

Model: **RXT**

KOHLER POWER SYSTEMS

**Automatic Transfer Switch
100–400 Amps**

9001
KOHLER
POWER SYSTEMS
NATIONALLY REGISTERED



Model RXT Automatic Transfer Switch

The Model RXT automatic transfer switch is designed for use only with Kohler® generator sets equipped with RDC2 or DC2 generator set/transfer switch controls. The transfer switch operation is controlled by the RDC2/DC2 integrated generator set/transfer switch controller, which is mounted on the following Kohler® generator set models:

- 14RESA/RESAL
- 20RESA/RESAL
- 48RCL

Standard Features

- Allows utility voltage display on the RDC2/DC2 integrated generator set/transfer switch controller, available exclusively on Kohler® residential and light commercial generator sets
- Interface board for connection to the Model RDC2 or DC2 generator set/transfer switch controller (mounted on generator set models listed above)
- UL listed
 - Models with load centers, UL 67 listed, file #E251086
 - Models without load centers, UL 1008 listed, file #E58962
- CSA certified, file #LR58301 (not applicable to service entrance models)
- Corrosion-resistant NEMA 3R aluminum enclosure:
 - Padlockable
 - Approved for indoor or outdoor installation
 - ANSI 49 gray
- 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)
- 100, 200, and 400 amp standard and service entrance models are available; see page 6 for available models
- 100 amp standard single-phase models are available with or without 16-space load center. Up to 8 tandem breakers can be used for a total of 24 circuits.
- Service entrance models include disconnect circuit breaker on the utility (normal) source side (80% rated)
- Five-year limited warranty
- Optional status indicator available:
 - LED indicators for source availability and contactor position
 - View transfer switch status without removing enclosure cover

Codes and Standards

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

- Underwriters Laboratories UL 67, Enclosed Panel Boards (load center models) file #E251086
- 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 certified, file #LR58301 (not applicable to service entrance models)
- NFPA 70, National Electrical Code
- NFPA 110, Emergency and Standby Power Systems
- NEMA Standard IC10-1993, AC Automatic Transfer Switches

Specifications

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

Interface Module Specifications	
Load Control Contact Rating	10 A @ 250 VAC
Load Control Wire Size	#12-18 AWG
Controller Interface Connections A and B Wire Size	#20 AWG shielded twisted-pair Belden 9402 or 8723 or equivalent
Controller Interface Connections PWR and COM Wire Size	#12-20 AWG

Cable Sizes						
AL/CU UL-Listed Solderless Screw-Type Terminals for External Power Connections						
Switch Size, Amps	Switch	Phases	Range of Wire Sizes, Cu/Al			
			Normal and Emergency	Load	Neutral	Ground
100	Standard	1	(1) #14 – 1/0 AWG	(1) #14 – 1/0 AWG	(3) #12 – 1/0 AWG	(9) #4 – 14 AWG
	With load center	1	(1) #14 – 1/0 AWG	per customer-supplied circuit breaker	(1) #2 – 2/0 AWG	(9) #4 – 14 AWG
	Service Entrance	1	Normal: (1) #12 – 2/0 AWG Emerg: (1) #6 – 250 MCM	(1) #6 – 250 MCM	(3) #6 – 250 MCM	(3) #14 – 1/0 AWG
	3-Phase	3	(1) #8 – 3/0 AWG	(1) #8 – 3/0 AWG	(3) #6 AWG – 3/0 AWG	(3) #6 – 3/0 AWG
200	Standard	1	(1) #6 AWG – 250 MCM	(1) #6 AWG – 250 MCM	(3) #6 AWG – 250 MCM	(9) #4 – 14 AWG
	Service Entrance	1	Normal: (1) #4 – 300 MCM Emerg: (1) #6 – 250 MCM	(1) #6 AWG – 250 MCM	(3) #6 AWG – 250 MCM	(3) #14 – 1/0 AWG
	3-Phase	3	(1) #6 AWG – 250 MCM	(1) #6 AWG – 250 MCM	(3) #4 AWG – 600 MCM (6) 1/0 – 250 MCM	(3) #6 – 3/0 AWG
400	Standard	1	(2) #6 – 250 MCM	(2) #6 – 250 MCM	(1) #4 – 600 MCM (2) 1/0 – 250 MCM	(3) #14 – 1/0 AWG
	Service Entrance	1	Normal: (2) 3/0 – 250 MCM Emerg: (2) #6 – 250 MCM	(2) #6 – 250 MCM	(3) #4 – 600 MCM (6) 1/0 – 250 MCM	
	3-pole 208-240 V	3	(2) #6 – 250 MCM	(2) #6 – 250 MCM	(1) #4 – 600 MCM (2) 1/0 – 250 MCM	
	3 or 4 pole 480 V	3	(1) #4 – 600 MCM (2) #6 – 250 MCM	(1) #4 – 600 MCM (2) #6 – 250 MCM	(1) #4 – 600 MCM (2) 1/0 – 250 MCM	

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 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 *	22,000
200 *	
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 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	Eaton/ Cutler-Hammer	FCL, FB, QCHW, GB, GHB, GC, GHC, GD, EHD	100
					FDB, FD, HFD, FDC, CA, CAH	150
				Square D	FI, FC, FA, FH	100
					QOM1, QOM1-VH	125
					Q2, Q2-H, Q2H	175
					QOM2, QOM2-VH	225
					QB, QD, QG, GJ	250
				Siemens	CED6, ED2, ED4, ED6, HED4, HED6, QP(Q2125), QPH(Q2125H)	125
					QJ2, QJH2	150
				GE	THQB, THQC, THHQB, THHQC	100
					THHQL, TQDL, THQDL	125
					SE, TQD, THQD, THED	150
200	240	2 pole/ 1 phase	10,000	Eaton/ Cutler-Hammer	CSR/BHW, FD, HFD	225
					JD, JDB, HJD	225–250
					JDC	250
					DK, KD, KDB, HKD, KDC, LCL, LA	400
				Square D	Q2, QOM2, QOM2-VH, Q2-H, Q2H	225
					KI, KA, KH, KC, QB, QD, QG, QJ	250
					LE, LX, LXI, LC, LI, LA, LH	400
				Siemens	FD6-A, FXD6-A, HFD6, CFD6	250
				GE	TQDL, THQDL	125
					THLC2	225
					SF	250

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
100 200	480	3 pole/ 3 phase 4 pole/ 3 phase	30,000	Cutler-Hammer	FDC, HFD	150
					HJD, JDC	250
					HKD, KD, KDB, KDC, LA TRI-PAC, LCL	400
				Square D	FC, FI	100
					KC, KH, KI	250
					LA, LC, LE, LH, LI, LX, LXI	400
				ITE/Siemens	CED6, HED4, HED6	125
					CFD6, FD6, FXD6, HFD6	250
					CJD6, HJD6, HHJD6, HHJXD6, JD6, JXD6, SCJD6, SHJD6, SJD6	400
				GE	TB1	100
					SEL, SEP, TEL, THLC1	150
					TFL, THLC2	225
					SFL, SFP	250
					SGL4, SGP4, TB4, THJK4, THLC4, TJJ, TJK4, TLB4	400
400	240	1 phase 3 pole/ 3 phase	50,000	Cutler-Hammer	LD, LDB, HLD, LDC, CLD, CHLD, CLDC	600
					MDL, HMDL, NB	800
				Square D	LC, LI, LE, LX, LXI, DG, DJ, DL	600
				ITE/Siemens	LD, LXD, HLD, HLXD, HHLD, HHLXD, CLD, NLGA, HLGA, LLGA, SLD, SHLD, SCLD	600
					LMD, LMXD, HLMD, HLMXD, MD, MXD, HMD, HMXD, CMD, NMG, HMG, LMG, SMD, SHMD, SCMD	800
				GE	SGHA, FGN, FGL, FGP	600
				Merlin Gerin	CJ600N, CJ600H	600
				ABB	T5, T6	600
400	240	1 phase 3 pole/ 3 phase	50,000	If any of the following breakers is selected for application, the continuous load current must not exceed 80 percent of the switch rating:		
				Cutler-Hammer	DK, KDB, KD, CKD, HKD, CHKD, KDC, LCL, LA TRIPAC	400
				Square D	LA, LH, LC, LI, LE, LX, LXI	400
				ITE/Siemens	NJGA, HJGA, LJGA, JXD2, JD6, JXD6, HJD6, HJXD6, HHJD6, HHJXD6, CJD6, SJD6, SHJD6, SCJD6	400
				Merlin Gerin	CJ400N, CJ400H, CJ400L	400

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
400	480	3 pole/ 3 phase 4 pole/ 3 phase	50,000	Cutler-Hammer	HJD, JDC	250
					HKD, CHKD, KDC, LCL, LA TRIPAC	400
					HLD, CHLD, LDC, CLDC	300-600
					NB TRI-PAC	300-800
				Square D	KI, KC	250
					LI, LXI, LX, LE, LC	600
					MX, ME, MH	800
				ITE/Siemens	CFD6, HFD6	250
					CJD6, SCJD6, HHJD6, HHJXD6, SHJD6, HJD6	400
					CLD6, SCLD6, HHL6, HHLXD6, SHLD6, HLD6	600
					CMD6, SCMD6, HMD6, SHMD6, HMD6, MD6, MXD6, SMD6	800
				GE	SFL, SFP, TFL, THLC2	250
					SGL4, SGP4, TB4, THLC4, TLB4	400
					SGL6, SGP6, TB6, TJL4V, TKL4V, TJL1S-6S	600
					SKL8, SKP8, TB8, SKH8	800
				Merlin Gerin	CF250L, CF250H	250
					CJ400L, CK400H, CJ400H, CK400N	400
					CJ600H	600
					CK800H, CK800N	800

Dimensions and Weights

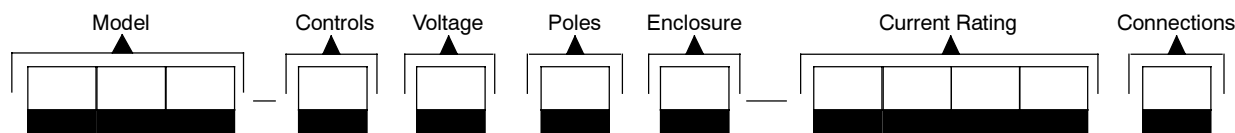


Amps	Description	Dimensions, H x W x D, mm (in.) *	Shipping Weight †	
			kg	(lb.)
100	Single phase	620 x 335 x 180 (24.4 x 13.2 x 7.1)	7	(15)
	With load center	620 x 335 x 180 (24.4 x 13.2 x 7.1)	9	(20)
	Three phase	679 x 462 x 228 (26.7 x 18.2 x 9.0)	15	(34)
	Service Entrance	731 x 416 x 175 (28.8 x 16.4 x 6.9)	12	(26)
200	Single phase	620 x 335 x 180 (24.4 x 13.2 x 7.1)	8	(17)
	Three phase	679 x 462 x 228 (26.7 x 18.2 x 9.0)	16	(35)
	Service Entrance	731 x 416 x 175 (28.8 x 16.4 x 6.9)	14	(30)
400	Single phase	1067 x 559 x 329 (42.0 x 22.0 x 12.9)	50	(110)
	3-Pole/208-240 Volts	1067 x 559 x 329 (42.0 x 22.0 x 12.9)	54	(120)
	3-Pole/480 Volts	1222 x 610 x 343 (48.1 x 24.0 x 13.5)	68	(150)
	4-Pole	1222 x 610 x 343 (48.1 x 24.0 x 13.5)	73	(160)
	Service Entrance	1067 x 559 x 329 (42.0 x 22.0 x 12.9)	59	(130)

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

† Shipping weights are approximate and include packaging.

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/DC2 Controller

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

C: NEMA 3R

Current Rating: Numbers indicate the current rating of the switch in amperes:

0100

0200

0400

Connections

A: No load center

B: With load center (100 amp single-phase only)

ASE: Service entrance rated

Available Models

All Model RXT transfer switches are standard-transition 60 Hz automatic transfer switches with NEMA 3R aluminum enclosures. Letters in parentheses refer to the model designation code described above.

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 load center (B) †		•		2 (N)	1	10,000
	Service entrance (ASE)		•		2 (N)	1	22,000
	Standard, 3-phase	•	•	•	3 (T) or 4 (V)	3	30,000
200	Standard (A)		•		2 (N)	1	10,000
	Service entrance (ASE)		•		2 (N)	1	22,000
	Standard, 3-phase (A)	•	•	•	3 (T) or 4 (V)	3	30,000
400	Standard (A)		•		2 (N)	1	50,000
	Service entrance (ASE)		•		2 (N)	1	35,000
	Standard, 3-phase (A)	•	•	•	3 (T) or 4 (V)	3	50,000

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

† 16-space load center. Up to 8 tandem breakers can be used, for a maximum of 24 circuits.

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