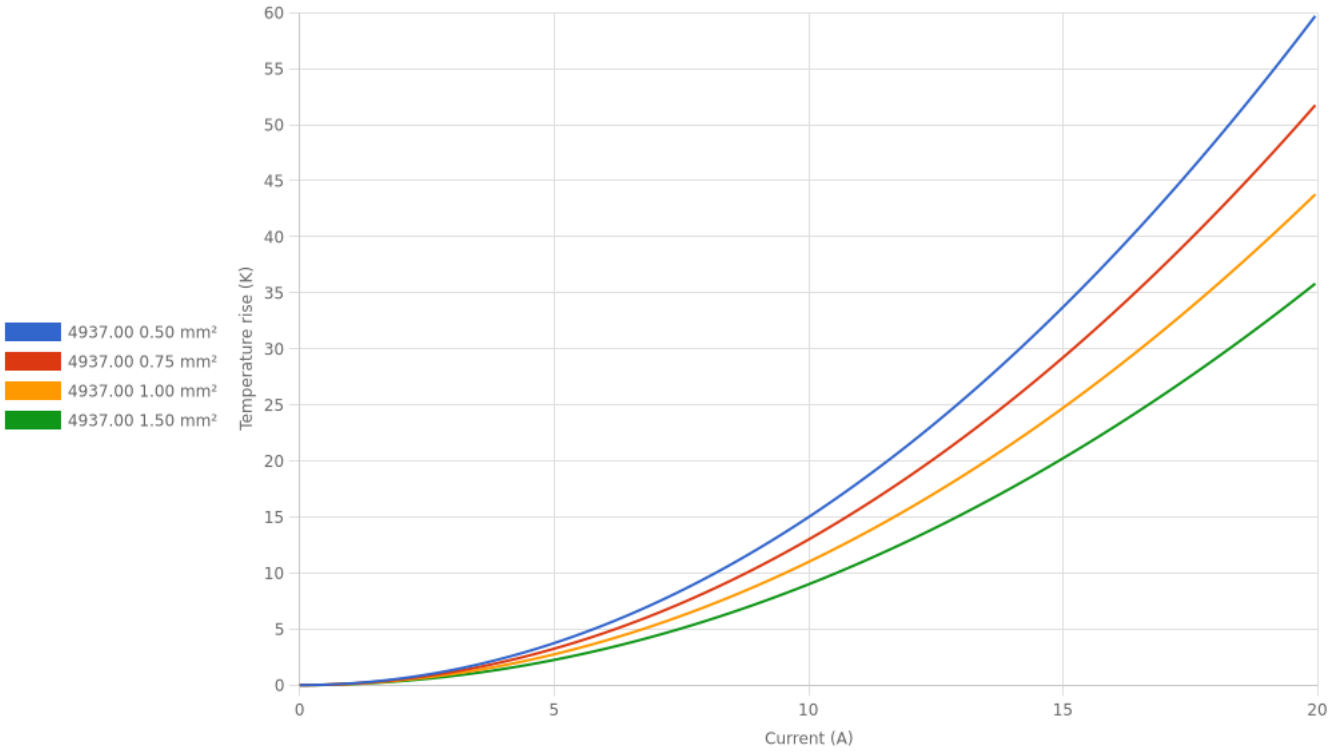
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab

4937.01 PRE-TIN-PLATED BRASS

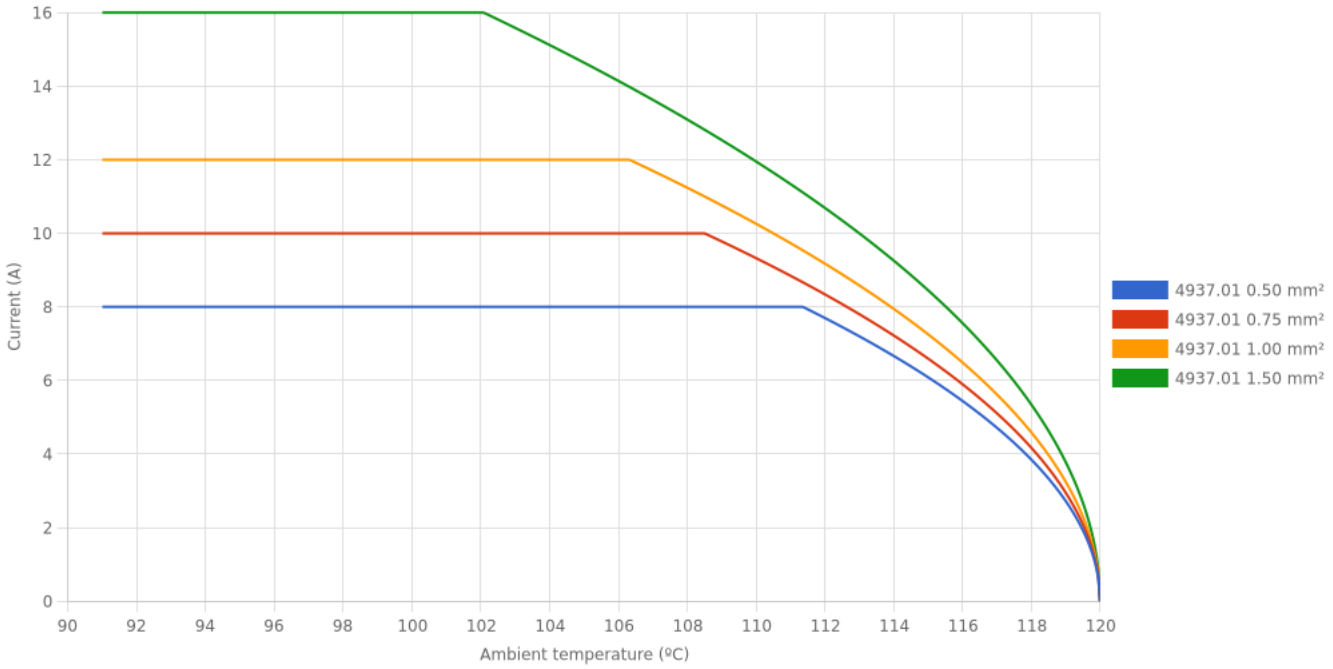
6.3 (.250) TYPE SERIES · RECEPTACLES

SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.

TP SEK3

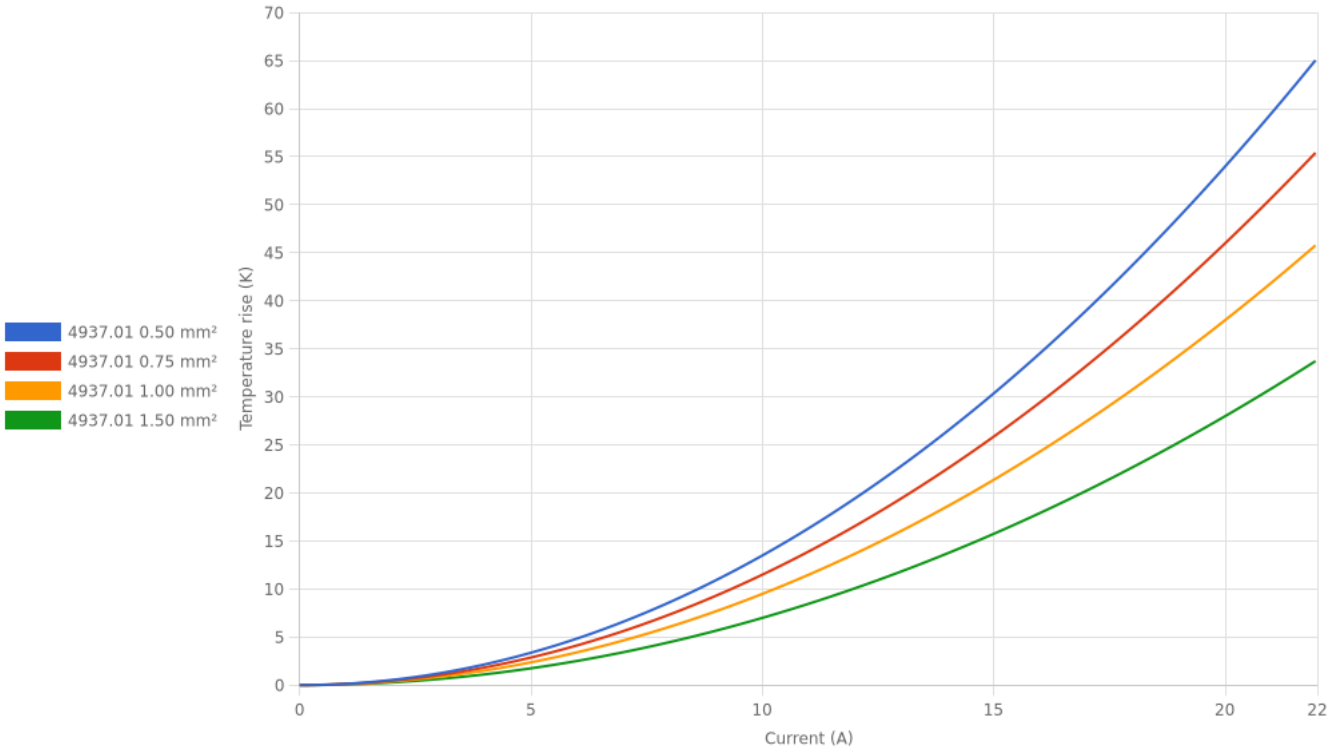
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab

4937.24 NICKEL-PLATED STEEL

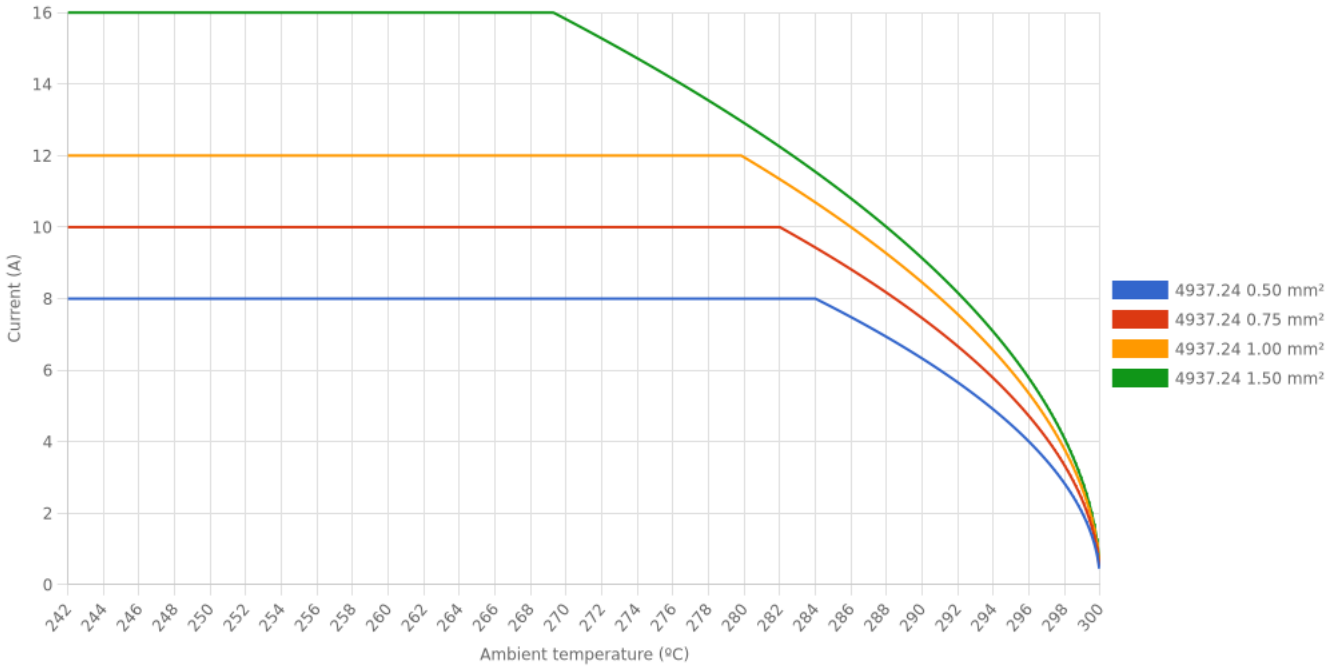
6.3 (.250) TYPE SERIES · RECEPTACLES

SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.

TP SEK3

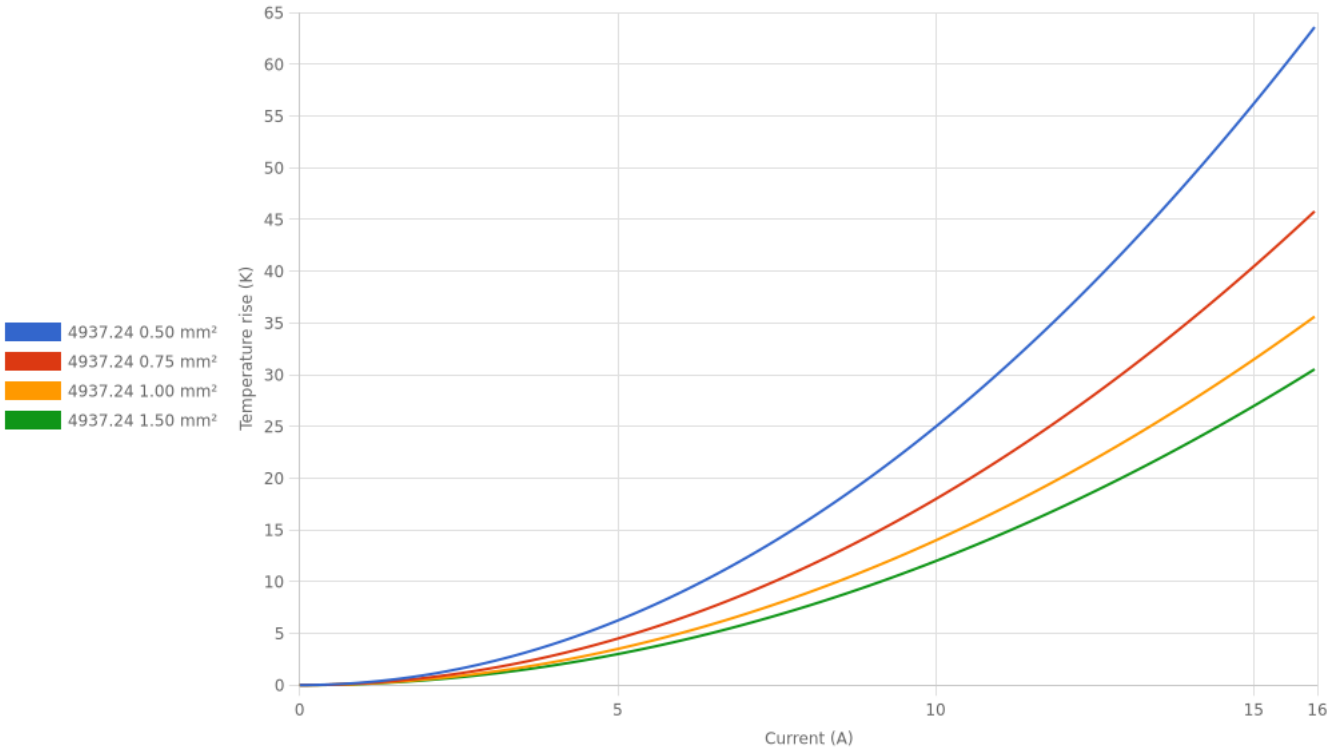
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab

4937.31 PRE-TIN-PLATED BRONZE

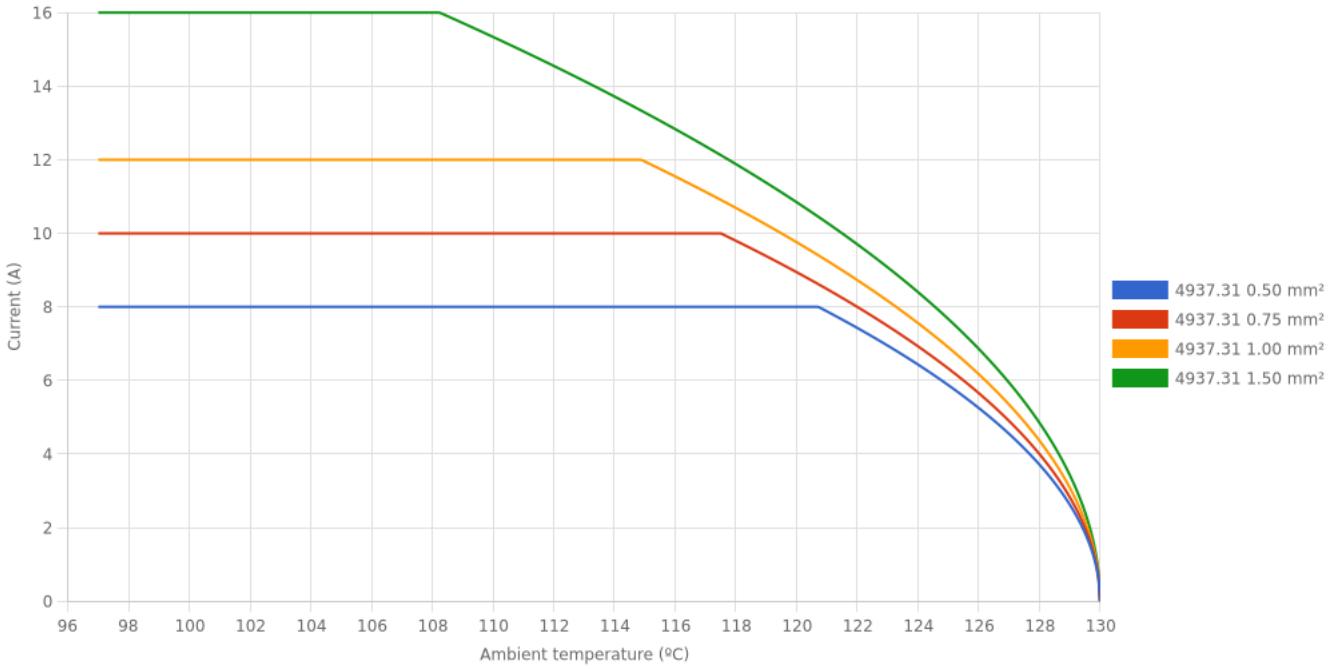
6.3 (.250) TYPE SERIES · RECEPTACLES

SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.

TP SEK3

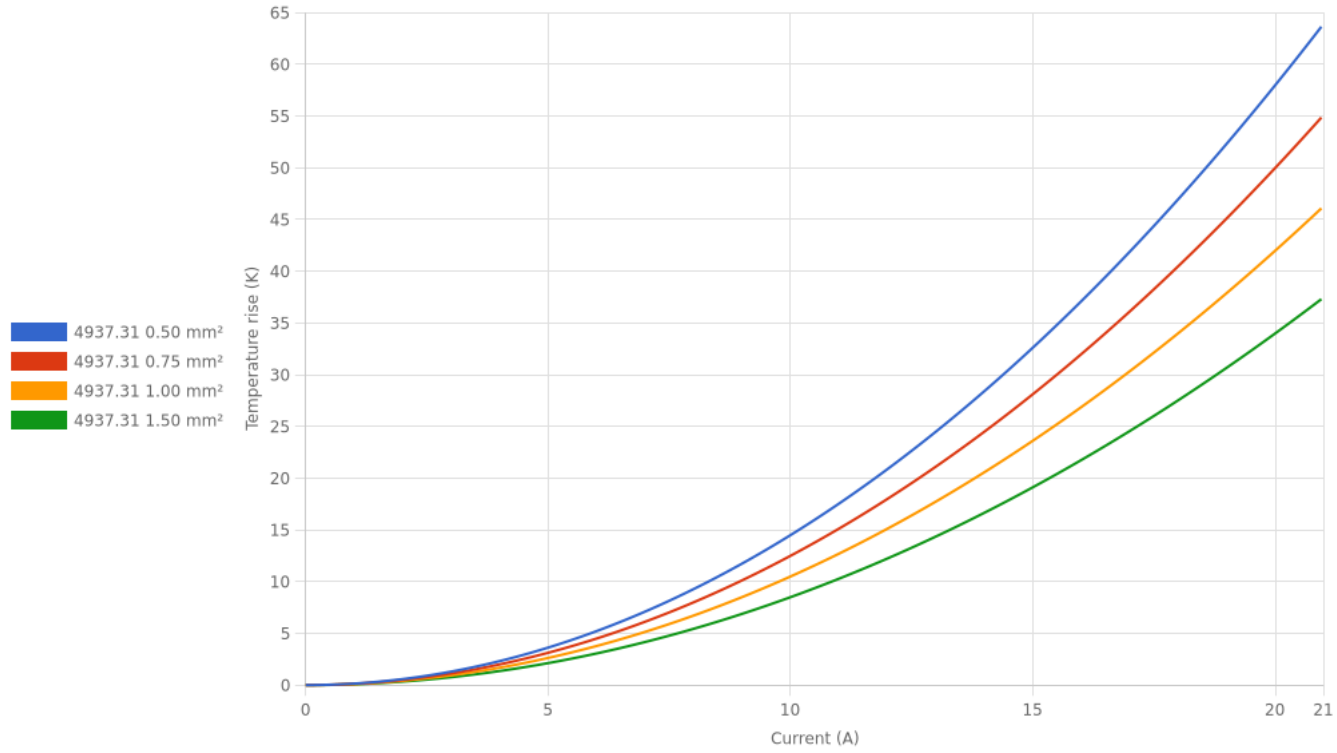
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



Valid for Natural Brass Tab

4937.**

6.3 (.250) TYPE SERIES · RECEPTACLES

SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.

TP SEK3

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