



IMMERSIBLE MOTOR

EXPLOSION-PROOF IMMERSIBLE MOTOR

Overview

Periodic submergence is not a problem for JWC's exclusive immersible motor. Built to operate in air continuously or underwater for days, the immersible motor has a compact, non-ventilated design with a standard NEMA bolting pattern and shaft length. The motor is optional on Muffin Monster®, Auger Monster® and Channel Monster® systems or can easily retrofit to existing installations.

The design allows the motor to operate without a fan and for long periods either submerged or dry. Unlike other submersible motors which are modified to run in air but frequently overheat and burn out, the JWC design allows a much lower surface temperature and increased reliability.

JWC's immersible motor provides superior efficiency and durability for a long, trouble-free service life in demanding pump station and wastewater applications.



Features & Benefits

Immersible design

- Operates in air continuously
- Operates to 40 feet (12.2 m) of continuous submergence for a period of 40 days

UL rated NEMA 6P (IP68)

- Occasional submersion, watertight, sleet-resistant, indoor/outdoor use
- Operates efficiently dry or submerged
- Rugged cast iron design
- Shaft seal protected from process liquid

Explosion-proof design

- UL listed for hazardous locations
- Rated Class I Div I, Group C & D, Class II Div II, Group F & G
- Class F insulated

High efficiency

- Designed and built by a worldwide leader in energy efficient motor manufacturing
- 104°F (40°C) ambient / 167°F (75°C) rise

Technical Specs

Frame: XPNV (explosion-proof non-ventilated)

Rating: NEMA 6P (IP68)

RPM: 1770 (60Hz) / 1440 (50Hz)

Manufacture rating: 40 consecutive days of submergence at a maximum depth of 40 feet (12.2 m)

SF: 1.15

Enclosure: XPNV

Poles: 4

Site Pictures



An immersible motor installed on a Channel Monster® in a deep channel.



An overhead view of an immersible motor in a deep wet well.



Channel Monster® with immersible motor and lifting bail.



A Muffin Monster® with immersible motor and lifting bail in a deep wet well.



An immersible motor powers an Auger Monster® in an underground vault.

Technical Specifications

HP (kW)	Voltage	Hz	Frame
1 (0.75)	208-230/ 460	60	145TC
1 (0.75)	190-200/ 380-400	50	145TC
1 (0.75)	575	60	145TC
2 (1.50)	208-230/ 460	60	184TC
2 (1.50)	190-200/ 380-400	50	184TC
2 (1.50)	575	60	184TC
3 (2.20)	208-230/ 460	60	184TC
3 (2.20)	190-200/ 380-400	50	184TC
3 (2.20)	575	60	184TC
5 (3.75)	208-230/ 460	60	184TC
5 (3.75)	190-200/ 380-400	50	184TC
5 (3.75)	575	60	184TC
10 (7.50)	208-230/ 460	60	254TC
10 (7.50)	190-200/ 380-400	50	254TC
10 (7.50)	575	60	254TC
15 (11.25)	208-230/ 460	60	254TC
15 (11.25)	190-200/ 380-400	50	254TC
15 (11.25)	575	60	254TC

Note: efficiencies and power factors are reference for this data sheet, please consult factory for individual motor data information with current ratings.



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