

ECR 85 / 95

ECM Motor with Integrated Electronic Control

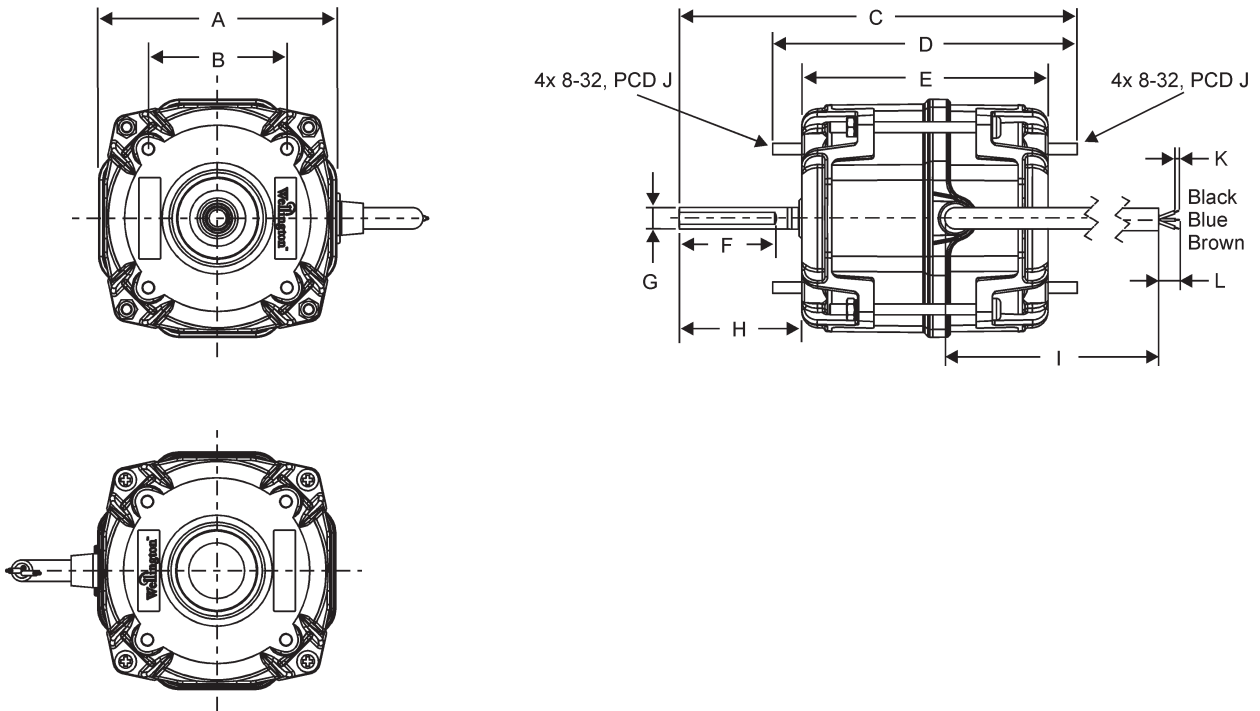


| Motor | Voltage V / Hz | Current A | Speed RPM | Output Power W | Protection IP | Approval |
|-----------|-------------------|--------------|--------------|-------------------|------------------|----------|
| ECR85xxx1 | 230 / 50-60 | 0.63 | 1550 | 50 | 42 | cUL, UL |
| ECR85xxx2 | 230 / 50-60 | 0.58 | 1400 | 47 | 42 | CE |
| ECR95xxx1 | 115 / 60 | 1.30 | 1550 | 50 | 42 | cUL, UL |

Product Specifications

| | |
|------------------------------------|--|
| Approvals | cUL ^{us} , CE |
| Speed | Standard speed or user defined speed. |
| Electronic Control Safety Features | <p>If the motor fails to start, locked rotor/stall detection switches the motor to standby mode, with automatic restart after 60 seconds. This software detection protects the motor with a timed restart algorithm to limit maximum winding temperature.</p> <p>Self-resetting thermal protection stops the motor if over-temperature occurs. The motor restarts when the winding temperature is back within the operating range.</p> <p>Overload detection maintains torque within a preset range. Software adjusts the speed if overload occurs, protecting the motor from overheating.</p> |
| Moisture and Dust Protection | ECR85/95 motors are IP42. In all ECR85/95 motors the electronic control board is potted for complete moisture protection. |
| Operating Temperature | -30°C to +40°C (-22°F to +104°F). |
| Voltage Range | 190V-254V 100V-127V |
| Direction of Rotation | Reversible. Direction of rotation can be either CCW SE (standard) or CW SE (upon request) as seen when facing the motor from Shaft End (SE). For CCW SE rotation, the black and blue wires are connected together. For CW SE rotation, the black wire is connected to the brown wire. |
| Weight | 1.25 kg (2.76 lb) |
| Special Designs | <p>Timed reverse operation.</p> <p>Two speeds for day/night operation.</p> <p>Different power leads.</p> <p>For more special designs, please contact a Wellington office near you.</p> |
| Two Speed Operation | Two speed operation allows for switching from full speed to low speed, reducing energy consumption. Typically used when the compressor is not operational or when night mode is engaged. |
| Timed Reverse Operation | Motor reverses direction of rotation during defrost and keeps condenser coils clean and more efficient. This reduces energy and service costs. |

*** Recommended for New Designs ***



| Dimensions | A | B | C | D | E | F | G | H | I | J | K | L |
|------------|------|----|------|-----|------|------|------|------|-----|------|------|------|
| mm | 88 | 51 | 167 | 112 | 91 | 44 | 7.94 | 65 | 381 | 72.1 | 7 | 50 |
| inches | 3.46 | 2 | 6.57 | 4.4 | 3.58 | 1.73 | 0.31 | 2.56 | 15 | 2.84 | 0.28 | 1.97 |

| | |
|-------|--------------|
| Black | Control lead |
| Blue | Neutral |
| Brown | Line / Phase |