

Vilter™ motor starter solutions

The NEW industry standard in motor starter packages



Vilter™


EMERSON
Climate Technologies

Electrical safety by design

Built to Underwriters Laboratory (UL) 508A

UL Standard for Safety for Industrial Control Panels. An electrical safety standard for determining internal electrical components and wiring methods to calculate the short circuit current rating (SCCR) of industrial control panels. SCCR's are important because they inform us of the level of fault current a control panel can safely handle so as not to injure people, catch fire or cause external hazards outside of the enclosure.

The Vilter standard

Vilter engineered motor starters are the definition of electrical safety in the workplace. Intelligent, flexible and robust our motor starters are built with the end user in mind. We understand the importance of everyday employee safety and the many expenses associated with electrical injuries and damaged equipment.

Using intelligent components and unique design features reduces and/or eliminates electrical hazards while giving the operator meaningful tools away from those hazards; therefore, reducing and eliminating the costs of employee injury, equipment downtime or replacement and loss of product. Intelligent components are also used for preventive maintenance to prolong the life of equipment and prevent unwanted shutdowns.

Our motor starter design is flexible to accommodate unique applications and can be customized to fit into specific locations. Retro-fitting an older style motor starter line-up is not uncommon and allows the use of existing electrical pipe and wire infrastructure. Our turnkey motor starter solutions begin at the site survey, then takes us through the design phase and ends with the installation, start-up and training.

Our robust design lies within the electrical safety standards of UL 508A and NFPA 70 NEC. We also recognize the significant NFPA 70E obligations that end users operate under and try to ease that burden through our design. Electrical safety by design is truly accomplished by incorporating all three standards into one motor starter solution that is safer and smarter for our end users.



Built to National Fire Protection Association 70 – National Electrical Code (NEC)

The NFPA is a non-profit organization with the task of minimizing the risk and effects of fires through codes, standards, research and education. The NEC is a U.S. electrical standard that covers safety requirements for electrical design, installation, wiring and inspections.

Features

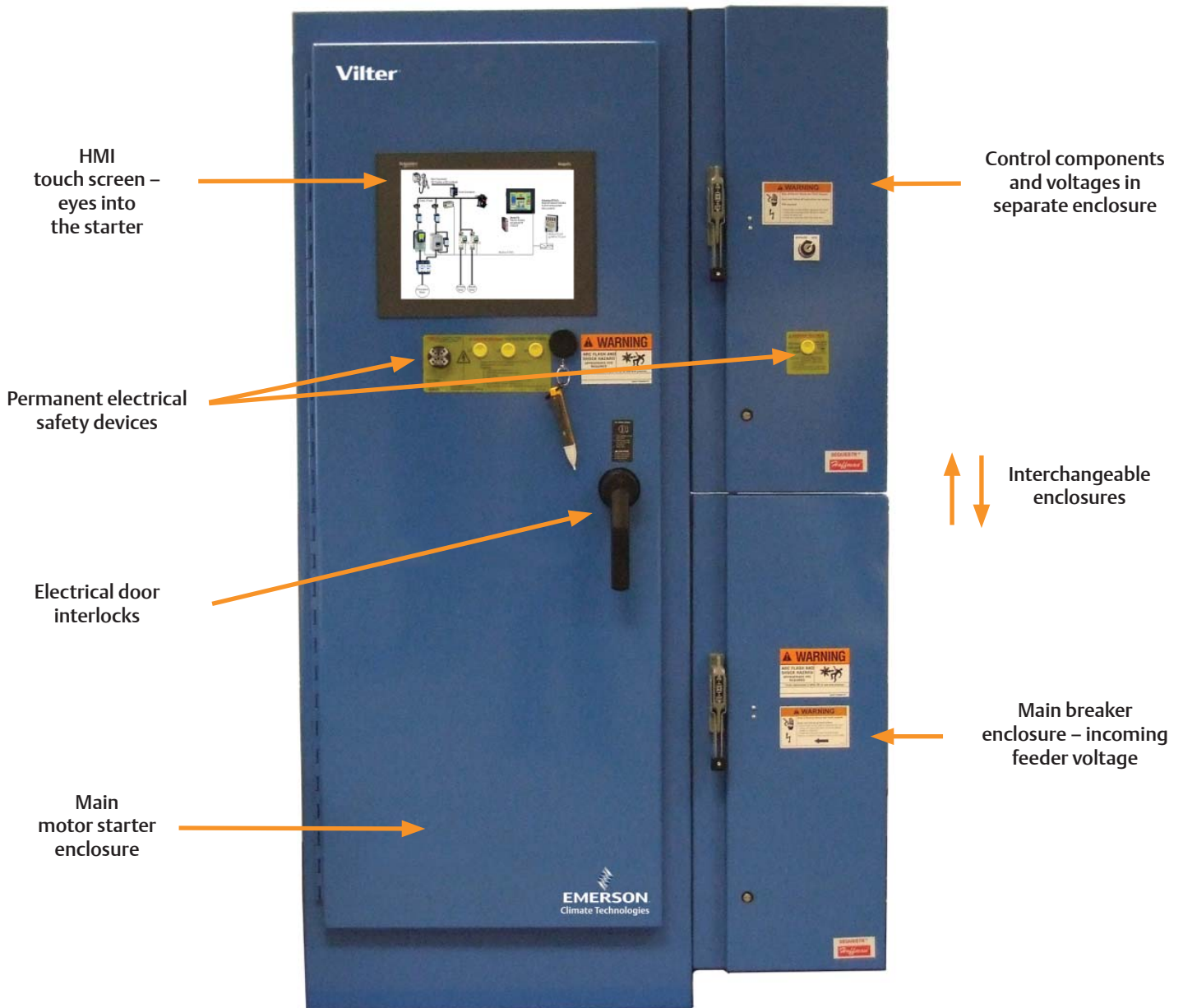
- Human Machine Interface (HMI) touchscreen allows operators to safely interface with internal components without exposure to electrical hazards.
- Modular electrical enclosures isolate power and control voltages that significantly reduce exposure to electrical hazards when accessing the control circuit.
- Permanent Electrical Safety Devices (PESD), visual indicators and a non-contact voltage detector warn operators if voltage is present inside the motor starter.
- Data acquisition by the HMI records motor and electrical information for troubleshooting and future use.
- Data collection and trending screens facilitate predictive/preventive maintenance programs that help eliminate unanticipated shutdowns.
- Electromechanical door interlock is locked when the main breaker is in the 'on' position preventing entry into energized main motor starter enclosure.
- Flexible connectivity via network interface module allows easy integration into existing facility networks.
- Superior safety and reliability – built to UL 508A with a 65,000 amp short circuit current rating.
- Turnkey motor starter retrofit solutions encompass the site survey, solution design, installation (removing one starter at a time to keep system running), start-up and training – we take care of everything!



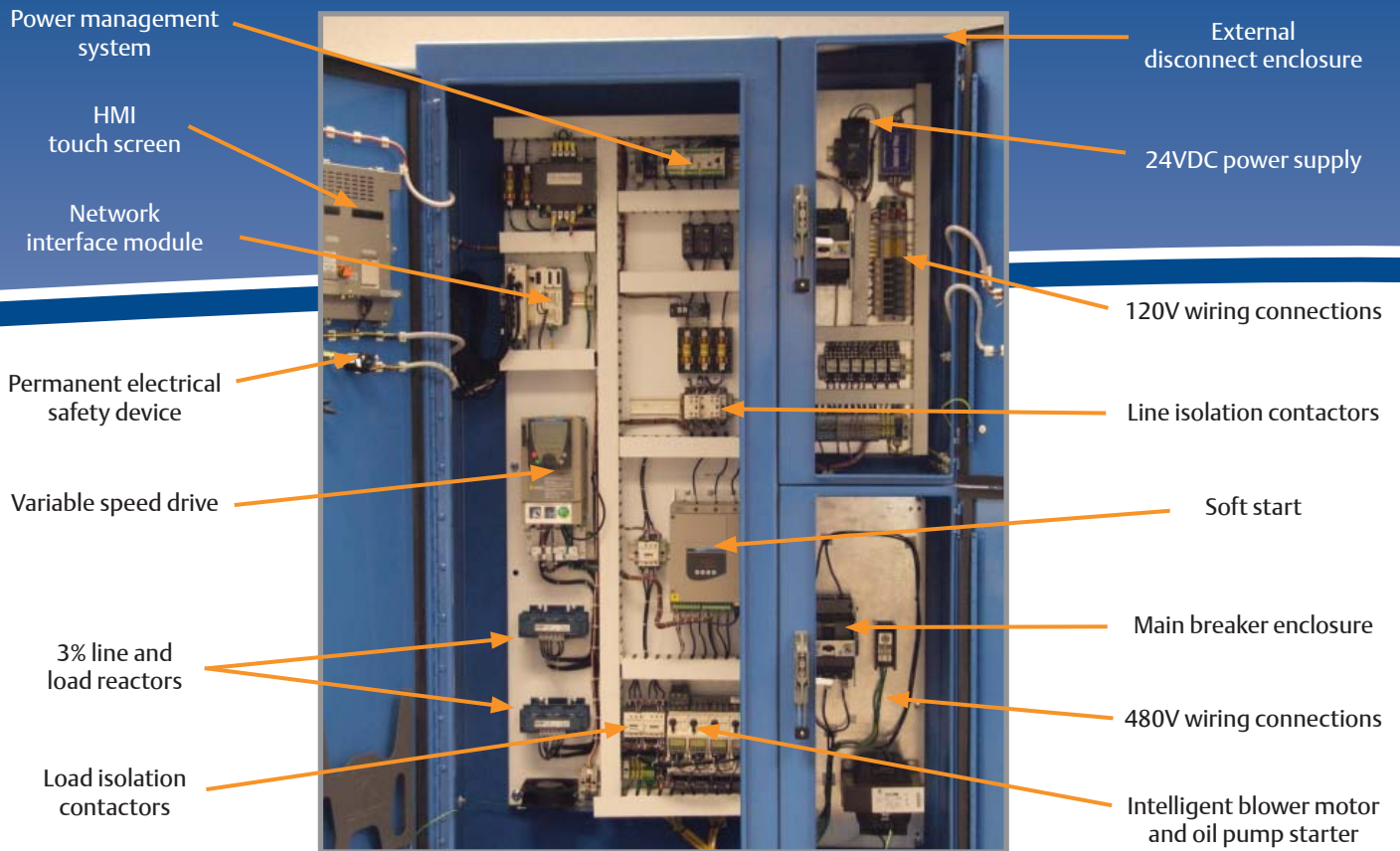
Built toward National Fire Protection Association 70E – Standard for Electrical Safety in the Workplace

NFPA 70E covers electrical safety requirements to provide a safe working environment for employees. The standard also assists the Occupational Safety and Health Act (OSHA) in preparing electrical safety standards – in particular, electrical shock and arc flash hazards. In this regard, Vilter motor starters are engineered to eliminate and/or significantly reduce the risk of electrical accidents while giving operators the tools they need to troubleshoot, set-up and monitor their equipment while energized and away from electrical hazards.

Keeping employees safer and helping employers comply with OSHA and NFPA 70 E



Vilter standard motor starter system



Vilter motor starter components

Variable frequency drive

- Advanced features, functions and performance
- User friendly interface – Plain text with six languages
- Ease of set up with ‘Simply Start’ menus
- Expandable communication and I/O
- Three skip frequency bands
- Level A EMC filters
- 1 to 900 HP
- UL, CSA, CE, G-Tick, GOST



Power management

- Energy management system
- Motor protection, system monitoring, statistics and control
- Predictive maintenance capabilities – Process drift
- Communication capabilities
- UL, CSA, CE, CCC



Soft starter

- High performance soft start for state of the art systems
- Torque controlled starting and stopping
- Communication capabilities
- 10 to 1000HP
- UL, CSA, CE, G-Tick, GOST



Intelligent starter

- Oil pump and blower motor starters
- IEC and NEMA rated motor starter
- Disconnect, circuit protection, control and overload in one compact solution
- Intelligent overloads for high level protection, monitoring and diagnostics functions
- Interchangeable overloads
- Communication capabilities
- Up to 32A @ 480VAC
- Meets UL508E – Not-welding contacts
- UL, CSA, CE



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