# STP-MTR-17048E Cut Sheet

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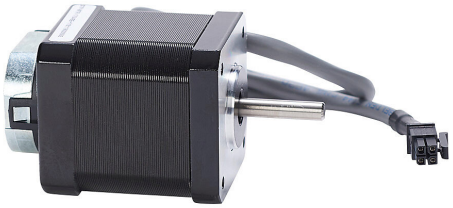

SureStep stepper motor, NEMA 17 frame, IP40, dual shaft, external (field-wireable) encoder, 2A, 83 oz-in holding torque, 1.8-degree step angle, 200 steps per revolution, bipolar. Requires STP-EXT-xxx and STP-CBL-EBxxx cables.

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

https://www.automationdirect.com/pn/STP-MTR-17048E

## Technical Specifications

| | |
|---|---|
| **Brand** | SureStep |
| **Item** | Stepper motor |
| **Voltage Type** | DC |
| **Motor Type** | Brushless |
| **Number of Output Phases** | 2 |
| **Encoder Position** | External (field-wireable) |
| **Feedback Type** | Incremental (quadrature) |
| **Encoder Type** | Rotary |
| **Encoder Resolution** | Up to 4096 ppr |
| **Configuration** | Software |
| **Encoder Output Type** | Line driver (differential) |
| **Integrated Brake** | No |
| **Motor Frame** | NEMA 17 |
| **IP Rating** | IP40 |

| | |
|---|---|
| **Shaft Type** | Dual |
| **Front Shaft Diameter** | 5mm |
| **Rear Shaft Diameter** | 5mm |
| **Amperage Rating** | 2A |
| **Holding Torque Rating** | 83 oz-in |
| **Step Angle** | 1.8-degree |
| **Steps per Revolution** | 200 |
| **Winding Type** | Bipolar |
| **Cable Length** | 1ft |
| **Connector Type** | 4-position male |
| **Requires** | STP-EXT-xxx and STP-CBL-EBxxx cables |
| **Additional Information** | Optional programming cable STP-USBENC-CBL-1 required to change encoder from default 400ppr |

## 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-MTR-17048E.pdf
See store item page for other formats.