

Press Release

IP67 motors from Berlin defy wet conditions in Cairo pump station

Berlin – The Egyptian Construction Authority for Potable Water and Wastewater (CAPW) recently sourced four custom-made pump drives from special motor manufacturer Menzel Elektromotoren for installation in a water pump station in Cairo. Because the great volume of water processed in the plant constitutes a lingering threat for any nearby motor, these systems were required to be water-tight enough to sustain submersion at standstill without suffering damage. For this reason, the vertical high-voltage motors were finished with IP67 ingress protection, an exceptionally high grade of water resistance.



Illustration

The Berlin-based motor expert is one of the few manufacturers who can provide such motors. In order to achieve this robust degree of protection, Menzel provided the units with encapsulated water-proof housings and terminal boxes and specially engineered bearings. Additional gaskets made from special materials were included for each fit, and high surface pressure in all sealing surfaces were then used to achieve a complete sealing that allows these motors at standstill to be exposed to a flooded environment. The engineers used a non-corrosive housing material and subsequent surface treatment and painting

process to furnish the housing with a very low surface roughness. In case of imminent submersion of the pump drives in the facility, the motors can now be switched off, safely await the water to recede, and then be restarted right away. The four six-pole squirrel cage motors with 740 kW rated power, 3300 V rated voltage and 990 rpm are now instrumental to help ensure an uninterrupted water supply to the population of Africa's largest metropolis.

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About Menzel Elektromotoren

Based in Berlin, Menzel Elektromotoren GmbH has been manufacturing and distributing electric motors for more than 90 years. The medium-sized company specializes in the delivery of large electric motors, including special models, within the shortest possible time. The product range comprises high and low voltage motors, DC motors, transformers, and frequency inverters. Services include motor production and short-term adaptation of stocked motors to application-specific requirements. In order to ensure fast deliveries to the customer at all times, the company maintains a very extensive inventory including more than 20,000 motors with a maximum performance of up to 15,000 kW. Qualified engineering, experienced staff, and state-of-the-art production and testing facilities help Menzel provide excellent reliability. Menzel operates subsidiaries in the UK, France, Italy, Spain, and Sweden, and cooperates with numerous partners worldwide.

Contact: Menzel Elektromotoren GmbH

Mathis Menzel

Neues Ufer 19-25
10553 Berlin
Germany

Tel.: +49 30 / 34 99 22 - 0
Fax: +49 30 / 34 99 22 - 999
Email: info@menzel-motors.com
WWW: www.menzel-motors.com



gii die Presse-Agentur GmbH
Immanuelkirchstr. 12
10405 Berlin
Germany
Tel.: +49 30 / 53 89 65 - 0
Fax: +49 30 / 53 89 65 - 29
Email: info@gii.de
WWW: www.gii.de