



electric devices

Catalog

Converters/Transformers
Undercar high voltage boxes
Electric control blocks
Filter chokes/Inductive filters
Electrical switching devices
Resistors

CONVERTERS/ TRANSFORMERS

Converter SHPSU-90

Nominal power 750V-1MW
Nominal voltage 750 V
Control circuit voltage 24 V

Converter 6TR.360.370

Manufactured under license of **ABB**

Rated power 1500kW
Rated voltage 3000V
Control circuit voltage 110V

Converter 6PS.003 U1

Rated power 180 kW
Rated voltage 550 V
Operating voltage range 400-720 V
Maximum input operating current
in traction mode at rated voltage 400A



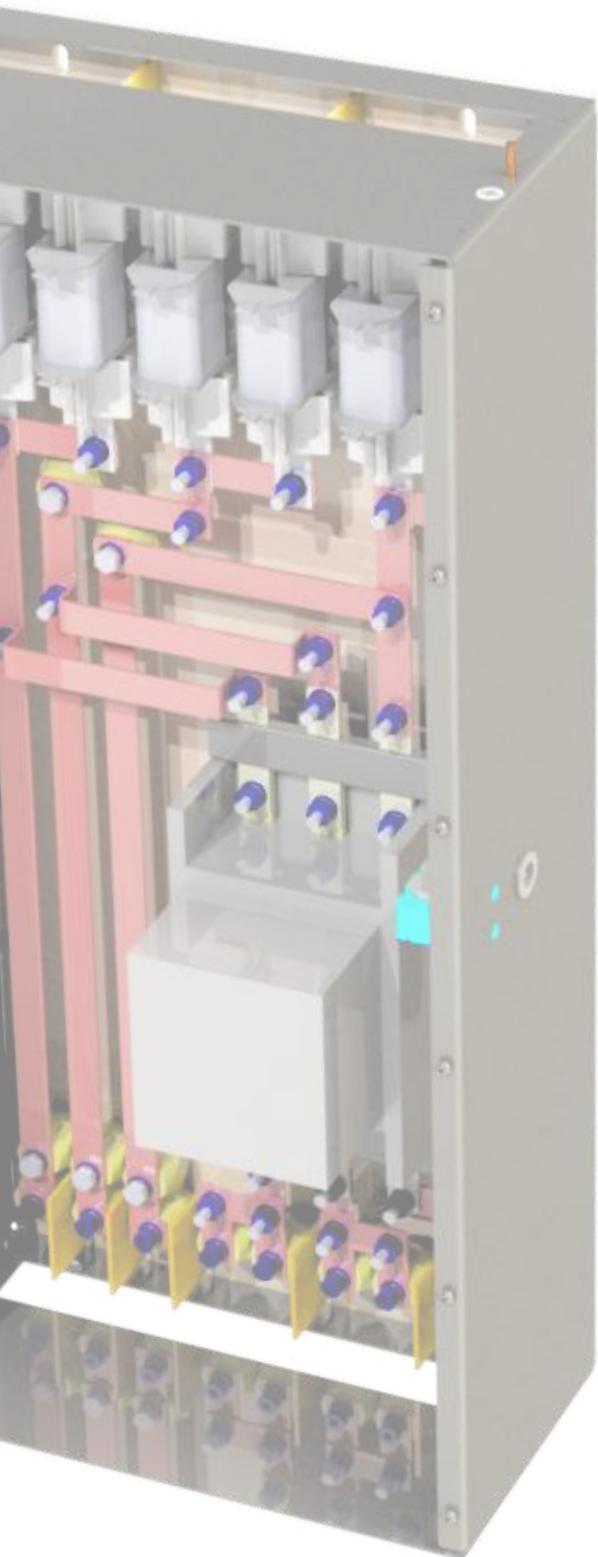
Transformer 1TR.021 U3

Number of phases 3
Primary winding voltage 220V
Voltage of secondary windings 85/34V
Current of secondary windings 32/9A
Power 5,0 kVA



UNDERCAR HIGH VOLTAGE BOXES

Voltage more than 1000 V



1JA.070.47 U1

High voltage brake switches, field contactor, current sensors, fuses, switching diodes

1JA.071.47 U1

High voltage power controller, reversers, disconnectors, reed relays of boxing and voltage, intermediate relays

1JA.072.49 U1

High-voltage fuses, interior heating contactors 1KM.016, additional car contactor (Head non-motor car)

1JA.072.47 U1

High-voltage fuses, interior heating contactors 1KM.016, additional car contactor (Non-motor car)

1JA.128.16 U1

Unilateral maintenance.
With high voltage heating switching and protection control devices.

1JAK.013.50 U1

High-voltage power contactors, short-circuit protection contactor with BUKZ control unit, differential relay, TRV transformer

FILTER CHOKES/ INDUCTIVE FILTERS

Filter choke 1DR.050

Nominal voltage, relative to grounded parts, V 3000

Nominal current when blowing (12...15) m/s, A 300

Inductance at a frequency of 50 Hz, mH, not less than 0.250

Is intended for reduction of radiointerferences that arise while direct current trains are operated.

Inductive filter FS-3B-3

Nominal voltage, relative to grounded parts, V 25,000

Nominal current when blowing (12...15) m/s, A 45

Inductance at a frequency of 50 Hz, mH, not less than 1.6

Is intended for protection against radiointerferences that arise while alternate current trains are operated.

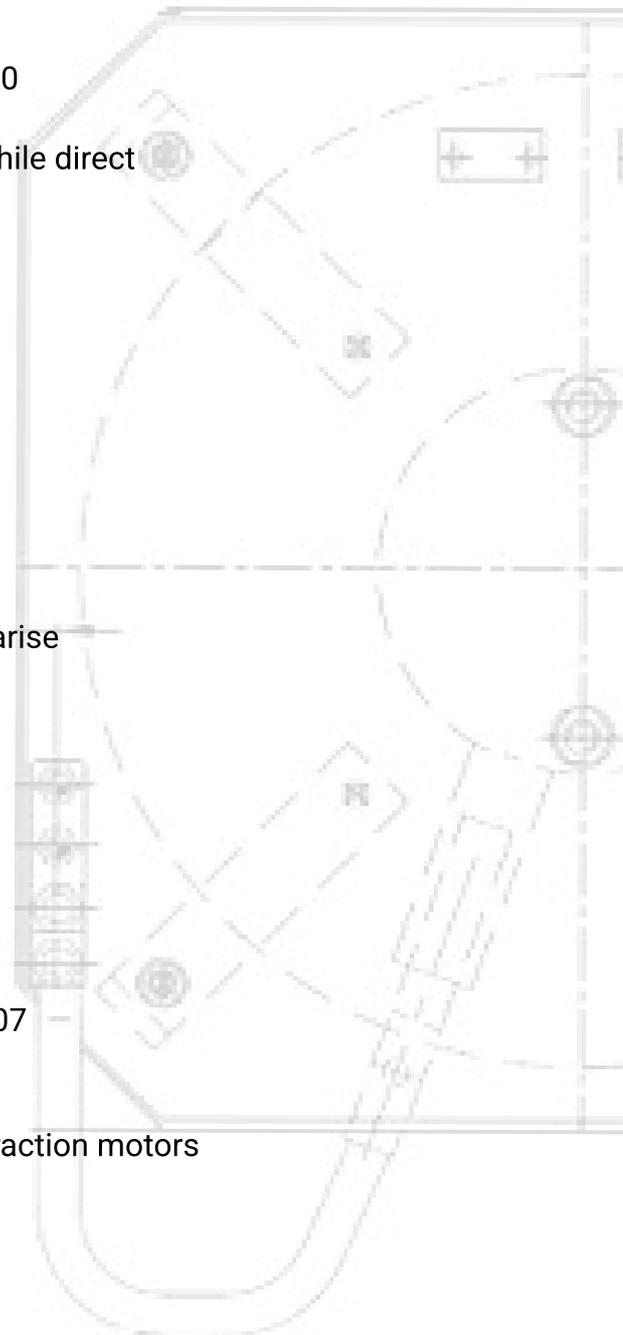
Inductive shunt 1SHI.001.3 1SHI.004

Nominal voltage, V 3000

Nominal current of coils at blowing speed (4...6) m/s, A 107

Winding inductance, mH, not less than 50/50

Is intended for short-circuit current build-up limitation in traction motors circuits of direct current electric train.



ELECTRIC CONTROL BLOCKS

Voltage less than 1000V

1B.248.43 U3 block

Is intended for static exciter bridges and BET electrodynamic braking control units.

1B.249.43 U3 block

Is intended for traction, brake, heating, lighting, electropneumatics control equipment, TrV protection. BRUM acceleration regulator unit.

1B.250.43 U block

Is intended for auxiliary compressor, circuit breaker, safety locking relay control equipment.

1B.251.43 U3 block

Is intended for compartment heating, ventilation and lighting, compressor, electropneumatics control equipment (Non-powered car).

1B.673.21 U

Is intended for TrV excitation transformer control.

1B.253.43 U3 block

Is intended for start and breaking, cab heating equipment, radio and ALSS power supply.

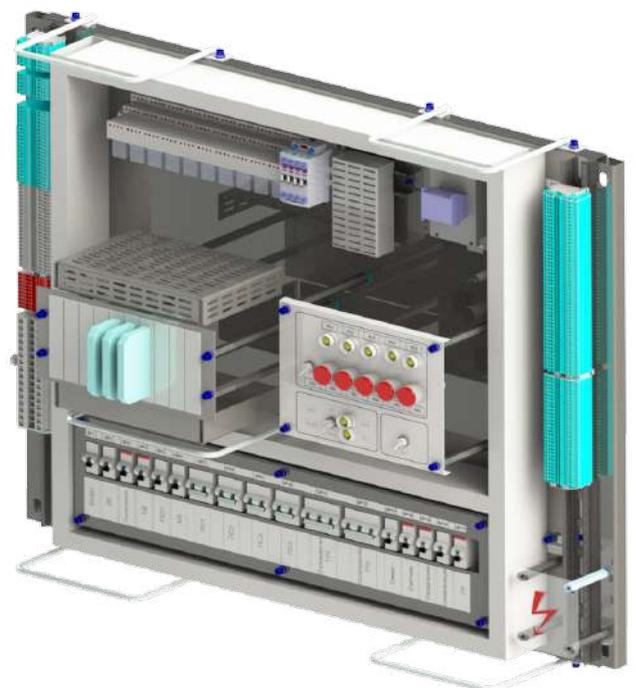
1B.256.43 U3 block

Compartment heating, ventilation and lighting, compressor, electropneumatics control equipment.

1PA.422.43 U3

1PA.422.44 U3

Is intended for protection, battery switching, auxiliary self-consumption converter, back-up control equipment. Control circuit rectifier 110V, indication (Non-powered car).



ELECTRICAL SWITCHING DEVICES

Electromagnetic contactor

1KM.016

1KM.020

Nominal voltage, V 3000

Nominal current (depending on version), A 5...100

Nominal control circuit voltage, V 50 or 110

Is intended for operative commutation of high voltage auxiliary circuits.

Electro pneumatic contactor

1KP.005

Nominal voltage, V 3000

Nominal current, A 400

Nominal control circuit voltage, V 110

Is intended for operative commutation of high voltage traction circuit.

High speed electromagnetic contactor

KMB

Is intended to protect the power electric circuits of electric train motor car of direct current from short-circuit currents, overloading, high voltage short circuit to frame.

BVP-105A-12U1 High speed switch

2TR.009.005-13

Nominal voltage 3000 V

Nominal current 250 A



RESISTORS

Blocks of excitation weakening resistors
and a short circuit protection contactor

1BS.095 U1

1BS.095.1 U1

Start/Brake Resistors

1BS.093 U1

1BS.093.6 U1

1BS.093.1 U1

1BS.094 U1

1BS.093.2 U1

1BS.094.1 U1

1BS.093.3 U1

1BS.094.2 U1

1BS.093.4 U1

1BS.095 U1

1BS.093.5 U1

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