

## Maximum usable current when combining AITB 16 with ZQV 10N/2 cross-connections

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Dear Sir or Madam,

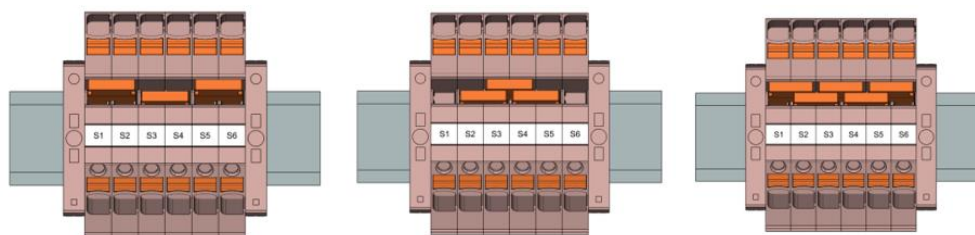
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we would like to inform you that we have tested our terminal blocks AITB 16 with a pitch of 10 mm in different combinations with the cross-connection ZQV 10N/2. The products have been subjected to a heating test, in order to allow an increased current. These tests were carried out in accordance with the IEC 60947-7-1 standard, sections 7.2.1 and 8.4.5.

Detmold, 31.05.2023

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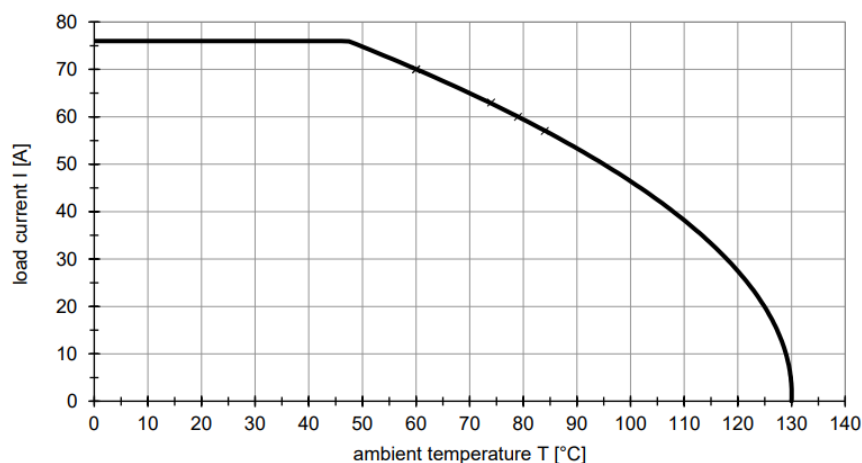
The products were tested in three different combinations or setups with different current ratings (70 A, 63 A, 60 A and 57 A). Based on the results of the tests, a current heating curve was created which shows the current-carrying capacity depending on the maximum ambient temperature.



The tests have shown that with a connected conductor cross-section of 16 mm<sup>2</sup>, the cross-connections can be operated up to 76 A at an ambient temperature of up to 48 °C. For the common current rating of 63 A in building applications, operation at an ambient temperature of up to 70 °C is possible.

### Current heating curve test setup 3

AITB 16 with ZQV 10N / H07V-R16 / max. heating of ZQV 10 between S15/S16



With kind regards,

Arne Dietz  
Product Support Manager

Wolfgang Weltermann  
Strategic Product Manager

**Weidmüller** – Partner in Industrial Connectivity  
We look forward to sharing ideas with you – **Let's connect.**

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Kommanditgesellschaft

Sitz: Detmold  
Amtsgericht Lemgo HRA 2790  
USt-ID-Nr. DE124599660

Komplementärin:

Weidmüller Interface  
Führungsgesellschaft mbH  
Sitz: Detmold

Amtsgericht Lemgo HRB 3924

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