KOHLER Generators

Model: TRX

Automatic Transfer Switch
100-200 Amps

ISO 9001 KOHLER NATIONALLY REGISTERED



Model TRX Automatic Transfer Switch

The Model TRX automatic transfer switch is designed for use only with Kohler® generator sets equipped with the RDC2/DC2 generator set/transfer switch controller. The transfer switch operation is controlled by these controller.

Standard Features

- Allows utility voltage display on the RDC2 generator set/transfer switch controller, available exclusively on Kohler® residential and light commercial generator sets
- Combined interface/load management board.
- cULus listed
  - UL 1008 listed
- Corrosion-resistant NEMA 3R aluminum enclosure
  - Padlockable
  - Approved for indoor or outdoor installation
  - DOVER Grey color
- Contactor electrically and mechanically interlocked
- Double throw inherently interlocked design
- Contactor manually operable for maintenance purposes
- Silver alloy main contacts
- Transfer switches are 100% equipment rated and can be applied at the rated current without derating (non-service entrance models)
- Service entrance models include disconnect circuit breaker on the utility (normal) source side (80% rated)
- Service Entrance models include 15 amp battery charging circuit breaker
- Five-year limited warranty

  Note: See applicable warranty documentation for complete terms, conditions, exclusions, limitations, and coverage details.

Available Models

- 100 and 200 amp standard models are available.
- 100, 150, and 200 service entrance models are available.
- See page 4 for more information.

Combined Interface/Load ManagementBoard

- Combined interface/load management board to the RDC2 generator set/transfer switch controller.
- The combined board is available on all single-phase standard and service entrance models.
- The combined board automatically manages up to six
  - Up to four customer-supplied power relay modules can be connected for management of non-essential secondary loads.
  - Two HVAC relays are included for control of two independent air conditioner loads.

Cable Sizes						
AL/CU UL-Listed Solderless Screw-Type Terminals for External Power Connections						
Switch Size, Amps	Switch	Ph.	Range of Wire Sizes, Cu/Al			
			Normal (per phase)	Emergency and Load (per phase)	Neutral	Ground
100	Standard	1	(1) #14-1/0 AWG	(1) #14–1/0 AWG	(5) #12-250 KCMIL (Cu) or (5) #10-250 KCMIL (Al)	(9) #6–#14 AWG or (4) #14-1/0 AWG
	Service Entrance	1	(1) #12–2/0 AWG			
150 200	Service Entrance	1	(1) #4–300 KCMIL	(1) #6–250 KCMIL		
200	Standard	1	(1) #6 AWG–250 KCMIL			

Note: Data is subject to change. Refer to the transfer switch dimension drawings and wiring diagrams for planning and installation.

Combined Interface/Load Management Board

The TRX transfer switch includes a combined interface/ load management board. The combined board allows load management as described below.

Load Management

- The combined load management board disconnects non-critical loads to prevent generator overload, in compliance with NEC.
- The combined load management board monitors generator current and frequency to determine when to add or shed loads. This monitoring helps minimize frequency drops that can damage valuable electronics like computers and televisions.
- Load management may allow the use of a smaller generator set.

Operation

- Loads are automatically added or shed based on generator capacity.
- The load control system uses dynamic logic to prevent shedding important loads unnecessarily when air conditioning, refrigerator, or water pump motors start (patent pending).
- The load management board and generator communicate to provide smart power management. The time to shed loads decreases as each load is shed to quickly adapt to critical power requirements.
- Load shed power level and frequency setpoints can be adjusted using a personal computer (laptop) and SiteTech™ software, which is only available to authorized distributors and dealers.

Priority Setting

- Loads are added and shed according to their priority. Load 1 is the top priority, which is added first and shed last. Load 6 is the lowest priority.
- Less critical loads can be turned off automatically when essential appliances are running.
- Load priorities are hard-wired at installation.

Viewing Load Shed Outputs with KOHLER Energy Management

- Use KOHLER Energy Management app to view load status (On or Off) for loads connected to the load shed relays.
- Use KOHLER Energy Management app to remotely monitor when loads are shed or added.
- The load shed outputs can be labeled in KOHLER Energy Management app

Optional Current Transformers

- A 400 amp current transformer (CT) for load monitoring.
- A larger diameter CT is available for applications that require larger cables.
- A 500 amp CT is available for use with a 60RCL generator.
- See the Current Transformer Specifications table for current transformer specifications and optional kit numbers.

Load Shed Specifications

Connection	Rating	Connection
Pilot Relays*	125VAC, 10 A total (general purpose) 120VAC, 125VA (pilot duty)	#12-20 AWG
HVAC Relays (qty. 2)	125VAC, 10 A (general purpose) 120VAC, 125VA (pilot duty)	#12-20 AWG
RBUS Communication and Power Connections to the RDC2 controller	0.5 A @ 12 VDC	Use Belden #9402 or equivalent 20 AWG shielded, twisted-pair communications cable †

* Four (4) pilot relays are provided for customer-supplied normally closed load-switching contactors/relays. The combination of four load relay outputs cannot exceed 10 amps total current draw. Kohler® power relay modules are recommended.

† For long distances, use an equivalent shielded, twisted-pair cable for RBUS connections and individual 12-20 AWG wires (qty. 2) for power connections.

Current Transformer Specifications

Ratio (Amps:VAC)	Outer Diameter mm (in.)	Inner Diameter mm (in.)	Service Part Number	Sales Kit Part Number	CT Availability
400:3	63.5 (2.5)	28.7 (1.13)	GM83929	N/A	Sold Separately
400:3	111.8 (4.4)	57.2 (2.25)	GM17250	GM17250-KP1-QS	Sold Separately
500:3	171.5 (6.75)	108.0 (4.25)	GM60264	GM17250-KP2-QS	Sold Separately (use with 60RCL)

Withstand and Close-On Ratings (WCR)

Service Entrance Transfer Switch Ratings

The service entrance transfer switch is factory-equipped with a normal source disconnect circuit breaker.

Suitable for the control of motors, electric discharge lamps, tungsten filament lamps and electric heating equipment where the sum of motor full-load ampere ratings and the ampere ratings of other loads do not exceed the ampere rating of the switch and the tungsten load does not exceed 30 percent of switch rating.

Switch Rating, Amps *	WCR, RMS Symmetrical Amps at 240 VAC
100 - 200	22,000
* Continuous load current not to exceed 80% of switch rating.	

Contactor Ratings with Coordinated Circuit Breakers

Single-phase transfer switches are UL listed at 240 VAC maximum. The following table lists contactor withstand current ratings (WCR) for 100-200 ampere non-service entrance rated switches with specific manufacturer's circuit breakers per UL and Canadian safety standards. Suitable for the control of motors, electric discharge lamps, tungsten filament lamps and electric heating equipment where the sum of motor full-load ampere ratings and the ampere ratings of other loads do not exceed the ampere rating of the switch and the tungsten load does not exceed 30 percent of switch rating.

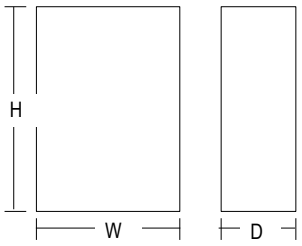
The transfer switch is rated for use on a circuit capable of delivering not more than the RMS symmetrical amperes maximum as shown in the tables below, but no greater than the interrupting capacity of the selected breaker.

WCR Ratings with Specific Manufacturer's Molded-Case Circuit Breakers						
Switch Rating, Amps	**Voltage, max.**	**Number of Poles/ Phases**	**WCR, RMS Symmetrical Amps**	**Manufacturer**	**Type or Class**	**Maximum Size, Amps**
100 150 200	240	2 pole/ 1 phase	10,000	Any Breaker *	Any Breaker (0.025 seconds max.)	—
* For higher WCR values, contact the factory for additional specific breaker ratings.						

Dimensions and Weights

Note: Always use the transfer switch dimension drawing for planning and installation. Weights and dimensions may vary for different configurations. See the Operation/Installation Manual or your local distributor for dimension drawings.

Note: Transfer switch weights and dimensions shown in the table do not include packaging. **To estimate the shipping weight, add 3 kg (5 lbs.) or 10% (whichever is larger) to the weight shown.**



Amps	Description	Dimensions, H x W x D, mm (in.) †		Weight ‡ kg	Weight ‡ (lb.)	Dimension Drawing
100	Single phase	723 x 343 x 170	(28.5 x 13.5 x 7.0)	11.1	(24.5)	ADV-10144
	Service entrance (ASE)	723 x 343 x 170	(28.5 x 13.5 x 7.0)	12.2	(27)	ADV-10143
	Service entrance (CSE)	723 x 343 x 170	(28.5 x 13.5 x 7.0)	12.4	(27.5)	ADV-10143
150	Service entrance (ASE)	723 x 343 x 170	(28.5 x 13.5 x 7.0)	12.7	(28)	ADV-10143
200	Service entrance (ASE)	723 x 343 x 170	(28.5 x 13.5 x 7.0)	12.7	(28)	ADV-10143
	Service entrance (CSE)	723 x 343 x 170	(28.5 x 13.5 x 7.0)	13.8	(30.5)	ADV-10143
	Single phase	723 x 343 x 170	(28.5 x 13.5 x 7.0)	11.7	(25.75)	ADV-10144

† Depth does not include the padlock hasp on the front of the enclosure.

‡ Transfer switch weights are approximate and do not include packaging.

Note: Enclosures are type NEMA 3R.

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kohlergenerators.com

Accessories

❑ **Surge Protector Kit**
- Surge protector helps protect home electrical systems and connected equipment from AC power surges and spikes.

❑ **Power Relay modules**
- 50 amp DPST power relay mounted in a NEMA type 3R enclosure
- Use up to four modules with the combined interface/load management board
- UL/cUL listed
- Dimensions: 172 x 233 x 92 mm (6.8 x 9.2 x 3.6 in.)
- For more information, see specification sheet G6-143

❑ **Emergency Stop Kit**
- Provides a quick generator emergency shutdown with an exterior-mounted stop pushbutton on the ATS.

❑ **Auxiliary circuit breaker (optional for standard models or additional for SE models)**
- Single-pole type QO circuit breaker
- Mounts on a bracket inside the enclosure
- 15 amp and 20 amp circuit breakers are available

❑ **Auxiliary position-indicating contacts**
- One closed on normal position and one closed on emergency position
- Form C contacts rated 15 A @ 250 VAC

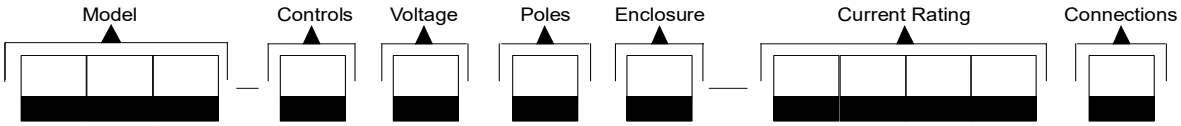
Available Models

All Model TRX transfer switches are standard-transition 60 Hz automatic transfer switches. Letters in parentheses refer to the model designation code described on the last page.

Amps	Description (Connections)	Voltages 240 (F)	Poles	Phases	WCR § RMS Symmetrical Amps
100	Standard (A)	•	2 (N)	1	10,000
	Service entrance (ASE, CSE)	•	2 (N)	1	22,000
150	Service entrance (ASE)	•	2 (N)	1	22,000
200	Standard (A)	•	2 (N)	1	10,000
	Service entrance (ASE, CSE)	•	2 (N)	1	22,000

§ Withstand and close-on rating. See pages 3-5 for WCR information and specific breaker ratings.

Model Designation



Record the transfer switch model designation in the boxes. The transfer switch model designation defines ratings and characteristics as explained below.

Sample Model Designation: TRX-JFNC-0200A

Model
TRX: Automatic Transfer Switch

Controls
J: Interface for RDC2 Controller (Combined interface/load management)

Voltage/Frequency
F: 240 Volts/60 Hz

Number of Poles/Wires
N: 2 Poles/3 Wires, Solid Neutral (120/240 V only)

Enclosure
C: NEMA 3R

Current Rating

STD	SE
100	0100
150	0150
200	0200

Connections
ASE: Service entrance rated
CSE: Service entrance rated with CSA certification (not available for 150 amp models)

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