

Accessories

Programming Board

For combination with

Speed Controller:
 SC 1801, SC 2402, SC 2804, SC 5004, SC 5008
 Brushless DC-Micromotors
 1525...BRC, 3153...BRC,
 2232...BX4 SC, 2232...BX4S SC, 2250...BX4 SC,
 2250...BX4S SC, 3242...BX4 SC, 3268...BX4 SC

Part No.: 6501.00088

		6501.00088	
Power supply for electronics	U _{elo}	3,5 ... 30	V
Power supply for motor	U _{mot}	0 ... 30	V
Current consumption of electronics	I _{el}	0,1	A
Temperature range:			
– Operating temperature		0 ... + 65	°C
Dimensions and weight:			
– Dimensions (L x B x H)		80 x 65 x 31	mm
– Weight		45	g

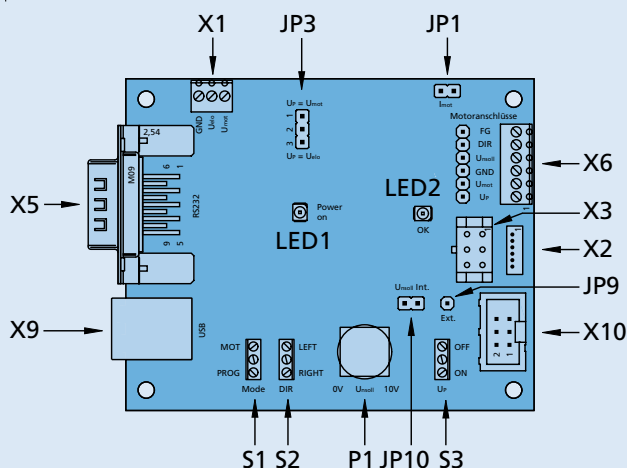
General information

Description of connectors / controls:

<p>X1 Terminals for power supplies Pin 1: GND Ground connection of power supply/supplies Pin 2: U_{elo} Power supply for electronics Pin 3: U_{mot} Power supply for motor winding</p> <p>X2, X3, X6, X10 Terminals for motor / motor controller Pin 1: U_P Power supply for motor electronics Pin 2: U_{mot} Power supply for motor winding Pin 3: GND Power supply negative pole Pin 4: U_{nsoll} Output for nominal speed setting 0...10V Pin 5: DIR Output for direction of rotation setting Pin 6: FG Input for speed signal from motor controller</p> <p>X5 RS232 connector, may optionally be used instead of X9 in PROG mode for programming</p> <p>X9 USB connector, may optionally be used instead of X5 in PROG mode for programming</p> <p>JP1 Jumper can be removed and connected to an amperemeter for motor current measurement at U_{mot}.</p> <p>JP3 Jumper to separate power supply for electronics and motor 1-2: U_P = U_{mot} » Joint power supply to electronics and motor winding via terminal U_{mot} 2-3: U_P = U_{elo} » Power supply to electronics via separate terminal U_{elo} (separate power supply for electronics and motor winding). Power supply for adapter board also via the terminal selected for U_P</p> <p>JP9 Connector for external signal for U_{nsoll}, e.g. PWM signal for speed setting. Note: JP10 must then be removed.</p>	<p>JP10 Jumper for selection of the source for U_{nsoll}. Closed: U_{nsoll} adjustable with P1.</p> <p>S1 Switch for setting the operating mode PROG mode = software update MOT mode = motor operation</p> <p>S2 Switch for setting the direction of rotation of the motor</p> <p>S3 Switch for switching the power supply U_P for the electronics on/off</p> <p>P1 P1 is used to set U_{nsoll} from 0...10V. JP10 must be closed. The power supply U_P must be at least 10,5V.</p> <p>LED 1 Indicates the adapter board is ready for operation</p> <p>LED 2 Indicates the external controller status. ON = ready for operation, OFF = error</p> <p>Start-up</p> <ul style="list-style-type: none"> - Connect operating voltage to X1. Use alternatively joint or separate operating voltage for electronics and motor. Note: Pay attention to correct setting of JP3. - Pay attention to minimum/maximum values for U_{mot} and U_{elo}. - S3 in position OFF; JP1 and JP10 closed. - Connect motor/motor controller to X2, X3, X6 or X10. - For PROG mode, connect to a Windows PC at X5 (null modem cable) or X9 (USB connection cable type B). - LED 1 and LED 2 lights up after power-on for U_{mot} or U_{mot} and U_{elo}. <p>Driver installation:</p> <p>If the adapter board is to be operated via the USB connector X9, a special USB driver must be installed if using Windows XP (further details on request).</p>
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Dimensional drawing and connection information

scale reduced



Connection information

No.	Function
LED 1	Ready for operation
LED 2	Status external controller
Terminals	
X1	Power supply
X2, X3, X6, X10	Connector for motor or SC controller
X5	RS232 connector
X9	USB connector, type B
Jumpers	
JP1	Motor current measurement
JP3	Separation of U _P from U _{mot}
JP9	U _{nsoll} external input signal
JP10	U _{nsoll} int. setting with P1
Switches	
S1	Operating mode
S2	Direction of motor rotation
S3	Power switch on/off
Potentiometer	
P1	U _{nsoll} setting

PROG mode

Settings
S1 PROG
S2 RIGHT
S3 OFF
P1 0V
JP1 Closed
JP10 Closed

MOT mode

Settings
S1 MOT
S2 RIGHT or LEFT
S3 OFF - ON
P1 0V ... 10V
JP1 Opt. current measurement
JP10 Select source for U _{nsoll}