

### PUMP CONTROL CPS-B - with Soft Start

...gentle on material!



**NEW!** - WITH SOFT START!



pump control CPS-B2 - soft start

The new compact pump control CPS-B1 and -B2 with soft start of Condor, are designed for the **automatic control of one or two pumps (max. 11 kW/25A)**.

**With high quality basic equipment in standard execution** (main circuit breaker, manual motor starter, Manual-0-Auto sensor buttons, LCD displays for operating conditions of the pumps, soft start, ...) optionally equipped with additional accessories.

This pump control can be among other things for the operation of pumps and sensors in explosive areas (ATEX). \*\*

#### Advantages

- **compact housing** (w400xh390xd170mm)
- **high quality basic equipment** in standard execution (main circuit breaker, manual motor starter, soft start, Manual-0-Auto sensor buttons, LCD displays for operating conditions of the pumps, external serial PC-interface, display illuminated, extensive functionality and adjustability - see detailed description)
- **Soft start (three phase systems)** - the soft starter controls the voltage steps from a selectable initial value to one hundred percent - this allows a stepless acceleration of under load motors from standstill
- **Soft start** - this cuts maintenance costs and extends the pump's lifetime
- suitable for the operation of **pumps (EEx d) in explosive areas (ATEX) \*\***
- **free installation areas** e.g. for two zener barriers (operation of measuring and control technology as safe electrical circuits)\*\*

#### STANDARD VERSION

##### Functions, Operation & Display

- ATEX-mode
- display of operating hours and switching cycles
- error list (20 fields saved retentively)
- manual-OFF-Automatic - mode selection
- main circuit breaker
- transparent cover locks in the open status
- plain text display (LCD-display with 2x16 characters, illuminated)
  - LED display for operating pump status
  - LED display for operational readiness
  - operational fault LED display / buzzer
- prompt menu with sensor module
- motor current indication - LCD display
- from outside operable manual motor starter
- date / time adjustable
- detailed menu with all relevant setting options
- maintenance display

##### Available Connections

- 1 pump (CPS-B1) or 2 pumps (CPS-B2)
- thermal contact (zero voltage safe)
- connection for external maintenance switch
- 2x 230V / 2A output for possibly small compressor
- 3x potential-free alarm relays (3x change-over contact)
- float switch terminal for emergency operation function
- RS232- connection for software update
- terminal blocks for network supply
- plug-in terminals for level measurement
- terminal blocks for pump connection (Line / Delta)

##### Level Monitoring

- 1, 2 (CPS-B1) or 3 float switches (CPS-B2)
- dynamic pressure measuring system (modular optional attachable)
- 4-20 mA analog input e.g. for level sensor
- separate high water float switch

\* Photo shows optional accessories. Please refer to the back!

\*\* The rules of the DIN EN 60079 to be observed! The pump control is only in provided for the „safe area“.

### PUMP CONTROL CPS-B - with Soft Start

- Technical Details -

#### Adjustable Control Parameter:

- alarm relay, programmable function
- ATEX-Mode
- date / time
- phase sequence monitoring and phase drop monitoring via soft start
- turn-on-delay
- on / off switch levels of the pumps
- reading errors
- integrated buzzer (can be turned on/off)
- integrated time switch for compressor function
- short pump start against locking
- load changeover time for pumps
- max. pump operating time
- follow-up time
- password protection
- pump power monitoring (electronic)
- soft start - adjustable parameters (start / stop ramp, kick start, starting voltage, current monitoring, Line or Delta)
- compressor or agitator activation
- installed languages: DE, EN, FR, NL, IT (other languages on request)
- power monitoring (thermal-magnetic)
- delay time between pump 1 and pump 2 (CPS-B2)
- maintenance display
- periodic emptying

#### Options:

- battery 12 V / 1,2 Ah + cable set (buffering power failure alarm)
- installation in exterior columns  
+ panel heater, + flashing light, + small compressor
- graphic LCD display
- pressure sensor (measuring range 0-2 meters w.c.)
- cylinder lock for the cover
- zener barrier (1 or 2 pieces integrable)
- additional cable glands

#### Technical Details:

- |                             |  |  |
|-----------------------------|--|--|
| ▪ housing :                 | ABS-plastic housing                                      | ▪ operationg voltage / supply line: 400V / 230 AC 50/60 Hz |
| ▪ dimensions:               | w400 x h390 x d170 mm,<br>incl. accessories              | (3L, N, PE)  |
| ▪ cable glands:             | 3x M32 x1,5<br>2x M25 x1,5<br>6x M16 x1,5<br>1x M12 x1,5 | ▪ temperature range: 0 ... +50°C                           |
| ▪ protection class:         | IP54   | ▪ potential free alarm contact: 5A (2A inductive)          |
| ▪ max. protection on site : | 50A  | ▪ power: 4 - 7,5 kW  |
| ▪ max. power of the pump:   | 7,5 kW / 11 kW   | rated current: 5,3 - 16 A                                  |
| ▪ number of pumps:          | 1 pump (-B1); 2 pumps (-B2)                              | power: 7,5 - 11 kW   |
| ▪ control voltage:          | 230V AC / 24 V DC  | rated current: 8,3 - 25 A                                  |

#### Contact:

**Please contact us,**

if you have any questions about this product or any other of our products.

**We are here to assist.**



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