

Model: RDT

Automatic Transfer Switch 100-400 Amps





MPAC® 500 Controller Features

- User-friendly interface with easy-to-read international symbols
- Source available and contactor position indicators
- LED indication of system faults
 - Failure to acquire standby source
 - Failure to transfer
 - Auxiliary switch fault
- Common fault contact: latches closed on system faults shown above
- Engine start contact: provides contact closure to start the generator set
- Load control contact: allows 5-minute delay in startup of selected loads
- Test button (with or without load)
- Exercise set button
 - O Weekly 20-minute generator set exercise
 - With or without load
- Single-phase voltage sensing on both sources, $\pm 5\%$
- Line-to-line frequency sensing, ±2%
- Fixed time delays

Standard Features

- UL listed
 - UL 1008 listed, file #E58962
 - o Models with load centers use UL 67 listed components
- cUL listed
 - o 100 and 200 amp models with load centers
- CSA certification available, file #LR58301 (not applicable to service entrance or load center models)
- 220/240 VAC, 50/60 Hz (selectable)
- 100, 200, and 400 amp models available
- Two-pole, single-phase open-transition transfer switch
- Contactor electrically and mechanically interlocked
- Double throw inherently interlocked design
- Solid neutral
- Contactor manually operable for maintenance purposes
- Silver allov main contacts
- Automatic transfer switches are 100% equipment rated and can be applied at the rated current without derating (except service entrance models; see below)
- 100 and 200 amp models available with or without prewired Square D type QO load center
 - 100 amp load center models use up to 16 circuit breakers (up to 8 tandem breakers can be used for a maximum of 24 circuits)
 - o 200 amp load center models use up to 24 circuit breakers
 - 200 amp service entrance model with 42-circuit breaker load center is available
- Two enclosures available
 - NEMA Type 1 steel ANSI 49 gray enclosure for indoor installation. 100 amp and 200 amp models without load centers can be recess-mounted between wall studs (not service entrance model)
 - NEMA Type 3R corrosion-resistant aluminum ANSI 49 gray padlockable enclosure. Approved for indoor or outdoor installation
- Five-year limited warranty
- See page 5 for available accessories

Service Entrance Model Features

- 200 and 400 amp service entrance rated automatic transfer switches available
- Service disconnect circuit breaker on the normal (utility) source (80% rated)
- NEMA 3R aluminum ANSI 49 gray enclosure
- · Circuit breaker for generator set battery charger
- See page 5 for available SE model accessories

Specifications

Environme	ental 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	1 A @ 30 VDC SPST normally closed (NC)
Common fault	0.5 A @ 125 VAC; 2 A @ 30 VDC SPST normally open (NO)
Load control	10 A @ 120 VAC SPST normally open (NO)
Auxiliary contacts (optional)	10 A @ 250 VAC Form C

Source Sensing	
Undervoltage dropout	80%
Undervoltage pickup	85%
Underfrequency dropout	90%
Underfrequency pickup	96%

	Time Delay	ys		
	Factory	Adjustment with Accessory Board*		
Time Delay	Setting	Range	Increment	
Engine start	3 seconds	1-10 seconds	1 second	
Transfer from Normal to Emergency	3 seconds	1-10 seconds	1 second	
Retransfer from Emergency to Normal	6 minutes	3-30 minutes	3 minutes	
Engine cooldown	5 minutes	1-10 minutes	1 minute	
Exercise run time	20 minutes	5-50 minutes	5 minutes	
Exercise interval	1 week	1 week/2 week (DIP switch)		
Load control connection delay	5 minutes	5 or 10 m (DIP sw		
Failure to acquire Emergency source	78 seconds	NA	1	
Undervoltage dropout	0.5 second	NA	1	
Underfrequency dropout	3 seconds	NA		
* Optional accessory boa	ırd required for	r time delay adjus	stments	

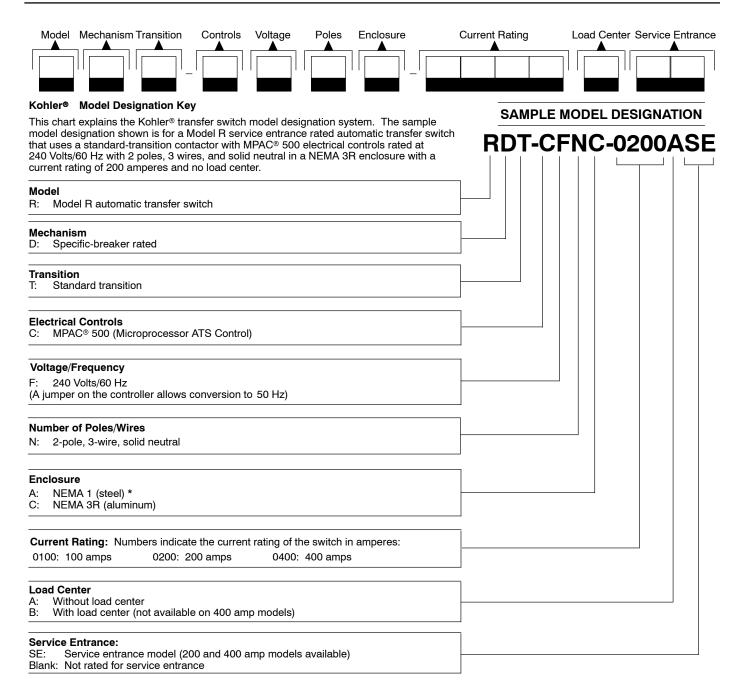
Optional accessory board required for time delay adjustments NA = not adjustable

			Cable Sizes					
	AL/CU U	L-Listed Solderless Screv	w-Type Terminals for Exte	rnal Power Connections				
Switch		Range of Wire Sizes, Cu/Al						
Size, Amps	Normal (per phase)	Emergency (per phase)	Load (per phase)	Neutral	Ground			
100	(1) #14 - 1/0 AWG (5) #12 - 250 KCMIL(Cu) or (5) #10 - 250 KCMIL(Al)							
100 B	(1) #14 -	1/0 AWG	per customer-supplied branch circuit breakers	(26) #14 - #4AWG or (2) #14 - 1/0 AWG or (1) #6 - 2/0 AWG				
200	(1) #6 AWG	- 250 KCMIL	(1) #6 AWG - 250 KCMIL	(5) #12 - 250 KCMIL(Cu) or (5) #10 - 250 KCMIL(AI)	(9) #14 - #6 AWG			
200 B	(1) #6 AWG - 250 KCMIL		per customer-supplied branch circuit breakers	(38) #14 - #4 AWG or (3) #14 - 1/0 AWG or (1) #4 AWG - 250 KCMIL	(4) #14 - 1/0 AWG			
200 BSE	(1) #4 - 300 KCMIL	(1) #6 - 250 KCMIL	per customer-supplied branch circuit breakers	(4) #12 - 250 KCMIL(Cu) or (4) #10 - 250 KCMIL(AI)				
200 SE	(1) #4 - 300 KCMIL	(1) #6 - 250 KCMIL	(1) #6 AWG - 250 KCMIL	(5) #12 - 250 KCMIL(Cu) or (5) #10 - 250 KCMIL(AI)				
400	(2) 1/0 – 250 KCMIL or (1) 4 AWG - 600 KCMIL		(3) #4 – 600 KCMIL (6) 1/0 – 250 KCMIL	(O) #0 0/0 A)A(O				
400 SE	00 SE (1) #1 - 600 KCMIL or (2) 1/0 – 250 K (2) #1 – 250 KCMIL (1) 4 AWG - 60			(6) #4 – 600 KCMIL (12) 1/0 – 250 KCMIL	(6) #6 – 3/0 AWG			

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



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* NEMA 1 only: 100 and 200 amp models without load centers can be recess-mounted between wall studs. Optional wall-mount bezel available.

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