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electric motor problems diagnostic techniques emerson how to check an electric motor testing troubleshooting top cause of single phase motor malfunctions fluke how to troubleshoot motors and drives at the inputs fluke the basics of motor testing troubleshooting guide motor and motor control troubleshooting techniques ec m

troubleshooting other potential problems 1 check the start or run capacitor most capacitors are protected from damage by a metal cover on the exterior of the 2 inspect the rear bell housing of the motor some motors have centrifugal switches used to switch the start run 3 look at the detecting troubleshooting and addressing transients is important because transients can damage motors and other parts of the motor circuitry diagnostic benefits by checking the supply voltage current and frequency first you can rule out issues that might affect the motor drive or breaker circuits to troubleshoot a split phase motor apply the following procedure turn power to motor off visually inspect the motor replace the motor if it is burned the shaft is jammed or if there is any sign of damage check to determine if the motor is controlled by a thermal switch a good rule of thumb for troubleshooting a motor is to first rely on your senses is the motor hot or overheating does it smell or sound unusual is it physically behaving in an erratic way to begin an evaluation check in first on the basic measures of motor performance current levels power voltage and resistance once you 39 ve corrected all identified problems and the motor is installed and aligned you 39 re almost done energize the motor and test the controls and overall system operation while the motor is running record the operating voltage and current check the balance and verify that your measurements are within the nameplate specifications problems on ac motors most stator faults are caused by insulation breakdown which leads to winding failure they include 1 open windings 2 phase to ground 3 phase to phase 4 turn to turn short if the motor keeps running with stator faults a high current will flow through the windings where the problem is located this high

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