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Pump control CPS-B with soft starter

Pump control CPS-B with soft starter

... gentle on material!



pump control CPS-B2 - soft starter - new generation

Compact pump control CPS-B1 and -B2 with soft starter of the latest generation, 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, new QVGA color touch screen 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, **QVGA color touch screen for operating conditions** of the pumps, external serial PC-interface, display illuminated, extensive functionality and adjustability - see detailed description)
- **Soft starter (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 (Ex d) in explosive areas (ATEX)** **
- **free installation areas** e.g. for two zener barriers (operation of measuring and control technology as safe electrical circuits)**

Pump control CPS-B with soft starter

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
- pressure sensor (measuring range 0-2 meters w.c.)
- cylinder lock for the cover
- zener barrier (1 or 2 pieces integrable)
- additional cable glands

Operation and 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
- menu navigation via backlit QVGA color touch screen:
- graphical display and plain text display
- graphical display - for level states
- graphical display - for operating states (pumps)
- graphical display - operational fault
- motor current indication - LCD display
- from outside operable manual motor starter
- date / time adjustable
- 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

Technical Details CPS-B SA

Housing	ABS-plastic housing
Dimensions	w 400 x h 390 x d 170 mm, incl. accessories
Cable glands	3x M32 x 1,5 2x M25 x 1,5 6x M16 x 1,5 1x M12 x 1,5
Protection class	IP54
Max. protection on site	50A
Max. power of the pump	7,5 kW / 11 kW
Number of pumps	1 pump (-B1); 2 pumps (-B2)
Control voltage	230V AC / 24 V DC

Technical Details CPS-B SA

operationing voltage / supply line	400V / 230 AC 50/60 Hz (3L, N, PE)
temperature range	0...+50°C
potential free alarm contact	5A (2A inductive)
power: rated current:	4 - 7,5 kW 5,3 - 16 A
power: rated current:	7,5 - 11 kW 8,3 - 25 A

* 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“.

***Technical changes and mistakes reserve.

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