BMSD-40Modbus

DC BRUSH MOTOR CONTROLLER



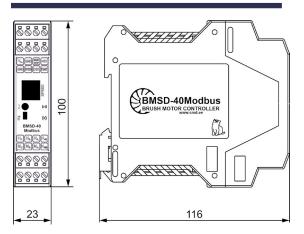
Inputs for external discrete signals

• IN1, IN2 — programmable inputs, can be used as START/STOP and DIR signals or as discrete inputs in a user program. These inputs can be used as per a signal level or per a front edge of the signal.

• HARD STOP – emergency stop signal

• HA, HB — inputs for encoder signals for positioning and speed stabilization functions

Dimensions



Address: Tallinn Science Park Tehnopol, Akadeemia tee 21/6, 12618, Tallinn, Estonia Phone: +372 6559914 E-mail: sale@smd.ee BMSD-40Modbus is a programmable DC brush motor controller, which is intended for speed and position control. The programming function makes it possible to compose and upload user programs to the non-volatile memory of the device.

The controllers operate as a standalone device according to a pre-programmed algorithm or as a slave in a RS-485 network.

The current limiting function protects motors from overloads.

Technical parameters

Rated current in motor phase	40 A	
Phase current limitation	2 – 40 A	
Short-circuit protection	100 A	
Power supply	12 – 24 VDC	
Communication	RS-485 Modbus ASCII/RTU	

Operation modes

• Program control — motion according to a user program

• Modbus speed control; speed stabilization is available for motors with encoder

• Position control for motors with encoder

Software for the controller

Connection Support						
lavigation panel	Address (HEX)	Name	Value	21 💷		
Input signals Cotrol signals State registers	5000	SLAVE_ADDRESS_MODBUS	2	A Register		
	5001	TYPE_MODBUS	3	Address Data type	S000h	
Setter inspatien Liter mogen Support information Protocol log	5002	BITRATE_MODBUS	9	Redisters		
	5003	TIMEOUT_BROADCAST_MODBUS	5	Туре	Holding Registers	
	5004	MODE_DEVICE	1	Value	2	
	5005	MODE_USER_PROGRAM	0	Erabled	Yes	
	5006	MODE_ROTATION	3	Period		
	5007	MODE_EXT_IN	1			
	5008	POSITION_N	1			
	5009	REF_CURRENT	10000			
	500A	HOLD_CURRENT	0			
	5008	SPEED	50			
	500C	ACC	300			
	500D	DEC	300			
	500E	DIRECTION	1			
Denice III (sidetses of the	500F	N_POLE	8			
	5010	USE_EXTERN_SPEED	1			
	5012	OFFSET_COMPENSATION	0			
	5013	PRESSED_NPUTS_EXTERN	25			
	5014	WAITED_INPUTS_EXTERN	75			
	5015	OFFSET	0			
	5017	OFFSET_CONST	0			
	5019	TARGET_POSITION	0			
	5018	TARGET_POSITION1	600			
	501D	TARGET_POSITION2	0			
	501F	TARGET_POSITION3	27000			
	5021	TARGET_POSITION4	33000			
	5023	ERROR	0000			
	5024	FLAG SAVE IN	0000			
	5026	FLAG RESTART	0000	Address		
				Modbus register add device	Modbus register address of the connected	

