

RACK-MOUNT STATIC TRANSFER SWITCH

DCC-III

The DCC-II platform in a 4-pole, three-phase build. The fourth pole transfers the neutral for 208/120 V racks up to 18 kW.

CURRENT RATING

50 A

1 standard rating

VOLTAGE

208–208 V

three phase, 50 or 60 Hz

TRANSFER TIME

¼ cycle

as fast as, per phase: 4.2 ms at 60 Hz

SWITCHED POLES

4

4-pole transfers the neutral



KEY FEATURES

- Four poles: the neutral is disconnected and reconnected with the phases
- SCR-based static transfer as fast as ¼ cycle per phase
- Hot-swappable electronic module in a 4U chassis: MTTR under 2 minutes, with a built-in bypass isolation switch (7-position selector)
- 208/120 V, 50 A, 18 kW
- Remote alarm contacts and Modbus RTU via RS-485
- Power Quality Seeking, redundant logic supplies and fans, self-diagnostics, and a 22 kA short-circuit rating
- TÜV certified to UL 1008 and CSA; CE marked

RATINGS

	THREE PHASE
Current ratings	50 A
Voltages	4-pole: 208/120 V
Switched poles	4-pole
Frequency	50 Hz or 60 Hz
Transfer	As fast as ¼ cycle

TRANSFER

Sense and transfer time	As fast as ¼ cycle per phase (4.2 ms @ 60 Hz, 5 ms @ 50 Hz)
Reliability	MTBF > 1 million hours; MTTR < 2 minutes

BYPASS

Maintenance bypass	Internal maintenance bypass isolation switch, 7-position selector; hot-swappable electronic module; mechanical interlocks optional (Interlock I and II)
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CONTROLS AND MONITORING

Panel indicators	Source available, preferred, on-source; alarms: not on preferred, MBS off normal, no sync, OL/OT, service EM, do not bypass
Panel controls	Preferred select, alarm silence, lamp test, bypass isolation selector, diagnostics (self test)
Remote contacts	2: summary alarm, service EM
Communications	Modbus RTU via RS-485 (standard)
User settings	Over/under voltage, phase angle for manual transfer, default preferred, do not bypass, unit address, auto-retransfer on/off
Protection logic	Anti-cross-connection logic; Power Quality Seeking; shorted/open SCR protection; self-diagnostic scanning; redundant logic supplies; redundant fans; built-in voltage suppression and transient (surge) protection

CONNECTIONS

Input and output	Terminal blocks
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PROTECTION

Short-circuit rating	22 kA
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MECHANICAL

Dimensions H × W × D	7 × 19 × 33 in (178 × 483 × 838 mm)
Weight	65 lb (29.5 kg)
Cooling	Redundant fans

ENVIRONMENT

Operating temperature	32–104 °F (0–40 °C)
Humidity	0–95% non-condensing

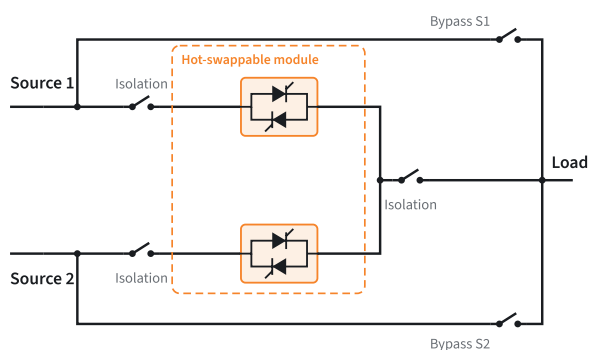
COMPLIANCE

Certifications	TÜV certified to UL 1008 and CSA; CE marked
Standard warranty	12 months from start-up or 18 months from shipment, whichever is sooner

INSTALLATION

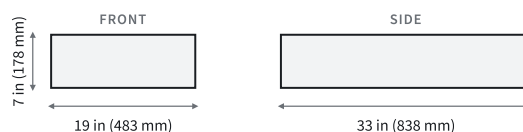
Rack mounting	Use a rack shelf and cable strain relief where the unit weight exceeds the two-post mounting capacity of the rack.
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ONE-LINE DIAGRAM



Bypass module with a 7-position selector: isolation and bypass contacts. Only the SCRs are in the hot-swappable electronic module, which is isolated and removed with the load on bypass. Shown as a one-line; 4-pole builds switch every pole shown.

DIMENSIONS



Outline for planning only. Request the dimensioned drawing for mounting and clearances.

MODEL NUMBER **D3-FVVVAA-C-I** e.g. D3-620850-RC-TB

D3	Base model
VVV	Voltage, e.g. 208
C	Comms: RC remote contacts and Modbus RTU via RS-485

F	Frequency: 6 = 60 Hz, 5 = 50 Hz
AA	Current, e.g. 50 = 50 A
I	I/O: TB terminal block

Specifications are subject to change without notice. For wire sizes, drawings and installation details, contact TwinSource engineering. DS-DCCIII Rev A, October 2026.