



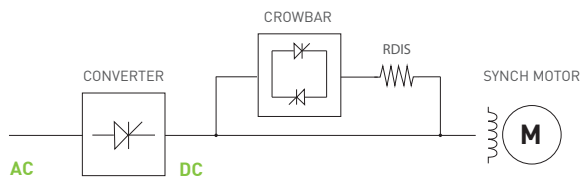
# DigiFEX™ Family

## Digital Field Exciters for Synchronous Motors

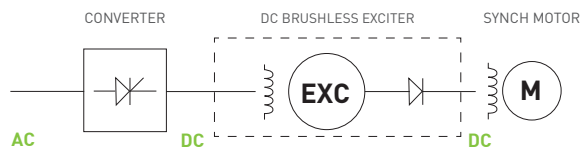
### DigiFEX™

Digi FEX™ is a family of Digital Field Exciters designed for Synchronous Motors. Each product is engineered to carefully protect your different motor types and applications. Our three main Field Exciter configurations are:

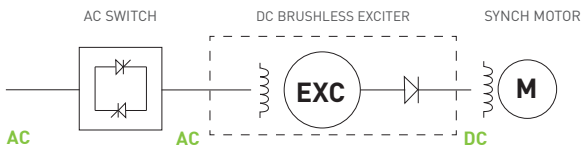
#### DigiFEX™ Collector Ring



#### DigiFEX™ DC Brushless



#### DigiFEX™ AC Brushless



The Digi FEX™ is designed to control the motor starting sequence and allows a real-time tracing through the screen by showing the digital control signals status and trends for armature and exciter field current. Accurate sensing of motor speed\* and rotor angle, allows the Digi FEX™ to apply field current at optimum speed and reducing power system disturbances. All different starting methods such as Reactor, Capacitor, Autotransformer, etc. are allowed, or if required, more complex starting and stopping sequences can be adopted.

The Digi FEX™ furnishes built-in configurable outputs for field current, motor kW, kVA or PF (cos  $\Phi$ ) and configurable analog inputs for interface with high-level control systems. Variety of industrial networks such as TCNet, Ethernet TCP/IP, Profibus among others are available.



### Main features:

- ▶ Regulation Modes
- ▶ Current Setpoint
- ▶ Reactive Power (KVars)
- ▶ Power Factor
- ▶ Event-log and Alarm Handler
- ▶ Field Forcing
- ▶ Web-Server Monitoring
- ▶ Digital Operator Interface

### Configurable Protections:

- ▶ Pull-Out Protection
- ▶ Over/Under Fld Current
- ▶ Motor Stall\*
- ▶ Consecutive starts
- ▶ Fld Current Tracking
- ▶ RTD's (optional)
- ▶ On Screen Ready/Run Permissives
- ▶ Self-Test Program
- ▶ Starting Sequence

*\*Additional speed sensor required.*

