



CUSTOM MADE MOTORS for various drives



KONČAR - Generators and Motors Inc.

develops, designs and manufactures single units or small series of motors; assembles, tests and prepares for delivery.

MOTOR designs include:

- Water cooled, air cooled and water jacket cooled motors for industrial and marine application
- Shaftless motors for compressors
- Traction motors
- Motors for pumps, fans, conveyor belts, ...
- Motors for cement plants, oil industry, ...



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KONČAR produces **low-voltage** and **high-voltage** asynchronous **squirrel-cage** and **slip-ring motors**, and **synchronous motors** up to 10 MW.



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1. Asynchronous motors



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1.1. High voltage squirrel-cage motors

| High voltage squirrel-cage rib cooled motors 9AZJ series | | Unit |
|--|------------|------|
| Rated data in series | | |
| P_n | 160-2000 | kW |
| U_n | 3000-10000 | V |
| IC | 411 | - |



| High voltage squirrel-cage closed air circuit cooled motors 6AJZ series | | Unit |
|---|------------|------|
| Rated data in series | | |
| P_n | 160-10000 | kW |
| U_n | 3000-13200 | V |
| IC | 611 | - |



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1.2. High voltage slip-ring motors



| Rated data in series | | Unit |
|----------------------|---------------------------|------|
| P_n | 160-10000 | kW |
| U_n | 3000-13200 | V |
| IC | 611 (or other on request) | - |



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1.3. Low voltage squirrel-cage motors



| Rated data in series | | Unit |
|----------------------|-------------------------|------|
| P_n | 132-2000 | kW |
| U_n | 380-690 | V |
| IP | 54, terminal boxes IP55 | - |



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3. MOTORS FOR SPECIFIC APPLICATIONS



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3.1. Shaftless motors for Compressors



| Rated data in series | | Unit |
|----------------------|-----------------|------|
| P_n | 160 – 560 | kW |
| U_n | 400 – 690, 3300 | V |
| f_n | 50 and 60 | Hz |
| IM | 5200 | - |
| IP | 22 and 56 | - |
| IC | 01 and 71W | - |

Over **1300 units** manufactured so far...

Insulation class: F and H
Power supply via frequency converter
Shaftless desing



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3.2. TOP Drive motors for Oil rigs



Ambient temperature: **-40 to +55°C**
CSA certificate: **Class I, Div 2 Groups A,B,C,D**
Insulation class: **H**
Power supply via frequency converter
Forces ventilation: **50 Hz ili 60 Hz**

| Rated data in series | | Unit |
|----------------------|------------------------|------|
| P_n | 300, 400, 750 and 1000 | kW |
| U_n | 520, 550 and 575 | V |
| f_n | 40 and 60 | Hz |
| IM | 3013 | - |
| IP | 44 | - |
| IC | 06 | - |

Over **70 units** manufactured so far...

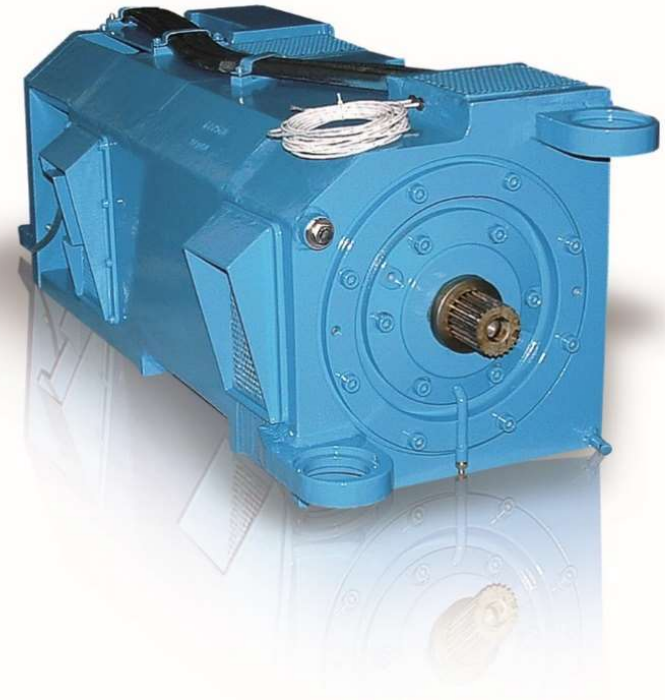


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3.3. Traction motors

Developed for low-floor trams and low-floor Electric Multiple Units, with powers of **65 kW** and **525 kW**.



Over **900 units** manufactured so far...



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3.4. Explosion-proof motors

- High-voltage and low-voltage explosion-proof motors with ATEX protection class „d“, „e“, „p“ and „n“, suitable for IIA and IIB environments
- Applications in chemical industry, oil and gas industry, mining
- Drives for pumps, compressors, fans etc.

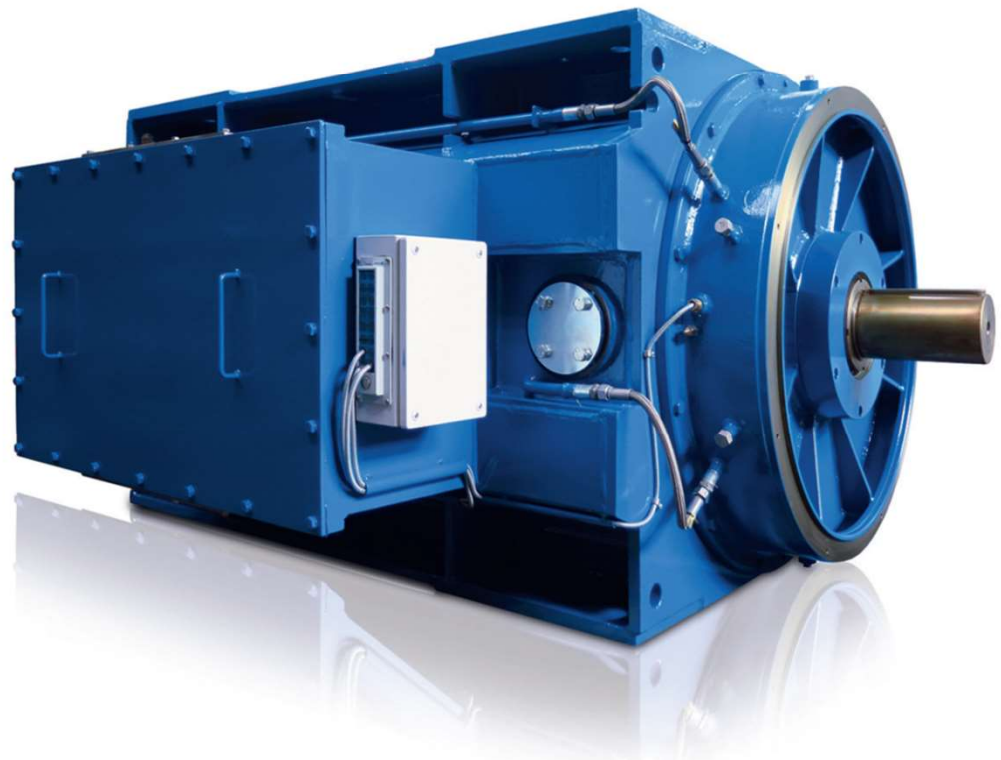
Each motor is certified by an independent testing laboratory and certification body for electrical equipment for hazardous locations.



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5. Motors for marine application



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Water-jacket cooled motors

Water-jacket cooled motors are designed for regulated drives on ships.

- Rated power from 315 kW to 3800 kW



Over **80 units** manufactured so far...



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6. Synchronous motors

- Rated power from 500 kW to 10 MW
- Applicable for drives with constant speed of rotation (e.g. mills, compressors, etc.)
- When operating on the grid, motors can also be used for compensation of reactive power.



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7. CONTACT INFORMATION

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