

Control unit with servo regulator

Type 5413-2777/P2..

Drive unit control

The control unit with servo regulator handles control of the various servo drive units in conjunction with the measurement and control unit.

- Controls servo drive units
- Capable of storing 64 predefined parameter sets

Description

Universal control unit with servo regulator for servo drive units such as motors, spindles and BOSCH spindles with DC-link voltages from 325 V to 560 V in the respective mains supply voltages (via additional transformers if required).

Up to 64 different, predefined parameter sets can be stored and selected via plug-in type hardware parameter selectors.

Type 5413-2777/P2.1 is designed for connection of one drive unit.

Type 5413-2777/P2.2 is designed for simultaneous connection of two drive units, whereby the two drive units can only be operated in alternate succession. The internal switching between the two drive units is realized on the software side via the operating software for the entire system.

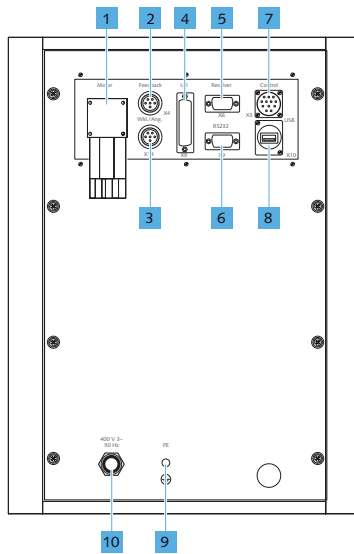
Application

In conjunction with a measurement and control unit, the control unit with servo regulator handles control of the drive unit for a Kistler Analyse system.



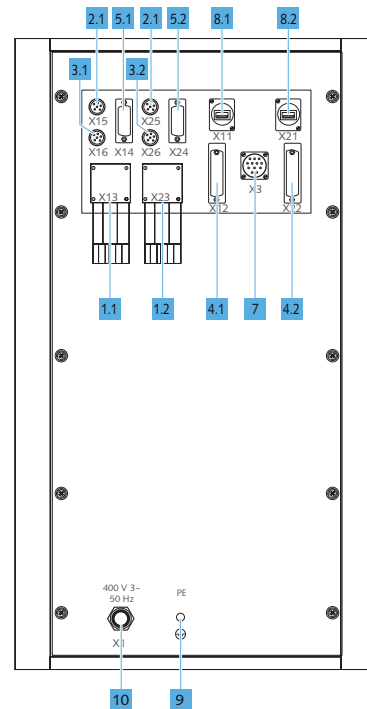
Technical data

Type	413-2777/P2.1	413-2777/P2.2
Nominal power	max. 14 kVA	
Nominal voltage	3 x 400 V +/- 10%; Other voltages are also possible when using an additional transformer (accessory).	
Nominal frequency	50 Hz / 60 Hz	
Network connection	16A-CEE connector, 5 m cable	
Dimensions (L x W x H)	350 mm x 475 mm x 400 mm	350 mm x 475 mm x 710 mm
Weight	approx. 26 kg	approx. 40 kg
Operating temperature range (Nominal temperature range)	10 ... 40 °C	
Service temperature range	0 ... 50 °C	
Storage temperature range	-20 ... 70 °C	
Air humidity	max. 70%, non-condensing	
Degree of protection	IP 20	
Protection class	I	



Connections of control unit with servo regulator 5413-2777/P2.1

- 1 Motor connection for drive unit
- 2 Feedback connection (optional)
- 3 Angle output
- 4 Parameter selector connection
- 5 Resolver connection for drive unit
- 6 RS232
- 7 Control input, measurement and control unit
- 8 USB
- 9 Connection point for equipotential bonding
- 10 Connection to power supply



Connections of control unit with servo regulator 5413-2777/P2.2

- 1.1 / 1.2 Motor connection for drive unit 1 and 2
- 2.1 / 2.2 Feedback connection (optional) 1 and 2
- 3.1 / 3.2 Angle output 1 and 2
- 4.1 / 4.2 Parameter selector connection 1 and 2
- 5.1 / 5.2 Resolver connection for drive unit 1 and 2
- 7 Control input, measurement and control unit
- 8.1 / 8.2 USB 1 and 2
- 9 Connection point for equipotential bonding
- 10 Connection to power supply