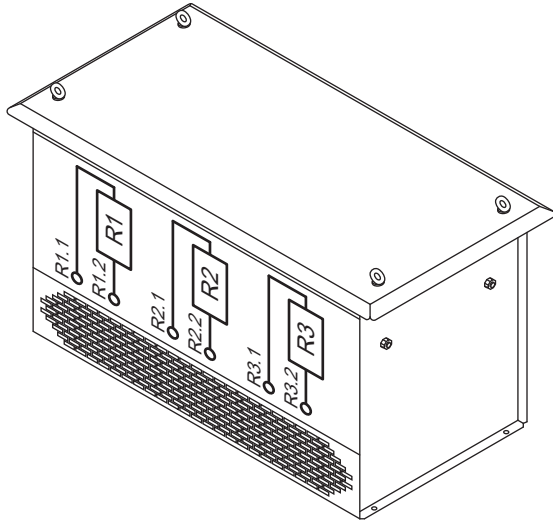




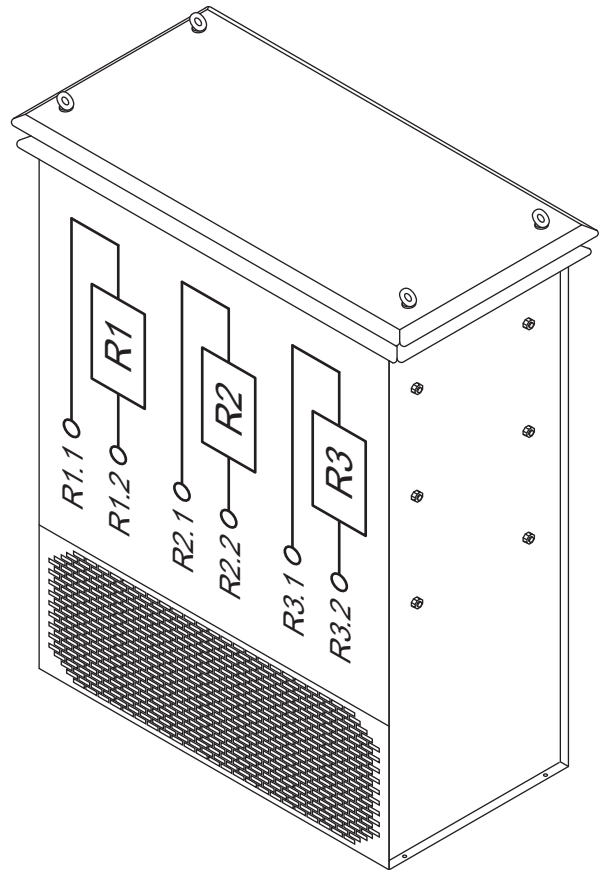
NHA3717301

Altivar Process Drive Systems Option Braking resistor



	Ω	kW
VW3 A7 790	3x 6,7 Ω	20kW (40°C)

	Ω	kW
VW3 A7 791	3x 6,7 Ω	60kW (40°C)



Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this product.

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DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Only appropriately trained persons who are familiar with and understand the contents of this manual and all other pertinent product documentation and who have received safety training to recognize and avoid hazards involved are authorized to work on and with this drive system. Installation, adjustment, repair and maintenance must be performed by qualified personnel.
- The system integrator is responsible for compliance with all local and national electrical code requirements as well as all other applicable regulations with respect to grounding of all equipment.
- Many components of the product, including the printed circuit boards, operate with mains voltage. Do not touch. Use only electrically insulated tools.
- Only use properly rated, electrically insulated tools and measuring equipment.
- Do not touch unshielded components or terminals with voltage present.
- Motors can generate voltage when the shaft is rotated. Prior to performing any type of work on the drive system, block the motor shaft to prevent rotation.
- AC voltage can couple voltage to unused conductors in the motor cable. Insulate both ends of unused conductors of the motor cable.
- Do not short across the DC bus terminals or the DC bus capacitors or the braking resistor terminals.
- Before performing work on the drive system:
 - Disconnect all power, including external control power that may be present. Take into account that the circuit breaker or main switch does not de-energize all circuits.
 - Place a "Do Not Turn On" label on all power switches related to the drive system.
 - Lock all power switches in the open position.
 - Wait 15 minutes to allow the DC bus capacitors to discharge.
- Measure the voltage (in AC mode and in DC mode) using a properly rated voltmeter on the mains input and the motor output terminals between the phases and between each phase and ground to verify that no hazardous voltage is present.
 - If there is still hazardous voltage present on the terminals, contact your local Schneider Electric representative. Do not repair or operate the product.
 - Verify that there is no other voltage present on the drive system.
 - Ground and short-circuit the mains and motor terminals.
- Before applying voltage to the drive system:
 - Verify that the work has been completed and that the entire installation is in a safe condition and cannot cause hazards.
 - Remove the ground and short circuits on mains and motor terminals.
 - Verify that all protective equipment such as covers, doors, grids is installed and/or closed.

Failure to follow these instructions will result in death or serious injury.

The temperature of the products described in this manual may exceed 250 °C during operation.

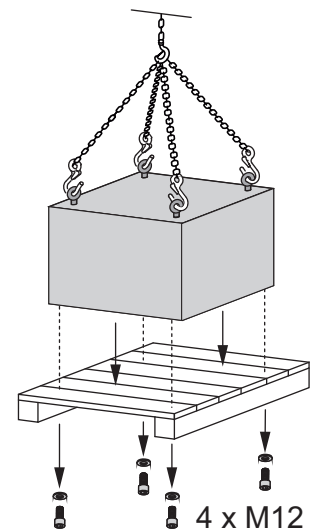
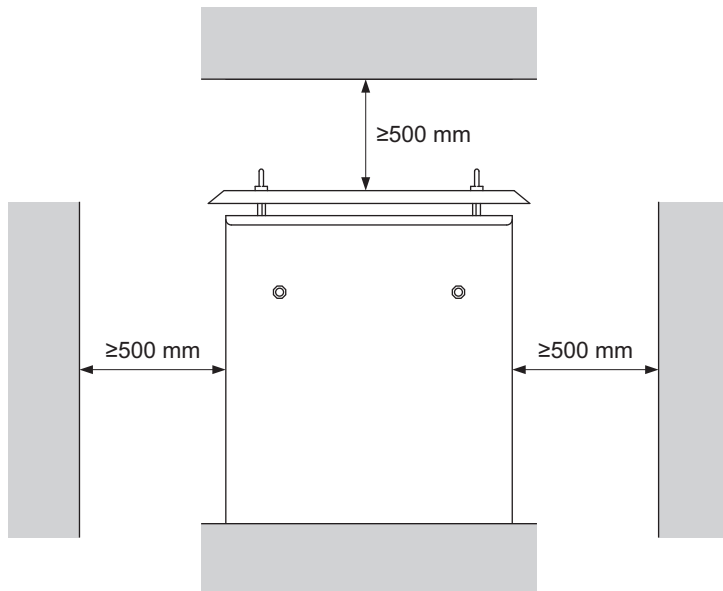
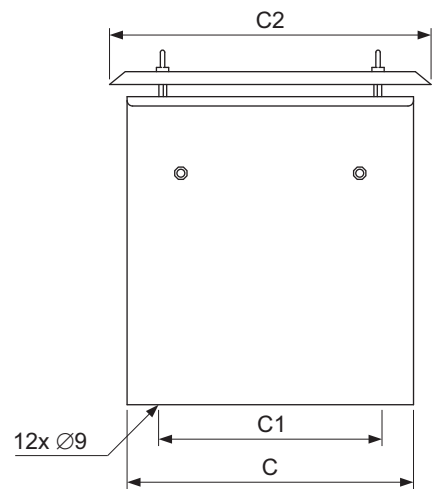
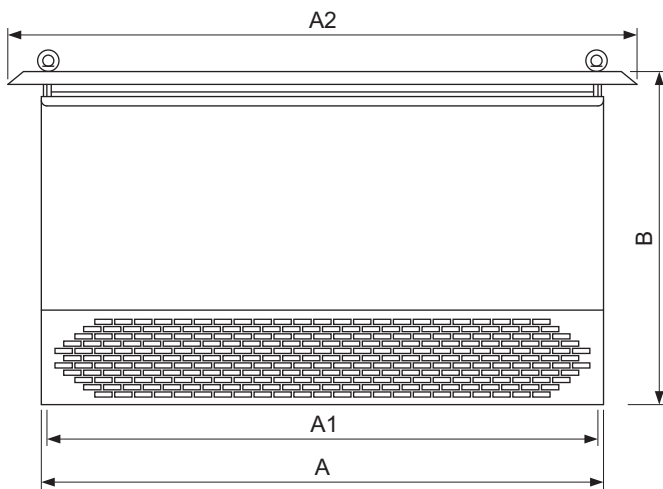
WARNING

HOT SURFACES

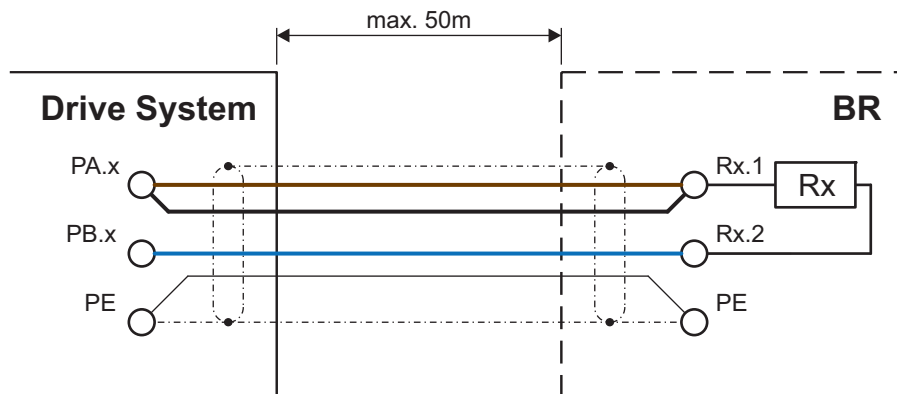
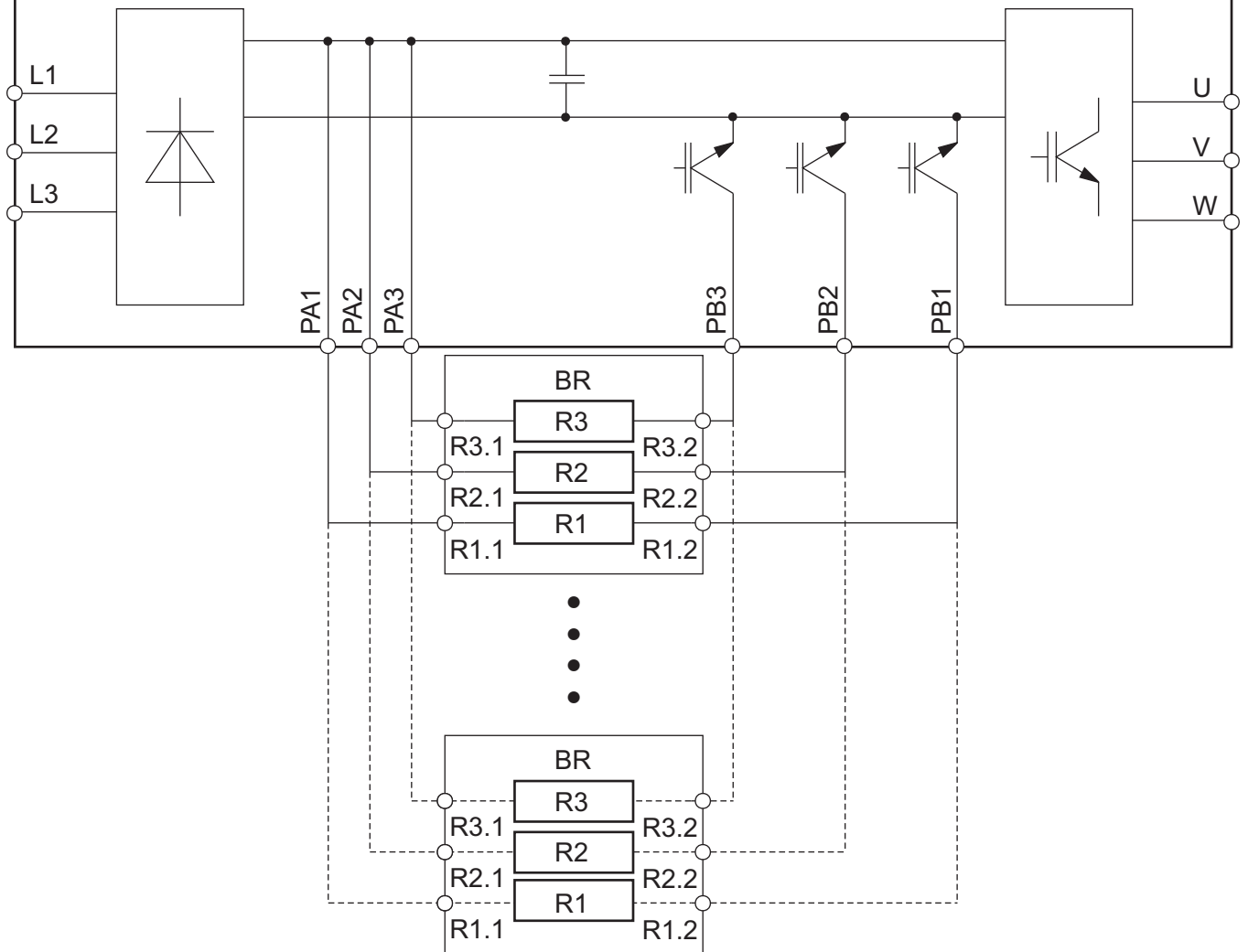
- Ensure that any contact with hot surfaces is avoided.
- Do not allow flammable or heat-sensitive parts in the immediate vicinity of hot surfaces.
- Verify that the product has sufficiently cooled down before handling it.
- Verify that the heat dissipation is sufficient by performing a test run under maximum load conditions.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

	A	B	C	A1	C1	A2	C2	Ø	
	mm	mm	mm	mm	mm	mm	mm	mm	kg
VW3A7790	940	605	565	920	380	1060	540	9x 12	48.5
VW3A7791	940	1285	485	920	380	1060	540	9x 12	126



ATV960 / ATV980 Single Drive Systems + BUO 1c / 2c
 ATV990 MultiDrive Systems + BUO 1mc / 2mc

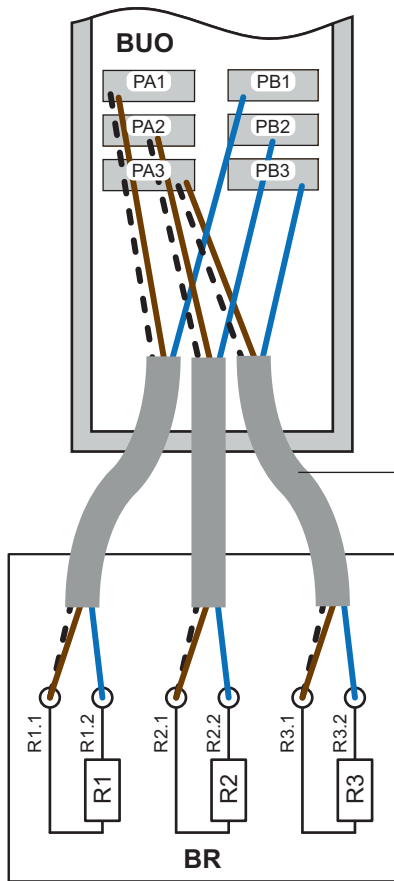


The shield and the protective conductor must be connected to the intended PE terminals inside the inverter as well as inside the braking resistors.

Schirm und PE-Leiter müssen sowohl im Umrichter als auch in den Bremswiderständen an die vorgesehenen PE-Anschlüsse geklemmt werden.

Wiring of the braking unit option BUO 1c / 1mc for 160 kW

Verdrahtung der Bremsstelloption BUO 1c / 1mc für 160 kW



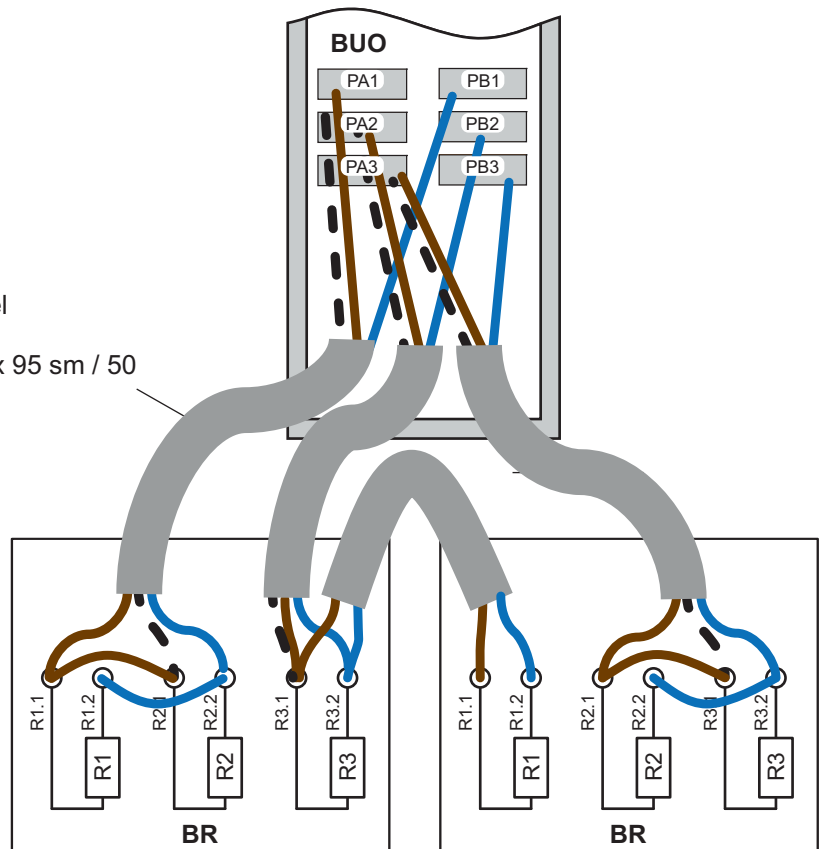
3 cables | Kabel
 3x 70 mm²
 e.g. NYCWY 3x 70 sm / 35

(two conductors for the connection PAX to Rx.1,
 one conductor for PBy to Ry.2)
 (zwei Leiter für die Verbindung PAX auf Rx.1,
 ein Leiter für PBy auf Ry.2)

1x 3-phase braking resistor BR
 (1x BR 6,7-3 / 20 or 1x BR 6,7-3 / 60)
 3x 6.7 Ohm
 1x 3-phasiger Bremswiderstand BR
 (1x BR 6,7-3 / 20 oder 1x BR 6,7-3 / 60)
 3x 6,7 Ohm

Wiring of the braking unit option BUO 1c / 1mc for 315 kW

Verdrahtung der Bremsstelloption BUO 1c / 1mc für 315 kW



3 cables | Kabel
 3x 95 mm²
 e.g. NYCWY 3x 95 sm / 50

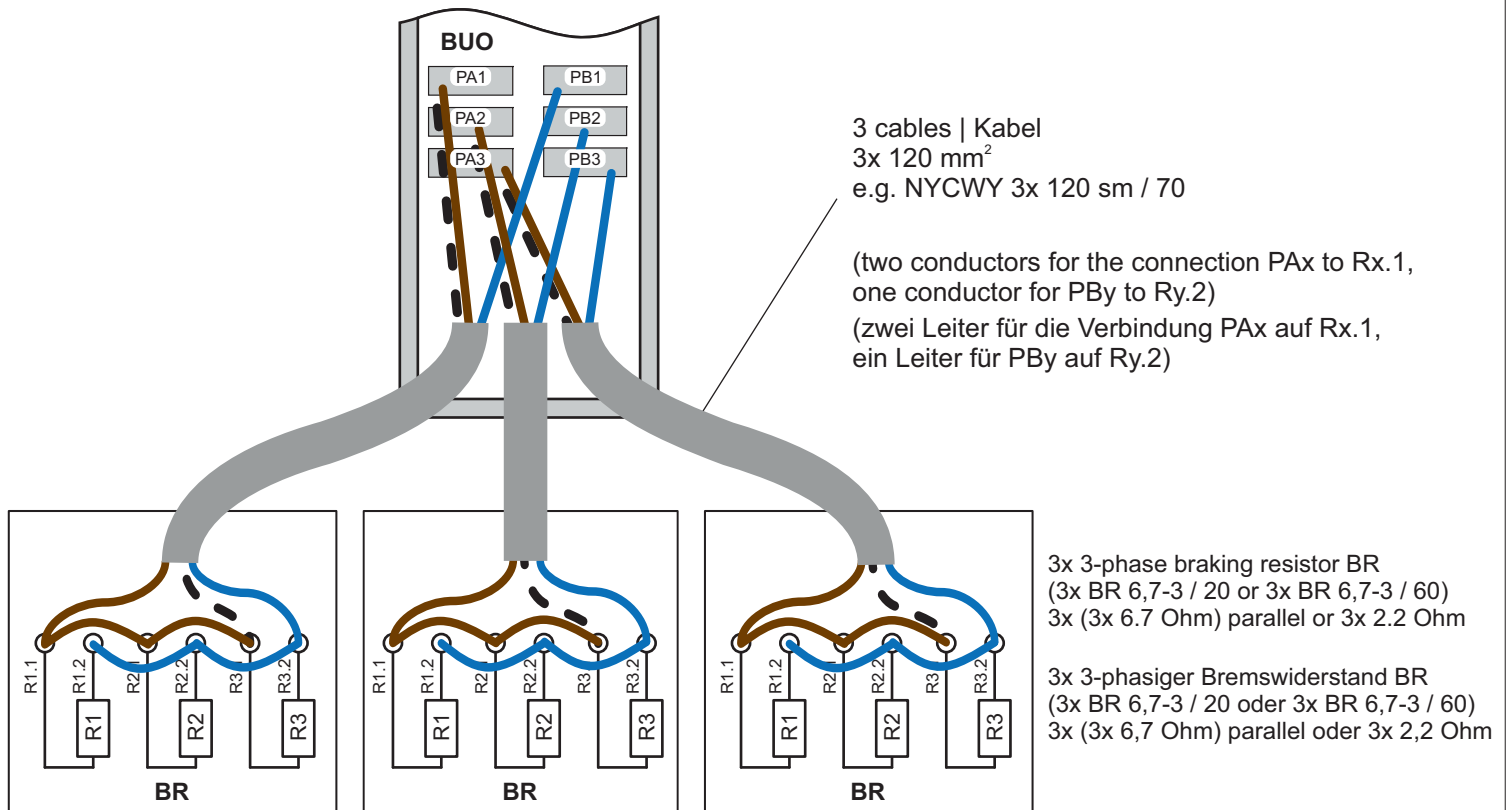
(two conductors for the connection PAX to Rx.1,
 one conductor for PBy to Ry.2)
 (zwei Leiter für die Verbindung PAX auf Rx.1,
 ein Leiter für PBy auf Ry.2)

2x 3-phase braking resistor BR
 (2x BR 6,7-3 / 20 or 2x BR 6,7-3 / 60)
 2x (3x 6.7 Ohm) parallel or 3x 3.4 Ohm

2x 3-phasiger Bremswiderstand BR
 (2x BR 6,7-3 / 20 oder 2x BR 6,7-3 / 60)
 2x (3x 6,7 Ohm) parallel oder 3x 3,4 Ohm

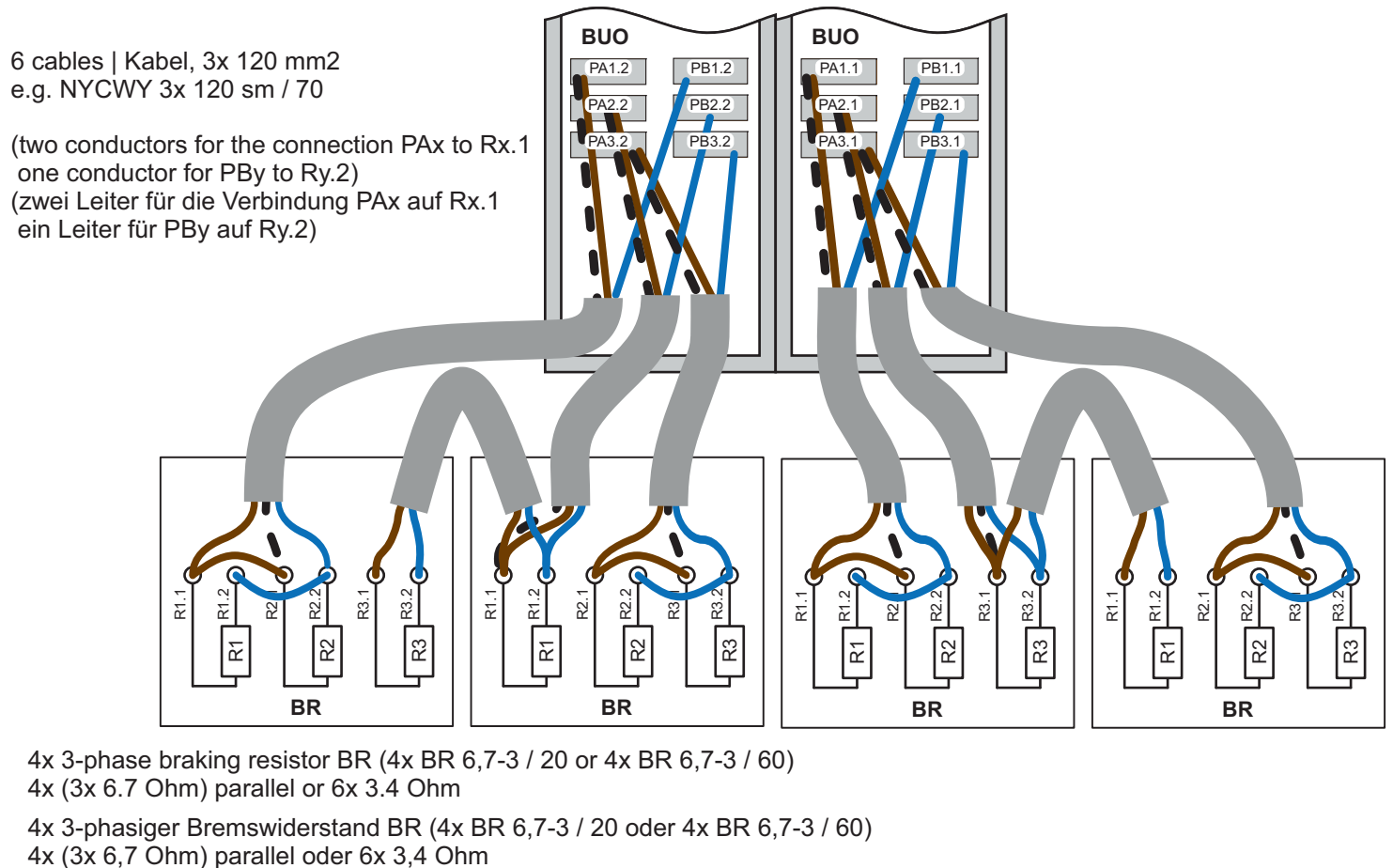
Wiring of the braking unit option BUO 1c / 1mc for 500 kW

Verdrahtung der Bremsstelloption BUO 1c / 1mc für 500 kW



Wiring of the braking unit option BUO 2c / 2mc for 630 kW

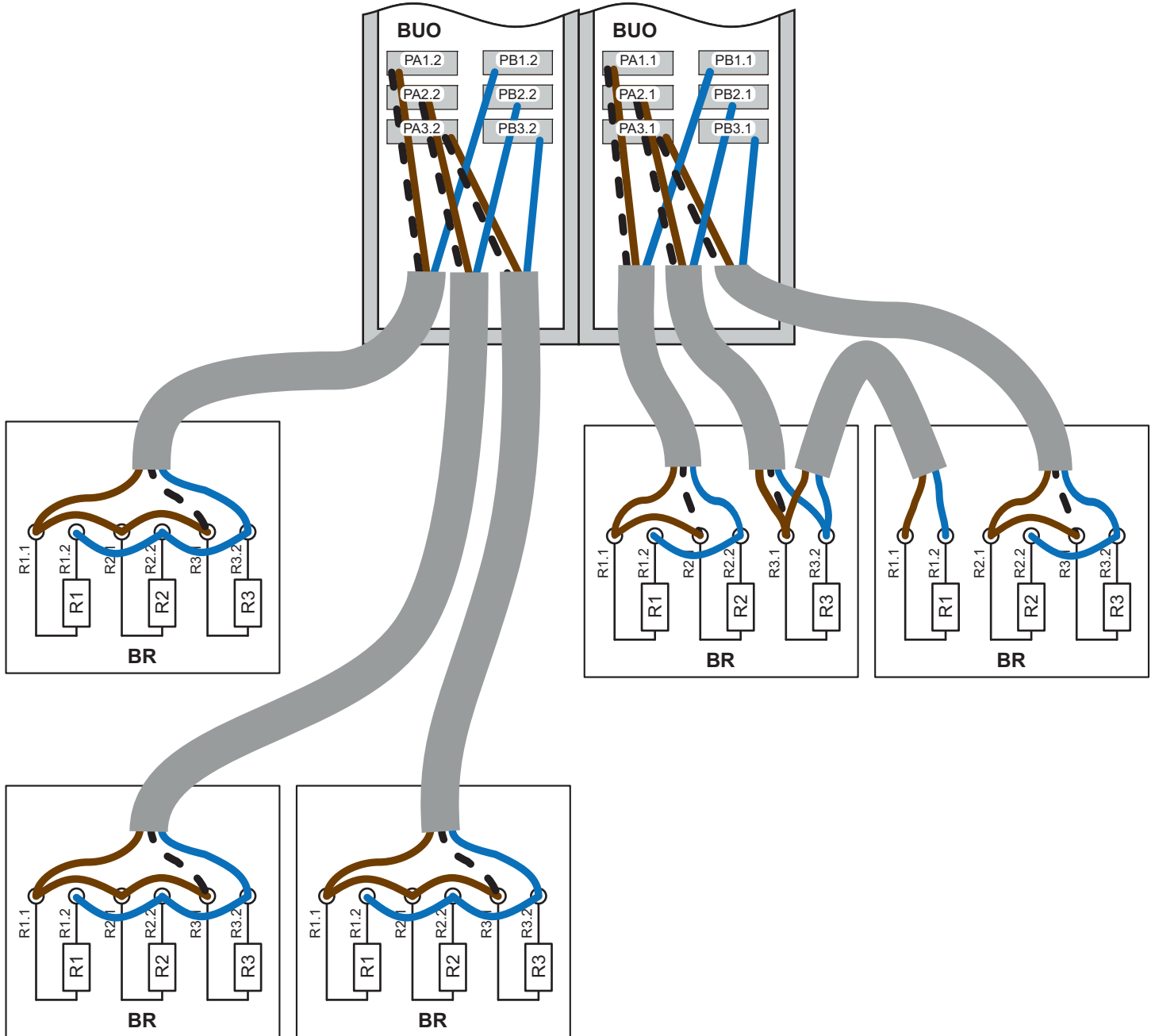
Verdrahtung der Bremsstelloption BUO 2c / 2mc für 630 kW



Wiring of the braking unit option BUO 2c / 2mc for 800 kW Verdrahtung der Bremsstelleroption BUO 2c / 2mc für 800 kW

6 cables | Kabel, 3x 120 mm²
e.g. NYCWY 3x 120 sm / 70

(two conductors for the connection PAX to Rx.1, one conductor for PBy to Ry.2)
(zwei Leiter für die Verbindung PAX auf Rx.1, ein Leiter für PBy auf Ry.2)



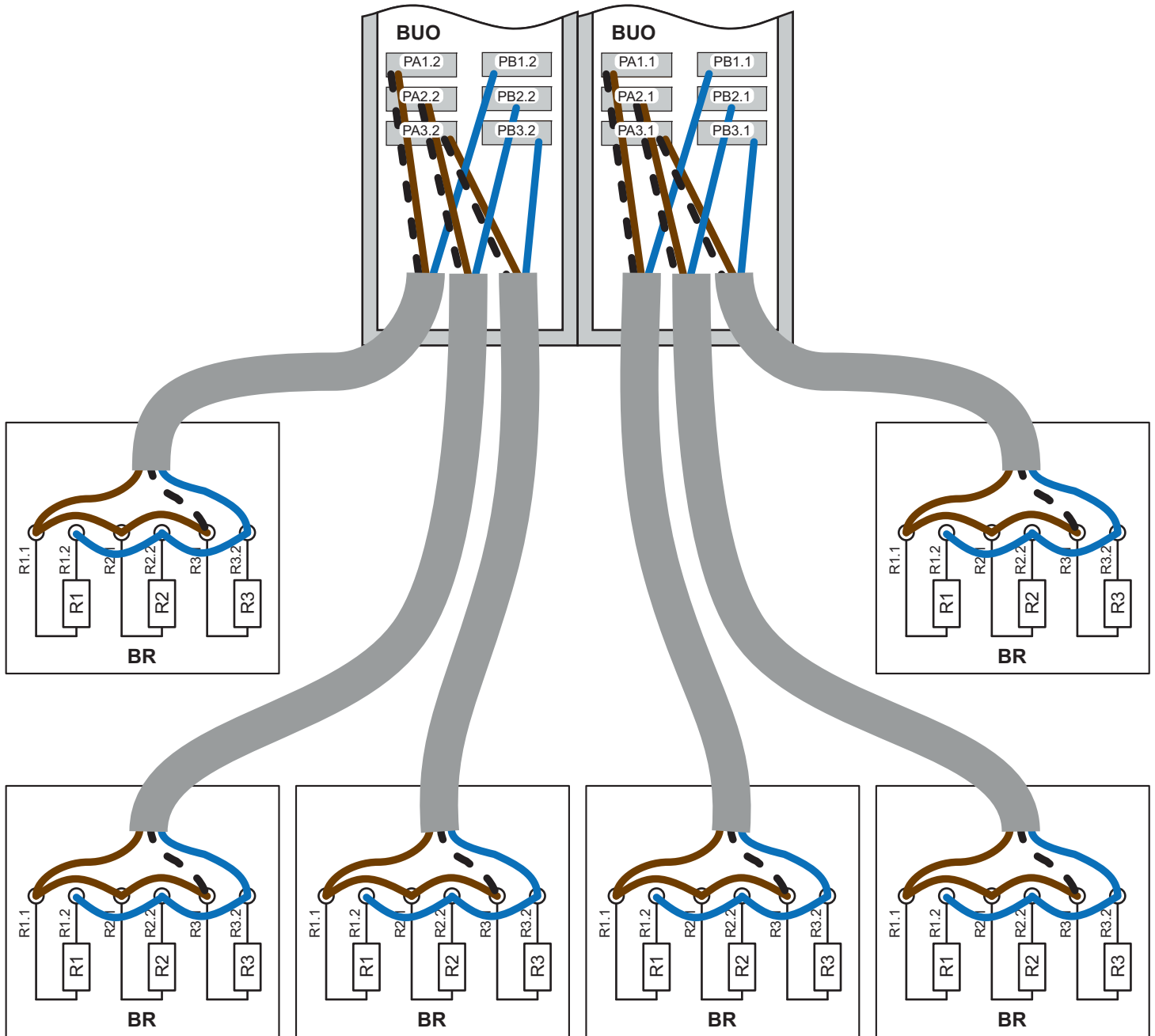
5x 3-phase braking resistor BR (5x BR 6,7-3 / 20 or 5x BR 6,7-3 / 60)
(3 + 2)x (3x 6,7 Ohm) parallel or 6x 2,7 Ohm

5x 3-phasiger Bremswiderstand BR (5x BR 6,7-3 / 20 oder 5x BR 6,7-3 / 60)
(3 + 2)x (3x 6,7 Ohm) parallel oder 6x 2,7 Ohm

Wiring of the braking unit option BUO 2c / 2mc for 1000 kW Verdrahtung der Bremsstelleroption BUO 2c / 2mc für 1000 kW

6 cables | Kabel, 3x 120 mm²
e.g. NYCWY 3x 120 sm / 70

(two conductors for the connection PAX to Rx.1, one conductor for PBy to Ry.2)
(zwei Leiter für die Verbindung PAX auf Rx.1, ein Leiter für PBy auf Ry.2)



6x 3-phase braking resistor BR (6x BR 6,7-3 / 20 or 6x BR 6,7-3 / 60)
6x (3x 6.7 Ohm) parallel or 6x 2.2 Ohm

6x 3-phasiger Bremswiderstand BR (6x BR 6,7-3 / 20 oder 6x BR 6,7-3 / 60)
6x (3x 6,7 Ohm) parallel oder 6x 2,2 Ohm