



SD326●U25 stepper motor drive

Presentation

The Lexium SD326 stepper motor drive is a drive for 3-phase stepper motors equipped with control electronics with a pulse/direction (P/D) interface.

Reference values are defined and controlled by a master PLC or a motion controller such as Schneider Electric's Lexium LMC.

They are transmitted in increments by a pulse train via the pulse/direction interface.

Commissioning is immediate, without the need for software.

With the integrated functions, it is possible to modify the stepper resolution and the motor current value, or to enable the power stage. An output signal indicates the "Drive ready" status.

The BRS3 range of stepper motors (torque from 0.07 to 16.5 Nm) combined with SD326 drives provides an extremely compact and high performance drive system for a wide variety of applications.

Supply voltage

Lexium SD326 drives can be powered by a 115 V/230 V AC (switchable) supply.

Version for holding brake and rotation monitoring

SD326 drives are available in several versions.

One of these has a 24 V $\overline{\text{V}}$ output for a holding brake; this option is offered with BRS3 motors (see page 42).

This output also enables activation of the "Rotation monitoring" function, which is available with BRS3 motors equipped with an encoder (see page 42).

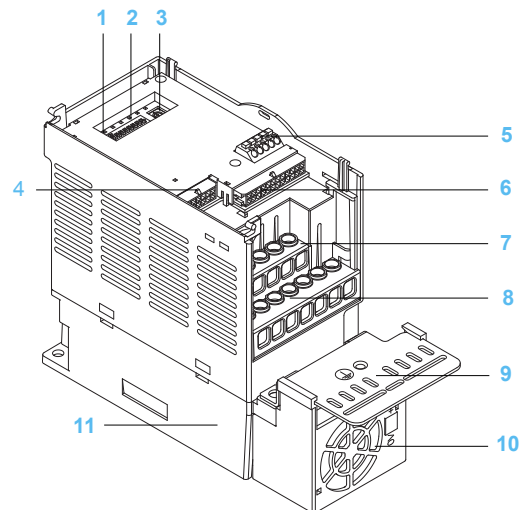
Description

SD326 drives have:

- 1 Status LED
- 2 Drive parameter setting switch
- 3 Rotary switch for setting the motor current
- 4 Interface for the motor "Rotation monitoring" function (optional 12-way female connector, see accessory page 30)
- 5 24 V signal interface (spring terminals) for:
 - Encoder power supply
 - Output for holding brake or encoder fault
- 6 Pulse/direction interface (optional 24-way female connector, see accessory page 30) for:
 - 5 V logic inputs, separated by optocoupler
 - 24 V logic inputs, separated by optocoupler
 - "Drive ready" output
- 7 Screw terminals for connecting the line supply
- 8 Screw terminals for connecting the motor
- 9 EMC mounting plate (optional, see page 30)
- 10 Fan (supplied with SD326●U68 drive, in option with SD326●U25 drive, see page 30)
- 11 Heatsink

Applications

- Printing
- Handling
- Machining
- Packaging
- Etc.



Lexium SD3 motion control

SD326 stepper motor drives

With pulse/direction (P/D) interface



SD326●U68 stepper motor drive

References

Example:	S	D	3	2	6	D	U	2	5	S	2
Drive SD3 = 3-phase stepper motor drive	S	D	3	2	6	D	U	2	5	S	2
Drive type 26 = standard	S	D	3	2	6	D	U	2	5	S	2
Interfaces D = pulse/direction without rotation monitoring R = pulse/direction with rotation monitoring and holding brake	S	D	3	2	6	D	U	2	5	S	2
Peak output current (A rms) U25 = 2.5 A U68 = 6.8 A	S	D	3	2	6	D	U	2	5	S	2
Supply voltage S2 = 115 V/230 V ~ (switchable)	S	D	3	2	6	D	U	2	5	S	2
Dimensions (overall)											
Drive	W x H x D mm										
SD326	72 x 145 x 140										

Mounting accessory

Description	Application	Reference	Weight kg
Mounting plate	For mounting on 35 mm U rail	VW3 A11 851	—

Connection accessories

Designation	Description	Cable length m	Reference	Weight kg
Cordsets for pulse/direction (P/D) interface				
Cordsets for pulse/direction interface	5 V, shielded cable Equipped with a 24-way Molex connector on the drive side and one stripped end	0.5	VW3 S8 201R05	—
		1.5	VW3 S8 201R15	—
		3	VW3 S8 201R30	—
		5	VW3 S8 201R50	—
	24 V, shielded cable Equipped with a 24-way Molex connector on the drive side and one stripped end	0.5	VW3 S8 202R05	—
		1.5	VW3 S8 202R15	—
		3	VW3 S8 202R30	—
		5	VW3 S8 202R50	—
Cordsets for connection between pulse/direction interface and Schneider Electric TSX CFY motion control module	Equipped with a 24-way Molex connector on the drive side and a 15-way female SUB-D connector on the PLC side	1.5	VW3 S8 204R15	—
		3	VW3 S8 204R30	—
Cordsets for connection between pulse/direction interface and Siemens S7-300 FM353 PLC	Equipped with a 24-way Molex connector on the drive side and a 15-way female SUB-D connector on the PLC side	1.5	VW3 S8 206R15	—
		3	VW3 S8 206R30	—
Cordsets for connection between pulse/direction interface and a Schneider Electric TLM2 motion controller	Equipped with a 24-way Molex connector on the drive side and a 15-way female SUB-D connector on the motion controller side	0.5	VW3 S8 208R05	—
		1.5	VW3 S8 208R15	—
		3	VW3 S8 208R30	—
		5	VW3 S8 208R50	—

Connectors

Connector kits	Comprises 5 24-pole Molex plugs with crimp contacts. For 5V/24 V signal interface	—	VW3 S8 212	—
	Comprises 5 12-pole Molex plugs with crimp contacts. For motor rotation monitoring	—	VW3 M8 213	—

Fan kit for SD326●U25

Fan kit — 24 V (supplied with SD326●U68 drive)	—	VW3 S3 101	—
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