

81mm Pearl Series - ECM High Efficiency Refrigeration Fan Motor

Introducing the Pearl Series — the new standard in high efficiency refrigeration fan motors from a company with a 100-year history of innovation, Merkle-Korff Industries.

Developed by our accomplished AC motor engineering team at our Ft. Wayne, Indiana design center, the Pearl Series provides an optimal high efficiency solution for refrigeration applications like food & beverage coolers, display cases, vending machines, walk-in coolers and more.

Pearl's unique electrical and mechanical design produces this high efficiency at a minimal cost compared with comparable shaded pole and permanent split capacitor designs. The result is a durable, technically advanced motor that will satisfy the demanding performance, pricing and value requirements of world class refrigeration product manufacturers.



Benefits

- Optimum efficiency at minimum cost utilizing ferrite magnets
- Easy to install/drop in replacement with universal mounting/Frequencies
- Increased flexibility with universal input for U.S. and European voltages
- Extended temperature range ball bearings enable one model for both freezer and refrigeration applications (-40 °C to 70 °C ; -40 °F to 160 °F)
- Industry leading mechanical IP66 structure protects against dust ingress and water spray damage

Refrigeration Applications

- Food/beverage coolers
- Display cases
- Vending machine
- Walk-in coolers
- Blower and fans
- Condensing units

Installation

- Integral mounting holes for #8-36 UNC screw
- Side pad or opposite shaft end mounting
- Drop-in replacement for existing 81 mm unit bearing motors
- Motor suitable for all angle mounting

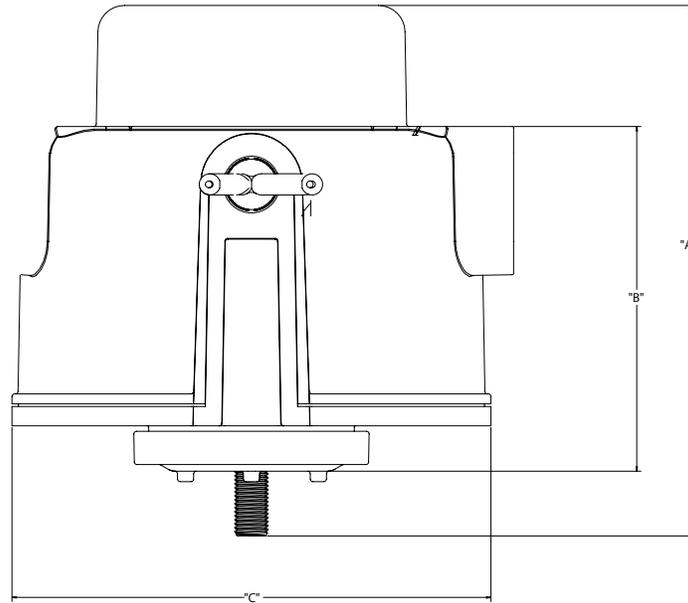


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Dimensional diagram



Features

- Universal input (85 to 265V; 50 or 60 Hz)
- Electronically commutated motor with integral control
- Impedance and O/L protection
- Dual Ball bearings with extended temperature range grease
- Threaded shaft 1/4 – 20, 0.51/0.41" long
- 26-inch lead length with 1/2" bare wire stripped (Modular connection)
- Single speed (Constant +/- 7%)
- Totally enclosed air over (TEAO) designs
- CW or CCW only rotation
- IP66 Protection Rating
- Two side pad's with tapped holes
- 5 mounting holes opp. shaft end (Tapped)
- 4 pin fan mounting
- Valox 357 enclosure
- UL/CSA, VDE, & CE
- Bi-directional CCW/CW (optional)
- Square European mounting (2.65"/square) (optional)
- Custom lead lengths (2" increments) (optional)
- Other lead terminations available (optional)
- Programmable – Speeds, constant torque, temp. sensing (optional)
- 2 speed (optional)

Specifications

Model	Watts	Volts	A [in]	B [in]	C (in)
5KSM81RE1000	1-9	85-265	3.809	2.411	3.59
5KSM81RE2000	9-25	85-265	3.998	2.591	3.598

Energy Savings

Model	Duty Cycle 100%	Duty Cycle 80%	Duty Cycle 50%
5KSM81RE1000	\$37.00	\$29.60	\$18.50
5KSM81RE2000	\$39.0	\$31.20	\$19.50

