

Electric Motor Controller H200s

Version r1d

Technical Datasheet

This electric motor controller, type H200s, 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 star-delta (H200s) starting means which is activated by a pressure switch input or by a manual start push button. Other starting methods such as direct on line (H210s), VFD (H230) & soft start (H220s) are also available. The VFD (H230) version can be used for reduced starting current and pressure limiting purposes. 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.



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

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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Controller Fuses & Cable Details;

	Typical			Incoming
motor	Full load	Fuse	Fuse	Cable
kW	current	Rating	Туре	Sizes
5.5	12	16A	10x51 16A aM	2.5-16mm
7.5	14	20A	10x51 20A aM	2.5-16mm
11	20	32A	10x51 32A aM	2.5-16mm
15	28	40A	14x51 50A aM	2.5-16mm
18.5	34	50A	14x51 50A aM	2.5-16mm
22	38	50A	14x51 50A aM	2.5-35mm
30	54	63A	14x51 63A aM	2.5-35mm
37	66	100A	NH00 100A aM	95mm
45	80	125A	NH00 125A aM	95mm
55	95	125A	NH00 125A aM	95mm
75	130	160A	NH00 160A aM	120mm
90	155	250A	NH-1 250A aM	120mm
110	188	250A	NH-1 250A aM	185mm
132	229	315A	NH-1 315A aM	185mm
160	275	400A	NH-1 400A aM	185mm
185	304	400A	NH-2 400A aM	240mm
200	336	400A	NH-2 400A aM	240mm
250	425	500A	NH-3 500A aM	40x42 Cu plate, M12 bolt

Nomenclature;

H200s-xKW-y x=kW rating, y= AC voltage