

## Electric Motor Controller H810

Version 1.1

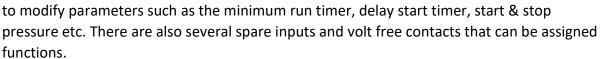
## **Technical Datasheet**

This electric motor controller, type H810 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 DOL (direct on line) 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



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.





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

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

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

H810	Mains supply	-Opt	cions
	= 380-415v	a1	IP65 mild steel
	a= 200-208	a2	IP65 304 stainless steel, brushed finish
	b= 220-240	a3	IP65 304 stainless steel, RAL3002 finish
	c= 440-480	a4	IP65 316 stainless steel, brush finish
		a5	IP65 316 stainless steel, RAL3002 finish
		b	10 Digital input board
		С	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

H810 = Direct online (range=5-450hp at 380-415v) H811 = 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.





