

# PRODUCT DATA SHEET

BIA-NXT-SPC 3-40 • 811196



## PRODUCT DETAILS

The Bia nXt-SPC (single Pump Controller) is a module intended to control and protect an individual 3 phase pump up to a nominal 4.0 kW. The user can select a control logic sequence to match their application and enjoy the benefits of superior control and protection for the pump.

There are 3 primary control logic modes

- 'Drainage' where control concentrated at the source
- 'Boosting' which references pressure switching for control
- 'Transfer' which is a mix of source and destination control

nXt-SPC has 2 x passive dry contacts and is equipped with a RS485 modbus interface to connect to a BMS

## PROTECTION FUNCTIONS

Protection functions can be set, enabled or disabled independently

- Over voltage
- Under voltage
- Dry Run (under current)
- Overload (over current)
- Pump stall
- Open phase protection
- Phase reversal
- Phase in-balance (input / output)
- Pump anti-seize (96hr default)
  
- Manual or Automatic operation
- nXt-SPC has an audible alarm and a flashing light to indicate an alarm state. It supports an external alarm unit
- Fault log
- Pump accumulated running time memory
- Pump start / stop delay time setting



## CONTROL INPUTS

- Switched input - float, pressure switch, temperature switching
  - Level probe (capacitance type probes)
- OR
- 4-20mA level or pressure transmitter

## TECHNICAL DATA

<b>RATED VOLTAGE (V)</b>	3Ph 400V +10/-6%
<b>MAX AMPERAGE</b>	12 amps
<b>DEGREE OF PROTECTION</b>	I.P. 65
<b>WORKING HUMIDITY</b>	20% - 90% RH

<b>POWER CABLE &amp; MATERIALS</b>	None - bare controller only
<b>WORKING TEMPERATURE</b>	-25degC to 55 deg C
<b>UNIT DIMENSIONS (L X W X H)</b>	342mm x 253mm x 130mm
<b>UNIT WEIGHT (NET)</b>	3.3 kg approx