

WALL-MOUNT STATIC TRANSFER SWITCH

DCC-4-W4

The higher-current wall-mount DCC-4: 80 to 120 A three phase, or single phase up to 200 A, with maintenance bypass.

CURRENT RATING

80–120 A

three phase; 120–200 A single phase

VOLTAGE

100–480 V

three or single phase, 50 or 60 Hz

TRANSFER TIME

¼ cycle

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

SWITCHED POLES

2, 3 or 4

4-pole transfers the neutral

KEY FEATURES

- As fast as ¼ cycle per phase, break-before-make, with an automatic Vt-proportional delay out of phase
- 3-position make-before-break maintenance bypass, with input isolation switches
- Wall-mount NEMA 1 enclosure, convection cooled with no fans
- Three phase 3-pole or 4-pole, or single phase 2-pole, at all standard voltages, 50 Hz or 60 Hz
- Bi-color LED mimic or color touchscreen
- Ethernet with HTTP, SNMP and Modbus TCP/IP; 5 dry status contacts and 2 transfer control inputs
- 100% continuous duty at 104 °F (40 °C)
- ETL listed to UL 1008S

RATINGS

	THREE PHASE	SINGLE PHASE
Current ratings	80, 100, 120 A	120, 150, 200 A
Voltages	3-pole: 480, 415, 400, 240, 220, 208, 200 V 4-pole: 480/277, 415/240, 400/230, 208/120, 200/115 V	2-pole: 240, 230, 220, 208, 200, 120, 100 V
Switched poles	3 or 4-pole	2-pole
Frequency	50 Hz or 60 Hz	50 Hz or 60 Hz
Transfer	As fast as ¼ cycle	As fast as ¼ cycle



TRANSFER

Transfer type	Break-before-make, zero-current transfer by thyristors (SCRs)
In-phase transfer time	As fast as ¼ cycle per phase (4.2 ms @ 60 Hz, 5 ms @ 50 Hz)
Out-of-phase transfer	Automatic Vt proportional delay, up to 12 ms, 0° to 180°
Detection	Digital, < 1 ms
MTBF	> 800,000 hours

BYPASS AND ISOLATION

Maintenance bypass	3-position, make-before-break rotary bypass switch to either source
Isolation	Input isolation switches, one on each source

CONTROLS AND MONITORING

Display	Bi-color LED mimic or color touchscreen
Front-panel controls	Preferred supply selection, source transfer selection and alarm cancel buttons
Control inputs	2 wet transfer control inputs
Status contacts	5 pre-defined dry change-over status contacts, Form C
Communications	Ethernet: HTTP, SNMP, Modbus TCP/IP

CONNECTIONS

Input termination	Bolt terminals for lugs
Output termination	Bolt terminals for lugs

MECHANICAL

Dimensions H × W × D	27.6 × 19.7 × 11.0 in (700 × 500 × 280 mm)
Weight	104 lb (47 kg)
Enclosure	NEMA 1
Cooling	Convection (no fans)

ENVIRONMENT

Operating temperature	32–104 °F (0–40 °C)
Humidity	5–95% non-condensing at 104 °F (40 °C)

PERFORMANCE

Loading	0–100% continuous at 104 °F (40 °C) ambient
Overload at 104 °F (40 °C)	125% 10 min; 150% 30 s; 200% 1 s; 300% 0.1 s; 5 kA 1 cycle
Fault current setting	300% peak, with load-fault transfer inhibit

PROTECTION

Short-circuit rating (bracing)	10 kA with upstream Class J fuses
Internal protection	Internal semiconductor fuses

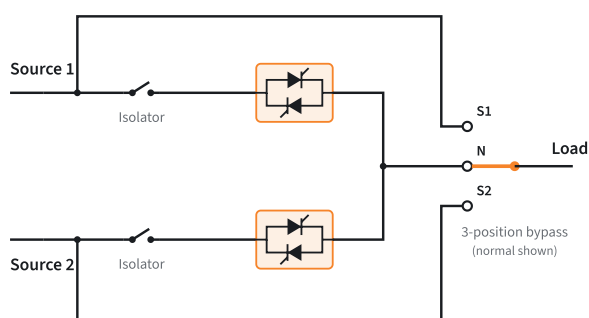
POWER QUALITY

Power factor	No practical limit
Maximum THDv	10% maximum source voltage distortion
Crest factor	3 : 1

COMPLIANCE

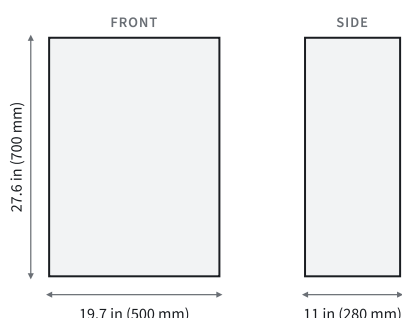
Regulatory approvals	ETL listed to UL 1008S
Standard warranty	12 months from start-up or 18 months from shipment, whichever is sooner

ONE-LINE DIAGRAM



Input isolation switch on each source. 3-position make-before-break bypass switch: normal (shown), or bypass to S1 or S2. Shown as a one-line; 2, 3, 4-pole builds switch every pole shown.

DIMENSIONS



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

MODEL NUMBER **D4-ES-PPP-FVVVAAA-I** e.g. D4-W4-3P4-5415120-M

D4	DCC-4 base model	ES	Enclosure and sub-model: R2 rack, R4 rack (higher current), W2 wall, W4 wall (higher current), SK free standing
PPP	Phase and poles: 1P2 single phase 2-pole, 1P3 split phase (on request), 3P3 three phase 3-pole, 3P4 three phase 4-pole	F	Frequency: 6 = 60 Hz, 5 = 50 Hz
VVV	Voltage, e.g. 480	AAA	Current, e.g. 060 = 60 A
I	Interface: M bi-color LED mimic, T color touchscreen		

Specifications are subject to change without notice. For wire sizes, drawings and installation details, contact TwinSource engineering. DS-DCC4W4 Rev A, October 2026.