

STP-DRV-4850 Cut Sheet



SureStep DC advanced microstepping stepper drive, 5A per phase, 2-phase output, 24-48 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-4850>

Technical Specifications

Brand	SureStep
Item	Stepper drive
Controller Type	Advanced microstepping
Voltage Type	DC
Amperage Rating	5A per phase
Number of Output Phases	2
Nominal Input Voltage	24-48 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)	<ul style="list-style-type: none">• 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)	<ul style="list-style-type: none">• 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)	<ul style="list-style-type: none">• overvoltage• undervoltage• short circuit• over-temperature
Configuration	Software
Software Required	SM-PRO configuration software
Includes	(1) STP-232RJ11-CBL 10ft RS-232 programming cable

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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/static/drawings/2d/STP-DRV-4850.pdf>
See store item page for other formats.