

SmartOnline S3MT-Series 3-Phase 20kVA Input Isolation Transformer, Delta 480V to 208V Wye, TAA

MODEL NUMBER: **S3MT-20K480V**



20kVA/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

Tripp Lite's S3MT-20K480V 20kVA/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 96.5%

Not only is the S3MT-20K480V very efficient, with up to 96.5 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. Two 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-20K480V with minimal space. The rugged stainless steel housing ships ready for immediate installation with a compatible 10–20kVA/kW Tripp Lite S3M-Series 3-phase UPS system.

Highlights

- Recommended for government, manufacturing, healthcare and corporate settings
- Up to 96.5% 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 10–20kVA/kW Tripp Lite 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-20K480V 3-Phase 20kVA Input Isolation Transformer
- Owner's manual

Specifications

OVERVIEW	
UPC Code	037332253132
Efficiency	95% @ full load
Nominal Voltage / Frequency	480V 3-PH / 60Hz



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VA / Watt Capacity	20000
Transformer Type	Dry type, Input step-down isolation transformer
INPUT	
Input Phase	3-Phase
Nominal Input Voltage(s) Supported	480V 3-PH Delta
UPS Input Connection Type	Hardwire
OUTPUT	
Output Capacity (VA)	20000
Output Capacity (kVA)	20
Nominal Output Voltage(s) Supported	120/208V 3-PH Wye
Output Receptacles	Hardwire
PHYSICAL	
Primary Form Factor	Tower
Cooling Method	2 x BALL BEARING, 120MM (288 TOTAL CFM)
Form Factors Supported	Tower
Shipping Dimensions (hwd / in.)	54.80 x 22.20 x 37.80
Shipping Weight (kg)	219.99
Unit Dimensions (hwd / in.)	47.200 x 17.400 x 33.500
Unit Dimensions (hwd / cm)	120 x 44.2 x 85
Unit Weight (lbs.)	430
Unit Weight (kg)	195.04
ENVIRONMENTAL	
Online Mode Heat Dissipation (BTU/Hr) @ Full Load	3413
INPUT TRANSFORMER	
Input Voltage	480V 3-PH Delta
Input Voltage Range	(-45%, +25%) for 40% load (-20%, +25%) for 100% load
Input Amp(s)	35 A
AC Input Configuration	Delta
AC Input Frequency	50/60
Frequency Range	40/70Hz
Voltage Selection	NONE
Input Inrush Current	300 A



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VA Rating	20K
Input Number of Phases	3PH
AC Output Voltage (V)	120/208V 3-PH Wye
AC Output Amps	75 A
Output Number of Phases	3PH + N
AC Output Configuration	WYE
Output Isolation	Yes
Output Breaker Rating	80 A
Connection Type	TERMINAL BLOCK
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 reactivate (close) the output breaker on the transformer to restart normal operation.
Efficiency @ Half Load	0.965
Efficiency @ Full Load	0.95
Heat Dissipation (BTU/Hr) @ Full Load	3413
Audible Noise (dBA @ 1m)	65dB max
APPLICATIONS	
UPS Applications	Mission Critical Applications
OUTPUT TRANSFORMER	
Efficiency @ Half Load	0.965
Efficiency @ Full Load	0.95
STANDARDS & COMPLIANCE	
Product Compliance	Trade Agreements Act (TAA)
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	2-year limited warranty
Product Warranty Period (U.S. & Canada)	2-year limited warranty