

Technical Datasheet

This electric motor controller, type H800 is specifically designed to meet and exceed the requirements of NFPA20 and FM approved to class 1321/1323 for the control of one electric motor for star-delta, open transition starting method.

The control system comprises of a graphic user display, LED indicators, actual discrete push buttons for all operations and a purpose designed interface board.

The graphic display shows both 3x Line – line voltages, 3x motor current, Voltage Frequency, Motor hours run, water pressure and all active alarms.

The display and push buttons are used to modify parameters such as the minimum run timer, delay start timer, start & stop pressure etc. There are also several spare inputs and volt free contacts that can be assigned functions.

The enclosures (four sizes for the entire range) are designed as standard to IP55, with options for IP65 in mild steel or stainless steel (304 or 316). The paint finish is RAL3002.

There is a WIFI connection that can be used to download the various log files, which consist of events and water pressure information.

MODBUS RS485 & TCP-IP remote monitoring are included as standard.

Note; Although this controller is star-delta starting, the emergency start mechanism is DOL, this must be considered when specifying/sizing the incoming mains supply.



Alarms and Indications		
Loss of phase Phase reversal Motor running Failed to start	Low/high frequency Low/high current Low/high voltage	Pressure transducer fault Low water tank level Under/over system pressure Low system pressure

Volt free change over contacts (250vac at 8A rated)		
Pump room fault Power available	Controller/ Motor fault	Motor running Programmable x3

Push buttons / Switches		
Start Stop Test start Settings Reset alarms	Navigation control arrows Home Settings Back	Emergency start AC isolator, door interlocked

H800 Mains supply

- = 380-415v
- a= 200-208
- b= 220-240
- c= 440-480

-Options

- a1 IP65 mild steel
- a2 IP65 304 stainless steel, brushed finish
- a3 IP65 304 stainless steel, RAL3002 finish
- a4 IP65 316 stainless steel, brush finish
- a5 IP65 316 stainless steel, RAL3002 finish
- b 10 Digital input board
- c 5 Digital output board
- d Board tropicalisation
- f1 Fresh water 40bar maximum
- f2 Sea water, 25bar maximum
- f3 Sea water, 40bar maximum
- h1 Anti-condensation heater, with thermostat
- h2 Anti-condensation heater, with humidistat
- m1 Motor heater, 150w maximum

H800 = star-delta, open transition (range = 5-500hp at 380-415v)

H801 = as above but with automatic transfer switch.

FM Approved from 4 to 55 deg Celsius. Standard plumbing arrangement (pressure transducer & drain valve) is rated at 25 bar.

