



## FULLY INTEGRATED CFE IS COMPLETE SOFT STARTER SOLUTION FOR DIRECT REPLACEMENT OF STAR/DELTA & DOL STARTERS.



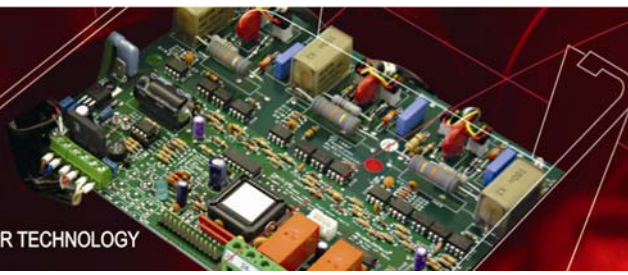
Fairford's new CFE is a fully integrated, complete soft starter solution for electric motors up to 22kW. IP55 rated for protection in dusty and wet environments, the CFE is a direct replacement for star/delta and DOL starters, providing easy installation, with just three wires in, and three out.

The CFE integrates a soft starter, a main contactor, a bypass contactor and an adjustable thermal overload in a compact and rugged IP55 enclosure. It is suitable for all types of three phase induction motors in the range from 3Kw to 22Kw. Offering the flexibility inherent in a fully digital architecture, the CFE equips the user with a comprehensive set of ten pre-programmed starting profiles to cater for a wide range of equipment such as pumps, fans, compressors and conveyors.

Although highly compact, the CFE units pack in a host of practical user features such as a pump "kick-start" option for high breakaway torque loads; over-current "shear-pin" protection; multi-ramp starting and stopping; top-of-ramp and run relays; phase loss protection at starting; Thyristor short-circuit detection, and soft-stop to give controlled deceleration.



INNOVATION IN SOFT STARTER TECHNOLOGY



With their high levels of functionality, CFE soft starters are a highly efficient and cost effective replacement for direct-on-line (DOL) and star/delta methods of motor starting; they apply the necessary starting and acceleration torque, gently, thereby avoiding mechanical shocks. In addition, the greater certainty in starting attained using the CFE means that equipment, previously left running as a safeguard against failure during starting, can now be switched off, realising substantial savings on plant energy costs.

Installing the CFE offers benefits in that the life of both mechanical components such as belts, chains, gears, couplings – and electrical components such as contactors, is automatically extended, not only because of fewer failures, but also as a result of reduced wear. For the user this improved reliability and operating life means more efficient production – *without interruptions*, and also cost savings from reduced maintenance and equipment replacement costs.

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