

# SmartOnline S3MT-Series 3-Phase 60kVA Input Isolation Transformer, Delta 480V to 208V Wye, TAA

MODEL NUMBER: **S3MT-60K480V**



60kVA/kW transformer provides 480V (Delta) to 208V (Wye) step-down and isolation protection to a 3-phase UPS and its load.

## Features

### Get Complete Step-Down and Isolation Protection and Prevent Power Disruption

S3MT-60K480V 60kVA/kW transformer offers line isolation and protection to the connected 3-phase UPS system and its load. It isolates the UPS and connected components from line surges and spikes caused by utility power disruptions that can damage equipment or corrupt data. The step-down input isolation transformer is ideal for 4-wire (3Ph+N+PE) IT loads in government, manufacturing, healthcare and corporate settings with a 480V electrical feed and 208/120V equipment.

### Performs with High Efficiency up to 97.5%

Not only is the S3MT-60K480V very efficient, with up to 97.5 percent efficiency, but it is also very quiet with a noise profile less than 65 dBA. A built-in circuit breaker on the output side helps prevent dangerous power overloads. Four ball-bearing cooling fans help prevent overheating. An overheat-sensing relay and switch combine with a red LED indicator to provide over-temperature warning and overheating protection.

### Small Footprint for Quick Installation in a Compact Space

The compact footprint enables installation of the S3MT-60K480V with minimal space. The rugged stainless steel housing ships ready for immediate installation with a compatible 50–60kVA/kW S3M-Series 3-phase UPS system.

## Highlights

- Recommended for government, manufacturing, healthcare and corporate settings
- Up to 97.5% efficiency with a quiet acoustic profile less than 65 dBA
- Resettable protection relay/switch and red LED indicator warn against overheating
- Rugged stainless steel housing with compact footprint comes ready for installation
- Compatible with 50–60kVA/kW S3M-Series 3-phase UPS systems

## Applications

Protect healthcare, manufacturing, corporate and other IT equipment where the upstream power source is 480V and the load requires a 208V 3-phase UPS

## Package Includes

- S3MT-60K480V 3-Phase 60kVA Input Isolation Transformer
- Owner's manual

## Specifications

| OVERVIEW                    |                   |
|-----------------------------|-------------------|
| UPC Code                    | 037332253156      |
| Efficiency                  | 96.5% @ full load |
| Nominal Voltage / Frequency | 480V 3-PH / 60Hz  |
| VA / Watt Capacity          | 60000             |



Powering Business Worldwide

**TRIPP-LITE**  
by **EATON**

|   |  |
|---|--|
| Transformer Type                                  | Dry type, Input step-down isolation transformer      |
| <b>INPUT</b>                                      |  |
| Input Phase                                       | 3-Phase  |
| Nominal Input Voltage(s) Supported                | 480V 3-PH Delta                                      |
| UPS Input Connection Type                         | Hardwire   |
| <b>OUTPUT</b>                                     |  |
| Output Capacity (VA)                              | 60000  |
| Output Capacity (kVA)                             | 60   |
| Nominal Output Voltage(s) Supported               | 120/208V 3-PH Wye                                    |
| Output Receptacles                                | Hardwire   |
| <b>PHYSICAL</b>                                   |  |
| Primary Form Factor                               | Tower  |
| Cooling Method                                    | 4 x BALL BEARING, 120MM (576 TOTAL CFM)              |
| Form Factors Supported                            | Tower  |
| Shipping Dimensions (hwd / in.)                   | 55.40 x 29.90 x 38.80                                |
| Shipping Weight (kg)                              | 387.82   |
| Unit Dimensions (hwd / in.)                       | 47.200 x 23.600 x 33.500                             |
| Unit Dimensions (hwd / cm)                        | 120 x 60 x 85  |
| Unit Weight (lbs.)                                | 789.000  |
| Unit Weight (kg)                                  | 357.88   |
| <b>ENVIRONMENTAL</b>                              |  |
| Online Mode Heat Dissipation (BTU/Hr) @ Full Load | 7167   |
| <b>INPUT TRANSFORMER</b>                          |  |
| Input Voltage                                     | 480V 3-PH Delta                                      |
| Input Voltage Range                               | (-45%, +25%) for 40% load (-20%, +25%) for 100% load |
| Input Amp(s)                                      | 101 A  |
| AC Input Configuration                            | Delta  |
| AC Input Frequency                                | 50/60  |
| Frequency Range                                   | 40/70Hz  |
| Voltage Selection                                 | NONE   |
| Input Inrush Current                              | 920 A  |
| VA Rating   | 60K  |



Powering Business Worldwide



|   |  |
|---|--|
| Input Number of Phases                  | 3PH  |
| AC Output Voltage (V)                   | 120/208V 3-PH Wye  |
| AC Output Amps                          | 225 A  |
| Output Number of Phases                 | 3PH + N  |
| AC Output Configuration                 | WYE  |
| Output Isolation                        | Yes  |
| Output Breaker Rating                   | 250 A  |
| Connection Type                         | COPPER BAR   |
| LED Warning Light Functions             | The over-temperature warning LED light will turn ON when the output/secondary of the Input transformer reaches 160°C ±5°C and will turn OFF when the corresponding transformer cools down to 125°C ±5°C  |
| Over Temperature Reset                  | If the secondary side of the input transformer reaches temperatures of or higher than 160°C ± 5°C, i.e. a range of 155°C to 165°C (311°F to 329°F), an over-temperature protection relay and thermal switch will activate and will open the breaker on secondary side of the transformer. Once the transformer temperature has cooled down to 125°C ± 5°C, i.e. a range of 120°C to 130°C ( 248°F to 266°F) the warning LED light will turn OFF, and you may manually re-activate (close) the output breaker on the transformer to restart normal operation. |
| Efficiency @ Half Load                  | 97.5 %   |
| Efficiency @ Full Load                  | 96.5%  |
| Heat Dissipation (BTU/Hr) @ Full Load   | 7167   |
| Audible Noise (dBA @ 1m)                | 65dB max   |
| <b>APPLICATIONS</b>                     |  |
| UPS Applications                        | Mission Critical Applications  |
| <b>OUTPUT TRANSFORMER</b>               |  |
| Efficiency @ Half Load                  | 97.5 %   |
| Efficiency @ Full Load                  | 96.5%  |
| <b>STANDARDS &amp; COMPLIANCE</b>       |  |
| Product Compliance                      | Trade Agreements Act (TAA)   |
| <b>WARRANTY &amp; SUPPORT</b>           |  |
| Product Warranty Period (Worldwide)     | 2-year limited warranty  |
| Product Warranty Period (U.S. & Canada) | 2-year limited warranty  |

1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
<https://tripplite.eaton.com>

© 2024 Eaton. All Rights Reserved.  
Eaton is a registered trademark. All other trademarks  
are the property of their respective owners.