

Version: 19th May 2021**wöhner**

Important information on the use of CrossBoard® components on basic system adapters 32277, 32278



The short-circuit capacity of the combination of basic system adapter, CrossBoard® component and short-circuit protection device (SCPD) must be determined by the user based on the cut-off current of the SCPD. Any SCPD which limits the short-circuit current below the listed cut-off current may be used under the specified installation and operating conditions.









Example:








Combination of basic system adapter item no. 32277 + adapter item no. 32690 with circuit breaker (CB) Eaton NZMH1




- Cut-off current of the CB at I_{cc} 100 kA is 26 kA
- The condition (lower than the listed max. cut-off current of 30 kA) is met






--> **Result: the combination has a conditional short-circuit current (I_{cc}) of 100 kA**

| Picture | Part No. | Description | Type number | Max. cut-off current | Condition |
|---|----------|--|-------------|----------------------|---|
|  | 32690 | Adapter 160 A, with CrossLink®-interface | EQ90-AA | 30 kA | With a maximum cut-off current of 30 kA of the applying circuit breakers, no further test certificates are required. Design verification, based on short-circuit tests, showed that 160 A adapters can withstand cut-off currents of 30 kA during at least 30 ms. |
|  | 32691 | Adapter 160 A, with CrossLink®-interface | EQ90-AB | 30 kA | The conditional short-circuit current of the combination adapter/circuit breaker is determined by the cut-off current of the circuit breaker. The maximum cut-off current according to the table must be observed. |

| Picture | Part No. | Description | Type number | Max. cut-off current | Condition |
|---|----------|--|-------------|----------------------|--|
|  | 32666 | Adapter 16 A, with CrossLink®-interface, 2.5 mm² | EQ45-AA | 4 kA | <p>The short-circuit capacity of the combination of busbar adapter and switching device is determined by the current limitation of the switching device.</p> <p>The maximum cut-off current according to the table must be observed.</p> |
|  | 32682 | Adapter 32 A, with CrossLink®-interface, 4 mm² | EQ45-AC | 7,2 kA | |
|  | 32668 | Adapter 16 A, with CrossLink®-interface, 2.5mm² | EQ45-BA | 4 kA | |
|  | 32669 | Adapter 16 A, with CrossLink®-interface, 2.5 mm² | EQ45-BA | 4 kA | |
|  | 32676 | Adapter 25 A, with CrossLink®-interface, 4 mm² | EQ45-BB | 4 kA | |
|  | 32684 | Adapter 32 A, with CrossLink®-interface, 6 mm² | EQ45-BC | 7.4 kA | |
|  | 32686 | Adapter 32 A, with CrossLink®-interface, 6 mm² | EQ45-BC | 7.4 kA | |
|  | 32692 | Adapter 45 A, with CrossLink®-interface, 10 mm² | EQ45-BD | 8.8 kA | |

| Picture | Part No. | Description | Type number | Max. cut-off current | Condition |
|---|----------|--|-------------|----------------------|--|
|  | 32300 | Adapter 16 A, with CrossLink®-interface 2.5 mm² | EQ18-AA | 4 kA | <p>1. The short-circuit capacity of the combination of busbar adapter and miniature circuit breaker is determined by the miniature circuit breaker. The maximum cut-off current of 4 kA must not be exceeded.</p> <p>2. The short-circuit breaking capacity of the miniature circuit breaker must be at least as large as the RMS value of the short-circuit current that can be applied to the system.</p> <p>The following were also demonstrated by way of example: fuses (e.g. 10x38 gG, Class CC) 16 A max. 50 kA; motor starter 16 A max. 65 kA</p> |
|  | 32301 | Adapter 16 A, with CrossLink®-interface 2.5 mm² | EQ18-AA | 4 kA | |
|  | 32302 | Adapter 16 A, with CrossLink®-interface 2.5 mm² | EQ18-AA | 4 kA | |
|  | 32307 | Adapter 63 A, with CrossLink®-interface 10 mm² | EQ18-AD | 9.5 kA | <p>1. The short-circuit capacity of the combination of busbar adapter and miniature circuit breaker is determined by the miniature circuit breaker. The maximum cut-off current of $I_d = 9.5$ kA must not be exceeded.</p> <p>2. The short-circuit breaking capacity of the miniature circuit breaker must be at least as large as the RMS value of the short-circuit current that can be applied to the system.</p> <p>The following were also demonstrated by way of example: fuses (e.g. 10x38 gG, Class CC) 32 A max. 50 kA; motor starter 65 A max. 65 kA</p> |
|  | 32308 | Adapter 63 A, with CrossLink®-interface 10 mm² | EQ18-AD | 9.5 kA | |
|  | 32309 | Adapter 63 A, with CrossLink®-interface 10 mm² | EQ18-AD | 9,5 kA | |
|  | 36009 | Adapter 16 A, with CrossLink®-interface lead 2.5 mm² | EQ22-A1 | | The short-circuit capacity is determined by the fuses used. Fuses max. 16 A (e.g. 10x38 gG, Class CC), max. 50 kA (conditional rated short-circuit current). For mounting please remove the inverse-polarity protection on the back. |

| Picture | Part No. | Description | Type number | Max. cut-off current | Condition |
|---|----------|---|-------------|----------------------|---|
|  | 36050 | Switch-disconnector-fuse, 3-pole | | | The short-circuit capacity is determined by the fuses used. Fuses max. 16 A (e.g. 10x38 gG, Class CC), max. 50 kA (conditional rated short-circuit current). For mounting please remove the inverse-polarity protection on the back. |
|  | 33800 | QUADRON®CrossBoard NH fuse-switch-disconnector size 000, 125 A | QU-NH000 | | <p>The short-circuit capacity is determined by the fuses used. Fuses max. 125 A, NH 000 gG, max. 80 kA (conditional rated short-circuit current)</p> <p>The total of the operating currents must not exceed 160 A for one CrossBoard® interface.</p> <p>Regardless of this, the required rated load factors must be taken into account for each disconnector. These depend on the combined arrangement and the air temperature at the place of use.</p> |
|  | 01593 | CRITO®CrossBoard connection module 50 mm², 3-pole | CR45-A | | The short-circuit capacity is determined by the fuses arranged on the output side. Requirements for short-circuit-proof installation are to be taken into account according to IEC 61439-1. Fuses max. 125 A, NH 000 gG, max. 80 kA (conditional rated short-circuit current) |

| Picture | Part No. | Description | Type number | Max. cut-off current | Condition |
|---|-------------------------|--|-------------------------------|----------------------|---|
|  | 36200 | BROOME10®CrossBoard power supply 400 V AC / 24 V DC, 10 A | BROOME 10 | | Can be used without restricting the short-circuit current. |
|  | 36154 | OMUS®CrossBoard hybrid switch, 3-pole or 1-pole switchable electronic unit, 25 A (IEC) | OM25-H | | The maximum RMS value of the short-circuit current that can be applied to the system must not exceed 30 kA. For more information on short-circuit capacity, see the OMUS® operating manual. For mounting please remove the inverse-polarity protection on the back. |
|  | 36109 36110 36111 | MOTUS®CrossBoard hybrid motor starter, 3-pole | 36109.1 36110.1 36111.1 | | The maximum RMS value of the short-circuit current that can be applied to the system must not exceed 50 kA. This applies to the factory-installed fuses (max. 20 A). For more information on short-circuit capacity, see the MOTUS® operating manual. |
|  | 36130 36131 | MOTUS®CrossBoard hybrid motor starter, 3-pole with IO-Link | 36130 36131 | | The maximum RMS value of the short-circuit current that can be applied to the system must not exceed 50 kA. This applies to the factory-installed fuses (max. 20 A). For more information on short-circuit capacity, see the MOTUS® IO-Link operating manual. |
|  | 36258 | MOTUS®C14 | MOTUS C14-2,6- C+ | | The maximum RMS value of the short-circuit current that can be applied to the system must not exceed 100 kA. For more information on short-circuit capacity, see the MOTUS®C14 operating manual. |