

Electric Motor Controller

Type H220s-xkW-xV Version r1a



Technical Datasheet

This electric motor controller, type H220s, is specifically designed to meet and exceed the requirements of standards EN12845, LPS1237 and LPC TB210. The controller will start and stop one electric motor by use of a soft starter module, which is activated by a pressure switch input or by a manual start push button. There is a by-pass contactor that is activated once the motor is up to full speed. The controller is designed for 415v 3 phase (No neutral required) 50Hz mains supplies and can be designed for other voltages, such as 230v 3 phase. Note; The motor starting current will be between 3-5 times motor FLC.



At the heart of the control system is a purpose designed input/output board and a door mounted module with a graphic display and push buttons. This combined system provides a user-friendly interface for ease of set up, operation and installation.

The control system provides data logging of all events, each logged with time and date. A USB port is provided to enable the various log files to be downloaded.

The graphic display provides the following information:

Line to line voltmeters,	Frequency,	Motor current,	Hours run
Power,	Power factor,	Demands,	Phase rotation

The system can optionally show and store water pressure if a pressure transducer is fitted.

Indicators are provided for the following:

Pump on demand	Running output	Pump running	Not in auto
3x Phase healthy	General alarm	Failed to start	

The following timers and set points are available as a minimum:

Delay start timer,	Failed to start timer,	Star to delta timer	High & low voltage
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Volt free contacts are provided, with a rating for 30v DC at 0.3A for:

Mains supply status,	Pump on demand,	Pump running,	Pump Failed
Not in Auto	Common fault		

The motor protection is via fuses sized in accordance to BS-EN12845, LPS1237 and TB210. A motor ammeter is provided on screen. The enclosure is rated to IP65 as standard and is manufactured from mild steel finished in red. An electronic alarm is provided, which is mutable, to sound when an alarm is present.

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