

Our portfolio begins with electric equipment from the earliest origins of electric propulsion and continues with brand new products adapted to the developing trends in the industry.



All your business needs in one place

MANUFACTURING:

Electrical Equipment For Trains
Electrical Equipment For Passenger Cars
Electrical Equipment For The Subway
Urban Transport
Charging Stations For Electric Bus Transport
Renewable Energy Equipment

SERVICES:

Metalworking
Foundry Services
Impregnation And Winding Works
Laboratory Research
Repairs
SMD (Surface Mount Device)



RER Quality Of Operations

Our integrated management system is certified to ISO 9001:2015.

The implemented standards and procedures ensure efficient operation of all processes.

JSC RER performs welding according to the requirements of the European EN 15085-2 standard (Certificate ZE-16083-01-00-EN15085-2020.0118.004, certification level CL 2) and is ready to fulfill orders of any complexity.







TRACTION MOTORS

100 - 1000 kW Nominal voltage



1DTA.001U1

AC Motor For 3kVDC EMU Traction Drives

Nominal Power, 480 KW Nominal Voltage, 2340V Nominal Current, 141A Revolutions Per Minute, 1100

1DTA.002U2

AC Motor For 3kVDC EMU Traction Drives

Nominal Power, 300 KW Nominal Voltage, 2340V Nominal Current, 90A Revolutions Per Minute, 2363

5DTA.001U2

AC Motor For Underground Traction Drives

Nominal Power, 180 KW Nominal Voltage, 530V Nominal Current, 242A Revolutions Per Minute, 1480

DTA.380 U1

AC Motor For 3kVDC EMU Traction Drives

Nominal Power, 380 KW Nominal Voltage, 2200V Nominal Current, 121A Revolutions Per Minute, 2036

DTA.170 U2

AC Motor For Underground Traction Drives

Nominal Power, 170 KW Nominal Voltage, 530V Nominal Current, 234A Revolutions Per Minute, 1290

TAD.350.1-6 UHL2

AC Motor For Dump Truck

Nominal Power, 350 KW Nominal Voltage, 660V Nominal Current, 377A Revolutions Per Minute, 600

4DTA.001U1

AC Motor For Trams

Nominal Power, 105 KW Nominal Voltage, 430V Nominal Current, 178A Revolutions Per Minute, 1773

6DTA.002.1U2

AC Motor For Trolleybuses

Nominal Power, 180 KW Nominal Voltage, 420V Nominal Current, 310A Revolutions Per Minute, 1470

6DTA.002.2 U2

AC Motor For Trolleybuses

Nominal Power, 180 KW Nominal Voltage, 370V Nominal Current, 343A Revolutions Per Minute, 1470

6DTA.001 U1

AC Motor For Trolleybuses

Nominal Power, 125 KW Nominal Voltage, 370V Nominal Current, 241A Revolutions Per Minute, 1474



TRACTION MOTORS

AMC.002 U1

AC Asynchronous Motor

Nominal Power, 18 KW Nominal Voltage, 220V Nominal Current, 295A Revolutions Per Minute 1495

1TM.004 U1

DC Motor For 3kVDC EMU Traction Drives

Nominal Power, 440 KW Nominal Voltage, 1500V Nominal Current, 347A Revolutions Per Minute 590

1TM.001 U1

DC Motor For 3kVDC EMU Traction Drives

Nominal Power, 380 KW Nominal Voltage, 1500V Nominal Current, 295A Revolutions Per Minute 620

1DT.003.8

DC Motor For 3kVDC EMU Traction Drives

Nominal Power, 240 KW Nominal Voltage, 750V Nominal Current, 350A Revolutions Per Minute 1240

100 - 500 kW Nominal voltage

1DT.003.11

DC Motor For 3kVDC EMU Traction Drives

Nominal Power 220 KW Nominal Voltage, 825V Nominal Current, 285A Revolutions Per Minute 870

1DT.17K U1

DC Motor For 3kVDC EMU Traction Drives

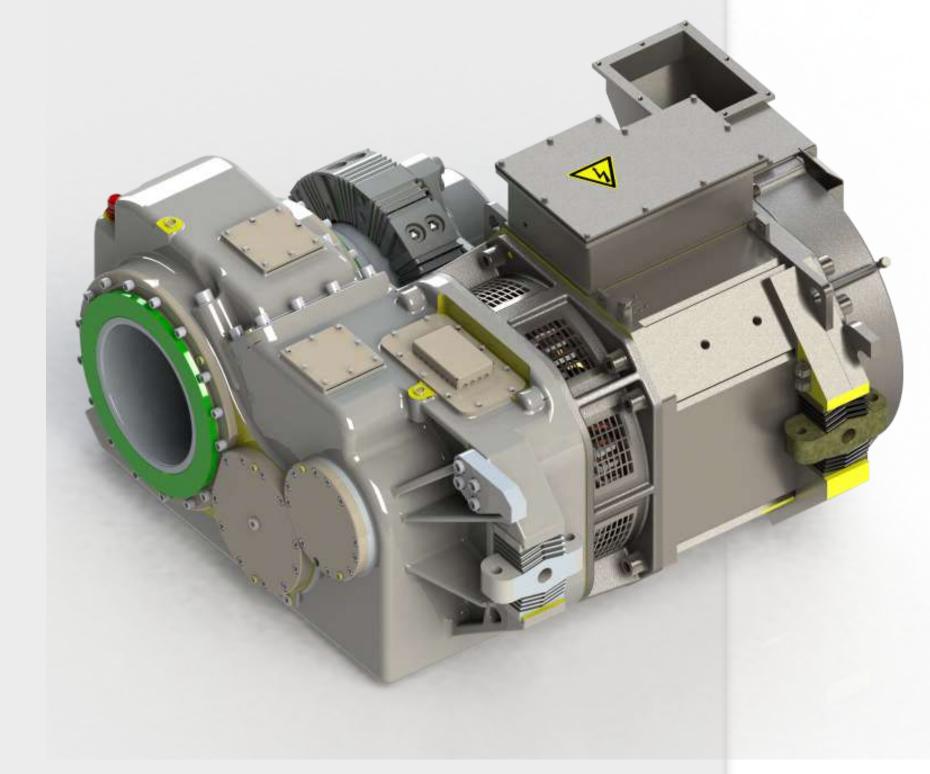
Nominal Power, 250 KW Nominal Voltage, 1500V Nominal Current, 184A Revolutions Per Minute 780





AC MOTOR GEAR UNITS

AC Motor gear units for 3kVDC, 600DC



1MGU.001

AC Motor Gear Units For 3kVDC And 380kW EMU Traction Drives

Maximal Rotation Speed 4774rpm, Gear Ratio 6,590, Maximal Torque 2702Nm

FOR 3KVDC NETWORKS

1MGU.002

AC Motor Gear Units For 3kVDC And 300kW EMU Traction Drives

Maximal Rotation Speed 4650rpm, Gear Ratio 5,255

FOR 3KVDC NETWORKS

1MGU.004

AC Motor Gear Units Fo 600VDC And 180kW TRAM Traction Drives

Maximal Rotation Speed >10000rpm, Gear Ratio 5,255

FOR 600DC NETWORKS



ALTERNATORS

2GV.13 U1

110V Auxiliary Generator For Passenger Coaches

Nominal Power, 180 KW Nominal Voltage, 420V Nominal Current, 310A Revolutions Per Minute 1470

AUXILIARY ALTERNATORS

7GS.002

1kVDC Synchronous Traction Alternator

Nominal Power, 750 KW Nominal Voltage, 750V Nominal Current, 343A Revolutions Per Minute 1900

AUXILIARY ALTERNATORS

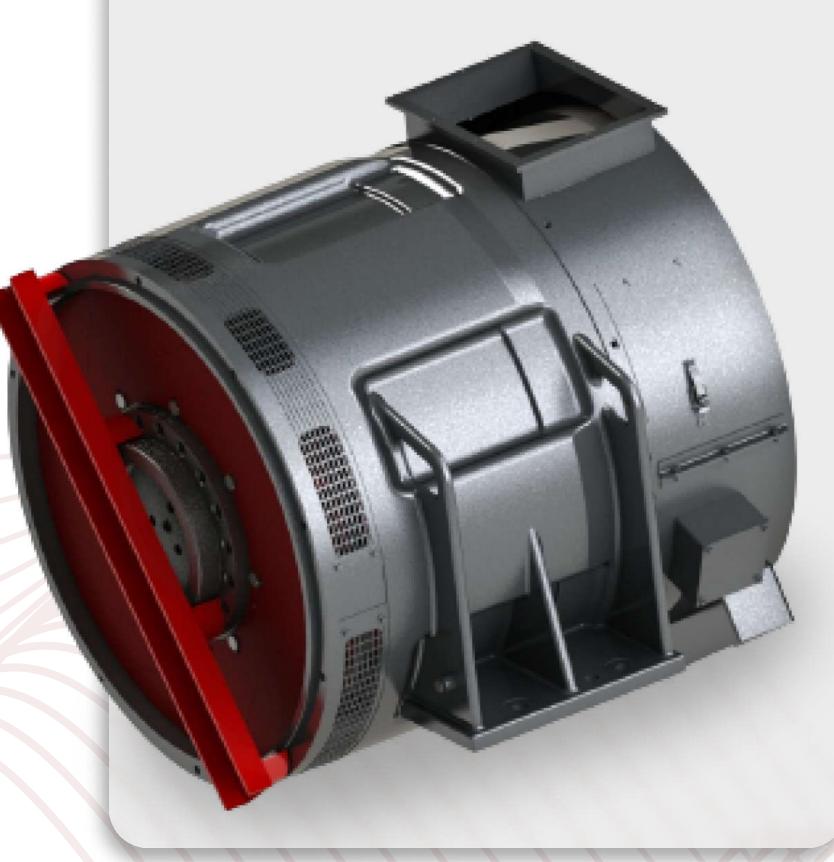
7GS.003

1kVDC Synchronous Traction Alternator Combined Together With Rotary Rectifier

Nominal Power, 750 KW Nominal Voltage, 750V Nominal Current, 343A Revolutions Per Minute 1900

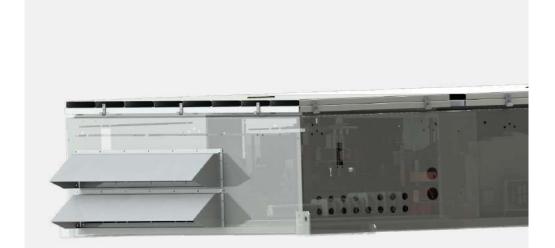
TRACTION ALTERNATORS







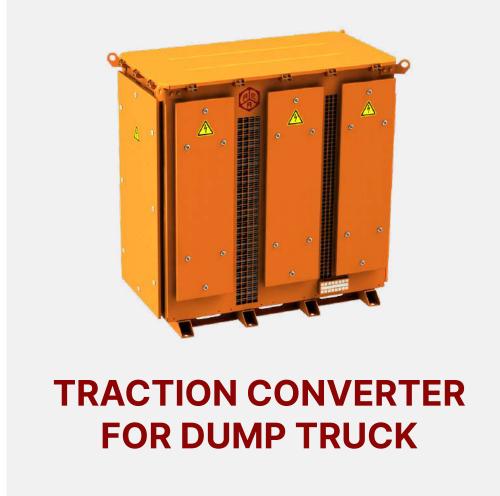
CONVERTERS (INVERTERS)



TRACTION CONVERTER FOR TROLLEYBUSES AND TRAMS







1PTS.001

Traction Converter For Electric Trains

UDC=3kV; PTRAC=1,2MW ($4\times300kW$)

NETWORKS CONVERTERS

1PTS.003

Traction Converter For Electric Trains

UDC=25kV; PTRAC=1,6MW $(4\times400kW)$

NETWORKS CONVERTERS

1PTS.005 U3

Auxiliary Converter For 110V Coaches Chains

UINPUT=3x220V; UOUTPUT=110V; Pto_coach_chains=5kW

AUXILIARY CONVERTER

6PS.011

Traction Converter For Trolleybus

UDC=600V; PTRAC=180kW; PDC/DC(600/24)=3,6kW

NETWORKS CONVERTERS

SPSU-90

Traction Converter For Dump Truck

UALT=750V; PTRAC=700kW (2×350kW)

AUTONOMOUS CONVERTER



PANELS

1B.253.43

Start And Braking Control Panel

110 VDC, 220 AC

AUXILIARY CONTROL PANELS

1B.256.43

Saloon Heating And Ventilation Control Panel

110 VDC, 220 AC

AUXILIARY CONTROL PANELS

1PA.422.44(43)

Auxiliary System Safety Control Panel

110 VDC, 220 AC

AUXILIARY CONTROL PANELS

1B.248.43

Static Excitation Rectifier

110 VDC, 220 AC

TRACTION AND BRAKING SYSTEM CONTROL PANELS

100 - 500 kW Nominal voltage

1B.249.43

Traction And Braking Control Panel

110 VDC, 220 AC

TRACTION AND BRAKING SYSTEM CONTROL PANELS

1B.250.43

Control Panel Of Auxiliary Compressor, Disconnector, Safety Interlock Relay AUXILIARY CONTROL PANELS

110 VDC, 220 AC

1B.673.21

Excitation Transformer Control Panel

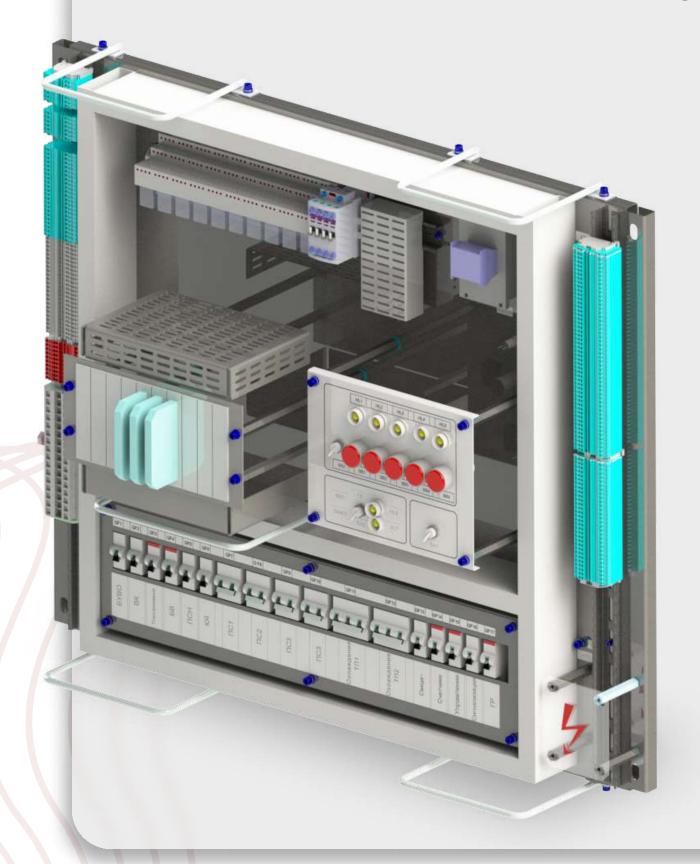
110 VDC, 220 AC

TRACTION AND BRAKING SYSTEM CONTROL PANELS

1B.251.43

Saloon Heating And Ventilation Control Panel Combined With Compressor And Electropneumatic Unit AUXILIARY CONTROL PANELS

110 VDC, 220 AC





RESISTANCE UNITS

1BS.093, 1BS.094

Start An Braking Resistence Blocks For EMU (Roof Aun Undercoach Design)

UN=3000VDC

1BS.059

Start An Braking Resistence Blocks For EMU (Roof Aun Undercoach Design)

UN=3000VDC

1BS.105

Start An Braking Resistence Blocks For EMU (Roof Aun Undercoach Design)

UN=3000VDC

1BS.095

Start An Braking Resistence Blocks For EMU (Roof Aun Undercoach Design)

UN=3000VDC

TRANSFORMERS

1TR.133.1

3-Phase Transformer For EMU DC Motor Excitation

UN=220/110V, Uins=3kV

1TR.021

3-Phase Power Transformer For EMU

UN=220/85/34V



CONTROL BOXES

Stepper motor control and alternator power supply units

BUSD1

Stepper Motor Control Unit

Nominal Voltage, 75V Nominal Current, 8A, Two Control Channels ModBUS/RS-485

2YA.144 U1

Undercoach Alternator Power Supply Up To 7.5km/H Velocity

Nominal Voltage, 75V Nominal Current, 8A, Two Control Channels ModBUS/RS-485





CONTACTORS



1KP.005

Line Contactor (Pneumatic)

UN=3000VDC, IN=300A, IHEAT=400A, Ucontrol=110V

LINE AND SAFETY CONTACTORS

1KM.016

Heating Cirquit Contactor For EMU (Electromagnetic)

UN=3000VDC, IN=3...100A, IHEAT=400A, Ucontrol=110V

AUXILIARY CONTACTORS

2KM.020, 2KM.020M

Heating Cirquit Contactor For Train Coaches (Electromagnetic)

UN=3000VDC, IN=3...100A, IHEAT=400A, Ucontrol=110V

AUXILIARY CONTACTORS

KMB-3.13

Fast-Acting Safety Contactor For Braking Chains (With Electronic Control)

UN=3000VDC, IN=190A

LINE AND SAFETY CONTACTORS

BVP-105A.13

Fast-Acting Safety Contactor For Traction Chains (Pneumatic)

UN=3000VDC, IN=250A, IMAX=20kA

LINE AND SAFETY CONTACTORS



CONTROLLERS

1KS.025

Power Controller (Pneumatic)

UN=3000VDC, IN=200A (Currentless Switching)

1KS.026

Power Braking Controller (Pneumatic)

UN=3000VDC, IN=200A (Currentless Switching)

1P.008

Reverser

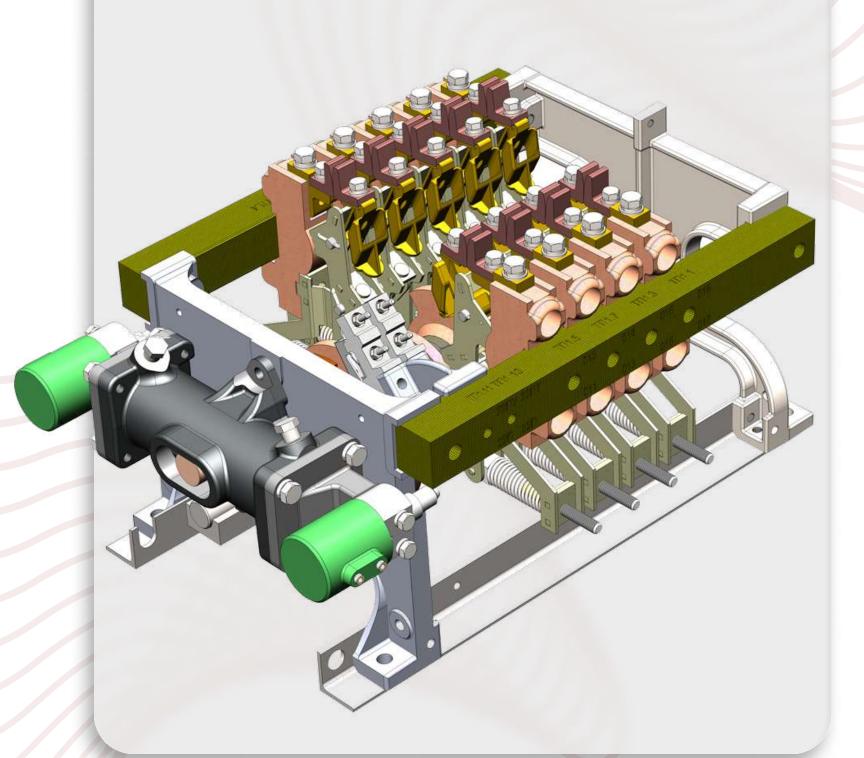
UN=3000VDC, IN=200A (Currentless Switching)

1P.004

Double Controller

UN=3000VDC, IN=200A (Currentless Switching)

Power, braking controllers, reversers





INDUCTORS AND CHOKES

1DR.050M

Radio Interference Choke

UN=3000VDC, IN=410A, L=250uH

1SI.004, 1SI.001.3

Induction Shunts For Short Cirquit Current Limitation

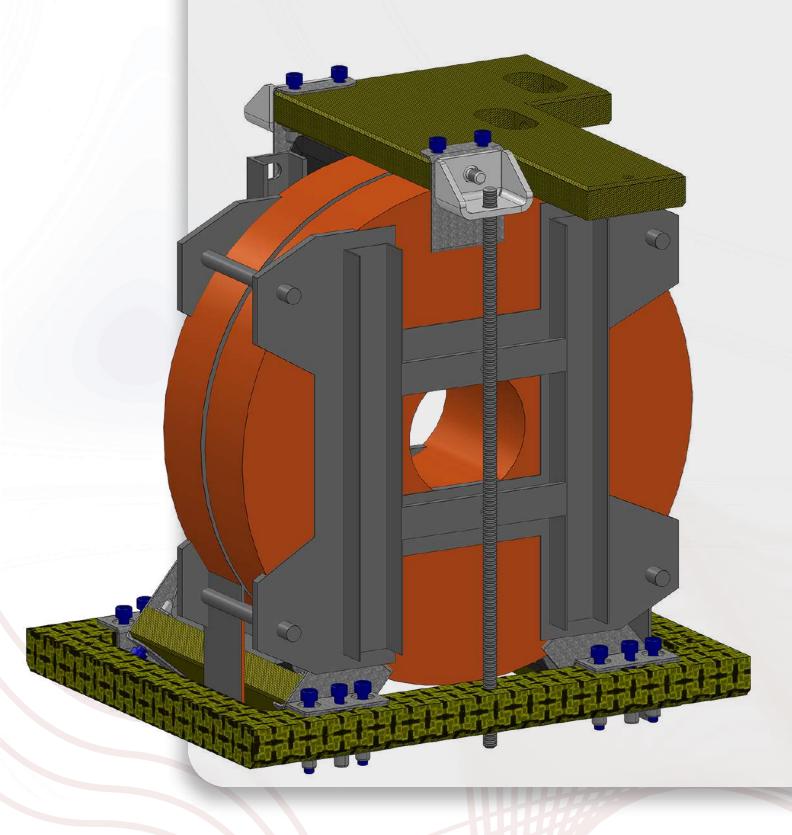
UN=3000VDC, IN=107A, L=50uH, IN=185A (1SI.001.3)

1A.004

Capacity Filter

UN=3000VDC, L=1.0uF

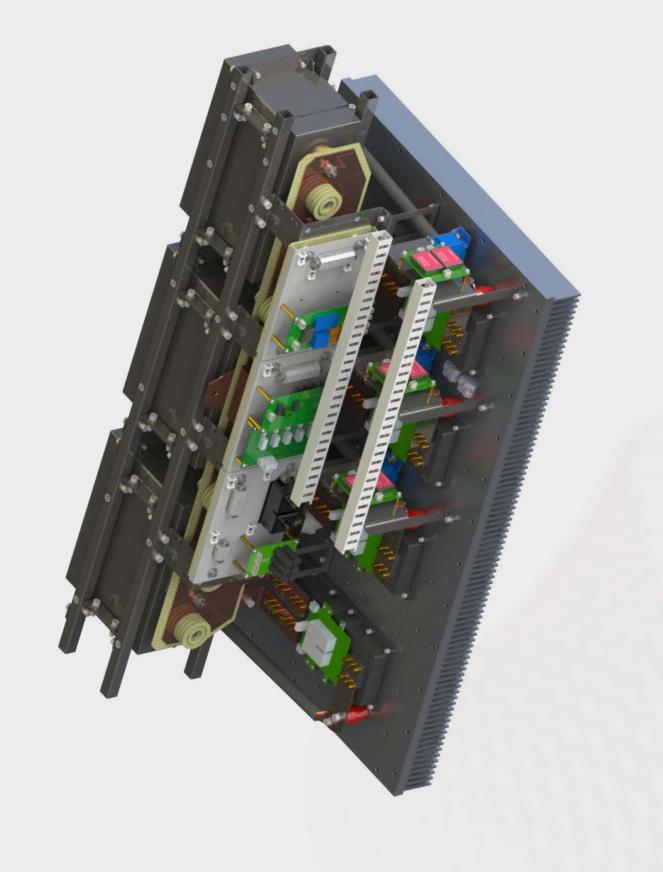
EMC, short cirquit current limitation chokes





HV DISCONNECTORS

High voltage disconnectors



1RV.002

High Voltage Disconnectors

UN=3000VDC, IN=400A, 1-Pole

1RV.004

High Voltage Disconnectors

UN=3000VDC, IN=450A, 50A, 3-Pole



FOR MORE INFORMATION, FEEL FREE TO CONTACT US

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