

SIRIO UNIVERSAL - SIRIO UNIVERSAL XP

More than you
can see



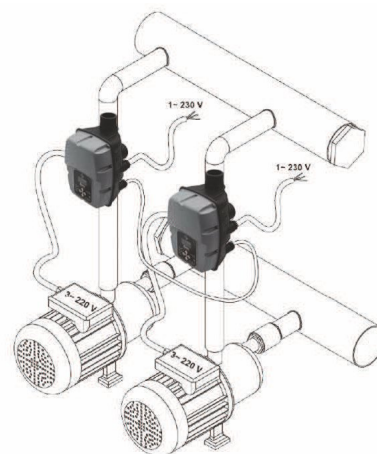
INVERTER ZA KONTROLU ELEKTROPUMPI INVERTER FOR ELECTRIC PUMPS CONTROL



Sirio Universal

Sirio Universal XP

Instalacija/Installation



Karakteristike

- Automatski pokreće i zaustavlja pumpu (površinsku i potapajuću) i podešava obrtaje elektromotora u odnosu na potražnju vode od strane sistema. Štiti pumpu od anomalija postrojenja i preopterećenja struje.
- Stalni pritisak.
- Integriran transducer pritiska.
- Moguće je deaktivirati senzor protoka ako voda nije čista ili je puna crnih metala.
- Ušteda energije.
- Zaštita od rada na suvo.
- Automatsko resetovanje u slučaju rada na suvo.
- Zaštita od curenja, prekomernog pritiska, pregrevanja, blokiranja motora i nepravilnog napona.
- Kontrola nepravilnog napona struje na motoru.
- Digitalna indikacija pritiska, frekvencije motora, napona i struje.
- Podešavanje frekvencije motora sa porastom temperature.
- Programom podesivi ulazi i izlazi za različite funkcije (mogućnosti, duple tačke podešavanja, greške, rad u boster stanicama).
- Višejezični ekran sa 16 karaktera.
- Padovi pritiska: 0,05 bara pri 150 lt/min.

Opciono – posebni dodaci

- Dostupna kartica za proširenje I/O (1 ulaz + 1 izlaz).
- Kabal za povezivanje u boster stanicama 4x0,5 mm 2 100 cm (SR-CBL4X05-100).
- Modul SIRIO X4 za boster stanice do 4 pumpe.
- Zaštitni modul za napajanje (MD-PROT230).
- Opcija za motornu pumpu velike brzine (90/100/140Hz).
- Opcija za IPM motore.
- Napredni parametri dostupni preko skrivenog menija.
- Plastični nastavci od 1" i 1 1/4" za brzu instalaciju uređaja na električnoj pumpi.

- * • Modul za Wi-Fi povezivanje koji se može instalirati u uređaj.

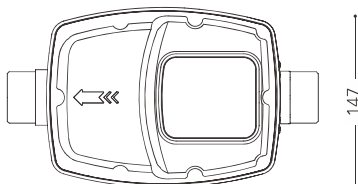
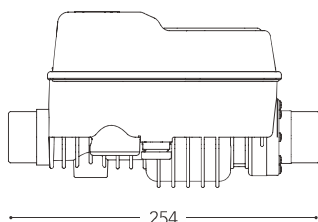
Features

- It controls the start and stop functions of the traditional electric pump (surface and submersible) and modulates the motor rotations according to the water request from the system. Hammering is reduced and inrush starting current avoided.
- Constant pressure.
- Integrated pressure transducer.
- Possibility to disable the flow sensor if the water is not perfectly clean or ferrous.
- Energy saving.
- Protection against dry running.
- Automatic reset in event of dry running.
- Protection against leakages, over pressure, over heating, rotor blocking and abnormal power supply.
- Motor over current control.
- Digital indication of the pressure, motor frequency, voltage and current.
- Adjustment of the frequency with temperature's increasing.
- Programmable input and output for different functions (enable, double set-point, error, function in twin booster sets...)
- Multilingual display with 16 characters.
- Pressure drops: 0,05 bar at 150Lt/min

Optional – special arrangements

- I/O expansion card available (1 input + 1 output).
- Cable for connection in twin booster sets 4x0.5 mm 2 100 cm (SR-CBL4X05-100).
- Interface module SIRIO X4 (SR-X4-230).
- Power supply protection module (MD-PROT230).
- Version for high speed motor pump (90/100/140 Hz).
- Version for IPM motors.
- Advanced parameters accessible by an hidden menu.
- Plastic connections of 1" or 1 1/4" for a quick installation of the device on the electric pump.

- * • Wi-Fi connection module installable in the device.





- ✓ UŠTEDA ENERGIJE / ENERGY SAVING
- ✓ STALNI PRITISAK / CONSTANT PRESSURE
- ✓ KOMPAKTNI DIZAJN / COMPACT DESIGN

F.minima
25 Hz

Minimalna frekvencija pumpe
podesiva od 10 Hz do 30Hz
Pump minimum frequency
adjustable from 10 Hz to 30 Hz

Pompa
3x230V

Izlaz motora
koji se bira
Selectable motor
output

Sen.Fl.u.
ON

Mogućnost isključivanja
senzora protoka
Possibility to disable
the flow sensor



Novi priključak struje
New line connection



Omogućava kontrolu sistema
preko web pretraživača
It allows to control the system
through a web browser



Novi priključak motora
New motor connection



Podesiva minimalna
razlika pritiska 0,3 bara
Adjustable minimum
pressure differential 0,3 Bar

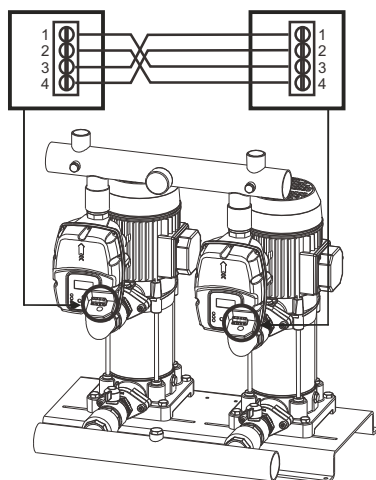


fig.1

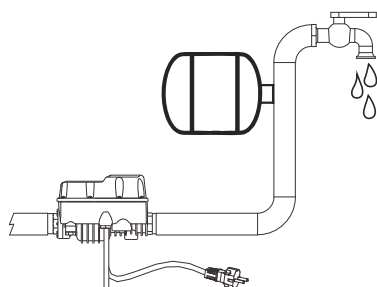


fig.2

Modul zaštite napajanja(sl.1) Modul je dizajniran da zaštiti električne uređaje od prenapona isključivanjem priključenih opterećenja. Predviđena su tri različita nivoa tolerancije: niska, srednja, visoka. Pasivna zaštita (gasni kondenzator i varistor) od brzih električnih tranzijenata(napona). Modul mora biti instaliran uzvodno od kontrolnog uređaja. Modul Sirio X4 (sl.2) omogućava povezivanje do 4 Sirio invertira u dvostrukim booster stanicama za konstantni pritisak.

Power supply protection Module (fig. 1) The module is designed to protect electric devices from overvoltage by disconnecting the connected loads. Three possible tolerance values are envisaged: low, medium, high. Passive protection (gas discharge tube and varistor) against electrical fast transients (voltage surges). The module must be installed upstream of the control device. Sirio X4 Module (fig. 2) It allows to connect up to 4 inverter Sirio in twin booster sets at constant pressure.

Primena/Applications



TEHNIČKI PODA

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Napajanje Power mains supply	230Vac ±15% 50/60Hz	
Izlaz Motor power output	monofazni 220V - single phase 220V trofazni 230V - three phase 230V (po izboru/selectable)	
Maksimalna snaga motora Max motor power	1x220V - 2Hp - 10,5A 3x230V - 3Hp - 9,7A	1x220V - 2,4Hp - 14A 3x230V - 3Hp - 9,7A
Maksimalni dozvoljeni pritisak Max allowable pressure	800 KPa (8 bar)	
Temperatura tečnosti Fluid temperature	5 °C+45°C	
Opseg regulacije Set-point adjustment range	0,5+8 bar (Pmax 3 bar - Dp.start 1 bar factory setting)	
Hidraulična konekcija Hydraulic connection	muški-muški 1" ¼ male-male 1" ¼	
Temperatura okoline Ambient temperature	5 °C+45°C	
Stepen zaštite Protection degree	IPX5	

Preporučujemo upotrebu ekspanzionog rezervoara.
We suggest to install a pressure tank.