



Product Standard for YPT 9,50mm Contact System

Produktstandard für YPT 9,50mm Kontaktsystem



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1 Scope

1.1 Content

This specification covers the performance and tests for the **YAZAKI 9,50mm Contact System (YPT)**.

1.2 Qualification

To perform tests use following specified standards and specifications. All inspections shall be performed using the applicable Inspection Plan and Product Drawing.

If there are any differences between this document and the Product Drawing, the content of Product Drawing takes priority. In all other cases this document shall take priority.

2 Referenced Documents

2.1 YAZAKI Documents

- Product Drawings No: 7116-5625-02:R
7114-5623-02:R
- Design Objectives
- Handling Manual: YPES-15-969E

2.2 Other Documents

- SAE/USCAR-2 Performance Specification for Automotive Electrical Connector Systems, Rev. 4.0.
- SAE/USCAR-21 Performance Specification for Cable to Terminal Electrical Crimps, Rev. 1.

1 Anwendungsbereich

1.1 Inhalt

Diese Spezifikation behandelt die Leistung, Prüfungen und Qualitätsanforderungen für das YAZAKI 9,50mm Kontaktsystem (YPT).

1.2 Qualifikation

Um Prüfungen durchzuführen, sind die nachfolgend aufgeführten Standards und Spezifikationen zu benutzen. Alle Prüfungen sollen unter Anwendung des entsprechenden Prüfungsplans und der Produktzeichnung durchgeführt werden.

Falls Abweichungen zwischen diesem Dokument und der Produktzeichnung auftreten, hat die Produktzeichnung Vorrang. In allen anderen Fällen hat dieses Dokument Vorrang.

2 Referenzdokumente

2.1 YAZAKI Dokumente

- Produktzeichnungen Nr.: 7116-5625-02:R
7114-5623-02:R
- Zielsetzungen für Leistungsdaten
- Verarbeitungsspezifikation:
YPES-15-969E

2.2 Andere Dokumente

- SAE/USCAR-2 Performance Specification for Automotive Electrical Connector Systems, Rev. 4.0.
- SAE/USCAR-21 Performance Specification for Cable to Terminal Electrical Crimps, Rev. 1.

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3 Part Numbers

3 Teilenummern

△ 2 △ 1

[mm²]											
	Plating in Contact Area <i>Beschichtung im Kontaktbereich</i>	Marking <i>Kennzeichnung</i>	Product No. <i>Teil Nr.</i>	Terminal Version *) <i>Kontaktausführung *)</i>	Product No. <i>Teil Nr.</i>	Terminal Version *) <i>Kontaktausführung *)</i>	Capable for Cable Outside Diameter <i>Passend für Leitungs- außendurchmesser</i> [mm]				
							3,4-4,3	5,4-6,5	6,2-7,3	7,3-8,3	
4-6	Tin <i>Verzinnt</i>	S	7116-7473-02	Long <i>Lang</i>	7114-7474-02	Short <i>Kurz</i>	7172-5184	--	--	--	
	Silver <i>Versilbert</i>	L	7116-7473-06	Long <i>Lang</i>	7114-7474-06	Short <i>Kurz</i>					
	Tin <i>Verzinnt</i>	S	7116-7570-02	Short <i>Kurz</i>	--	--	--				
	Silver <i>Versilbert</i>	S	7116-7570-06	Short <i>Kurz</i>	--	--	--				
10	Tin <i>Verzinnt</i>	S	7116-5625-02	Long <i>Lang</i>	7114-5623-02	Long <i>Lang</i>		7158-3713-70	--	--	
			7116-5626-02	Short <i>Kurz</i>	7114-5624-02	Short <i>Kurz</i>	--				
	Silver <i>Versilbert</i>	L	7116-5625-06	Long <i>Lang</i>	7114-5623-06	Long <i>Lang</i>					see 1) <i>siehe 1)</i>
			7116-5626-06	Short <i>Kurz</i>	7114-5624-06	Short <i>Kurz</i>	--				
16	Tin <i>Verzinnt</i>	S	7116-5625-02	Long <i>Lang</i>	7114-5623-02	Long <i>Lang</i>	--	--	7158-3672-50	7158-3673-90	
	Silver <i>Versilbert</i>	L	7116-5625-06	Long <i>Lang</i>	7114-5623-06	Long <i>Lang</i>					

Table 1

Tabelle 1

*) Short - Version of terminal with short wire crimp (6mm)

*) Long - Version of terminal with long wire crimp (10mm)

1) This product (7116-5626-06) is applicable with SWS 7158-3268-70 capable for cable with 5,4 – 6,0 mm outside diameter

*) Kurze Kontaktausführung mit kurzem Drahtcrimp (6mm)

*) Lange Kontaktausführung mit langem Drahtcrimp (10mm)

1) Dieses Produkt (7116-5626-06) ist mit der Einzeldichtung 7158-3268-70 anwendbar, die für Leitungsaußendurchmesser 5,4 – 6,0 mm fähig ist

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4 Performance Data

4.1 Design

Shape and physical dimensions of the product are defined on the applicable product drawings.

4.2 Materials

All materials are defined in the applicable product drawings.

- Terminal Body: CuNiSi Alloy
- Terminal Spring: Stainless Steel

4.3 Technical Data

4.3.1 Current Carrying Capability

acc. to IEC 60512-5-1, IEC 60512-5-2, see applicable Current Carrying Capability Diagrams on pages 11 to 19. On page 15 is Current Carrying Capability measured in housing. 

4.3.2 Temperature Range

(Ambient Temperature and Heating Up by Current)

-40°C to 150°C USCAR-2 class 4 (tin plated)

-40°C to 175°C USCAR-2 class 5 (silver plated)

4.3.3 Durability

≤ 10 cycles (tin plated)

≤ 10 cycles (silver plated)

4.4 Quality and Performance

The product is designed to meet electrical, mechanical and environmental performance data specified in Table 2, Table 3 and Table 4.

All tests are performed according to the SAE/USCAR-2 Performance Specification for Automotive Electrical Connector Systems, Rev. 4.0 and SAE/USCAR-21 Performance Specification for Cable to Terminal Electrical Crimps, Rev. 1, unless otherwise specified.

4 Leistungsdaten

4.1 Konstruktion

Form und Abmessungen des Produktes sind in den entsprechenden Produktzeichnungen festgelegt.

4.2 Werkstoffe

Alle Werkstoffe sind in den entsprechenden Produktzeichnungen festgelegt.

- Kontaktkörper: CuNiSi Legierung
- Kontaktfeder: Rostfreier Edelstahl

4.3 Technische Daten

4.3.1 Strombelastbarkeit

nach IEC 60512-5-1, IEC 60512-5-2, siehe Strombelastungskurven auf den Seiten 11 bis 19. Auf Seite 15 ist Strombelastbarkeit im Gehäuse gemessen.

4.3.2 Temperaturbereich

(Umgebungstemperatur und Stromerwärmung)

-40°C to 150°C USCAR-2 class 4 (verzinkt)

-40°C to 175°C USCAR-2 class 5 (versilbert)

4.3.3 Stechkäufigkeit

≤ 10 Zyklen

≤ 10 Zyklen (versilbert)

4.4 Qualität und Leistung

Das Produkt ist so gestaltet, damit die in Tabelle 2, Tabelle 3 und Tabelle 4 geforderten elektrischen, mechanischen und umgebungsabhängigen Leistungsdaten eingehalten werden.

Alle Prüfungen werden nach den SAE/USCAR-2 Performance Specification for Automotive Electrical Connector Systems, Rev. 4.0 und SAE/USCAR-21 Performance Specification for Cable to Terminal Electrical Crimps, Rev. 1 durchgeführt.

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4.4.1 Mechanical Performance (Table 2)

4.4.1 Mechanische Leistung (Tabelle 2)

Test Description <i>Prüfungsbeschreibung</i>	Performance Data <i>Leistungsdaten</i>	Procedure <i>Verfahren</i>
Engage Force <i>Steckkraft</i> - Tin plated version <i>Verzinnte Ausführung</i> - Silver plated version <i>Versilberte Ausführung</i>	The following values has been performed at the 1st mating cycle: <i>Untenstehende Werte wurden für den ersten Steckzyklus erreicht:</i> $20N \leq F \leq 40N$ $20N \leq F \leq 40N$	SAE/USCAR-2 Sec 5.2.1 SAE/USCAR-2 Sec 5.2.1
Disengage Force <i>Ziehkraft</i> - Tin plated version <i>Verzinnte Ausführung</i> - Silver plated version <i>Versilberte Ausführung</i>	The following values has been performed at the 10th unmating cycle: <i>Untenstehende Werte wurden für den zehnten Ziehzyklus erreicht:</i> $\triangle_4 \triangle_3 10N \leq F \leq 40N$ $\triangle_4 \triangle_3 10N \leq F \leq 40N$	SAE/USCAR-2 Sec 5.2.1 SAE/USCAR-2 Sec 5.2.1
Terminal Bend Resistance <i>Kontaktbiegefestigkeit</i>	Terminal was bent from its original position and did not tear or crack when straightened to its original position. <i>Der Kontakt wurde wurde aus seiner ursprünglichen Stellung gebogen und riss und brach nicht, wenn er in seine Ausgangsstellung zurückgestellt wurde.</i>	SAE/USCAR-2 Sec 5.2.2 SAE/USCAR-2 Sec 5.2.2

Table 2

Tabelle 2

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4.4.2 Electrical Performance (Table 3)

4.4.2 Elektrische Leistung (Tabelle 3)

Test Description <i>Prüfungsbeschreibung</i>	Performance <i>Leistung</i>	Procedure <i>Verfahren</i>
Dry Circuit Resistance <i>Dry-Circuit Widerstand</i>	Total connection resistance (Crimp to Crimp) $\leq 0,5m\Omega$. <i>Gesamtwiderstand (zwischen beiden Crimps) der Steckverbindung $\leq 0,5m\Omega$</i>	SAE/USCAR-2 Sec 5.3.1 SAE/USCAR-2 Sec 5.3.1
Terminal Maximum Current Rating 4mm ² - 53A 6mm ² - 63A 10mm ² - 76A 16mm ² - 91A <i>Strombegrenzungskurve des Kontakts</i> 4mm ² - 53A 6mm ² - 63A 10mm ² - 76A 16mm ² - 91A	Temperature of Terminal did not exceed 55°C rise over ambient temperature in specified class. Total connection resistance (crimp to crimp) after test did not exceed 1,5m Ω . <i>Die Temperatur des Kontakts überschritt nicht einen Anstieg von 55°C zur Umgebungstemperatur in der spezifizierten Kategorie.</i> <i>Der Gesamtwiderstand (zwischen beiden Crimps) der Steckverbindung überschritt nicht 1,5mΩ nach der Prüfung.</i>	SAE/USCAR-2 Sec 5.3.3 SAE/USCAR-2 Sec 5.3.3
Terminal 1008 Hour Current Cycling <i>Stromwechselzyklen des Kontakts über 1008 Stunden.</i>	Temperature of Terminal did not exceed 55°C rise over ambient temperature in specified class. Total connection resistance (crimp to crimp) after test did not exceed 1.5m Ω <i>Die Temperatur des Kontakts überschritt nicht einen Anstieg von 55°C zur Umgebungstemperatur in der spezifizierten Kategorie.</i> <i>Der Gesamtwiderstand (zwischen beiden Crimps) der Steckverbindung überschritt nicht 1,5mΩ nach der Prüfung.</i>	SAE/USCAR-2 Sec 5.3.4 SAE/USCAR-2 Sec 5.3.4

Table 3

Tabelle 3

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4.4.3 Test Performance (Table 4)

4.4.3 Prüfleistung (Tabelle 4)

Test Description <i>Prüfungbeschreibung</i>	Performance <i>Leistung</i>	Procedure <i>Verfahren</i>
Vibration / Mechanical Shock SAE/USCAR-2 Sec 5.9.6 M <i>Schwingung / Mechanischer Schock</i> SAE/USCAR-2 Sec 5.9.6 M	No loss of electrical continuity; Total Connection Resistance (Crimp to Crimp) after test <1,5mΩ. <i>Keine elektrische Unterbrechung; Gesamtwiderstand (zwischen beiden Crimps) der Steckverbindung nach der Prüfung <1,5mΩ.</i>	SAE/USCAR-2 Sec 5.4.6 SAE/USCAR-2 Sec 5.1.9 SAE/USCAR-2 Sec 5.3.1 SAE/USCAR-2 Sec 5.3.2 SAE/USCAR-2 Sec 5.4.6 SAE/USCAR-2 Sec 5.1.9 SAE/USCAR-2 Sec 5.3.1 SAE/USCAR-2 Sec 5.3.2
Thermal Shock SAE/USCAR-2 Sec 5.9.6 N <i>Temperaturschock</i> SAE/USCAR-2 Sec 5.9.6 N	No loss of electrical continuity, Total Connection Resistance (Crimp to Crimp) after test <1,5mΩ. <i>Keine elektrische Unterbrechung; Gesamtwiderstand (zwischen beiden Crimps) der Steckverbindung nach der Prüfung <1,5mΩ.</i>	SAE/USCAR-2 Sec 5.6.1 SAE/USCAR-2 Sec 5.1.9 SAE/USCAR-2 Sec 5.3.1 SAE/USCAR-2 Sec 5.3.2 SAE/USCAR-2 Sec 5.6.1 SAE/USCAR-2 Sec 5.1.9 SAE/USCAR-2 Sec 5.3.1 SAE/USCAR-2 Sec 5.3.2
Temperature / Humidity Cycling SAE/USCAR-2 Sec 5.9.6 O <i>Temperatur / Feuchtwechsel</i> SAE/USCAR-2 Sec 5.9.6 O	Total Connection Resistance (Crimp to Crimp) after test <1,5mΩ. <i>Gesamtwiderstand (zwischen beiden Crimps) der Steckverbindung nach der Prüfung <1,5mΩ.</i>	SAE/USCAR-2 Sec 5.6.2 SAE/USCAR-2 Sec 5.3.1 SAE/USCAR-2 Sec 5.3.2 SAE/USCAR-2 Sec 5.6.2 SAE/USCAR-2 Sec 5.3.1 SAE/USCAR-2 Sec 5.3.2
High Temperature Exposure SAE/USCAR-2 Sec 5.9.6 P <i>Hochtemperaturlagerung</i> SAE/USCAR-2 Sec 5.9.6 P	Total Connection Resistance (Crimp to Crimp) after test <1,5mΩ. <i>Gesamtwiderstand (zwischen beiden Crimps) der Steckverbindung nach der Prüfung <1,5mΩ.</i>	SAE/USCAR-2 Sec 5.6.3 SAE/USCAR-2 Sec 5.3.1 SAE/USCAR-2 Sec 5.3.2 SAE/USCAR-2 Sec 5.6.3 SAE/USCAR-2 Sec 5.3.1 SAE/USCAR-2 Sec 5.3.2

Table 4

Tabelle 4

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4.5 Qualification and Requalification Test Sequence

4.5 Qualifikations- und Requalifikations- Prüfablauf

Test Prüfung	See SAE/USCAR-2 Siehe SAE/USCAR-2	Test Group / Prüfungsgruppe						
		5.9.3 A	5.9.3 B	5.9.4 C	5.9.6 M	5.9.6 N	5.9.6 O	5.9.6 P
		Test Sequence / Prüfablauf						
General Allgemein	5.1	1	1	1	1	1	1	1
Visual Inspection Sichtprüfung	5.1.8	2, 4	2, 4	2, 5	2, 8	2, 8	2, 10	2, 8
Connector Cycling Steckzyklen	5.1.7				3	3	3	3
Circuit Continuity Monitoring Überwachung von Kontak- unterbrechungen	5.1.9				5	5		
Terminal To Terminal Engage / Disengage Force Steck- und Ziehkraft der beiden Kontakte	5.2.1	3						
Terminal Bend Resistance Kontaktbiegefestigkeit	5.2.2		3					
Dry Circuit Resistance Dry-Circuit Widerstand	5.3.1				4, 6	4, 6	4, 6	4, 6
Voltage Drop Spannungsabfall	5.3.2				7	7	7	7
Maximum Test Current Capability Maximale Teststrom- Tragfähigkeit	5.3.3			3				
1008 Hour Current Capabil- ity Stromwechselzyklen	5.3.4			4				
Terminal-Connector Extraction Force Kontaktausdrückkraft	5.4.1						9	
Vibration / Mechanical Shock Schwingung / Mechanischer Schock	5.4.6				5			
Isolation Resistance Isolationswiderstand	5.5.1						8	
Thermal Shock Temperaturschock	5.6.1					5		
Temperature / Humidity Cycling Temperatur /Feuchtewechsel	5.6.2						5	
High Temperature Exposure Hochtemperaturlagerung	5.6.3							5

Table 5

Tabelle 5

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5 Quality Assurance Provisions

5.1 Qualification Testing

5.1.1 Sample Selection

The samples will be selected in random order from current production.

5.1.2 Test Sequence

Qualification inspection will be verified by testing samples as specified in Section 4.4 (Table 2 to Table 4)

5.2 Requalification Testing

If significant changes are made on the product or manufacturing process, which significantly affects form, fit or function, requalification testing has to be made. It will consist of whole or part of original testing sequence as determined by responsible engineering.

5.3 Acceptance

Acceptance is based on verification that the product meets requirements of Section 4.3. Failures attributed to the equipment, test setup or operator deficiencies will not disqualify the product.

5.4 Quality Conformance Inspection

The applicable YAZAKI Quality Inspection Plan will be the sampling acceptable quality level to be used. Dimensional and functional requirements will be in accordance with the applicable drawing and this specification.

5 Vereinbarungen zur Qualitätssicherung

5.1 Freigabeproofung

5.1.1 Musterauswahl

Die Muster werden in willkürlicher Reihenfolge aus der laufenden Fertigung ausgewählt.

5.1.2 Prüfablauf

Die Qualifizierungsprüfung wird durch die Prüfmuster bestätigt, wie in Absatz 4.4 spezifiziert (Tabelle 2 bis Tabelle 4).

5.2 Zweiter Qualifizierungstest

Wenn bedeutende Änderungen am Produkt oder Fertigungsprozess gemacht werden, die Form, Zusammenbau oder Funktion beeinträchtigen, müssen Requalifizierungsprüfungen durchgeführt werden. Diese können aus dem gesamten oder teilweisen Prüfablauf bestehen, welches durch die verantwortliche Engineering Abteilung veranlasst wird.

5.3 Abnahme

Die Abnahme beruht auf der Bestätigung, dass das Produkt die Leistungs-Anforderungen nach Abschnitt 4.3 erfüllt. Fehler, die auf Ausrüstung, Prüfaufbau oder Bedienermängel zurückzuführen sind, können das Produkt nicht disqualifizieren.

5.4 Qualitätssicherungsüberprüfung

Der geeignete YAZAKI Qualitätsprüfplan wird als die für die Prüfmuster akzeptierte Qualitätsstufe berücksichtigt. Anforderungen bezüglich Abmessungen und Funktion müssen mit der zugehörigen Zeichnung und dieser Spezifikation übereinstimmen.

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6 Diagrams

6 Diagramme

Part Number: 7114-5623-02, 7116-5625-02
 Wire Size: 10 mm²
 Plating: Sn28M
 Material: CuNiSi (Male Terminal),
 CuNiSi (Female Terminal Body) and Stainless Steel (Female Terminal Spring)

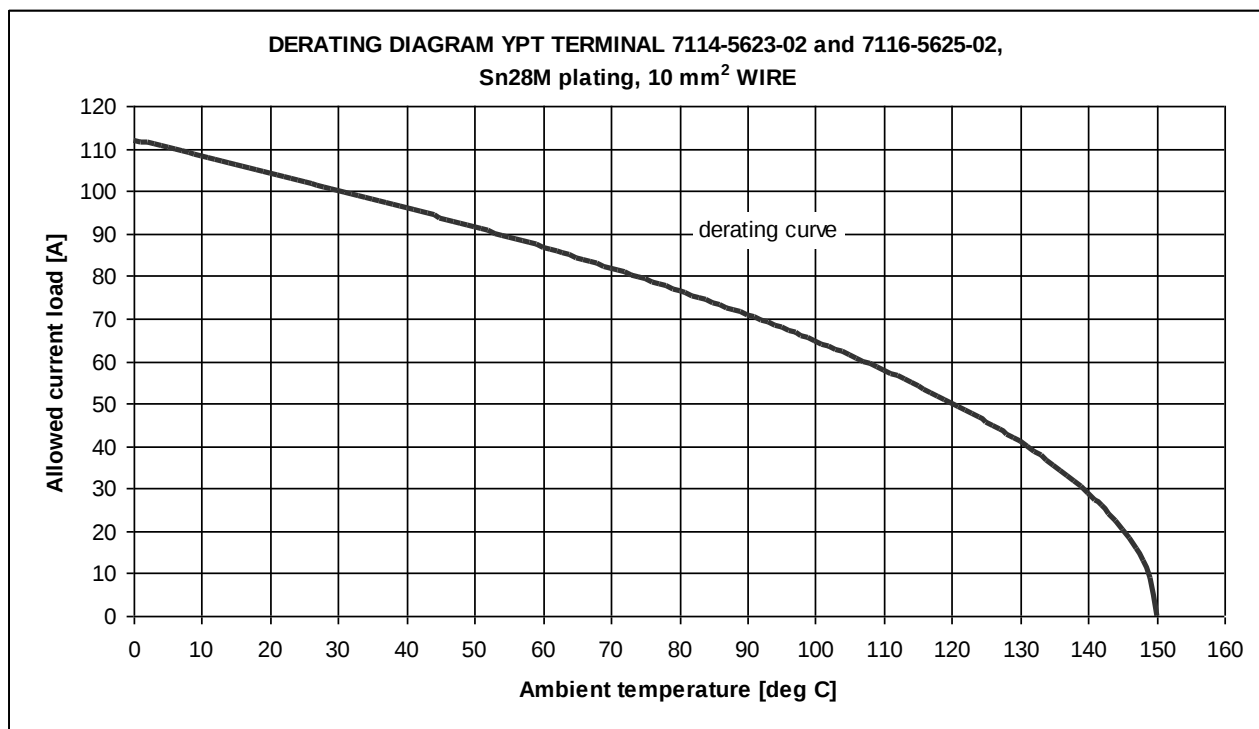
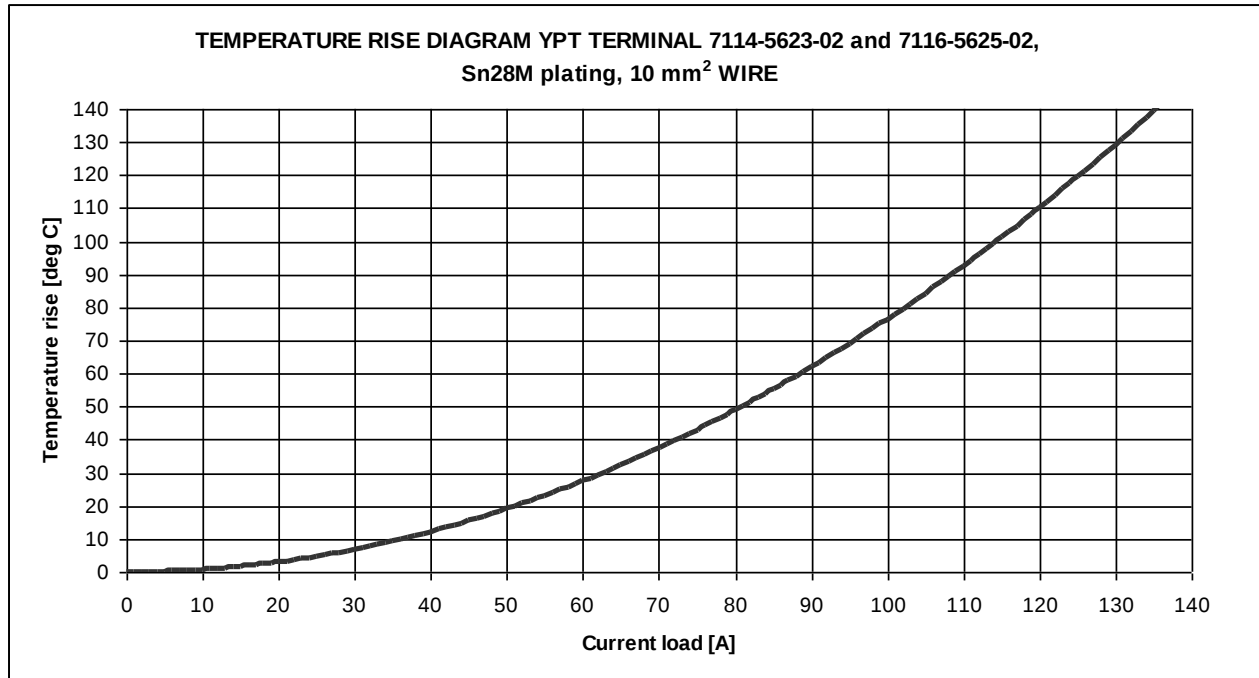


Diagram 1

Diagramm 1

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Part Number: 7114-5623-02, 7116-5625-02
 Wire Size: 16mm²
 Plating: Sn28M
 Material: CuNiSi (Male Terminal),
 CuNiSi (Female Terminal Body) and Stainless Steel (Female Terminal Spring)

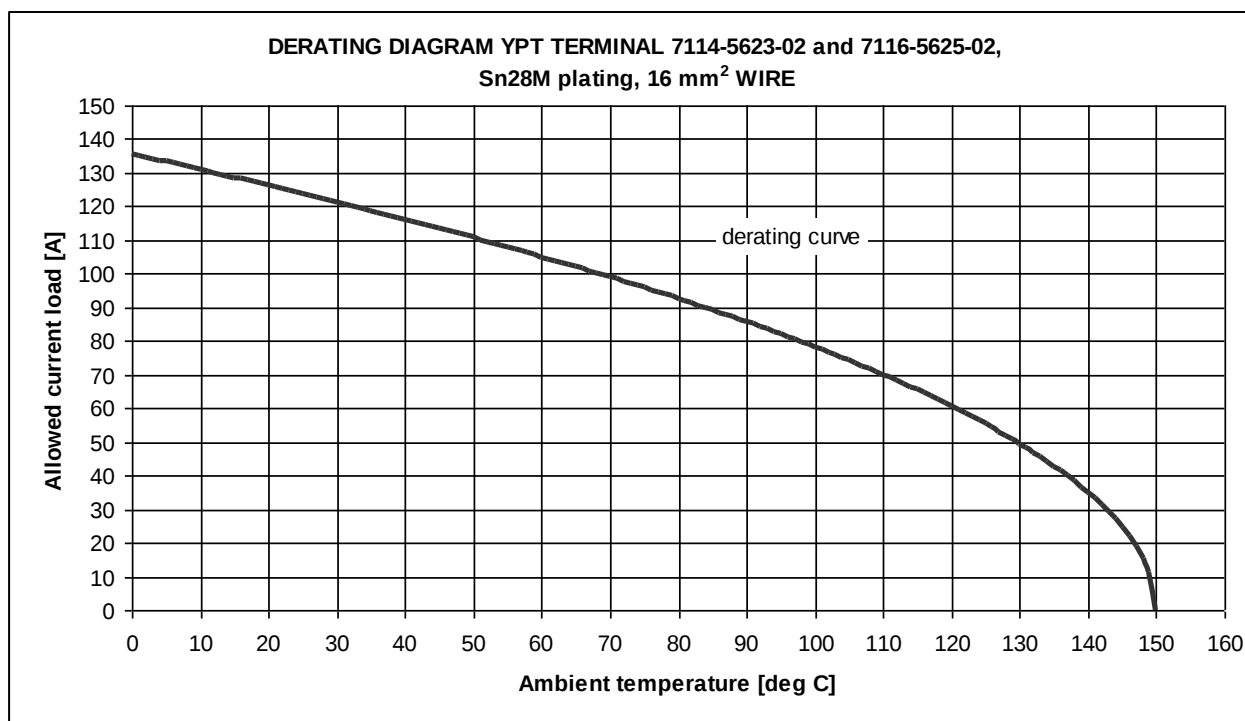
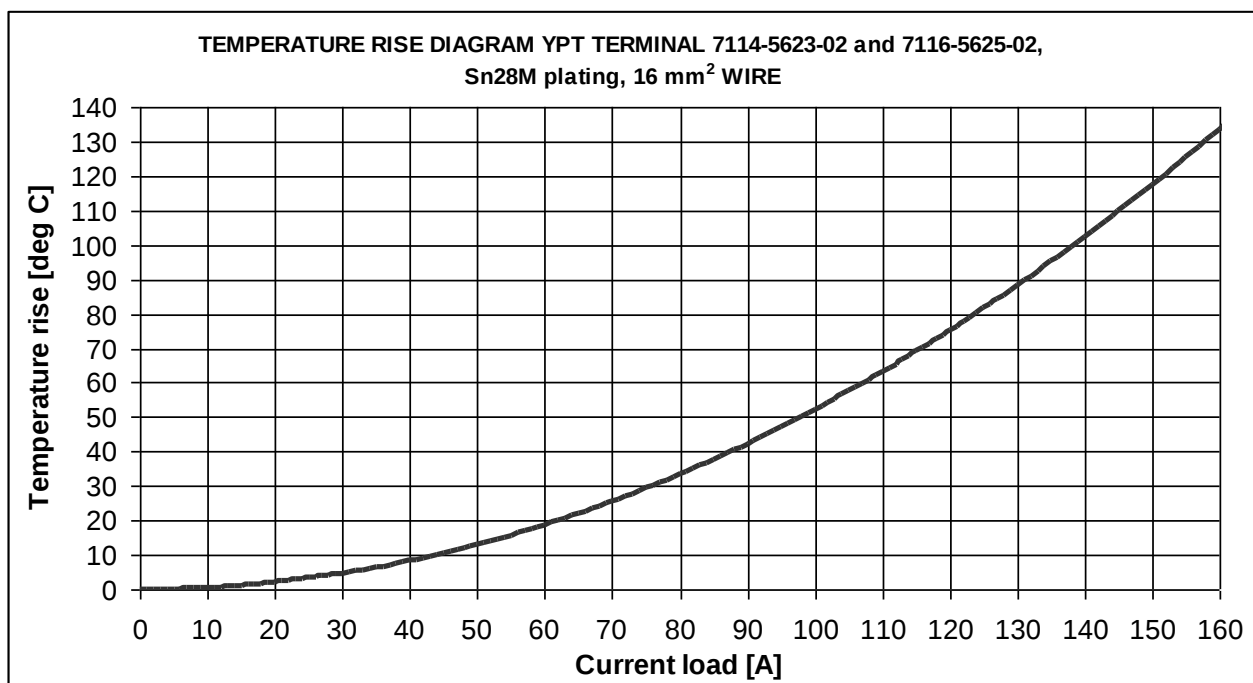


Diagram 2

Diagramm 2

Part Number: 7114-5623-06, 7116-5625-06
 Wire Size: 10 mm²
 Plating: Ag
 Material: CuNiSi (Male Terminal),
 CuNiSi (Female Terminal Body) and Stainless Steel (Female Terminal Spring)

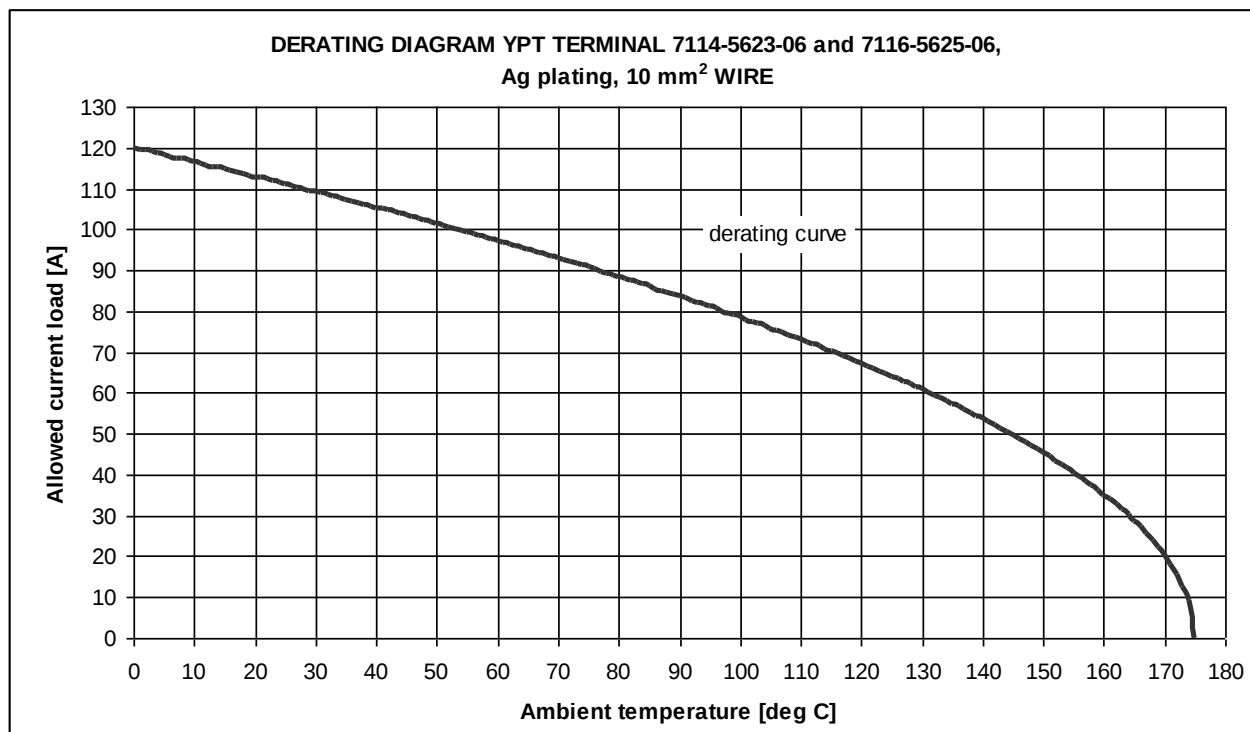
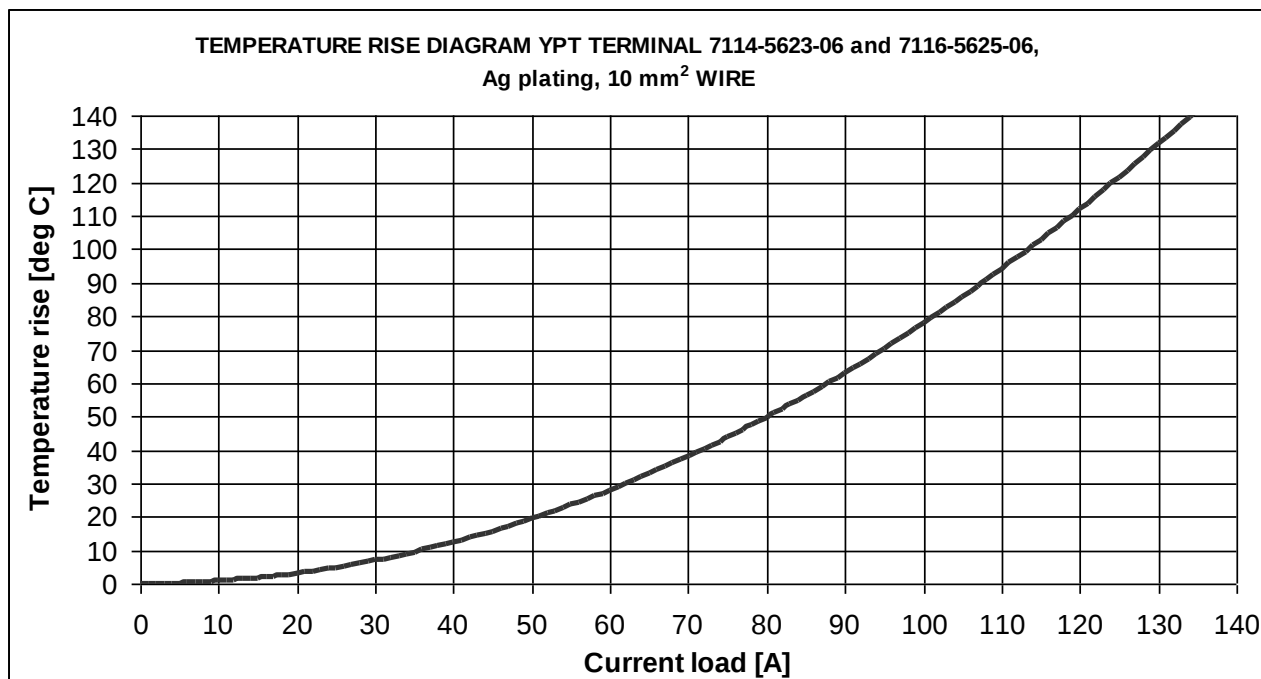


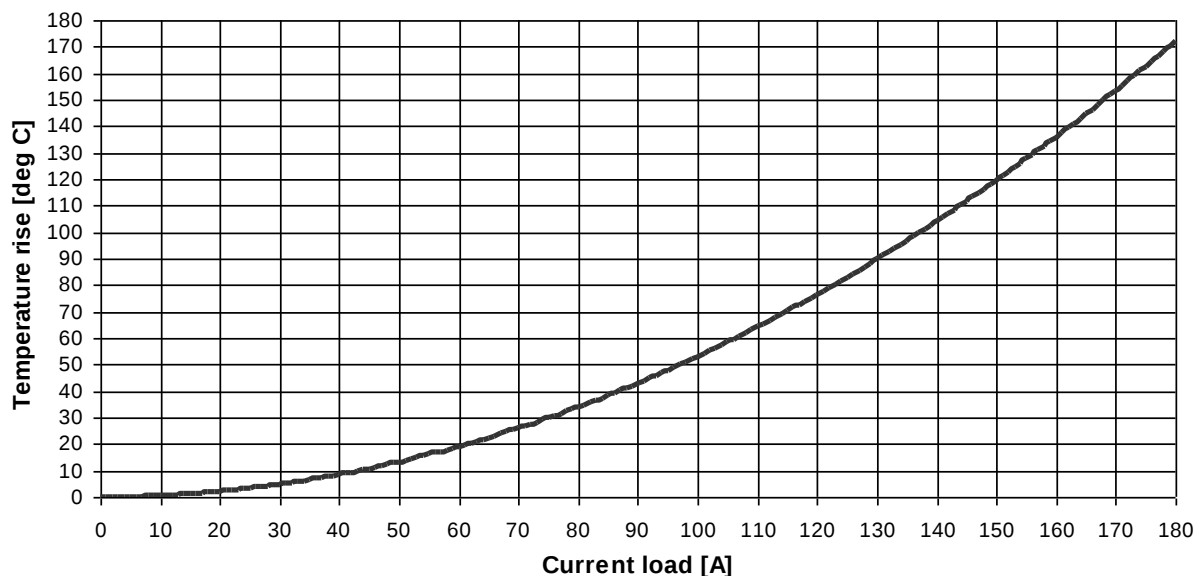
Diagram 3

Diagramm 3

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YPT 9,50mm Contact System	YPES-11-98-148E	4
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Part Number: 7114-5623-06, 7116-5625-06
 Wire Size: 16 mm²
 Plating: Ag
 Material: CuNiSi (Male Terminal),
 CuNiSi (Female Terminal Body) and Stainless Steel (Female Terminal Spring)

TEMPERATURE RISE DIAGRAM YPT TERMINAL 7114-5623-06 AND 7116-5625-06,
 Ag plating, 16 mm² WIRE



DERATING DIAGRAM YPT TERMINAL 7114-5623-06 AND 7116-5625-06,
 Ag plating, 16 mm² WIRE

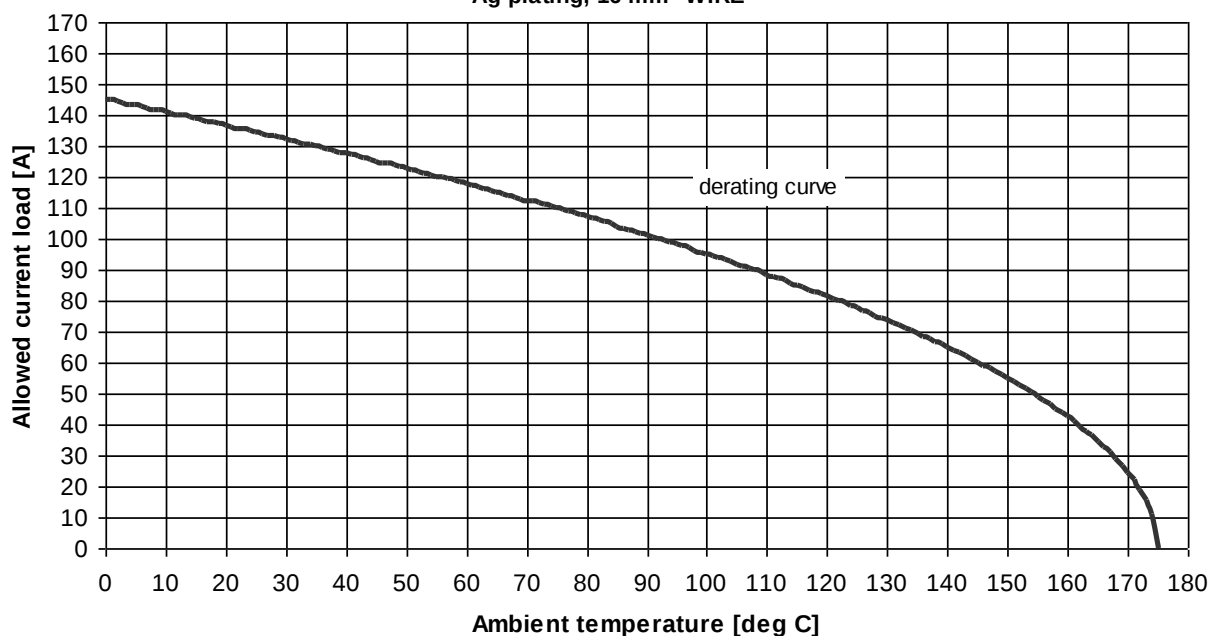


Diagram 4

Diagramm 4

Title
 YPT 9,50mm Contact System

Doc. No.
 YPES-11-98-148E

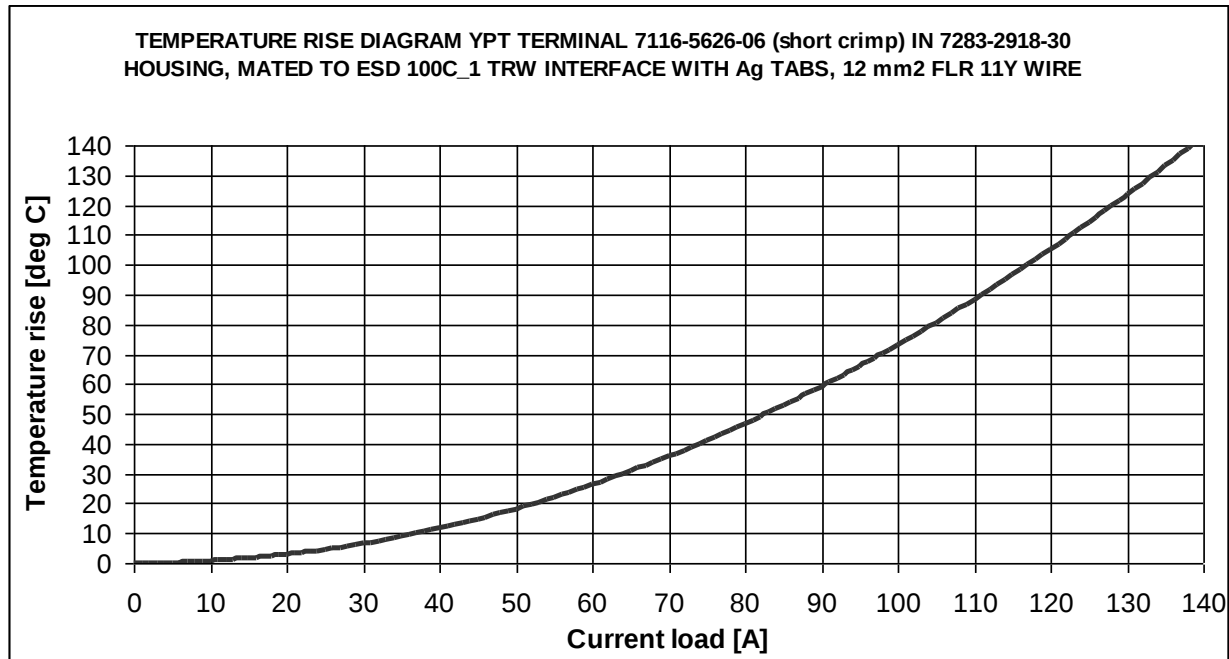
Rev.
 4

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①

Part Number: 7116-5626-06
 Wire Size: 12 mm²
 Plating: Ag
 Material: CuNiSi (Male Terminal),
 CuNiSi (Female Terminal Body) and Stainless Steel (Female Terminal Spring)

①



①

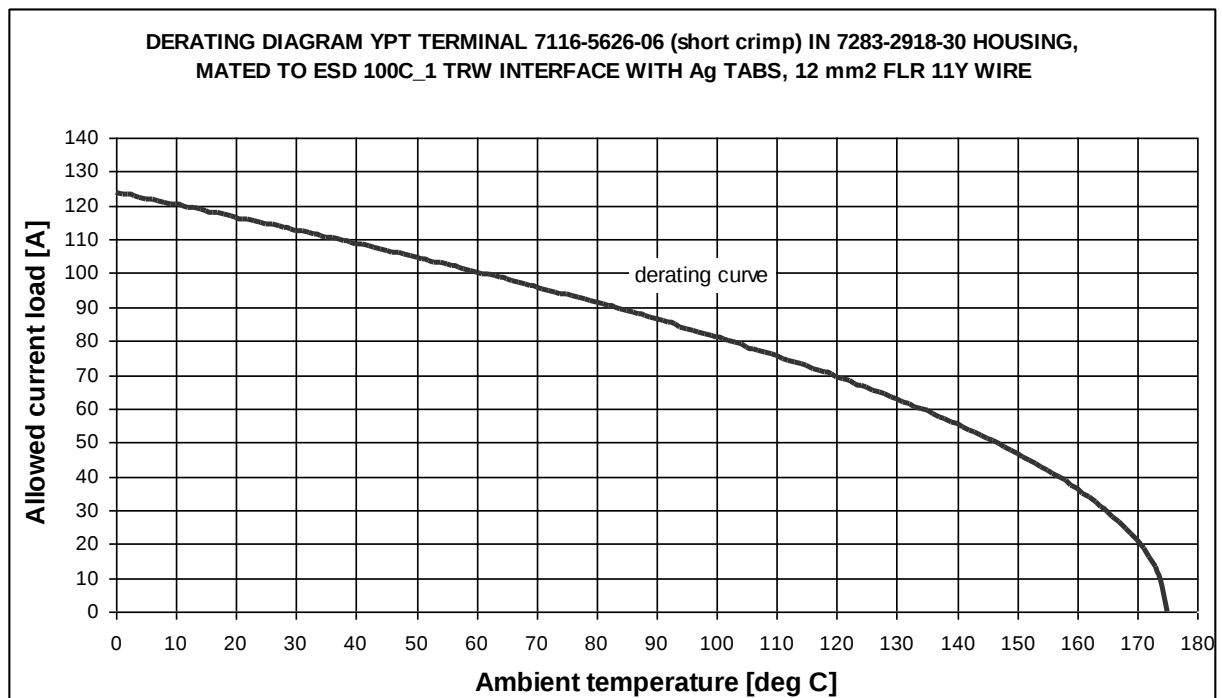


Diagram 5

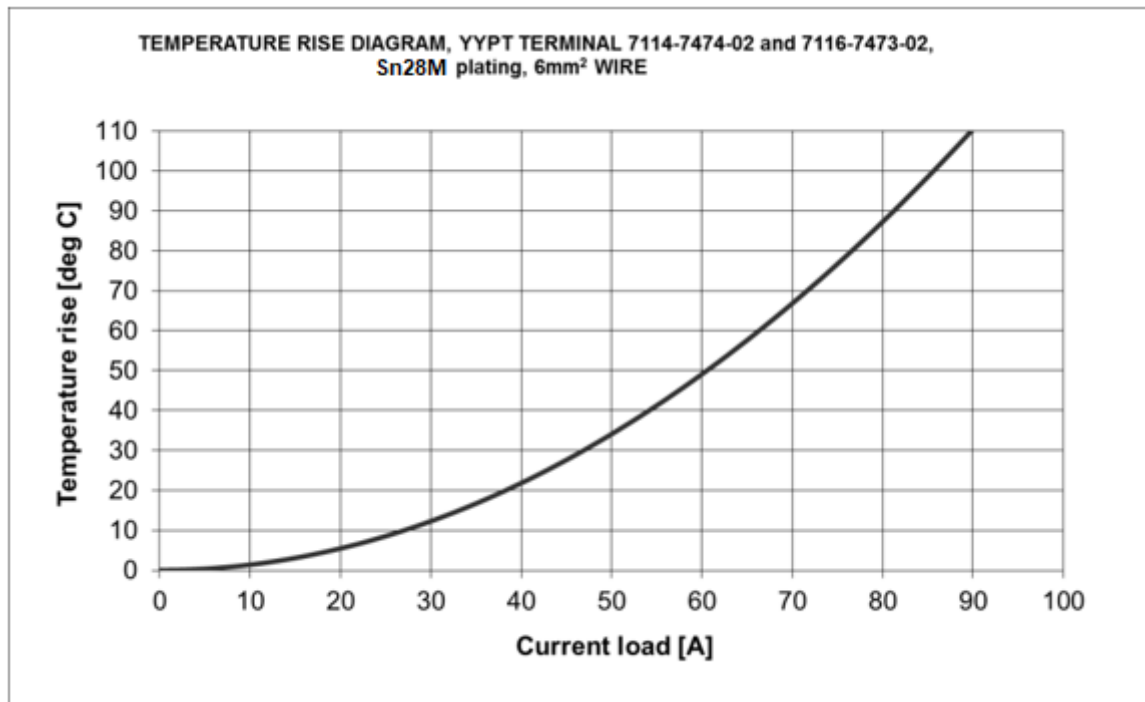
Diagramm 5

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①

Part Number: 7114-7474-02, 7116-7473-02
 Wire Size: 6 mm²
 Plating: Sn28M
 Material: CuNiSi (Male Terminal),
 CuNiSi (Female Terminal Body) and Stainless Steel (Female Terminal Spring)

①



①

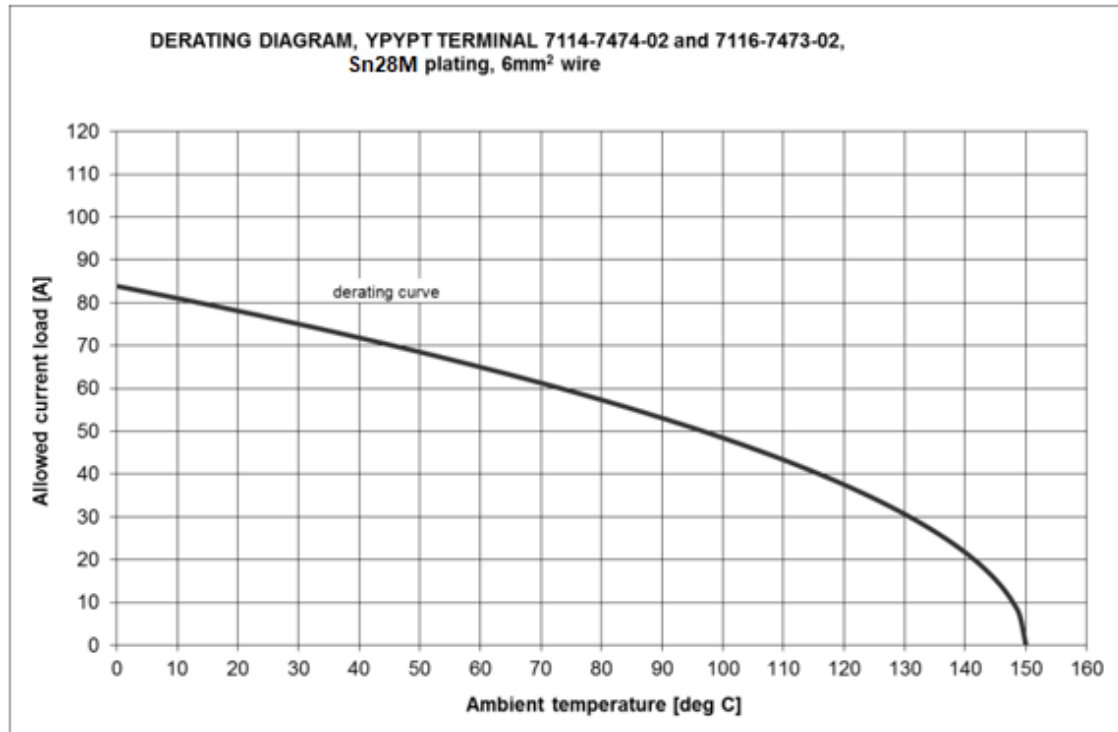


Diagram 6

Diagramm 6

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Part Number: 7114-7474-06, 7116-7473-06
 Wire Size: 6 mm²
 Plating: Ag
 Material: CuNiSi (Male Terminal),
 CuNiSi (Female Terminal Body) and Stainless Steel (Female Terminal Spring)

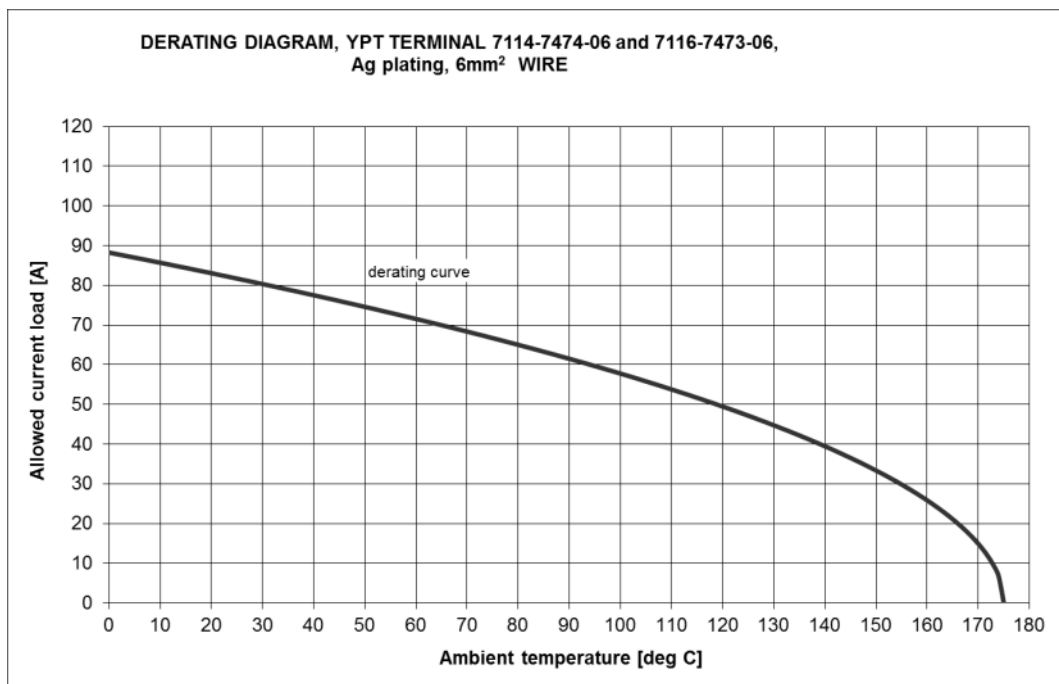
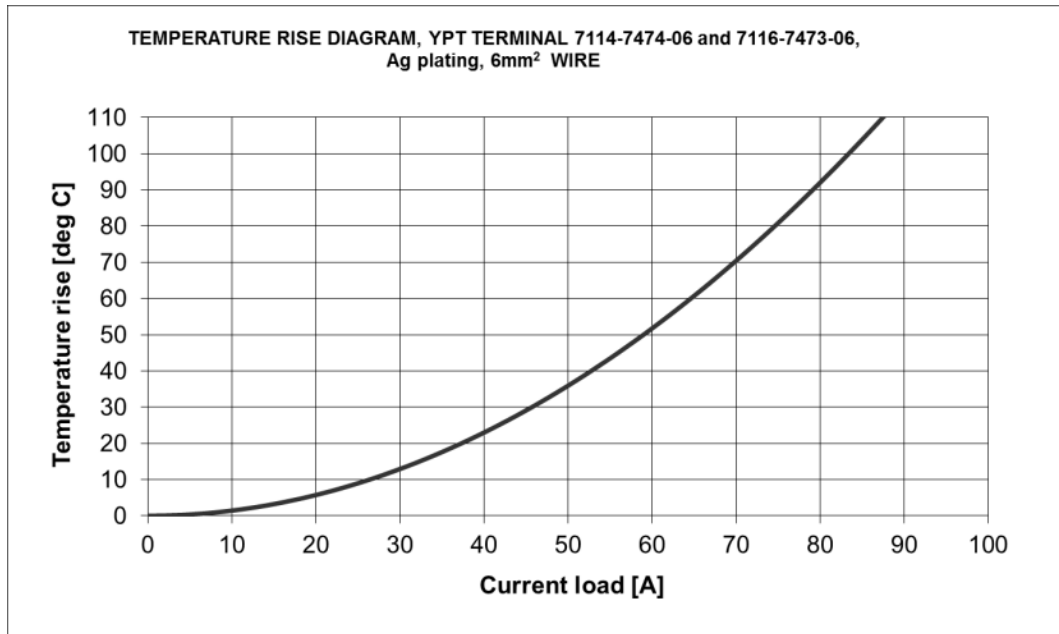


Diagram 7

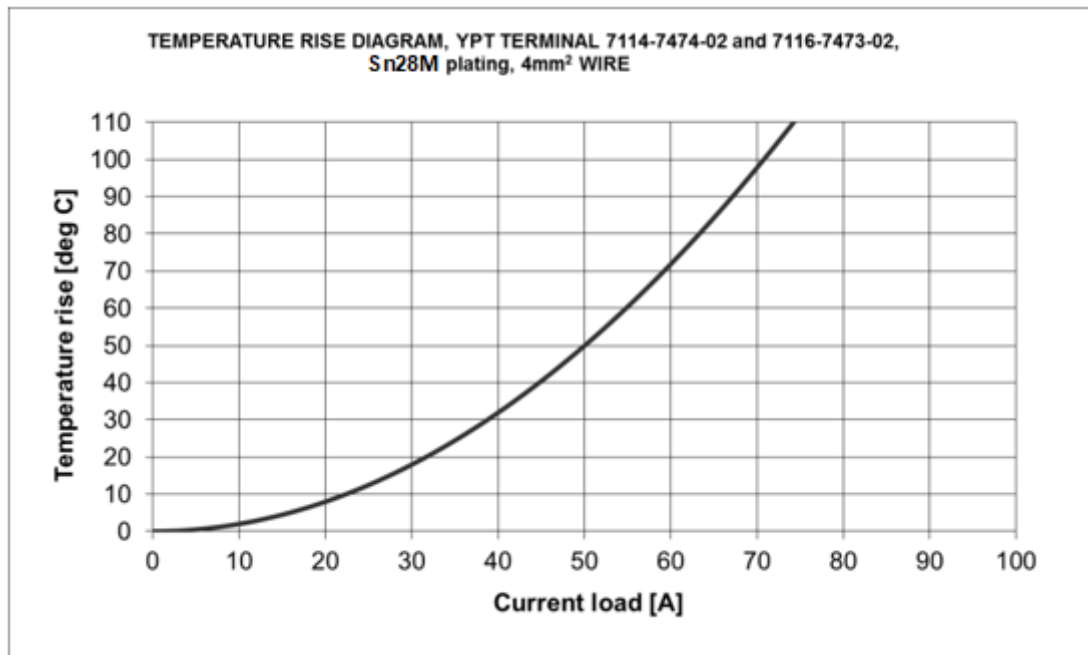
Diagramm 7

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①

Part Number: 7114-7474-02, 7116-7473-02
 Wire Size: 4 mm²
 Plating: Sn28M
 Material: CuNiSi (Male Terminal),
 CuNiSi (Female Terminal Body) and Stainless Steel (Female Terminal Spring)

①



①

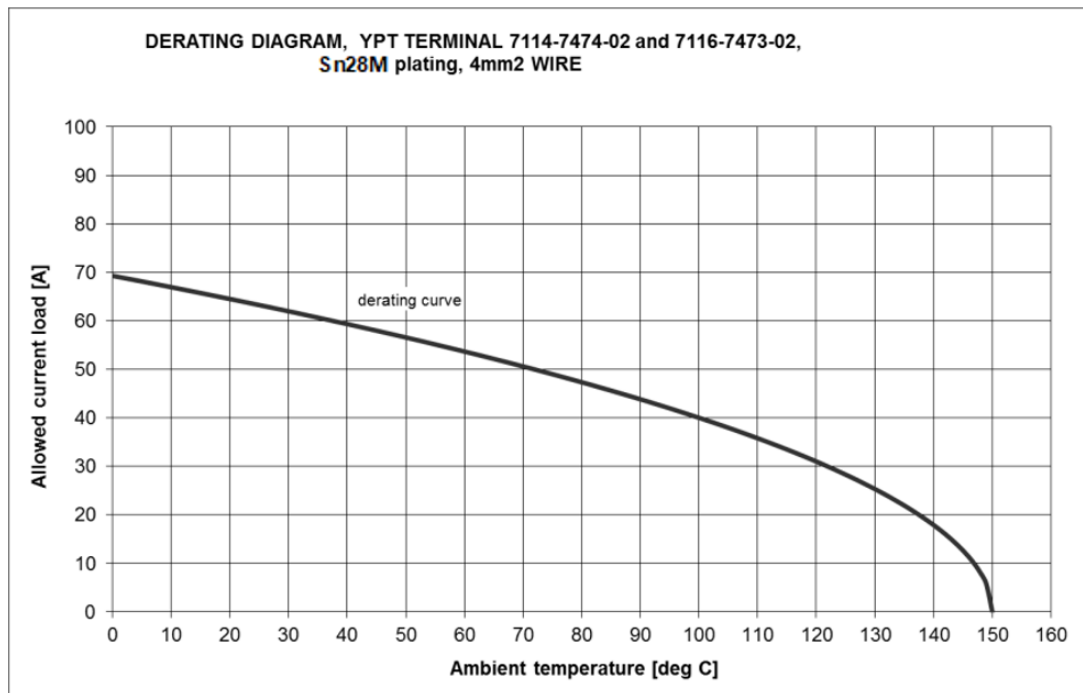
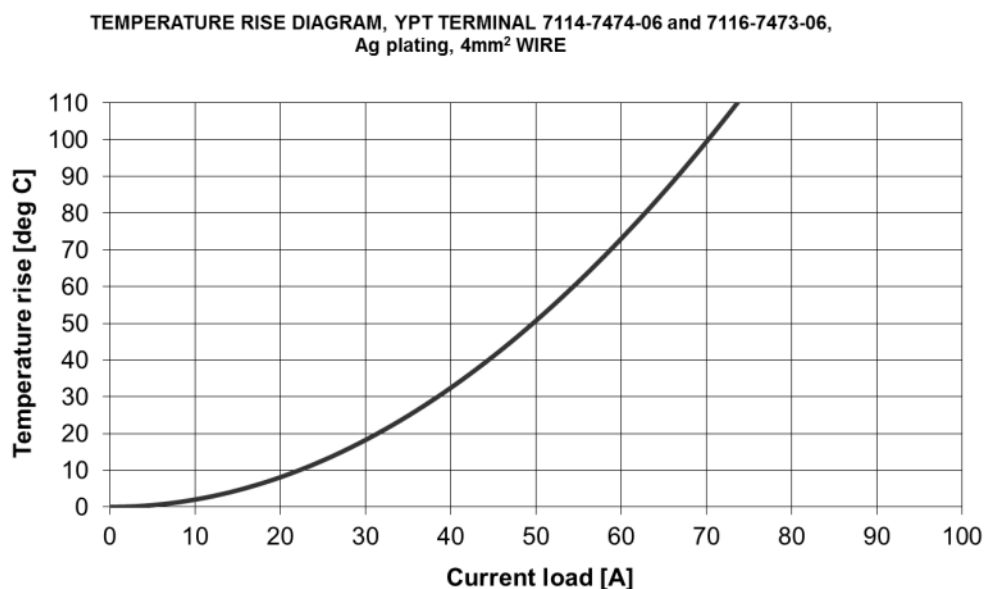


Diagram 8

Diagramm 8

Part Number: 7114-7474-06, 7116-7473-06
 Wire Size: 4 mm²
 Plating: Ag
 Material: CuNiSi (Male Terminal),
 CuNiSi (Female Terminal Body) and Stainless Steel (Female Terminal Spring)

1



1

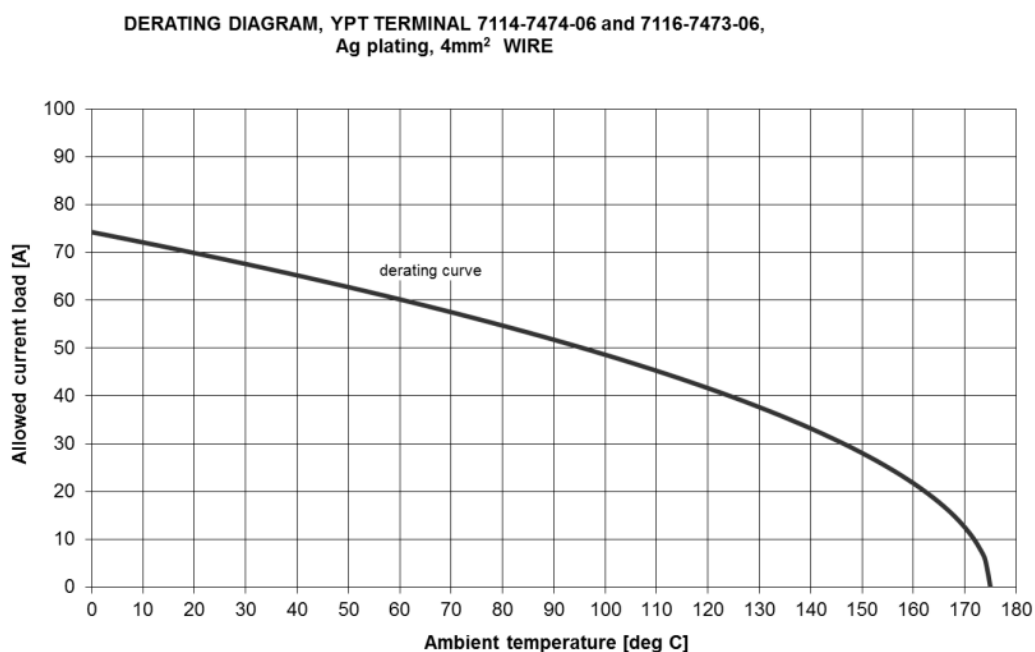


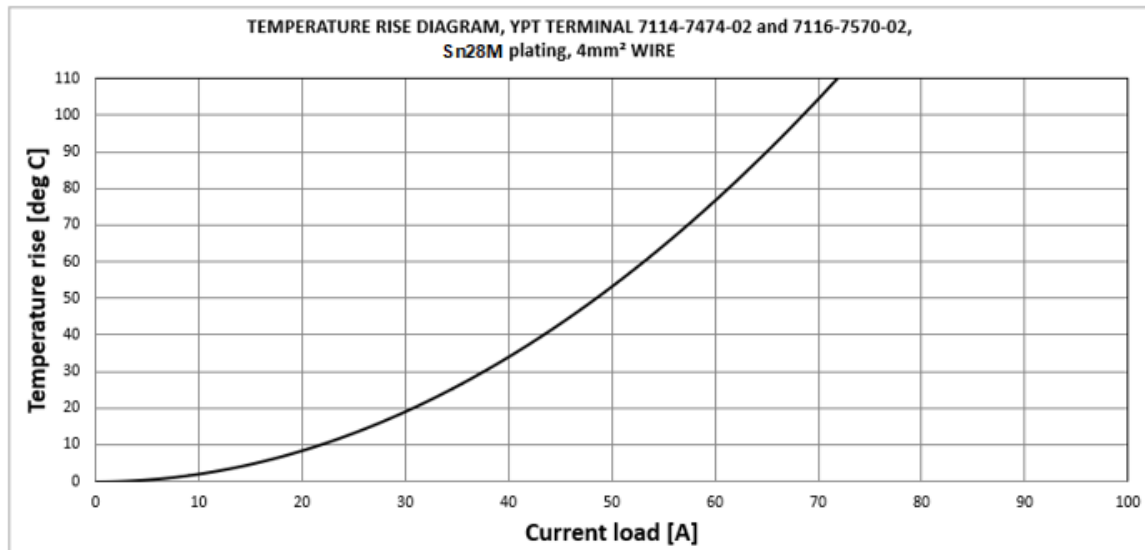
Diagram 9

Diagramm 9

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Part Number: 7114-7474-02, 7116-7570-02
 Wire Size: 4 mm²
 Plating: Sn28M
 Material: CuNiSi (Male Terminal),
 CuNiSi (Female Terminal Body) and Stainless Steel (Female Terminal Spring)

△2



△2

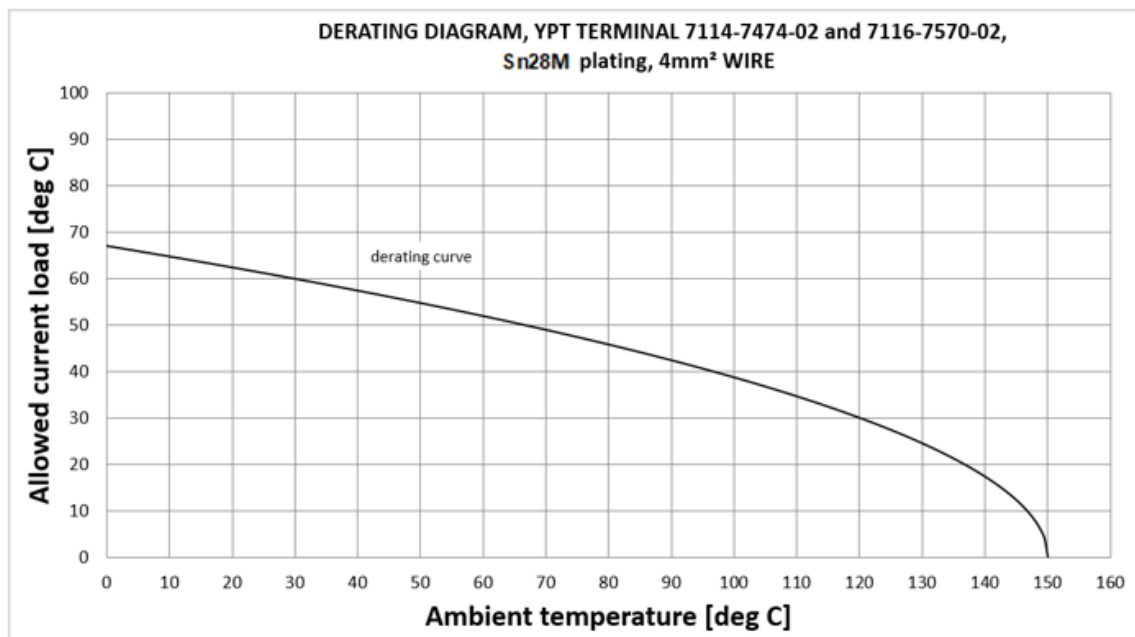


Diagram 10

Diagramm 10

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Part Number: 7114-7474-02, 7116-7570-02
 Wire Size: 6 mm²
 Plating: Sn28M
 Material: CuNiSi (Male Terminal),
 CuNiSi (Female Terminal Body) and Stainless Steel (Female Terminal Spring)

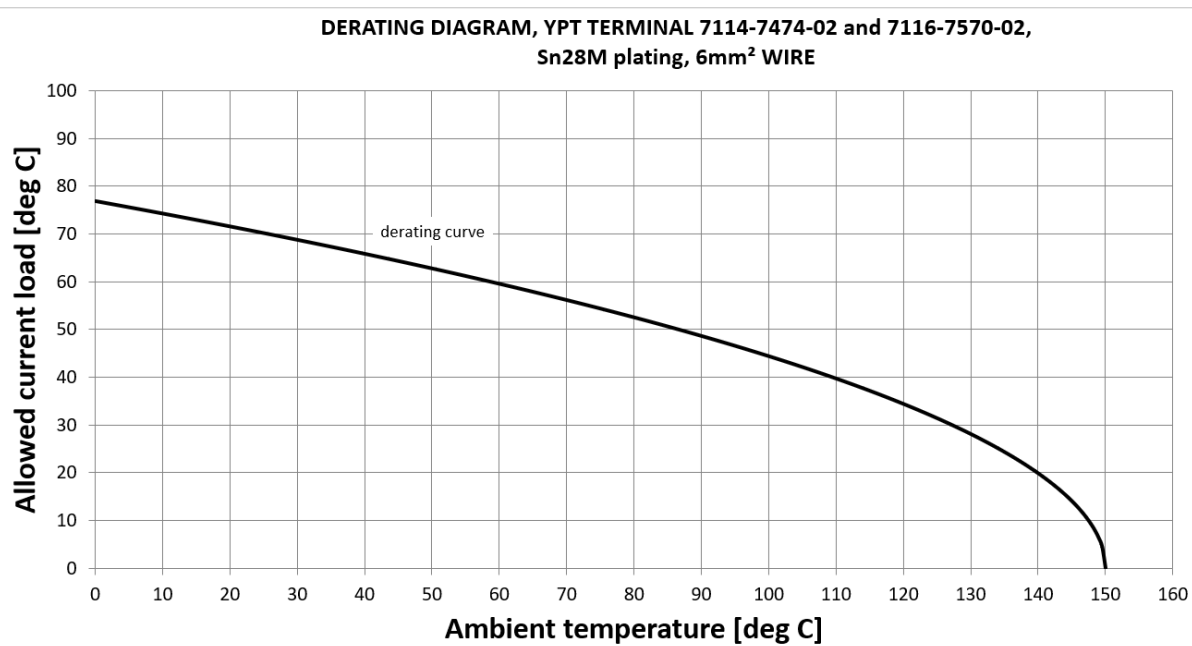
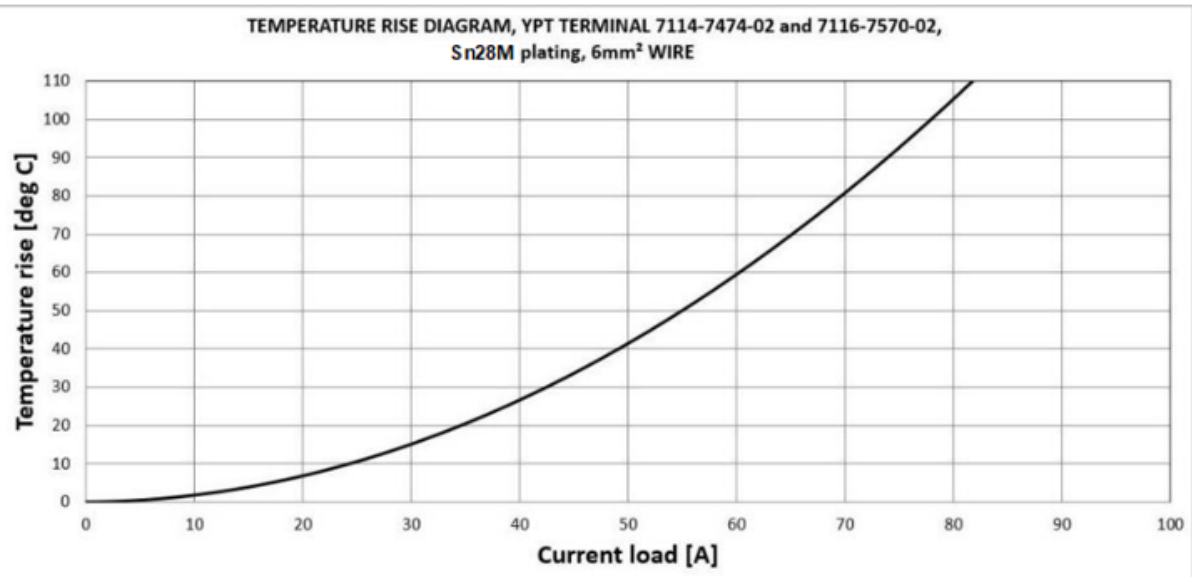


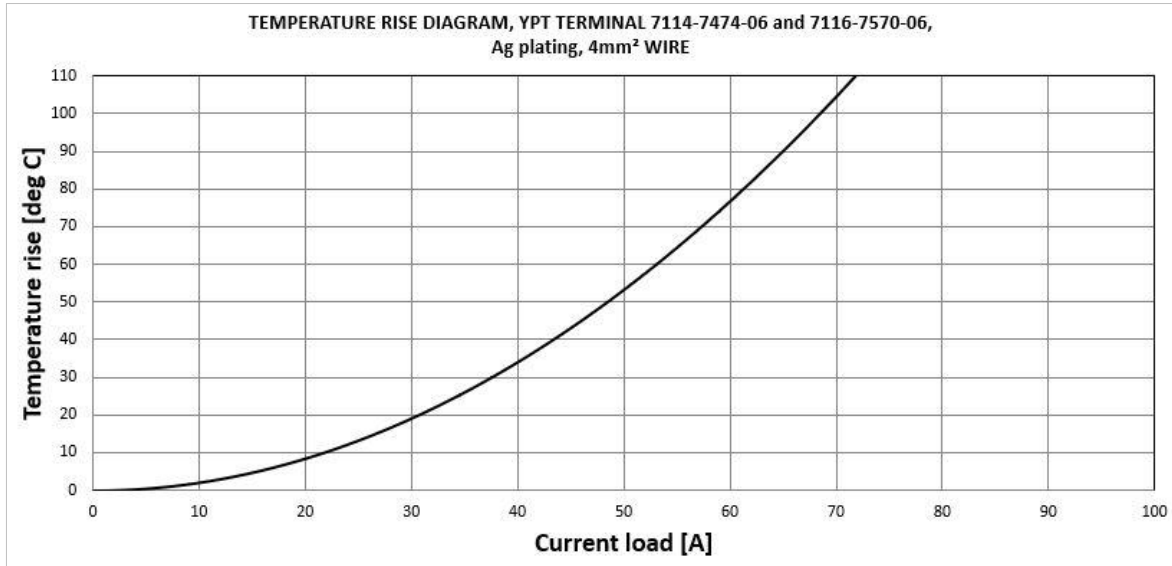
Diagram 11

Diagramm 11

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Part Number: 7114-7474-06, 7116-7570-06
 Wire Size: 4 mm²
 Plating: Ag
 Material: CuNiSi (Male Terminal),
 CuNiSi (Female Terminal Body) and Stainless Steel (Female Terminal Spring)

2



2

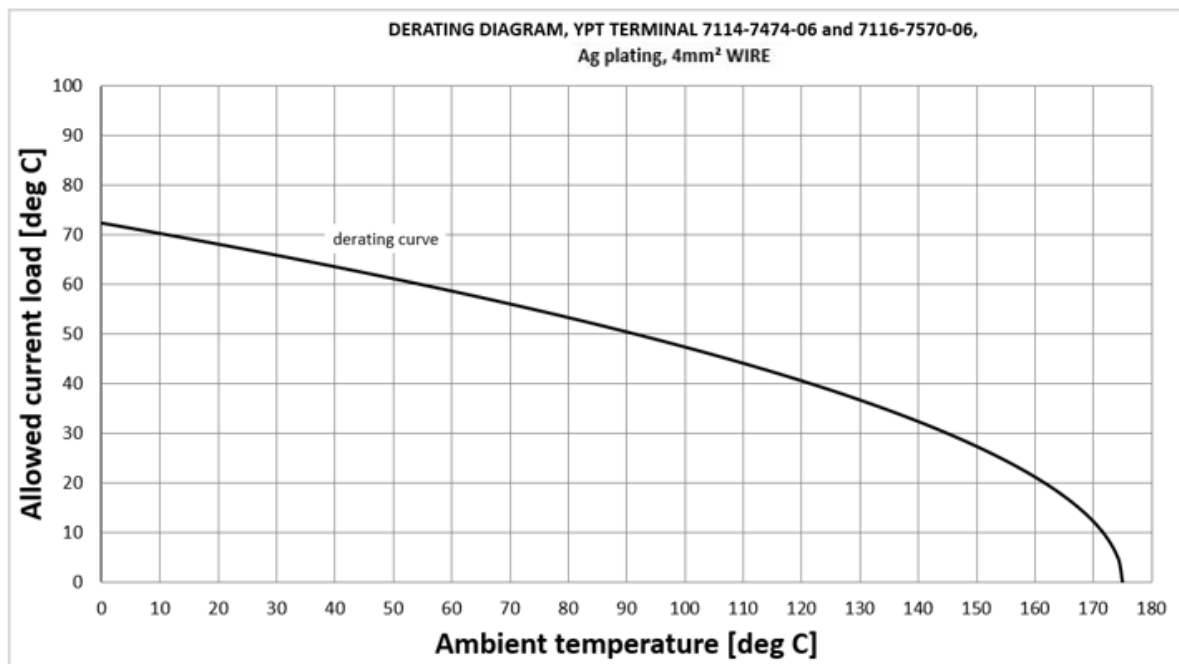


Diagram 12

Diagramm 12

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Part Number: 7114-7474-06, 7116-7570-06
 Wire Size: 6 mm²
 Plating: Ag
 Material: CuNiSi (Male Terminal),
 CuNiSi (Female Terminal Body) and Stainless Steel (Female Terminal Spring)

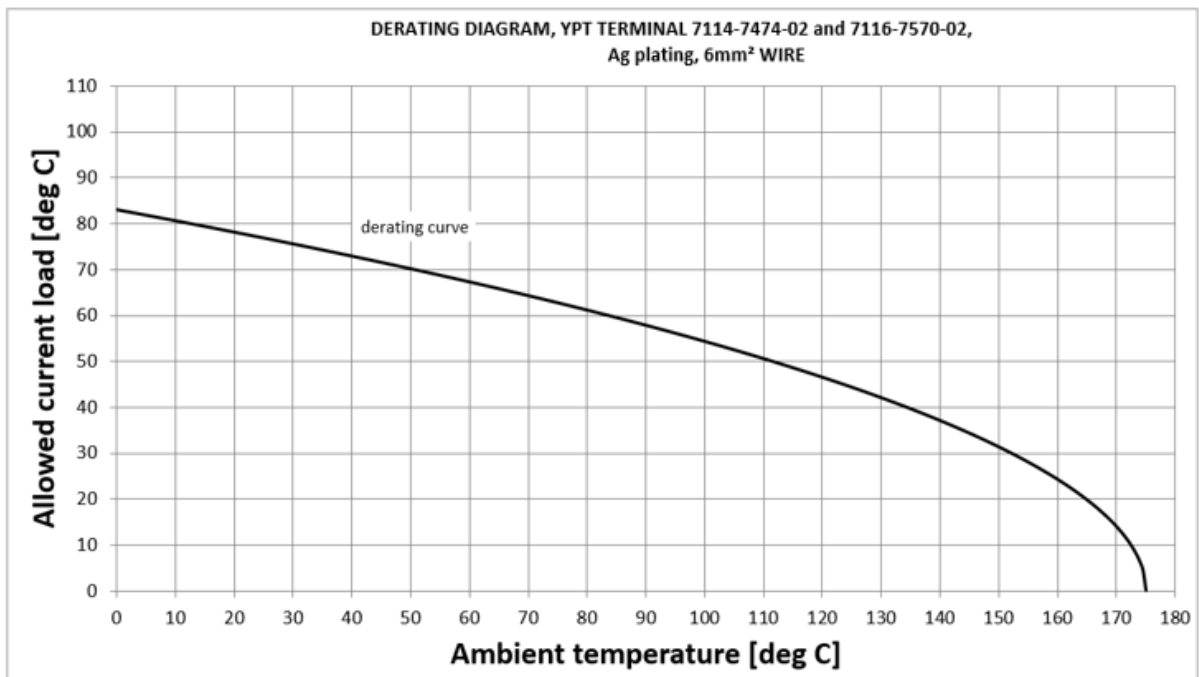
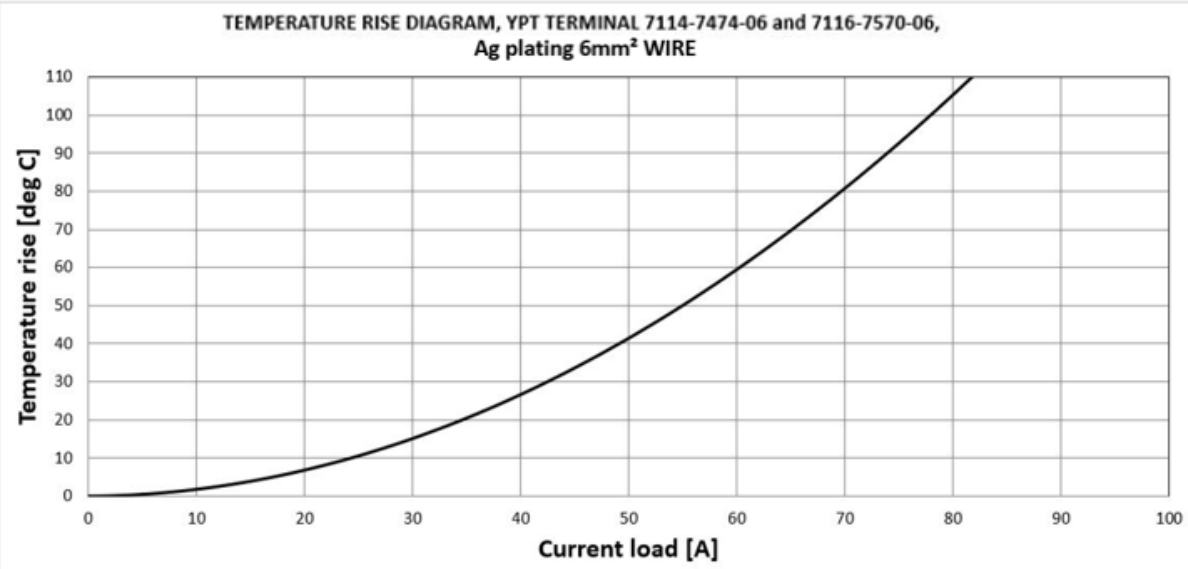


Diagram 13

Diagramm 13

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