STP-MTRD-17038E Cut Sheet

SureStep DC integrated stepper motor/drive, microstepping, NEMA 17 frame, IP20, 2A, 12-48 VDC, bipolar, 68 oz-in holding torque, 1.8-degree step angle, 200 to 25000 steps per revolution, external (field-wireable) encoder.

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

https://www.automationdirect.com/pn/STP-MTRD-17038E

Technical Specifications

Brand	SureStep	**Shaft Diameter**	5mm
Item	Integrated stepper motor/drive	**Holding Torque Rating**	68 oz-in
Voltage Type	DC	**Control Mode**	Position
Controller Type	Microstepping	**Command Signal(s)**	step and direction,CW/CCW
Amperage Rating	2A	**Number of Discrete Input Points**	3
Number of Output Phases	2		
Voltage Rating	12-48 VDC	**Nominal Input Voltage**	5-24 VDC
Winding Type Control	Bipolar	**Discrete Input Type**	Sinking/sourcing
Output Type	MOSFET, dual H-bridge and 4-quadrant output	**Number of Discrete Output Points**	1
Current Control	4-state PWM at 16 kHz	**Nominal Output Voltage**	5-24 VDC
Step Angle	1.8-degree	**Discrete Output Type**	Sinking/sourcing
Steps per Revolution	200 to 25000	**Tuning Mode**	Pre-tuned
Encoder Position	External (field-wireable)	**Idle Current Reduction**	Yes
Feedback Type	Incremental (quadrature)	**Drive Features**	Self-test, anti-resonance (electronic damping), torque ripple smoothing and command signal filtering
Encoder Type	Rotary		
Encoder Resolution	1000 ppr	**Protection Type(s)**	overvoltage,undervoltage,overcurrent,over-temperature
Encoder Output Type	Line driver (differential)		
Temperature Rating	0 to 40 deg C	**Configuration**	Dipswitch
Enclosure Type	Enclosed	**Includes**	(1) 3ft encoder cable, (1) 1ft control cable and (1) STP-MTRA-ENC1 modular encoder
Integrated Brake	No		
Motor Frame	NEMA 17		
IP Rating	IP20		
Shaft Type	Single		

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