

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

Dear Sir or Madam,

Weidmüller Interface GmbH & Co. KG
Klingenbergsstraße 26
32758 Detmold
Germany
T +49 5231 14-0
F +49 5231 14-292083

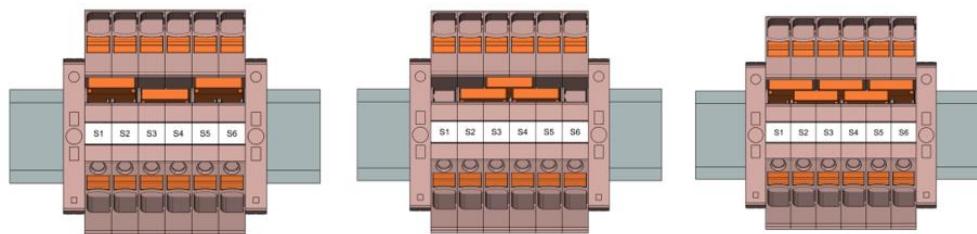
Arne Dietz
T +49 5231 14-291615
arne.dietz@weidmueller.com

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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.

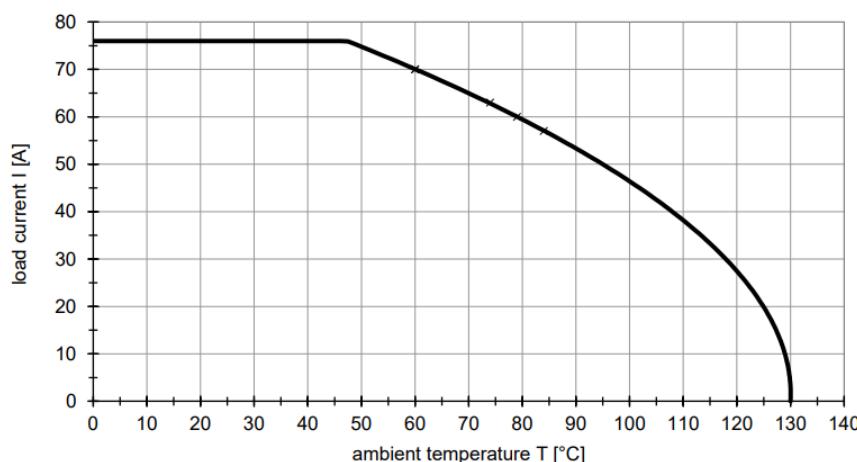
The products were tested in three different combinations or setups with different current ratings (70 A, 63 A, 60 A and 57 A). Based on the results of the tests, a current heating curve was created which shows the current-carrying capacity depending on the maximum ambient temperature.



The tests have shown that with a connected conductor cross-section of 16 mm², 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.**

Weidmüller Interface GmbH & Co. KG
Klingenbergsstraße 26, 32758 Detmold, Germany

Kommanditgesellschaft

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

Komplementärin:

Weidmüller Interface
Führungsgesellschaft mbH
Sitz: Detmold

Amtsgericht Lemgo HRB 3924
Geschäftsführer:

Timo Berger
Volker Bibelhausen
André Somecki

Bankverbindungen:

Commerzbank AG
IBAN: DE27 4808 0020 0283 3128 00
BIC: DRESDEFF480

Deutsche Bank
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BIC: DEUTDE3B476