

Product information

S-HV12 · Controller



Description

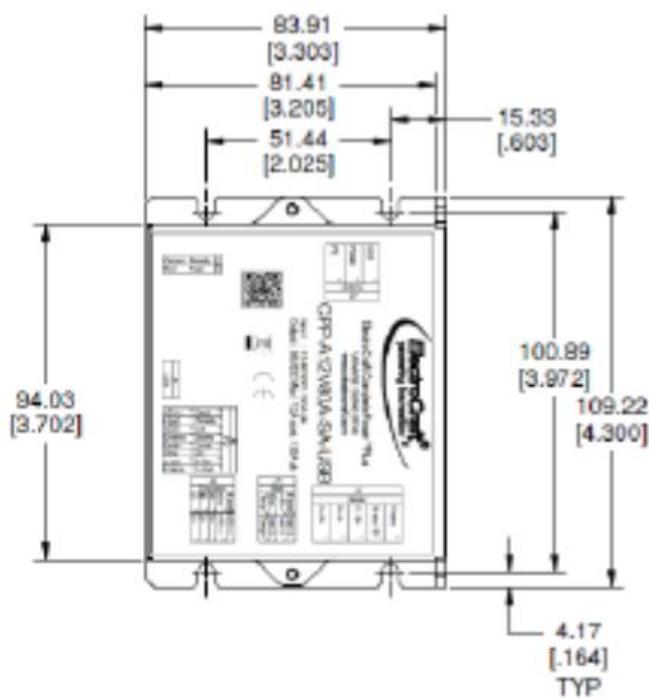
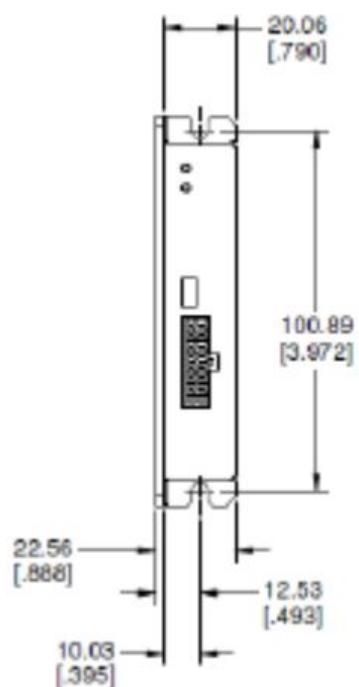
The controller S-HV12 is recommended for high requirements in control of continuous delivery tasks in combination with mzl-pumps mzl-7208, mzl-11508 and mzl-11558. The microcontroller allows speed for highly accurate dosage. The compact design offers flexible installation. Process control link can be established via a USB interface. Motor speed or flow rate can be set either by analog inputs (± 10 V).

Advantages

- Pump controller for discrete dosage and continuous delivery
- 4-Q-DC servo amplifier in compact housing
- Digital encoder regulator
- 1 analog input for speed regulation ± 10 V
- 3 digital inputs (Enable, Direction, Step)
- 2 digital outputs (Fault, Ready)
- 2 LED status indicator
- Cable set for mzl-pumps
- EEPROM memory
- Interface USB

Dimensions

Units: mm [in]



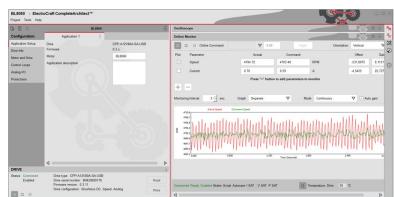
Technical data

Control	PI-controller, speed control
Supply voltage	48 V DC (12 – 50 V)
Max. power output	480 W
Max. continuous output current	12 A
Max. peak output current	30 A (< 3 s)
Velocity range	50 - 6000 rpm
Voltage	terminal screw pluggable, 3 pole
Pump connector	terminal screw pluggable 5-pols (Motor) plug connector Hall sensors 8-pols, plug connector Encoder 10-pols
Analog inputs for motor speed	1, voltage signal ± 10 V
Digital inputs	3, PLC (Enable, Direction, Step)
Digital outputs	2, (Fault, Ready)
Interface	USB
Operating temperature range	0 ... +40 °C (0 ... 104 °F)
Protection class	IP 20
Mounting	along the side or along the back
Dimensions (L x W x H)	approx. 109.5 x 85 x 24 mm, (4.31 x 3.43 x 0.92 inch)
Weight	approx. 180 g (without cable set)

Notice

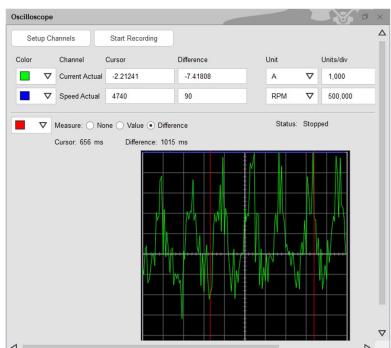
Even if single parameters are within the indicated performance range of technical data, certain parameter combinations may not be achievable. Single parameters may exceed their indicated performance range under adequate circumstances. For detailed evaluation please contact HNP Mikrosysteme. Actual performance may vary. Specifications are subject to change without notice. This document is subject to change without notice.

Software



All motor parameters for pump control can be set and saved with the software »ElectroCraft CompleteArchitect™« PC Software operating under Windows®. The programs can easily be typed on a computer and transferred to the EEPROM.

Graphic online analysis



Sample chart for speed and motor current

Patents and trademarks

Micro annular gear pumps (and housings) are protected by assigned patents: EP 1 354 135 B1; US 7,698,818 B2; DE 10 2011 001 041 B4; CN 103 348 141 B; US 10,012,220 B2; CN 103 732 921 B; US 9,404,492 B2; US 6,520,757 B1.

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