

**Cantoni**<sup>®</sup>  
GROUP



**Zakład Maszyn  
Elektrycznych  
EMIT S.A.**





”

Our main goal is to offer customers **specific technical solutions, ensuring quality and proper service** in the field of electric drives.

”

2001

**Cantoni**<sup>®</sup>  
GROUP

1997

**Elektrim**

1967



1945



1933

ROHN-ZIELIŃSKI  
B R O W N B O V E R I

1921

POLSKIE ZAKŁADY ELEKTRYCZNE  
BROWN BOVERI  
SPÓŁKA AKCYJNA  
FABRYKA w ŻYCHLINIE

We have over 100 years of experience in the design, production, service and operation of electrical machines!

Thanks to this, we are one of the main suppliers of drives for companies in the fuel and energy, chemical, paper, shipbuilding, mining and electromechanical sectors.

We are part of the Cantoni Group, which consists of domestic producers of motors and electrical equipment and the export sales office - Cantoni Motor.



**CELMA**  
indukta



**Motors**



**Cantoni**  
GROUP

**Brakes  
and Tools**

**FENES** S.A.

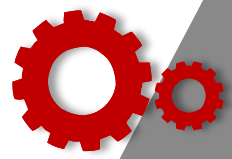


**FANA**  
narzędzia sp z o.o.

**Tools**

**NARMOD**

**FORMIT**  
Sp. z o.o.  
BESEL




Cantoni Group became a pioneer in the production of electric motors already in the 20th century. Since then, it has been constantly implementing innovative technologies and modern products.




Basic scope of our  
production includes  
around **2.5 thousand**  
types of electrical  
machines!



A large, white industrial induction motor is the central focus, positioned on a heavy-duty metal test bed in a spacious industrial facility. The motor has a prominent circular fan grille on its front end and a ribbed cooling housing. In the background, another similar motor is visible, and the factory environment includes overhead cranes and structural beams.

**Induction motors (slip-ring and squirrel cage), power range from: 55 kW to 7 000 kW, including:**

- high voltage motors (10 - 11 kV), power range from 200 kW to 7 000 kW,
- medium voltage motors (3 kV - 6 kV), power range from 160 kW to 7 000 kW,
- low voltage motors (up to 1kV), power range from 160 kW to 2 700 kW,
- low and high voltage slip-ring motors, power range from 55 kW to 2 500 kW,
- explosion-proof motors, power range from 90 kW to 4 000 kW.

A series of three blue arrows pointing downwards, followed by two blue arrows pointing outwards from a central white oval containing text.

**We also offer non-standard designs made according to special customer requirements.**



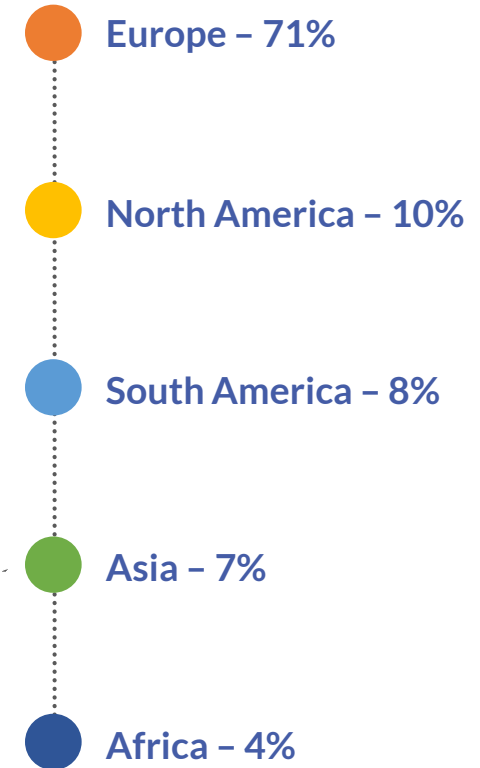
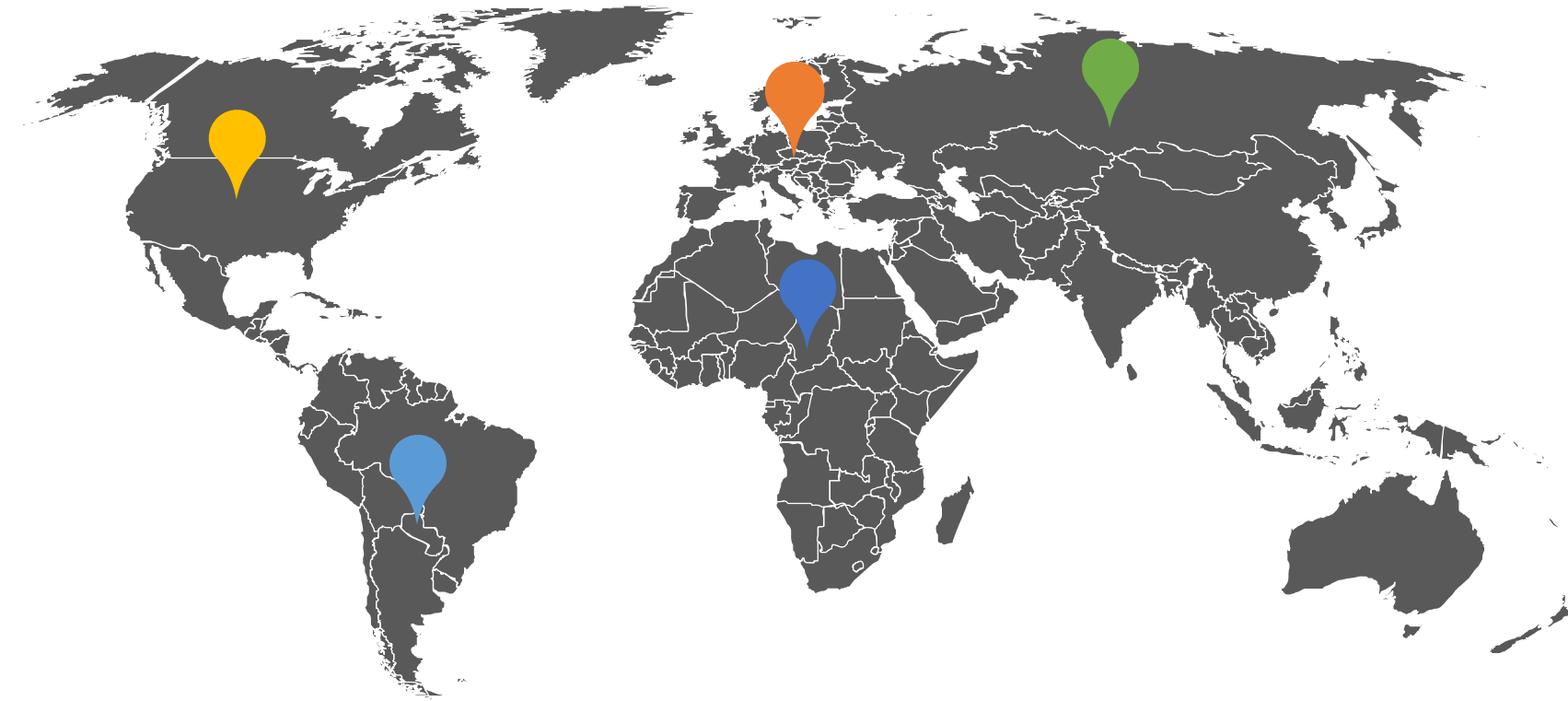
We are one of the main suppliers of drives to companies from many different sectors. We also export our products to foreign markets:

- Metallurgical Industry,
- HVAC and pumps,
- Mining Industry,
- Chemical Industry,
- Cranes,
- Energy Industry,
- Traction,
- Machine Construction Industry,
- Marine Industry.



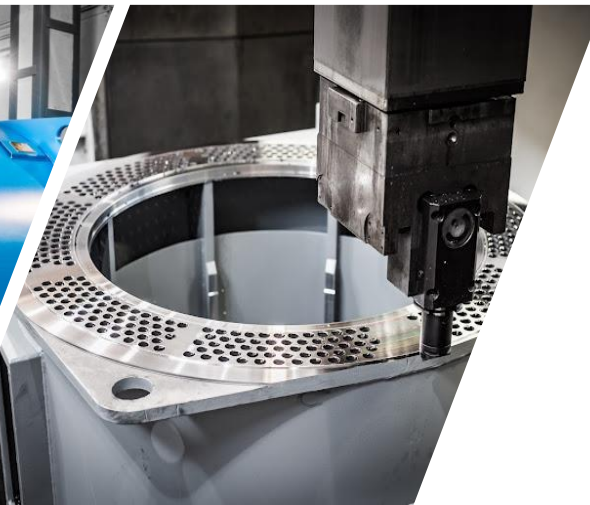
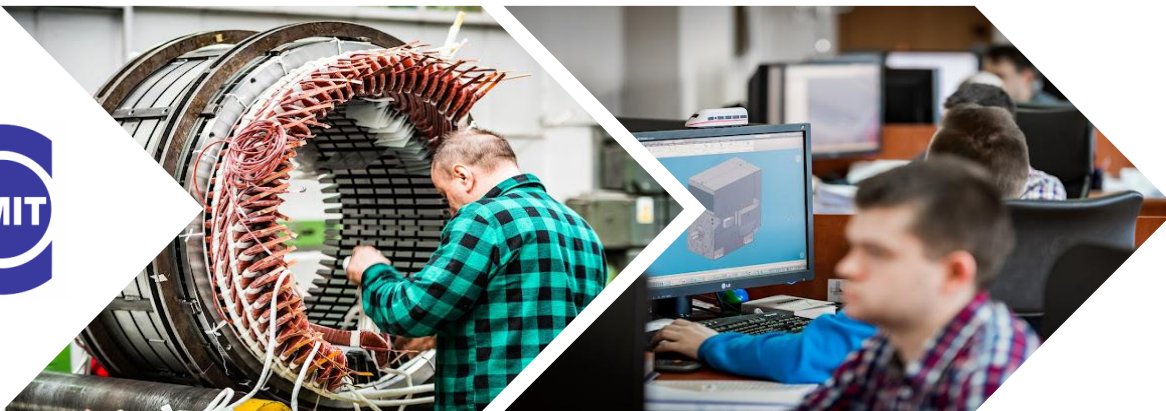
# Where do We export?

On behalf of the **Cantoni Group** - our products reach customers all over the world!





Our products are manufactured based on the **ISO 9001** quality assurance system according to Polish **PN**, international **IEC**, European **EN** and American **NEMA/CSA** standards.



**J.S. Hamilton Poland Sp. z o.o.**  
**Jednostka Certyfikująca**  
 ul. Wyzwolenia 14  
 41-103 Siemianowice Śląskie

**CERTYFIKAT**  
**POTWIERDZENIE KOMPETENCJI**  
**STACJI PRÓB SILNIKÓW ELEKTRYCZNYCH**

**Nr JSHP/1/K/2021**  
 Niniejszym potwierdza się, że:  
**Zakład Maszyn Elektrycznych EMIT S.A.**  
 99-320 Żychlin, ul. Narutowicza 72  
 posiada zdolność, oraz spełnia wymagania dla zachowania odpowiedniego poziomu jakości wykonywania badań silników elektrycznych.

**Zakres kompetencji:**  
 badanie silników elektrycznych zgodnie z wymaganiami norm:

PN-G-38010:1997 Ochrona pracy w górnictwie. Silniki indukcyjne trójfazowe klatkowe do maszyn górniczych. Wymagania i badania.  
 PN-EN 60341-1:2011 Maszyny elektryczne wirujące - Część 1: Dane znamionowe i parametry.  
 PN-EN IEC 60079-0:2018-09 Atmosfery wybuchowe. Część 0: Urządzenia. Podstawowe wymagania - pkt. 9; pkt. 17.2; pkt. 26.5.  
 PN-EN 60079-7:2016-02 Atmosfery wybuchowe- Część 7: Zabezpieczenie urządzeń za pomocą buszowej wzmacniającej „e”- pkt. 4.3; pkt. 4.4; pkt. 6.1.  
 PN-EN 60079-1:2014-12 Atmosfery wybuchowe- Część 1: Zabezpieczenie urządzeń za pomocą osłony ognioszczelnej „d”- pkt. 6; pkt. 15.2; pkt. 15.4.3.  
 PN-EN 60079-11:2012 Atmosfery wybuchowe- Część 11: Zabezpieczenie urządzeń za pomocą iskrobezpieczeństwa „f”- pkt. 6.3; pkt. 10.3.

**Podstawa prawna wydania potwierdzenia:**  
 Norma PN-EN ISO/IEC 17025:2018-02- Ogólne wymagania dotyczące kompetencji laboratoriów badawczych i wzorczyjących. Odpowiednie wymagania pkt. 6 i pkt. 7

Ocena jest oparta na raporcie z oceny kompetencji laboratorium badawczego  
 Nr JSHP/RW/1/K/2021/GP z dnia 05 listopada 2021 r.

Prawa i obowiązki stron wynikające z niniejszego potwierdzenia kompetencji określa odrębna umowa Nr JSHT/268/U/2021.

**Okres ważności Certyfikatu: od 07.11.2021r. do 06.11.2024r.**

    
**HAMILTON**

Siemianowice Śl., dnia 05 listopada 2021 r. Strona 1 z 1

J.S. Hamilton Poland Sp. z o.o., ul. Chwałczyńska 140, 81-071 Górniki  
 Jednostka Certyfikująca, ul. Wyzwolenia 14, 41-103 Siemianowice Śląskie  
 Tel./Fax: +48 32 730 62 00, www.hamilton.com.pl, www.hamilton-test.pl  
 JSHP/1/K/2021

 **CERTIFICATE** Certificate No.  
NC-0034

Issued for:  
**Zakład Maszyn Elektrycznych "EMIT" S.A.**  
 ul. Narutowicza 72  
 99-320 Żychlin

Management Systems Certification Bureau of Polski Rejestr Sądowy S.A., at gen. Józefa Hallera 126, 80-416 Gdańsk, certifies that the Integrated Management System including Quality Management System, Environmental Management System and Occupational Health and Safety Management System of the above Organization has been assessed and found to be in accordance with the requirements of:

**ISO 9001:2015**  
**ISO 14001:2015**  
**ISO 45001:2018**

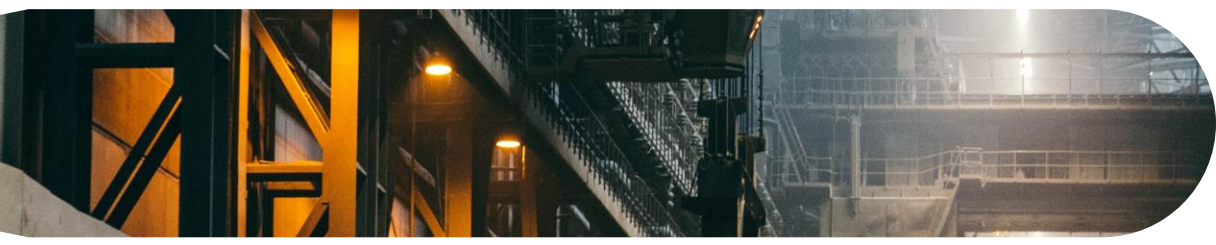
Scope of certification:  
**DESIGN AND MANUFACTURE OF: THREE-PHASE INDUCTION MOTORS, SYNCHRONOUS GENERATORS, DIRECT CURRENT MACHINES, POWER GENERATING SETS, PARTS AND SUBASSEMBLIES FOR ELECTRIC MACHINES, MANUFACTURE OF WELDED STRUCTURES, REPAIR AND REPAIRS OF ELECTRIC MACHINES**

Certificate QMS first issue: 23.01.1997  
 Certificate EMS, HSMS first issue: 23.01.2012  
 The Certificate QMS, EMS, HSMS is valid until: 22.01.2027

Gdańsk, 23.01.2024

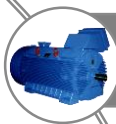


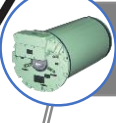


    
**AC 014**  
 Certification Division Director  
 Dariusz Dolek

 [www.prs.pl](http://www.prs.pl)



# Our offer

Basic series, mining motors and slip-ring motors

-  Series „Sh” - 132 – 2 000 kW
-  Series „Sf(r)(w)” - 160 – 7 000 kW
-  dSKgwp - 160 – 630 kW
-  dSKgw - 162 – 500 kW
-  Series „SU(D)G” - 45 – 250 kW
-  Series „SUf(r)” - 160 – 2 500 kW



# Series 2/3/4 „SIE”

Single-speed motors, general purpose and high efficiency

#

- in class IE2 (IEC600-34-30 standards and EC Regulation 640/2009),
- in class IE3 (IEC 60034-30 standards and EC Regulations 2019/1781 & 2021/341),
- in class IE4 (IEC 60034-30-1 standards and EC Regulations 2019/1781 & 2021/341).



# Explosion-proof motors

For low and high voltage

#



- I M2 Ex db I Mb,
- II 2G Ex db IIB T4 Gb,
- II 2G Ex db IIC T4 Gb,
- II 2G Ex db eb IIB T4 Gb,
- II 2G Ex db eb IIC T4 Gb,
- II 2G Ex db eb pxb IIC T3 Gb,
- Ex tb IIC T125 st.C,
- Exec IIC T3 Gc.



# Motors in marine execution



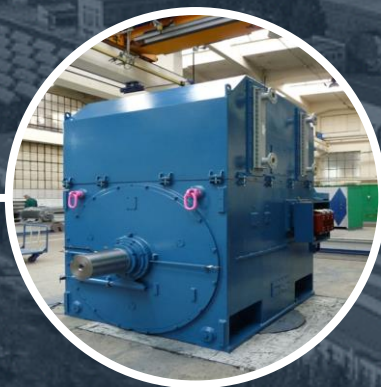
Marine, horizontal, IP23,  
IP55 certified by various  
agencies (PRS, GL, LRS,  
DNV):

- 200 – 3 000 kW,  
1 500/1 800 rpm,
- 200 – 2 000 kW,  
1 000/1 200 rpm

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# Our offer

Special executions



## SVf900YV16C

Nominal power – 2 000 kW  
Voltage – 10 000 V  
Nominal speed – 372 rpm  
Frequency – 50 Hz  
Degree of protection – IP55/55  
Torque – 29 522 Nm  
Weight – 22 500 kg  
Noise level –  $\leq 92$  dB(A)

## Sfw900HV8D

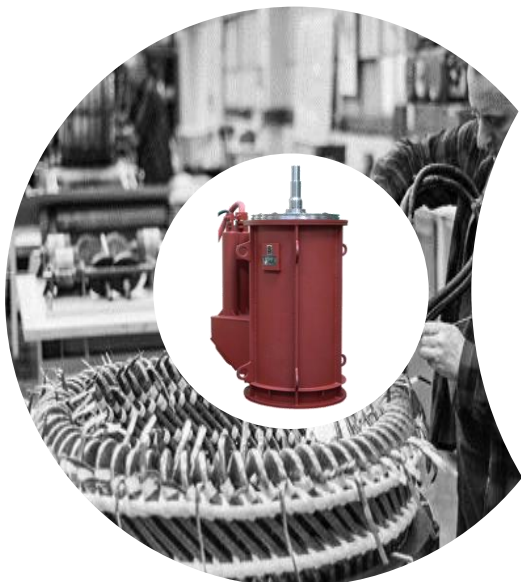
Nominal power – 5 600 kW  
Voltage – 10 500 V  
Nominal speed – 745 rpm  
Frequency – 50 Hz  
Degree of protection – IP55/55  
Torque – 71785 Nm  
Weight – 24 500 kg  
Noise level – 82 dB(A)

## Sf710H6DF

Nominal power - 3400kW  
Voltage - 6000V  
Nominal speed – 996 rpm  
Frequency – 50 Hz  
Degree of protection – IP55/56  
Torque – 32 600  
Weight – 15 200 kg  
Noise level – 83+2 dB(A)

# Our offer

## Special executions



### Motor Series „Shz”

Nominal power – 250÷500 kW  
Voltage – 6 000 V  
Nominal speed – 1 500 rpm  
Frequency – 50 Hz  
Degree of protection - IP68



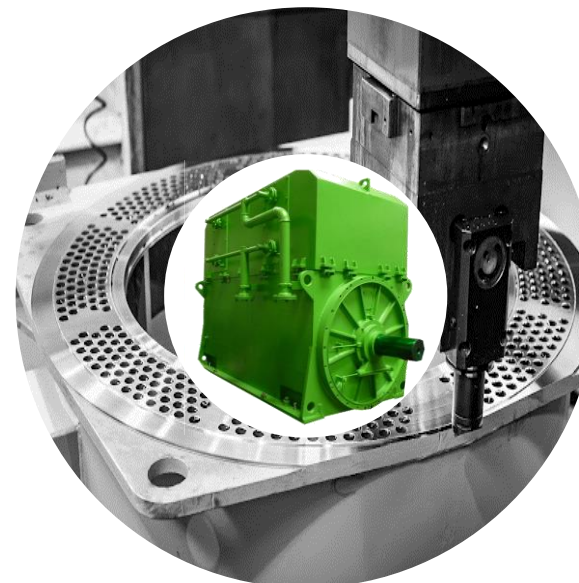
### Sfr1000H8D

Nominal power – 3 200 kW  
Voltage – 6 000 V  
Nominal speed – 750 rpm  
Frequency – 50 Hz  
Degree of protection - IP55



### SVf800Y16B

Nominal power – 1 150 kW  
Nominal speed – 372 rpm  
Nominal torque – 29 522 Nm  
Weight – 13 400 kg



### mSfw560-6Cs

Nominal power – 2 000 kW  
Voltage – 660 V  
Rated speed – 1200 rpm  
Frequency – 60 Hz  
Degree of protection – IP56/56  
Marine execution

# Our offer

Special executions – „Ex”



1 /

**dSh 355 ÷ 500**

II 2G EEx de IIB T4  
Nominal power – 200 ÷ 820 kW  
Voltage – 10 000 V



2 /

**pSf 710Y2-G**

II 2G Ex pxe II T3  
Nominal power – 1 400 kW  
Voltage – 6000 V  
Rated speed – 2 985 rpm  
Frequency – 50 Hz  
Degree of protection – IP54/55  
Torque – 4479 Nm  
Weight – 9 000 kg  
Noise level – 84 dB(A)



3 /

**dSLfr 800H8C-E**

Eex d I Mb / Ex d II (CH4) Gb  
Nominal power – 1 200 kW  
Voltage – 6 000 V  
Rated speed – 746 rpm  
Frequency – 50 Hz  
Degree of protection – IP55/55  
Torque – 15 362 Nm  
Weight – 10 000 kg



4 /

**dSh 450H2B**

II 2G Eex d IIB T4  
Nominal power – 630 kW  
Voltage – 6 000 V  
Rated speed – 2 988 rpm  
Frequency – 50 Hz  
Degree of protection – IP55/55  
Torque – 2 014 Nm  
Weight – 4 230 kg

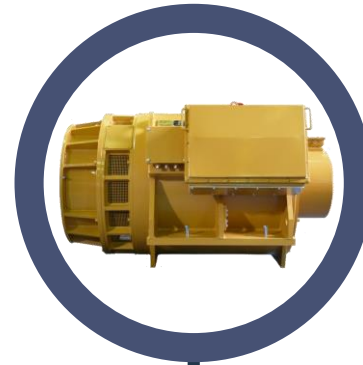






# Our offer

Traction motors and generators



## Gfp560S8B

Nominal power – 1 824 kVA

Voltage – 664 V

Rated speed – 1800 rpm

Frequency – 120 Hz

Degree of protection – IP21

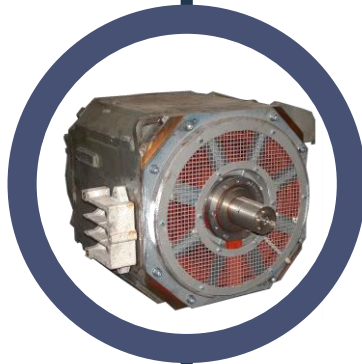


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## **SXT355-4A**

Nominal power – 350 kW  
Voltage – 2 340 V  
Nominal speed – 1 500 rpm  
Frequency – 50Hz  
Degree of protection – IP22

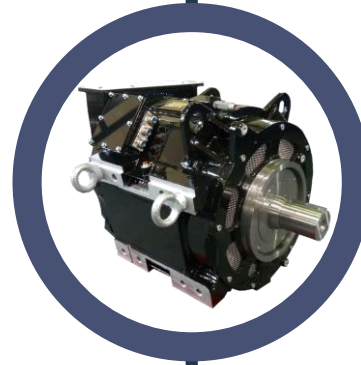


## **STDa280-4B-UK3**

Nominal power – 180 kW  
Voltage – 500V  
Nominal speed – 1 890 rpm  
Frequency – 63Hz  
Degree of protection – IP22/IP55

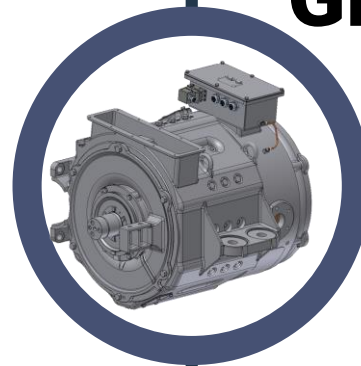


## STX(m)500-4A



Nominal power – 835 kW  
Voltage – 2 150 V  
Rated speed – 1300 rpm  
Frequency – 44 Hz  
Degree of protection – IP22  
Torque – 6 134 Nm

## GDTM533F (SXT400-6B)



Nominal power – 475 kW  
Voltage – 1400 V  
Rated speed – 945 rpm  
Frequency – 48 Hz  
Degree of protection – IP21  
Torque – 4 800 Nm



## GLp 500 L4

Nominal power – 1 572 kW

Voltage – 300 V

Nominal speed – 1 800 rpm

Frequency – 63 Hz,

Degree of protection – IP21



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Zakład Maszyn Elektrycznych EMIT S.A.

# Research & Development Center



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The Research and Development Center enables comprehensive testing of motors in the power range from 50 kW to 6 MW.

A system using the latest VACON® NXP Danfoss Drives frequency converter technology is the heart of this facility.

The power level of the entire implemented system equals the needs of a small town with approximately 3 000 households. The system was developed, designed and integrated by ELSTA/NEISA in cooperation with Danfoss experts and engineers.



The Center uses a renewable energy system, which significantly reduces energy consumption. Energy circulates in the system all the time, and only the part needed to compensate for operating losses is taken from the external network.

In this way, the Center enables testing of large and very large motors without using so much power from the network, which translates into a noticeable reduction in electricity consumption costs and has a positive impact on the environment.

## Full spectrum of research and testing possibilities!

The Research and Development Center is characterized by unprecedented versatility in terms of testing capabilities:

- no-load tests – tests under full load,
- very small and very large motors (50 kW – 6 000 kW),
- testing at rated voltages from 400 V to 15 000 V,
- air-cooled (IC411) and water-cooled motors,
- motors with plain bearings.

The permissible weight of the tested device has been increased to **30 tons**, with the total load capacity of the test plate **up to 60 tons!**

The motors are analyzed using partial discharge testing equipment and a rotor cage testing system.

**Cantoni**<sup>®</sup>  
GROUP



# Zakład Maszyn Elektrycznych EMIT S.A.



## Commercial Director:

Adam Bron

e-mail: [Adam.Bron@cantonigroup.com](mailto:Adam.Bron@cantonigroup.com)

tel. +48 24 285 46 98

mob. +48 608 349 234



## Deputy Commercial Director:

Marcin Panek

e-mail: [Marcin.Panek@cantonigroup.com](mailto:Marcin.Panek@cantonigroup.com)

tel.: +48 24 285 46 45

mob. +48 666 814 251



## Export Office

e-mail: [Emit.Export@cantonigroup.com](mailto:Emit.Export@cantonigroup.com)



## Sales Department

e-mail: [Emit.Handlowy@cantonigroup.com](mailto:Emit.Handlowy@cantonigroup.com)

NIP: 7750000858

Zakład Maszyn Elektrycznych EMIT S.A.

Ul. Narutowicza 72

99-320 Żychlin

Poland

[www.cantonigroup.com/emit](http://www.cantonigroup.com/emit)

**Cantoni**<sup>®</sup>  
GROUP

Interested in our offer?



**Contact Us!**

