STP-DRV-80100 Cut Sheet

SureStep DC advanced microstepping stepper drive, 10A per phase, 2-phase output, 24-80 VDC, bipolar, velocity and position mode, 200 to 51200 steps per revolution, (1) RS-232 (RJ11) port(s).

For complete product information, please see this item on our store at the following link:

https://www.automationdirect.com/pn/STP-DRV-80100

Technical Specifications

Brand	SureStep
Item	Stepper drive
Controller Type	Advanced microstepping
Voltage Type	DC
Amperage Rating	10A per phase
Number of Output Phases	2
Nominal Input Voltage	24-80 VDC
Winding Type Control	Bipolar
Output Type	MOSFET, dual H-bridge and 4-quadrant output
Current Control	4-state PWM at 20 kHz
Steps per Revolution	200 to 51200
Communication Port and Connection Type(s)	(1) RS-232 (RJ11)
Port Protocol(s)	• SCL • ASCII
Port Speed(s)	up to 115.2k baud
Temperature Rating	0 to 55 deg C
Enclosure Type	Enclosed
IP Rating	IP20
Mounting	Panel
Control Mode	Velocity and position
Command Signal(s)	• step and direction • CW/CCW • A/B Quad • internal indexing (via communication port) • velocity (via analog input)
Number of Discrete Input Points	1
Discrete Input Type	Sinking/sourcing/line driver (differential)
Number of Discrete Output Points	1
Discrete Output Type	Sinking/sourcing
Number of Analog Input Channels	1
Analog Input Signal Type	Voltage
Input Voltage Signal Range	0-5 VDC

Number of Analog Output Channels	1
Tuning Mode	Pre-tuned per motor
Idle Current Reduction	Yes
Drive Features	Self-test, anti-resonance (electronic damping), torque ripple smoothing and command signal filtering
Protection Type(s)	• overvoltage • undervoltage • short circuit • over-temperature
Configuration	Software
Software Required	SM-PRO configuration software
Includes	(1) STP-232RJ11-CBL 10ft RS-232 programming cable

Agency Approvals

UL Listed File #	None
UL Recognized File #	None
UL Hazardous File #	None
CE	View CE declarations
CSA File #	None
RoHS Status	Yes (See CE Doc)
EU REACH	View EU REACH document

Dimensional Drawings

2D Drawing PDF Link:
https://cdn.automationdirect.com
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See store item page for other formats.