

TwinSource

DCC - II RMSTS

Rack Mount Static Transfer Switch

TwinSource is proud to offer our Dual Cord Converter DCC-II-RMSTS static transfer switches for critical IT, industrial and telecom applications. This family of plug-in rack-mount IT static transfer switches (RMSTS) utilizes the latest state-of-the-art, fault tolerant logic topology which provides higher redundancy of critical components than other STS designs. This high reliability and internal redundancy makes the DCC-II the number one choice to meet the ultra-high availability requirements of mission critical IT operations at critical data centers, air traffic control sites, and telecommunications centers demanding 7x24 availability. They are ideal to convert single corded IT loads to dual corded configuration so as to achieve the same availability as the dual corded loads.



The DCC-II RMSTS uses a Power Quality Seeking sense circuit that enables the critical load to always be on the better of the two sources. The system does this through the use of a unique triple band power quality discriminator circuit that categorizes the voltage at each source into: Good Quality, Marginal Quality, and Unacceptable Quality voltage bands. The system always seeks the Good Power Quality band and the bands are user defined. This unique and advanced failure avoidance feature enables the RMSTS to keep the load in a safe zone of power quality unlike switching devices that stay on the edge of power failure before initiating a transfer at high risk. The built-in bypassing and isolation outer module, combined with the inner plug-in electronics module, give the TwinSource DCC-II RMSTS the lowest MTTR (Mean Time To Repair) in the industry of less than 2 minutes. The comprehensive user adjustable settings for power quality allow the user full customization capability to match the specific load requirements to the facility power.

This product is certified to UL1008 and Canadian CSA Standards and is available in all worldwide voltages and frequencies making it ideal for multinational operations worldwide.

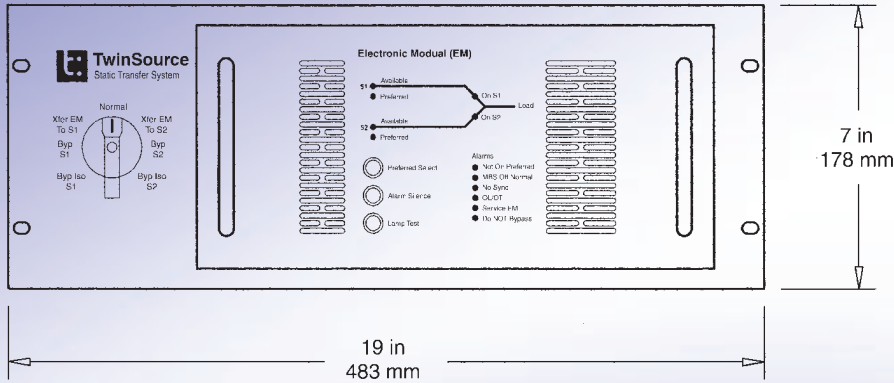
Standard Features

- Two Pole Device (avoids ground circulating currents)
- Calculated MTBF > 1 million hours
- Predicted MTBF > 50 million hours
- Lowest MTTR < 2 minutes
- Plug-in "hot swappable" electronic module
- TUV Certified to meet UL-1008, & CSA Standards
- Self Diagnostic Scanning - identifies all causes of alarms immediately - eliminates troubleshooting by a technician
- Redundant logic power supplies
- Redundant fans
- User selectable settings
- "Auto-retransfer Off" protection
- Anti-cross connection logic
- Power Quality Seeking System
- Shorted/Open SCR protection
- Short Circuit: 22KA
- Internal Maintenance Bypass
- Operator "Do Not Bypass" alarm to help operator
- 2 Remote Contacts

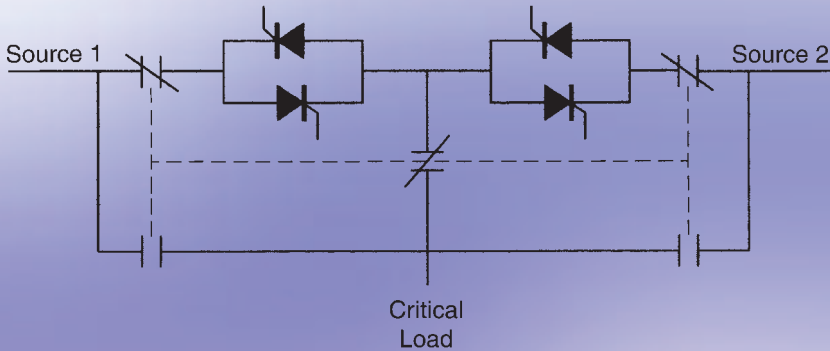
Applications

Critical Data Centers
Telecommunications Sites
Air Traffic Control Sites
Petrochemical Plants
Semiconductor Fab Plants Controls
Critical Industrial Controls

Front View



RMSTS Schematic



Basic Specifications

Electrical Characteristics

Current Rating 30, 40, 50 A
 Voltage 120, 208, 220, 230, 240V
 1-ph, 50 and 60Hz
 Poles 2

Operational Characteristics

Sense and transfer time
 1/4 cycle

User Adjustable Settings

Over and Under Voltage
 Phase Angle for Manual Transfer
 Default Preferred
 Unit Address for ETU
 Auto-retransfer On/Off

Panel Controls

Preferred Select
 Alarm Silence
 Lamp Test
 Bypass Isolation Selector Switch
 Diagnostics (selftest)

Remote Contacts

Service EM
 Summary Alarm

Panel Indicators

Source 1 Available
 Source 2 Available
 Source 1 Preferred
 Source 2 Preferred
 On Source 1
 On Source 2

Alarms

Not On Preferred
 MBS Off Normal
 No Sync
 OL/OT
 Service EM
 Do Not Bypass

Environmental Specifications

Operating Temperature
 Range 0°C to 40°C
 Relative Humidity 0% to 95% noncondensing

Physical Specifications

Weight 49 lbs/23 kg
 Dimensions H - 7 in/178 mm
 W - 19 in/483 mm
 D - 21 in/526 mm

TwinSource is a worldwide leading supplier of single & three-phase, rack mount RMSTS transfer switches for a variety of applications. Our Dual Cord Converter II (DCC-II) solid state 1/4 cycle RMSTS product, is ideal for protecting super-critical IT operations or transactions, where speed of transfer and ultra fault-tolerant reliability are top priority.

TwinSource also supplies an electromechanical product our MagLatch RMATS in 24A rating and for all voltages and frequencies worldwide. This product uses the same reliable and fast acting TwinSource sense and control logic that control the main dual coiled magnetically latched transfer relays for superior performance.

TwinSource product lines are well known for their high reliability, excellent quality of workmanship, ease of use, lowest MTTR, and have set a new standard for rack-mount transfer switches in the industry.



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