



NEMA
UL c UL

IPS INTELLIGENT PUMP STARTER

50/60 Hz, 1Ø & 3Ø, 120~600 VAC, 1/3 - 300 hp

Integrated electronic pump protection overload

Power metering and data logging options

More Protection, Less Nuisance Trips

Integrated Tru-power™ electronic motor and pump protection

- Eliminates need for costly pump protection relays
- Dry pump detection using power (nuisance trip-free); automatic restart for well recovery mode
- Wide range class 5-30 electronic overload eliminates call backs due to mid-sized heaters
- Advanced protective features include over/under voltage, phase loss, phase unbalance, stalled/locked rotor, cycle fault, and UL 1053 ground fault
- Tru-power™ sensing protects pumps from dry pump, dead head, runout, and jammed impeller conditions - keeping you online and preventing costly premature pump failure. Along with superior protection, measuring underload using power allows for a more flexible trip range, as opposed to measuring by current, which requires a more precise set point. The end result is the elimination of nuisance trips.

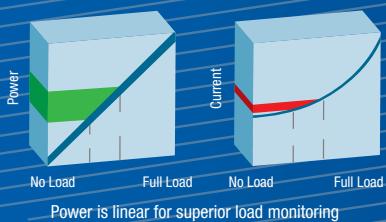
Adjustable over/under voltage is included. Plus you get phase unbalance, loss, anti-cycling, phase sequence, and warm start protection. Our overload is wide range - so you never have the wrong sized heaters.

Built-in power monitoring and fault logging for easy troubleshooting

- View voltage, current, power factor, and more through an intuitive display
- Last 5 fault types are recorded (all power condition values are stored)
- Quickly identify common power problems such as phase imbalance, voltage drop, and over/undercurrent conditions to ensure proper pump operation

Optional Ethernet card provides time-stamped data logging, ending utility power disputes

- Download and display up to 100 faults and alarms, including operational mode and values of operation at the time
- All power condition values are stored by phase for voltage, current, and power factor per fault
- Data is easily displayed and saved on any web browser using an Ethernet connection. Starter incorporates internal web-server. No programming required
- Time and date stamped for utility documentation



Get up to 100 faults - even utility power quality - on any web-browser!

Easy to setup and use

- Inside, the display shows an easy to use menu for setting a wealth of parameters. Adjust any protective or control setting in seconds. For example, choose how long to allow for dry well recovery, set run time periods and On/Off delays. All this with just a few intuitive keystrokes. The IPS ships with factory default settings pre-programmed for optimal submersible pump protection.

Internal keypad menu for easy operation

- All control and protective functions are easily programmable
- LEDs indicate Hand/Off/Auto modes, run and fault conditions

Industrial grade construction for long life

- Door mounted pilot devices include HOA switch
- UL/NEMA 3R outdoor rating
- Multi-tap transformer accommodates common voltages; no fuse(s) required
- 120 V control power for field devices
- Magnetic contactors feature 2.5 million contactor electrical cycles at full rated current

Advanced programmable pump control options

- Auto-restart with well recovery timer
- Backspin delay prevents start-ups into draining system
- On delay and off delay settings
- Minimum run time based on last input
- 12-120 V auto run terminal for remote start/stop
- Dry contact terminal for remote start/stop
- Analog input for transducer for use with pressurized tanks (under development - consult factory for availability)

Main circuit breaker disconnect rated for service entrance

- UL 489 circuit breaker provides branch and short circuit protection
- No fuses required – saves time and money
- Lockable handle for safety



UL/NEMA Type 3R enclosure

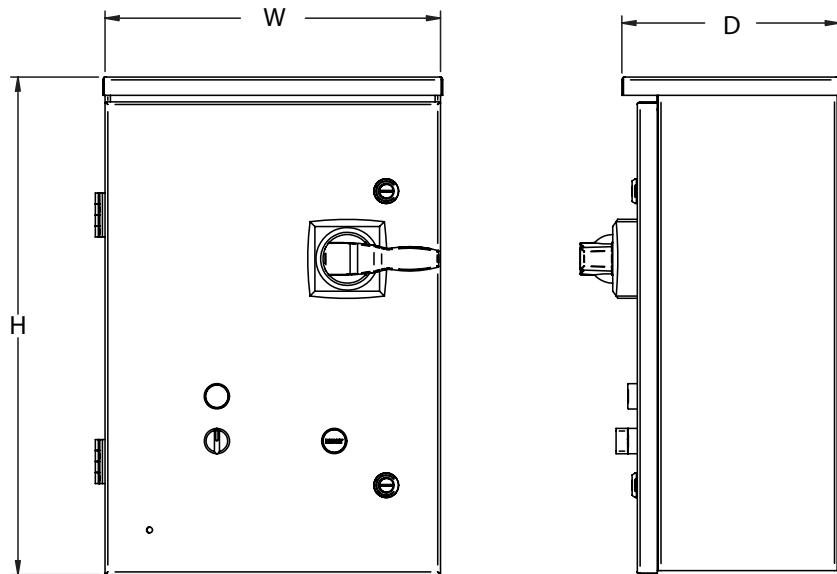
IPS Accessories

| Model No. | Wt. (lbs) | Description |
|-----------|-----------|--|
| IPS-ENET | 0.5 | Data and Fault Logging with Date/Time Stamp, Ethernet Output |
| IPS-LTA | 1 | Lightning/Surge Arrestor |
| IPS-SPB | 1 | Start Push button Control (Door Mounted) |
| IPS-STSP | 1 | Start/Stop Push button Control (Door Mounted) |
| IPS-TMR | 0 | Programmable Timer Functions: Backspin, On Delay |

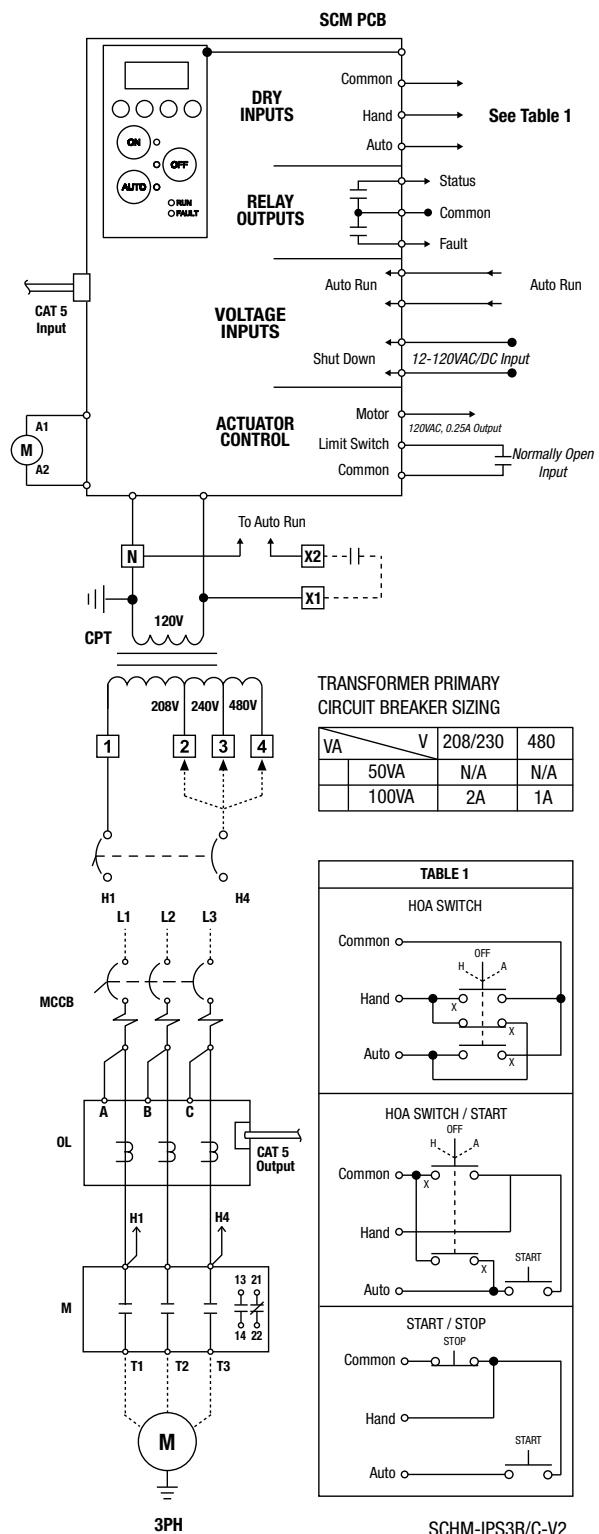
IPS Dimensions

| Starter Size | H | W | D | Description |
|----------------|----|----|----|----------------------|
| Size 1, Size 2 | 22 | 15 | 10 | |
| Size 3, Size 4 | 32 | 15 | 10 | |
| Size 5 | 42 | 30 | 12 | |
| Size 5+ | 48 | 36 | 16 | UL/NEMA 3R Enclosure |

*All measurements in inches



Wiring Diagram



SCHM-IPS3R/C-V2

