

RACK-MOUNT AUTOMATIC TRANSFER SWITCH

DCC-I

A 1U electromechanical transfer switch for less critical single-phase racks, built on patented MagLatch latching relays.

CURRENT RATING

12–24 A

3 standard ratings

VOLTAGE

100–240 V

single phase, 50 or 60 Hz

TRANSFER TIME

< ½ cycle

MagLatch relays, any phase angle

SWITCHED POLES

2

both conductors switched



KEY FEATURES

- Patented MagLatch relays: a permanent magnet holds the contacts in either position, with no return spring and no holding current
- Transfers in under half a cycle, in phase or out of phase
- 1U rack height
- Remote summary and service alarm contacts; Modbus RTU via RS-485 option
- Waveform capture of the last transfer, standard on every unit
- TÜV certified to UL and IEC 60950; CE marked

RATINGS

SINGLE PHASE

Current ratings	12, 16, 24 A
Voltages	2-pole: 240, 230, 220, 208, 200, 120, 100 V
Switched poles	2-pole
Frequency	50 Hz or 60 Hz
Transfer	< ½ cycle

TRANSFER

Sense and transfer time	< ½ cycle, at all source phase angles
Reliability	Patented MagLatch technology provides reliability similar to solid state switching

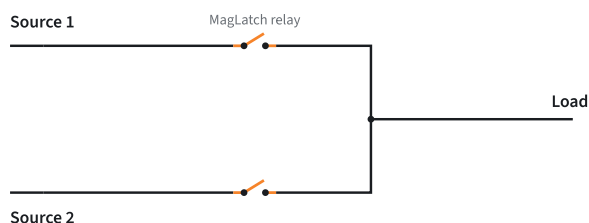
BYPASS

Maintenance bypass	None
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CONTROLS AND MONITORING

Panel indicators	Mimic bus diagram; power flow LEDs; source available, preferred, on-source; summary and service alarm LEDs
Panel controls	Preferred source select, alarm silence
Remote contacts	Summary alarm, service alarm (standard)
Communications	Options: Modbus RTU via RS-485 (status and metering: V, I, pf, f, kW, transfer count); event data logger
Diagnostics	Waveform capture of the last transfer (standard)
User settings	Over/under voltage, phase angle for manual transfer, default preferred, manual transfer on/off, auto-retransfer on/off, preferred-select button on/off, audible alarm on/off
Protection logic	Anti-cross-connection logic; Power Quality Seeking (good / marginal / unacceptable bands); redundant logic supplies

ONE-LINE DIAGRAM



MagLatch latching relays, break-before-make. No bypass: the unit is replaced if it needs service. Shown as a one-line; 2-pole builds switch every pole shown.

CONNECTIONS

Input and output	4 ft input and output cords with plugs and sockets (North America); cords only elsewhere
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PROTECTION

Short-circuit rating	10 kA withstand (see user manual)
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MECHANICAL

Dimensions H × W × D	1.75 × 19 × 13 in (44.5 × 483 × 330 mm)
Weight	13 lb (5.9 kg)
Cooling	Convection

ENVIRONMENT

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

COMPLIANCE

Certifications	TÜV certified to UL and IEC 60950; CE marked
Patent	MagLatch, US 7,535,129
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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DIMENSIONS



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

MODEL NUMBER **D1-FVVVAA-C-I** e.g. D1-624024-R-L630

D1	Base model
VVV	Voltage, e.g. 208
C	Comms: R remote contacts, C Modbus RTU via RS-485

F	Frequency: 6 = 60 Hz, 5 = 50 Hz
AA	Current, e.g. 24 = 24 A
I	Connectors: NEMA L5/L6 15–30 A, C13 or C19

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