



Available Models

- 100, 200, and 400 amp standard and service entrance models are available.
- 150 and 300 amp service entrance models are also available.
- Combined interface/load management board is available on single-phase standard and service entrance models. (Not available on 3-phase or load center models.)
- 100 amp standard single-phase models are available with or without a 16-space load center. Up to 8 tandem breakers can be used for a total of 24 circuits.
- 100 amp standard single phase model with a 12-space load center and a NEMA 1 enclosure is available as a standalone non-configurable spec (GM85273-SA_).
- See page 7 for more information.

Model RXT Automatic Transfer Switch

The Model RXT automatic transfer switch is designed for use only with Kohler® generator sets equipped with the RDC2 generator set/transfer switch controller. The transfer switch operation is controlled by the RDC2 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
- UL listed
 - UL 1008 listed, file # E58962
 - Models with load centers use UL 67 listed components
- CSA certification, file # LR58301, is available for:
 - Standard ATS without load center (single and three-phase)
 - Service entrance ATS 100, 200, 300, and 400 amp models
- Corrosion-resistant NEMA 3R aluminum enclosure
 - Padlockable
 - Approved for indoor or outdoor installation
 - ANSI 49 gray
- NEMA 1 enclosure available on 100 amp load center models
- 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)
- Five-year limited warranty

Standard Interface Board

- Standard interface board connects to the Model RDC2 generator set/transfer switch controller.
- Includes a load control contact that provides a 5 minute time delay for startup of selected loads after transfer to the emergency source. Use for large motor loads.

Combined Interface/Load Management Board

- Optional combined interface/load management board replaces the standard interface board and connects to the Model RDC2 generator set/transfer switch controller.
- The combined board is available on single-phase standard and service entrance models. (Not available on 3-phase or load center models.)
- The combined board automatically manages up to six residential loads:
 - 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.

Codes and Standards

The ATS meets or exceeds the requirements of the following specifications:

- Underwriters Laboratories UL 1008, Standard for Automatic Transfer Switches for Use in Emergency Systems, file #E58962
- Underwriters Laboratories UL 508, Standard for Industrial Control Equipment
- CSA certification available, file #LR58301 (not available for 150, 300, or 400 amp service entrance or 100 amp load center models). Must be selected when the transfer switch is ordered.
- NFPA 70, National Electrical Code
- NFPA 110, Emergency and Standby Power Systems
- NEMA Standard IC10- 1993, AC Automatic Transfer Switches

Specifications

Standard Interface Board	
Controller interface connections A and B	#20 AWG shielded twisted-pair Belden 9402 or 8762 or equivalent
Controller interface connections PWR and COM	#12- 20 AWG (see ATS Installation Manual)
Load control contact rating	10 A @ 250 VAC
Load control connections	#12- 18 AWG

Note: For combined interface/load management board specifications, see page 3.

Environmental Specifications	
Operating temperature	- 20°C to 70°C (- 4°F to 158°F)
Storage temperature	- 40°C to 85°C (- 40°F to 185°F)
Humidity	5 to 95% noncondensing

Contact Ratings	
Engine start	10 A @ 32 VDC SPST normally closed (NC)
Load control	10 A @ 125 VAC SPST normally open (NO)

Auxiliary Position-Indicating Contacts		
Model	Number of contacts Normal, Emergency	Contact Rating
100- 200A 1 Ph	1, 1 Optional	15 A @ 250VAC
100- 200 A 1 Ph SE	1, 1 Optional	15 A @ 250VAC
300- 400 A 1 Ph SE	2, 2 Standard 1, 1 Optional	10 A @ 480 VAC
400 A 1 Ph and 3Ph/3P	2, 2 Standard 1, 1 Optional	10 A @ 480 VAC
400 A 3Ph/4P	8, 8 Standard	10 A @ 480 VAC

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
	12- or 16-space load center (NEMA 1)	1	(1) #14 - 1/0 AWG	Emerg: (1) #14 - 1/0 AWG Load: per customer-supplied circuit breaker	(26) #4 - 14 AWG or (2) #14 - 1/0 AWG or (1) #6 - 2/0 AWG	
	16-space load center (NEMA 3R)	1	(1) #14 - 1/0 AWG		(26) #4 - 14 AWG or (2) #14 - 1/0 AWG or (1) 2/0 AWG	
	Service Entrance	1	(1) #12 - 2/0 AWG	(1) #14 - 1/0 AWG	(5) #12 - 250 KCMIL (Cu) or (5) #10 - 250 KCMIL (Al)	
	3-Phase	3	(1) #14 - 4/0 AWG	(1) #14 - 4/0 AWG	(3) #14 - 1/0 AWG	
150 200	Service Entrance	1	(1) #4 - 300 KCMIL	(1) #6 - 250 KCMIL	(5) #12 - 250 KCMIL (Cu) or (5) #10 - 250 KCMIL (Al)	(6) #6 - 3/0 AWG
200	Standard	1	(1) #6 AWG - 250 KCMIL	(1) #6 - 250 KCMIL	(5) #12 - 250 KCMIL (Cu) or (5) #10 - 250 KCMIL (Al)	
	3-Phase	3	(1) #14 - 4/0 AWG	(1) #14 - 4/0 AWG	(3) #14 - 1/0 AWG	
300 400	Service Entrance	1	(1) #1 - 600 KCMIL or (2) #1 - 250 KCMIL	(2) 1/0 - 250 KCMIL or (1) #4 - 600 KCMIL	(12) 1/0 - 250 KCMIL or (6) #4 AWG - 600 KCMIL	
400	Standard	1	(1) #4 - 600 KCMIL or (2) 1/0 - 250 KCMIL	(1) #4 - 600 KCMIL or (2) 1/0 - 250 KCMIL	(3) #4 AWG - 600 KCMIL or (6) 1/0 AWG - 250 KCMIL	
		3				

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

Optional Combined Interface/Load Management Board

The RXT transfer switch is available with either a standard interface board or 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 prevents frequency drops that can damage valuable electronics like computers and televisions.
- Load management allows 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 Kohler® SiteTech™ software, which is only available to Kohler-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 OnCue® Plus

- Use Kohler's OnCue® Plus Generator Management System (sold separately) to view load status (On or Off) for loads connected to the load shed relays.
- Use OnCue® Plus to remotely monitor when loads are shed or added.
- The load shed outputs can be labeled in OnCue® Plus.

Current Transformer

- The combined load management board option includes 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 table below 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	Included with combined board
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, 150, 200	22,000
300, 400	35,000
* 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. Three-phase transfer switches are rated at 480 VAC maximum. The following table lists contactor withstand current ratings (WCR) for 100- 400 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	240	2 pole/ 1 phase	10,000	Any Breaker *	Any Breaker (0.025 seconds max.)	—	
100	240	3 phase	150,000	Square D	HR	250	
			125,000		HL	150	
			100,000		BJ, HJ	125	
			65,000		BG, HG	125	
			42,000		QG, QJ	125	
			25,000		HD	150	
	480		480	22,000	GE	THED	150
				85,000	Square D	HL, HR	150
				50,000		BJ	125
				35,000		HG, HJ	150
18,000	BG	125					
				BD, HD	125		
150 200	240	2 pole/ 1 phase	10,000	Any Breaker *	Any Breaker (0.025 seconds max.)	—	
200	240	3 phase	200,000	Square D	JR	250	
			125,000		JL	250	
			100,000		JJ	250	
			65,000		JG	250	
			42,000		QG, QJ	225	
			25,000		JD	250	
	480		480		85,000	JL, JR	250
					30,000	JG, JJ	250
					18,000	JD	250

* For higher WCR values, contact the factory for additional specific breaker ratings.

WCR Ratings with Specific Manufacturer's Molded-Case Circuit Breakers

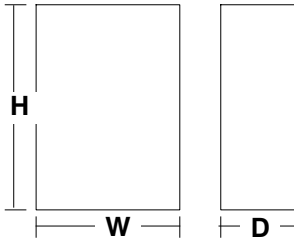
Switch Rating, Amps	Voltage, max.	Number of Poles/ Phases	WCR, RMS Symmetrical Amps	Manufacturer	Type or Class	Maximum Size, Amps
300 400	240	1 phase	65,000	GE	THLC4	350
	480		42,000	Eaton/Cutler Hammer	HMC	800
			42,000	GE	THKM3F	1200
400	240	3 pole/ 3 phase	65,000	GE	THLC4	350
	480		42,000	Eaton/Cutler Hammer	HMC	800
			42,000	GE	THKM3F	1200
	240	4 pole/ 3 phase	65,000	GE	THQMV	225
				GE	SGL1, SGL4, SGL6, SGP1, SGP4, SGP6	600
				Eaton/Cutler Hammer	LDC, CLDC, HLD, CHLD	600
				Square D	LJ, LL, LR	600
				Square D	QG, QJ	250
				Siemens/ITE	HLD6, HLXD6	600
	480	4 pole/ 3 phase	50,000	Eaton/Cutler Hammer	JGH, JGC, NHH	250
					HKD, CHKD, KDC, HKDB, CHKDB, LHH	400
					CHLD, LDC, CLDC, LGH*, LGC*, LGU*, LGX*	600
					MDL, CMDL, HMDL, CHMDL, NGS, NGH, NGC, MDLB, CMDLB, HMDLB, CHMDLB	800
					NGU	1600
					TBC4	400
				GE	TBC6, TJL4V, TJL1S-6S, SGL1, SGL4, SGL6, SGP1, SGP4, SGP6, FGN, FGH, FGL, FGP	600
					TBC8, TKL4V, TKH8S-12S, TKL8S-12S, SKH8, SKL8, SKP8, TB8	800
					HFD6, HFXD6, HFG, LFG	250
				Siemens/ITE	HJD6, HJXD6, SHJD6, HHJD6, HHJXD6, CJD6, SCJD6, HJG, LLG, LJG	400
					HLD6, HLXD6, SHLD6, HHLD6, HHLXD6, CLD6, SCLD6, HLG	600
					LMD6, LMXD6, HLMD6, HLMXD6, MD6, MXD6, HMD6, HMXD6, SMD6, SHMD6, CMD6, SCMD6, HMG, LMG	800
					CK400N, CK400NN, CK400H, CK400HH, CJ400L, NSJ400	400
				Square D	LC, DJ, DL, LJ, LL, LR, LI, NSJ600	600
					CK800N, CK800NN, CK800H, CK800HH, MJ	800
CK1000HH					1000	
PK, PJ, PL, MH, MasterPact STR 28D, CK1200HH					1200	

* With Digitrip 310+ LS or LSG Inst. Override set to 12X.

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 (lb.)	Dimension Drawing
100	Single phase	623 x 335 x 180 (24.5 x 13.2 x 7.1)	7 (15)	ADV-8688
	With 12-space load center (NEMA 1)	610 x 330 x 154 (24.0 x 13.0 x 6.0)	12 (26)	ADV-9186
	With 16-space load center (NEMA 1)	610 x 330 x 154 (24.0 x 13.0 x 6.0)	12 (26)	ADV-9187
	With 16-space load center	614 x 335 x 180 (24.2 x 13.2 x 7.1)	8 (18)	ADV-9188
	Three phase 3-pole	673 x 462 x 228 (26.5 x 18.2 x 9.0)	15 (33)	ADV-9755
	Three phase 4-pole	673 x 462 x 228 (26.5 x 18.2 x 9.0)	15 (33)	ADV-9755
	Service entrance (ASE)	734 x 416 x 175 (28.9 x 16.4 x 6.9)	10 (22)	ADV-9046
	Service entrance (CSE)	754 x 416 x 175 (29.7 x 16.4 x 6.9)	14 (30)	ADV-8797
150	Service entrance (ASE)	734 x 416 x 175 (28.9 x 16.4 x 6.9)	12 (26)	ADV-9046
200	Service entrance (ASE)	734 x 416 x 175 (28.9 x 16.4 x 6.9)	12 (26)	ADV-9046
	Service entrance (CSE)	754 x 416 x 175 (29.7 x 16.4 x 6.9)	16 (36)	ADV-8798
	Single phase	623 x 335 x 180 (24.5 x 13.2 x 7.1)	7 (15)	ADV-8688
	Three phase	673 x 462 x 228 (26.5 x 18.2 x 9.0)	15 (33)	ADV-9755
300	Service entrance	1452 x 629 x 329 (57.2 x 24.8 x 12.9)	59 (130)	ADV-9768
400	Single phase	1222 x 610 x 343 (48.1 x 24.0 x 13.5)	45 (100)	ADV-9756
	3-Pole	1222 x 610 x 343 (48.1 x 24.0 x 13.5)	47 (104)	ADV-9756
	4-Pole	1702 x 610 x 514 (67.0 x 24.0 x 20.2)	188 (414)	ADV-9757
	Service entrance	1452 x 629 x 329 (57.2 x 24.8 x 12.9)	59 (130)	ADV-9768

† 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 except as noted.

Accessories

Auxiliary position-indicating contacts

- Standard on 300-400 amp models, optional for others
- One closed on normal position and one closed on emergency position
- Form C contacts rated 15 A @ 250 VAC

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

Status indicator kit for standard interface board

- LEDs indicate normal and emergency source availability and contactor position
- Mounts on the outside of the RXT enclosure
- View transfer switch status without removing enclosure cover
- An overhang on the enclosure protects the indicator panel and ribbon cable opening
- Dimensions: 92 mm x 42 mm (3.62 in. x 1.65 in.)
- Connects to the standard interface board only
- Not available for 400 amp/4 pole model
- For more information on the status indicator kit, see specification sheet G11-123

Status indicator kit for combined interface/load management board

- LEDs indicate normal and emergency source availability and contactor position
- Dual color LEDs for each load indicate load status (powered or shed) and flash during a test
- Load shed test button allows the operator to cycle the load shed relays in order of priority (when generator is in RUN mode)
- Mounts on the outside of the RXT enclosure
- View transfer switch and load status without removing enclosure cover
- An overhang on the enclosure protects the indicator panel and ribbon cable opening
- Dimensions: 183 mm x 42 mm (7.20 in. x 1.65 in.)
- Connects to the combined interface/load management board only
- Not available for 400 amp/4 pole model
- For more information on the status indicator kit, see specification sheet G11-123

Auxiliary circuit breaker (service entrance models only)

- Single-pole type QO circuit breaker
- Mounts on a bracket inside the enclosure
- 15 amp and 20 amp circuit breakers are available

Available Models

All Model RXT 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			Poles	Phases	WCR § RMS Symmetrical Amps
		208 (C)	240 (F)	480 (M)			
100	Standard (A)		•		2 (N)	1	10,000
	Standard, with 16-space load center (B) ¶		•		2 (N)	1	10,000
	Standard, with 12-space load center **		•		2 (N)	1	10,000
	Service entrance (ASE, CSE)		•		2 (N)	1	22,000
	Standard, 3-phase (A)	•	•	•	3 (T) or 4 (V)	3	10,000
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
	Standard, 3-phase (A)	•	•	•	3 (T) or 4 (V)	3	10,000
300	Service entrance (ASE, CSE)		•		2 (N)	1	35,000
400	Standard (A)		•		2 (N)	1	35,000
	Service entrance (ASE, CSE)		•		2 (N)	1	35,000
	Standard, 3-phase (A)	•	•	•	3 (T) or 4 (V)	3	42,000 @ 480V 65,000 @ 240 V

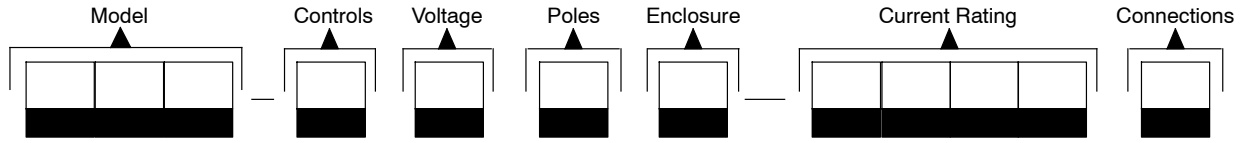
§ Withstand and close-on rating. See pages 3-5 for WCR information and specific breaker ratings.

¶ With 16-space load center and NEMA 1 or NEMA 3R enclosure. Up to 8 tandem breakers can be used, for a maximum of 24 circuits.

** GM85273- SA_ with 12-space load center and NEMA 1 enclosure.

Note: Combined interface board is available on single-phase standard or service entrance models. (Not available on 3-phase or load center models.)

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: RXT-JFNC-0200A

Model

RXT: Kohler Automatic Transfer Switch

Controls

J: Interface for RDC2 Controller
 (standard or combined interface/load management)

Voltage/Frequency

C: 208 Volts/60 Hz (3-phase only)
 F: 240 Volts/60 Hz
 M: 480 Volts/60 Hz (3-phase only)

Number of Poles/Wires

N: 2-pole, 3-wire, solid neutral (120/240 V only)
 T: 3-pole, 4-wire, solid neutral
 V: 4-pole, 4-wire, switched neutral

Enclosure

A: NEMA 1 *
 C: NEMA 3R

* NEMA 1 enclosure is available on 100 amp load center models only.

Current Rating

0100: 100 amps 0300: 300 amps
 0150: 150 amps 0400: 400 amps
 0200: 200 amps

Connections

A: No load center
 B: With load center (100 amp single-phase only)
 ASE: Service entrance rated
 CSE: Service entrance rated with CSA certification
 (not available for 150 amp models)

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