

Automatic Transfer Switches Standard Any Breaker Rated



Available Controllers

- Decision-Maker® MPAC 1200
- Decision-Maker® MPAC 1500

Ratings

Model	Current	Voltage, Frequency
KCS	30- 4000 amps	208- 600 VAC 50/60 Hz
KCP	150- 4000 amps	
KCC	150- 4000 amps	

Transfer Switch Standard Features

- UL 1008 listed
file # E58962 (automatic), # E86894 (nonautomatic)
- CSA certification available
- IBC and OSHPD seismic certification available
- Available in 2, 3, or 4 pole configurations
- Integral solid neutral provides line-to-neutral monitoring
- Electrically operated, mechanically held mechanism
- High withstand and close-on ratings
- Design suitable for emergency and standby applications on all classes of load, 100% tungsten rated through 400 amps
- Silver alloy main contacts
- Gold-flashed engine start contacts rated 2 amps @ 30 VDC/250 VAC
- Front-accessible contacts for easy inspection
- Front-replaceable main and arcing contacts (800- 4000 amps)
- Reliable, field-proven solenoid mechanism
- Switching mechanisms lubricated for the expected life of the transfer switch
- Internal manual operating handle
- Main shaft auxiliary position-indicating contacts rated 10 amps @ 32 VDC/250 VAC
- NEMA type 1, 12, 3R, 4, and 4X enclosures available
- Standard one-year limited warranty. Extended limited warranties are available.

Standard-Transition Models (KCS)

- Standard-transition operation with either automatic or non-automatic control
- Standard-transition transfer time less than 100 milliseconds (6 cycles @ 60 Hz)
- Double-throw, mechanically interlocked design (break-before-make power contacts)
- Solid, switched, or overlapping (make-before-break) neutral

Programmed-Transition Models (KCP)

- Programmed-transition operation with either automatic or non-automatic control
- Programmed-transition operation provides a center OFF position that allows residual voltages in the load circuits to decay
- Programmable OFF time
- Double-throw, mechanically interlocked design (break-before-make power contacts)
- Solid or switched neutral

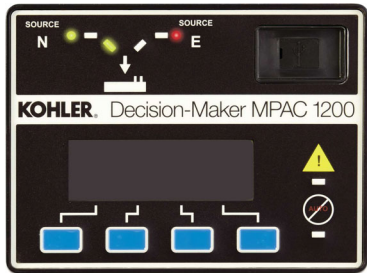
Closed-Transition Models (KCC)

- Closed-transition transfer switches operate with no power interruption during transfer and retransfer between two live sources
- Source parallel times are less than 100 milliseconds (6 cycles @ 60 Hz)
- Adjustable extended transfer time relay (ensure that the setting complies with applicable codes)
- Solid or switched neutral

Available Automatic Transfer Switch Controllers

Select one of the following controllers for your automatic transfer switch.

Decision-Maker® MPAC 1200 Controller



- LCD display, 4 lines x 20 characters, backlit
- Complete programming and viewing capability at the door using the keypad and LCD display
- LED indicators: Source available, transfer switch position, service required (fault), and “not in auto”
- Programmable voltage and frequency pickup and dropout settings
- Programmable time delays
- Programmable generator exerciser
- Time-based load control
- Two programmable inputs and two programmable outputs
- Up to four I/O extension modules available
- Modbus communication standard
- RS-485 communication standard
- Ethernet communication optional

For more information about Decision-Maker® MPAC 1200 features and functions, see specification sheet G11-127.

Decision-Maker® MPAC 1500 Controller



- LCD display, 4 lines x 20 characters, backlit
- Complete programming and viewing capability at the door using the keypad and LCD display
- LED indicators: Source available, transfer switch position, service required (fault), and “not in auto”
- Programmable voltage and frequency pickup and dropout settings
- Programmable time delays
- Programmable generator exerciser
- Time-based load control
- Current-based load control (current-sensing kit required)
- Two programmable inputs and two programmable outputs
- Up to four I/O extension modules available
- Modbus communication standard
- RS-485 communication standard
- Ethernet communication standard
- Three-source system
- Prime power

For more information about Decision-Maker® MPAC 1500 features and functions, see specification sheet G11-128.

Codes and Standards

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

- CSA C22.2 No. 178 certification available, file #LR58301
- EN61000-4-4 Fast Transient Immunity Severity Level 4
- EN61000-4-5 Surge Immunity Class 4 (voltage sensing and programmable inputs only)
- IEC Specifications for EMI/EMC Immunity:
 - CISPR 11, Radiated Emissions
 - IEC 1000-4-2, Electrostatic Discharge
 - IEC 1000-4-3, Radiated Electromagnetic Fields
 - IEC 1000-4-4, Electrical Fast Transients (Bursts)
 - IEC 1000-4-5, Surge Voltage
 - IEC 1000-4-6, Conducted RF Disturbances
 - IEC 1000-4-8, Magnetic Fields
 - IEC 1000-4-11, Voltage Dips and Interruptions
- IEEE Standard 446, IEEE Recommended Practice for Emergency and Standby Power Systems for Commercial and Industrial Applications
- IEEE 472 (ANSI C37.90A) Ring Wave Test
- NEMA Standard ICS 10-2005, Electromechanical AC Transfer Switch Equipment
- NFPA 70, National Electrical Code
- NFPA 99, Essential Electrical Systems for Health Care Facilities
- NFPA 110, Emergency and Standby Power Systems
- Seismic certification in accordance with the International Building Code is available. (Accessory kit is required for seismic certification.)
 - IBC 2000, referencing ASCE 7-98 and ICC AC-156
 - IBC 2003, referencing ASCE 7-02 and ICC AC-156
 - IBC 2006, referencing ASCE 7-05 and ICC AC-156
 - IBC 2009, referencing ASCE 7-05 and ICC AC-156
 - IBC 2012, referencing ASCE 7-10 and ICC AC-156
- California OSHPD approval is available. (Accessory kit required.)
- Underwriters Laboratories UL 1008, Standard for Automatic Transfer Switches for Use in Emergency Standby Systems file #E58962 (automatic), #E86894 (nonautomatic)

Application Data

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

Input and Output Connection Specifications	
Component	Wire Size Range
Main board I/O terminals	#12- 24 AWG
I/O module terminals	#14- 24 AWG

Auxiliary Position Indicating Contacts (rated 10 amps @ 32 VDC/250 VAC)			
Switch Rating, Amps	Number of Contacts Indicating Normal, Emergency		
	KCS	KCP	KCC
30- 230	2, 2	N/A	N/A
260- 600	8, 8	—	—
150- 600	—	8, 8	7, 7
800-1200	8, 8	8, 8	7, 7
1600- 4000	8, 8	7, 7	6, 6

Extended Transfer Time Adjustable Relay (Model KCC only)	
Power	12 or 24 VDC (customer-supplied)
Connections	12- 20 AWG
Output type	Relay contacts, DPDT (2 form C)
Rating	10 amps max. resistive at 240 VAC
Note: Customer-supplied shunt trip on emergency source circuit breaker is required.	

Source Synchronization Settings (Model KCC)		
Parameter	Default	Adjustment Range
Voltage differential	5%	0- 5%
Frequency differential	0.1 Hz	0- 0.3 Hz
Phase angle	10 deg.	0- 10 deg.

Cable Sizes

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

UL-Listed Solderless Screw-Type Terminals for External Power Connections				
Range of Wire Sizes, Copper or Aluminum ‡				
Model	Switch Rating, Amps	Normal, Emergency, and Load (per phase)	Neutral (3-pole)	Ground
KCS	30- 150	(1) #14 AWG to 4/0 AWG	(3) #14 to 4/0 AWG	(3) #6 to 3/0
	200	(1) #14 AWG to 4/0 AWG <i>Cu only</i>	(3) #14 to 4/0 AWG <i>Cu only</i>	(3) #6 to 3/0
	230 (208- 480 V)			
	230 (600 V) 260- 400	(1) #4 AWG to 600 KCMIL or (2) 1/0 to 250 KCMIL	(3) #4 AWG to 600 KCMIL or (6) 1/0 to 250 KCMIL	(3) #4 AWG to 600 KCMIL or (6) 1/0 to 250 KCMIL
KCP KCC	150- 400	(1) #4 AWG to 600 KCMIL or (2) 1/0 to 250 KCMIL	(3) #4 AWG to 600 KCMIL or (6) 1/0 to 250 KCMIL	(3) #4 AWG to 600 KCMIL or (6) 1/0 to 250 KCMIL
KCS KCP KCC	600	(2) #2 AWG to 600 KCMIL	(6) #2 AWG to 600 KCMIL	(3) #4 AWG to 600 KCMIL or (6) 1/0 to 250 KCMIL
	800- 1000 1200 (NEMA 3R)	(4) 1/0 AWG to 750 KCMIL	(12) 1/0 AWG to 750 KCMIL	
	1200 (NEMA 1)	(4) 1/0 AWG to 750 KCMIL	(12) 1/0 AWG to 750 KCMIL	(3) #4 to 500 KCMIL
	1600- 2000 F † (NEMA 3R)	(6) 1/0 AWG to 750 KCMIL	(18) 1/0 AWG to 750 KCMIL	(3) #4 AWG to 600 KCMIL or (6) 1/0 to 250 KCMIL
	1600- 2000	(6) 1/0 AWG to 750 KCMIL	(18) 1/0 AWG to 750 KCMIL	(3) #4 to 500 KCMIL
	2600- 3000	(12) 1/0 AWG to 750 KCMIL	(36) 1/0 AWG to 750 KCMIL	
	4000	(12) 1/0 AWG to 750 KCMIL	(36) 1/0 AWG to 750 KCMIL	

† F = Front connected
‡ Use 75°C minimum Cu/Al wire for power connections.

Withstand and Close-On Ratings (WCR) Standard, Programmed, and Closed-Transition Models

Maximum current in RMS symmetrical amperes when coordinated with customer-supplied fuses or circuit breakers. All values are available symmetrical RMS amperes and tested in accordance with the withstand and close-on requirements of UL 1008. Application requirements may permit higher withstand ratings for certain size switches. Contact the factory for assistance.

Model	Switch Rating, Amps	Withstand Current Ratings in RMS Symmetrical Amperes								Short Time Ratings (sec.) ‡								
		Current-Limiting Fuses				Time-Based Rating *				480 V Max.				600 V Max.				
		480 V Max.	600 V Max.	Amps, Max.	Fuse Class	Time, sec.	240 V, Max	480 V, Max	600 V, Max	.13	.2	.3	.5	.1	.13	.3	.5	
KCS	30	100kA	—	300	J	0.025	10kA	10kA	10kA	—				—				
		200kA	35kA	200	J					—				—				
		35kA	35kA	200	RK1					—				—				
	70 104 150	200kA	35kA	200	J	0.025	10kA	10kA	10kA	—				—				
		35kA	35kA	200	RK1	0.025	10kA	10kA	10kA	—				—				
	200	200kA	35kA	200	J	0.025	10kA	10kA	10kA	—				—				
		35kA	35kA	200	RK1					—				—				
230 (480V)	100kA	—	300	J	0.025	10kA	10kA	—	—				—					
230 (600V)	200kA	200kA	600	J	0.05	65kA	42kA †	35kA	7500A	—				—				
			800	L						—				—				
KCP KCC	150	200kA	200kA	600	J	0.05	65kA	42kA †	35kA	7500A	—				—			
				800	L	0.05	65kA	42kA †	35kA	7500A	—				—			
KCP	225	200kA	200kA	600	J	0.05	65kA	42kA †	35kA	7500A	—				—			
				800	L	0.05	65kA	42kA †	35kA	7500A	—				—			
KCS KCP KCC	260 400	200kA	200kA	600	J	0.05	65kA	42kA †	35kA	7500A	—				—			
				800	L	0.05	65kA	42kA †	35kA	7500A	—				—			
	600	200kA	200kA	600	J	0.05	65kA	42kA †	35kA	—	—				—			
				800	L	0.05	65kA	42kA †	35kA	—	—				—			
	800- 1200	200kA	200kA	1600	L	0.05	50kA	50kA	50kA	36kA	—		36kA	—				
	1600- 2000 F	200kA	200kA	2500	L	0.05	85kA	85kA	85kA	42kA	36kA	—						
	1600- 2000 S	200kA	200kA	3000	L	0.05	100kA	100kA	100kA	42kA	36kA	42kA	—					
2600 3000	200kA	200kA	4000	L	0.05	100kA	100kA	100kA	42kA	36kA	42kA	—						
4000	200kA	200kA	5000	L	0.05	100kA	100kA	100kA	85kA	65kA		65kA						

* Applicable to breakers with instantaneous trip elements.

† Applicable to 2-pole, 3-pole, and conventional 4-pole switches only. Overlapping neutral switches have "any" breaker ratings of 35kA, 0.050 seconds at 480 V.

‡ Short time ratings are provided for applications involving breakers that utilize trip delay settings for system selective coordination.

Ratings with Specific Manufacturers' Circuit Breakers

The following charts list power switching device withstand and close-on ratings (WCR) in RMS symmetrical amperes for specific manufacturers' circuit breakers. Circuit breakers are supplied by the customer.

Model	Switch Rating, amps	WCR, amps RMS	Volts, Max.	Molded-Case Circuit Breakers		
				Manufacturer	Type or Class	Max. Size, amps
KCS	30	22,000	480	GE	THED	40
	70	150,000	240	Square D	HR	250
		125,000			HL	150
		100,000			BJ, HJ	125
		65,000			BG, HG	125
		42,000			QG, QJ	90
		25,000			HD	150
		25,000			BD	125

Model	Switch Rating, amps	WCR, amps RMS	Volts, Max.	Molded-Case Circuit Breakers					
				Manufacturer	Type or Class	Max. Size, amps			
KCS	70	22,000	480	GE	THED	90			
		85,000		Square D	HL, HR	150			
		50,000			BJ	125			
		35,000			HG, HJ	150			
		18,000	BG		125				
		25,000	600	Square D	BD, HD	125			
		18,000			HJ, HL, HR	150			
		14,000			BJ	125			
BD	125								
KCS	104	150,000	240	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			
		22,000			480	Square D	BD	125	
							GE	THED	150
			85,000	HL, HR			150		
			50,000	BJ			125		
			35,000	HG, HJ			150		
			18,000	BG			125		
			25,000	600			Square D	BD, HD	125
								HJ, HL, HR	150
		BJ			125				
		BD			125				
KCS	150	150,000	240	Square D	HR	250			
		125,000			HL	150			
		100,000			BJ, HJ	125			
		65,000			JG, JJ, JL, JR	200			
		42,000			BG, HG	125			
		25,000			QG, QJ	200			
		22,000			480	Square D	HD	150	
							85,000	BD	125
			50,000	GE			THED	150	
			35,000	HL, HR			150		
			25,000	BJ			125		
			18,000	HG, HJ			150		
			25,000	600			Square D	BG	125
								JG, JJ, JL	200
		BD, HD			125				
		HJ, HL, HR			150				
18,000	600	Square D	BJ	125					
14,000			HG	150					
			BG	125					
BD			125						
KCS	200 230	200,000	240	Square D	JR	250			
		125,000			JL	250			
		100,000			JJ	250			
		65,000			JG	250			
		42,000	480	Square D	QG, QJ	225			
		25,000			JD	250			
		85,000			JL, JR	250			
		30,000			JG, JJ	250			
18,000			JD	250					

Model	Switch Rating, amps	WCR, amps RMS	Volts, Max.	Molded-Case Circuit Breakers						
				Manufacturer	Type or Class	Max. Size, amps				
KCS	230	42,000	600	Eaton/ Cutler Hammer	JGU, JGX, JGH	250				
					KDC	400				
					LDC, CLDC	600				
				GE	TBC4	400				
					SGL1, SGL4, SGL6, SGP1, SGP4, SGP6, FGP	600				
				Square D	HJ, HL, HG	150				
					KI, JJ, JL, JR, CF250L	250				
					CK400H, CK400HH, CJ400L	400				
					LI, MasterPact STR 28D, PK	600				
				Siemens / ITE	HJD, CFD6	250				
					HHJD6, HHJXD6, CJD6, SCJD6	400				
					HHL6, HHLXD6, CLD6, SCLD6, LNG, LPG, LGC*, LGU*, LGX*	600				
				KCP KCC	150 225 §	65,000	240	GE	THQMV	225
									SGL1, SGL4, SGL6, SGP1, SGP4, SGP6	600
								Eaton/ Cutler Hammer	LDC, CLDC, HLD, CHLD	600
Siemens / ITE	HLD6, HLXD6	600								
	Square D	QG, QJ	250							
LJ, LL, LR		600								
50,000	480	Eaton/ Cutler Hammer	HFDE, FDC, FDCE					NHH	250	
								JDC, JGU, JGX	350	
								HKD, CHKD, KDC, HKDB, CHKDB, LHH	400	
								HLD, CHLD, LDC, CLDC, LGH*, LGC*, LGU*, LGX*	600	
								HMDLB, CHMDLB	800	
								SEL, SEP	150	
		GE	SFL, SFP, FEN, FEH			250				
			TBC4			400				
			FGN, FGH, FGL, FGP, SGL1, SGL4, SGL6, SGP1, SGP4, SGP6, TJJ4V, TJJ1S-6S, TBC6			600				
		Siemens / ITE	HDG, LDG			150				
			HFD, HFD6, HFXD, HFXD6, HHFD6, HHFXD6, CFD6, HFG, LFG			250				
			HJD, HJD6, HJXD, HJXD6, SHJD, SHJD6, HHJD6, HHJXD6, CJD6, SCJD6, HJG, LJG, LLG			400				
		Square D	HLD6, HLXD6, HHL6, HHLXD6, CLD6, SHLD6, SCLD6, HLG			600				
			HJ, HL			150				
			KC, KI, CF250L, NSF250			250				
			CK400N, CK400NN, CK400H, CK400HH, CJ400L, NSJ400			400				
		65,000	200,000			Square D	LC, DJ, DL, LI, NSJ600	600		
							MasterPact STR 28D, PK, PJ, PL	800		
JJ (Current Limiting)	250									
JL (Current Limiting)										
42,000	600	Eaton/ Cutler Hammer	JGU, JGX, JGH			250				
			KDC			400				
			LDC, CLDC			600				
		GE	TBC4			400				
			SGL1, SGL4, SGL6, SGP1, SGP4, SGP6, FGP	600						
		Square D	HJ, HL, HG	150						
			KI, JJ, JL, JR, CF250L	250						
			CK400H, CK400HH, CJ400L	400						
			LI, MasterPact STR 28D, PK	600						
		Siemens / ITE	HJD, CFD6	250						
			HHJD6, HHJXD6, CJD6, SCJD6	400						
			HHL6, HHLXD6, CLD6, SCLD6, LNG, LPG, LGC*, LGU*, LGX*	600						

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

§ KCP only

Model	Switch Rating, amps	WCR, amps RMS	Volts, Max.	Molded-Case Circuit Breakers					
				Manufacturer	Type or Class	Max. Size, amps			
KCS KCP KCC	260	65,000	240	GE	THQMV	225			
					SGL1, SGL4, SGL6, SGP1, SGP4, SGP6	600			
				Eaton/ Cutler Hammer	LDC, CLDC, HLD, CHLD	600			
				Siemens/ITE	HLD6, HLXD6	600			
				Square D	QG, QJ	250			
					LJ, LL, LR	600			
				50,000	480	Eaton/ Cutler Hammer		HFDE, FDCE, HFD, FDC, LHH	225
								JDC, JGH, JGC, JGU, JGX	250
		HKD, HKDB, CHKD, CHKDB, KDC	400						
		HLD, CHLD, LDC, CLDC, LGH*, LGC*, LGU*, LGX*, NHH	600						
		MDL, CMDL, HMDL, CHMDL, NGS, NGH, NGC, MDLB, CMDLB, HMDLB, CHMDLB	800						
		GE				SFL, SFP, FEN, FEH	250		
						TBC4	400		
						TBC6, TJL4V, TJL1S- 6S, SGL1, SGL4, SGL6, SGP1, SGP4, SGP6, FGN, FGH, FGL, FGP	600		
		Siemens/ITE				HFD6, HFXD6, HHFD6, HHFXD6, CFD6, HFG, LFG	250		
						HJD6, HJXD6, SHJD6, HHJD6, HHJXD6, CJD6, SCJD6, HJG, LJG, LLG	400		
						HLD6, HLXD6, SHLD6, HHLD6, HHLXD6, CLD6, SCLD6, HLG	600		
						LMD, LMD6, LMXD, LMXD6, HLMD, HLMD6, HLMXD, HLMXD6, MD, MD6, MXD6, HMG, HMD6, HMXD6, SMD6, SHMD6, CMD6, SCMD6, LMG, MG	800		
		Square D				KI, KC, CF250L, NSF250	250		
						CK400N, CK400NN, CK400H, CK400HH, CJ400L, NSJ400	400		
						LC, DJ, DL, LJ, LL, LR, LI, NSJ600	600		
				CK800N, CK800NN, CK800H, CK800HH, MasterPact STR 28D, MJ, PK, PJ, PL	800				
				CK1000HL	1000				
				CK1200NN, CK1200HH	1200				
		Square D		JJ (Current Limiting)	250				
				JL (Current Limiting)	250				
				JR (Current Limiting)	250				
42,000	600	Eaton/ Cutler Hammer		JGU, JGX	250				
				KDC	400				
				LDC, CLDC	600				
		GE		TBC4	400				
				TBC6, SGL1, SGL4, SGL6, SGP1, SGP4, SGP6, FGP	600				
				TBC8, TKL4V, TKL8S- 12S, SKL8, SKP8	800				
		Siemens/ITE		HJD, CFD6	250				
				HHJD6, HHJXD6, CJD6, SCJD6	400				
				HHLD6, HHLXD6, CLD6, SCLD6	600				
				HLMXD6, HLMXD6, HMXD6, SHMD6, HMD6, CMD6, SCMD6, LMG, LNG, LPG, LGC*, LGU*, LGX*	800				
		Square D		LI, JL, JR, JJ, CF250L	250				
				CK400H, CK400HH, CJ400L	400				
LI	600								
CK800H, CK800HH, MasterPact STR 28D, PK	800								

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

Model	Switch Rating, amps	WCR, amps RMS	Volts, Max.	Molded-Case Circuit Breakers				
				Manufacturer	Type or Class	Max. Size, amps		
KCS KCP KCC	400	65,000	240	GE	THQMV	225		
					SGL1, SGL4, SGL6, SGP1, SGP4, SGP6	600		
				Eaton/ Cutler Hammer	LDC, CLDC, HLD, CHLD	600		
					Siemens /ITE	HLD6, HLXD6	600	
				Square D	QG, QJ	250		
					LJ, LL, LR	600		
				50,000	480	Eaton/ Cutler Hammer	JGH, JGC, NHH HKD, CHKD, KDC, HKDB, CHKDB, LHH CHLD, LDC, CLDC, LGH*, LGC*, LGU*, LGX* MDL, CMDL, HMDL, CHMDL, NGS, NGH, NGC, MDLB, CMDLB, HMDLB, CHMDLB NGU	250
								400
		600						
		800						
		1600						
		400						
		GE	TBC4			400		
			TBC6, TJK4V, TJK1S- 6S, SGL1, SGL4, SGL6, SGP1, SGP4, SGP6, FGN, FGH, FGL, FGP			600		
			TBC8, TKL4V, TKH8S- 12S, TKL8S- 12S, SKH8, SKL8, SKP8, TB8			800		
		Siemens /ITE	HFD6, HFXD6, HFG, LFG			250		
			HJD6, HJXD6, SHJD6, HHJD6, HHJXD6, CJD6, SCJD6, HJG, LLG, LJG			400		
			HLD6, HLXD6, SHLD6, HHLD6, HHLXD6, CLD6, SCLD6, HLG			600		
			LMXD6, LMXD6, HLMXD6, HLMXD6, MD6, MXD6, HMD6, HMXD6, SMD6, SHMD6, CMD6, SCMD6, HMG, LMG			800		
		Square D	CK400N, CK400NN, CK400H, CK400HH, CJ400L, NSJ400			400		
			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		
		42,000	600	Eaton/ Cutler Hammer	KDC LDC, CLDC, LGC*, LGU*, LGX*	400		
						600		
				GE	TBC4	400		
					TBC6, SGL1, SGL4, SGL6, SGP1, SGP4, SGP6, FGP	600		
					TBC8, TKL4V, TKL8S- 12S, SKL8, SKP8	800		
				Siemens /ITE	HHJD6, HHJXD6, CJD6, SCJD6	400		
HHLD6, HHLXD6, CLD6, SCLD6	600							
HLMXD6, HLMXD6, HMXD6, SHMD6, HMD6, CMD6, SCMD6, LMG	800							
LNG, LPG	1200							
Square D	CK400H, CK400HH, CJ400L			400				
	LI			600				
	CK800H, CK800HH			800				
	MasterPact STR 28D, PK	1200						
KCS KCP KCC	600	65,000	240	GE	THQMV	225		
					SGL1, SGL4, SGL6, SGP1, SGP4, SGP6	600		
				Eaton/ Cutler Hammer	LDC, CLDC, HLD, CHLD	600		
					Siemens /ITE	HLD6, HLXD6	600	
				Square D	QG, QJ	250		
					LJ, LL, LR	600		

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

Model	Switch Rating, amps	WCR, amps RMS	Volts, Max.	Molded-Case Circuit Breakers			
				Manufacturer	Type or Class	Max. Size, amps	
KCS KCP KCC	600	50,000	480	Eaton/ Cutler Hammer	JGH, JGC, HFG, LFG	250	
					HLD, CHLD, LDC, CLDC, LGH*, LGC*, LGU*, LGX*	600	
					MDL, CMDL, HMDL, CHMDL, NGS, NGH, NGC, NGU, MDLB, CMDLB, NF	800	
				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	
					SKL12, SK12P	1200	
				Siemens / ITE	HLD6, HLXD6, SHLD6, HHLXD6, HHLXD6, CLD6, SCLD6, HLG, LLG	600	
					LMD6, LMXD6, HLMXD6, HLMXD6, MD6, MXD6, HMD6, HMXD6, SMD6, SHMD6, CMD6, SCMD6, HMG, LMG	800	
					HND6, HNXD6, SND6, SHND6, ND6, NXD6, HNG, LNG, CND6	1200	
		Square D	LC, DJ, DL, LI, NSJ600	600			
			CK800N, CK800NN, MJ	800			
			MH, CK1200N, CK1200NN, CK1200H, CK1200HH, NT- H, NT- L1, NT- L, NT- LF, PK, PJ, PL	1200			
			CM2000HH	2000			
		CM2500HH	2500				
		42,000	600	600	Eaton/ Cutler Hammer	JGC	250
						TBC4	400
						LDC, CLDC	600
					GE	TBC6, SGL1, SGL4, SGL6, SGP1, SGP4, SGP6, FGP	600
	TBC8, TKL4V, TKL8S- 12S, SKL8, SKP8					800	
	SKL12, SKP12					1200	
	Siemens / ITE				HHLXD6, HHLXD6, CLD6, SCLD6	600	
					HLMXD6, HLMXD6, HMXD6, SHMD6, HMD6, CMD6, SCMD6, LMG	800	
					HND6, HNXD6, HNG, LNG, SHND6	1200	
	Square D		LI	600			
			CK800H, CK800HH	800			
			CK1000HL	1000			
			CK1200H, CK1200HH, NT- H, NT- L, NT- LF, NT- L1, MasterPact STR 28D, PK	1200			
	800 1000 1200		65,000	480	Eaton/ Cutler Hammer	HLD, CHLD, LGH, LGC, LGU, LGX, LDC, CLDC	600
						HMDL, CHMDL, HMDLB, CHMDLB	800
						HND, CHND, NDC, CNDC, NF	1200
		NGH, NGC, NGU				1600	
		RGH, RGC				2500	
		GE			TBC6, TJL4V, SGL, SGP6	600	
					TBC8, SKL8, SKP8	800	
					SKL12, SKP12, TKL4V	1200	
		Siemens / ITE			HLXD6, HHLXD6, HHLXD6, CLD6, SHLD6, SCLD6, HLG, LLG	600	
					HMXD6, HMD6, SHMD6, HMG, LMG, CMD6, SCMD6	800	
					SHND6, CND6, HNXD6, HNG, LNG	1200	
					HPG, LPG, HPD, HPD6, CPD6, HPXD, HPXD6, SHPD, SHPD6	1600	
		HRD6, HRXD6			2000		
Square D		LI, LE LSI, LE LI, LX, LXI, LJ, LL, LR			600		
		MJ, ME, MX, CK800H, CK800HH			800		
		CK1000HL			1000		
		NT- L1, NT- L, NT- LF, NE, NX, CK1200H, CK1200HH, PJ, PL			1200		
		NW, RJ, RL			1600		
		PE, PX	2500				
		SES, SE, SEH (LS or LSI TRIP)	3000				
		SE (LI, LSI- E, and LI- E TRIP)	4000				
		MasterPact STR 28D	6300				
600		480	Eaton/ Cutler Hammer	Tri-Pac NB	800		
				RDC	2500		
	Siemens / ITE			CND	1200		
1600 2000	200,000	480	Square D	MTZ- L1/L/LF, MTZ2/3- L1/L1F, MTZ2/3- L/LF except MTZ2/3- 20L	2000		

Weights and Dimensions

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

Weights and dimensions are shown for NEMA Type 1 enclosures, NEMA Type 3R enclosures and open units. See the transfer switch dimension drawings for other enclosure types.

Model	Amps	NEMA Type	Poles	Wires	Dimensions mm (in.)			Weight kg (lb.)			Dimension Drawing
					Height	Width	Depth	2-Pole	3-Pole	4-Pole	
KCS	30-200	1, 3R	2,3,4	3, 4	791 (31)	450 (18)	314 (12.4)‡	28 (62)	30 (65)	31 (68)	ADV-8566
	230 (208-480V)		2,3,4	3, 4	1223 (48)	560 (22)	362 (14.3)‡	52 (115)	56 (123)	59 (131)	ADV-8568
	230 (600 V) 260-600		2,3,4	3, 4	1702 (67)	610 (24)	514 (20.2)‡	179 (395)	183 (403)	188 (414)	ADV-8570
	800		2,3,4	3, 4	1932 (76)*	864 (34)	515 (20.3)‡	220 (485)	231 (510)	238 (525)	ADV-8572
	1000		3,4	4	1932 (76)*	864 (34)	515 (20.3)‡	—	231 (510)	238 (525)	ADV-8572
	1200	1	3,4	4	2286 (90)	963 (38)	688 (27.1)	—	356 (785)	379 (835)	ADV-8574
		3R	3,4	4	2286 (90)	940 (37)	717 (28.2)	—	356 (785)	379 (835)	ADV-8575
	1600-2000F †	1	3,4	4	2286 (90)	963 (38)	688 (27.1)	—	472(1040)	494(1090)	ADV-8577
		3R	3,4	4	2286 (90)	940 (37)	869 (34.2)	—	356 (785)	379 (835)	ADV-8578
	1600-2000	1	3,4	4	2286 (90)	963 (38)	1220 (48)	—	472(1040)	494(1090)	ADV-8579
		3R	3,4	4	2286 (90)	940 (37)	1434 (56.4)	—	472(1040)	494(1090)	ADV-8580
	2600-3000	1	3,4	4	2286 (90)	963 (38)	1524 (60)	—	649(1430)	679(1495)	ADV-8581
		3R	3,4	4	2286 (90)	940 (37)	1738 (68.4)	—	649(1430)	679(1495)	ADV-8582
	4000	1	3,4	4	2311 (91)	1524 (60)	1836 (72.3)	—	975(2149)	1056(2328)	ADV-8583
	3R	3,4	4	2529 (100)	1606 (63)	2310 (91)	—	1436(3165)	1523(3357)		
KCS	30-200	Open Unit §	2,3,4	3, 4	787 (31)	445 (18)	296 (11.6)	8 (17)	9 (20)	11 (23)	ADV-7182
	230 (208-480V)		2,3,4	3, 4	1219 (48)	457 (18)	330 (13.0)	17 (37)	21 (45)	24 (53)	
	230 (600V) 260-600		2,3,4	3, 4	1422 (56)	610 (24)	362 (14.3)	31 (68)	34 (74)	36 (80)	
	800		2,3,4	3, 4	1829 (72)	864 (34)	508 (20)	68 (150)	78 (170)	90 (196)	
	1000		3,4	4	1829 (72)	864 (34)	508 (20)	—	78 (170)	90 (196)	
	1200		3,4	4	2210 (87)	965 (38)	584 (23)	—	78 (170)	90 (196)	
	1600-2000F †		3,4	4	2210 (87)	965 (38)	635 (25)	—	190 (420)	213 (470)	
	1600-2000		3,4	4	2286 (90)	965 (38)	1219 (48)	—	190 (420)	213 (470)	
	2600-3000		3,4	4	2286 (90)	965 (38)	1524 (60)	—	213 (470)	243 (535)	
KCP KCC	150-600	1, 3R	2,3,4	3, 4	1702 (67)	610 (24)	514 (20.2)‡	179 (395)	183 (403)	188 (414)	ADV-8570
	800	1, 3R	2,3,4	3, 4	1932 (76)*	864 (34)	515 (20.3)‡	220 (485)	231 (510)	238 (525)	ADV-8572
	1000	1, 3R	2,3,4	4	1932 (76)*	864 (34)	515 (20.3)‡	220 (485)	231 (510)	238 (525)	ADV-8572
	1200	1	3,4	4	2286 (90)	963 (38)	688 (27)	—	463(1020)	485(1070)	ADV-8574
		3R	3,4	4	2286 (90)	940 (37)	717 (28.2)	—	463(1020)	485(1070)	ADV-8575
	1600-2000F †	1	3,4	4	2286 (90)	963 (38)	688 (27)	—	533(1175)	556(1225)	ADV-8577
		3R	3,4	4	2286 (90)	940 (37)	869 (34.2)	—	533(1175)	556(1225)	ADV-8578
	1600-2000	1	3,4	4	2286 (90)	963 (38)	1220 (48)	—	533(1175)	556(1225)	ADV-8579
		3R	3,4	4	2286 (90)	940 (37)	1434 (56.4)	—	533(1175)	556(1225)	ADV-8580
	3000	1	3,4	4	2286 (90)	963 (38)	1524 (60)	—	735(1620)	765(1685)	ADV-8581
		3R	3,4	4	2286 (90)	940 (37)	1738 (68.4)	—	735(1620)	765(1685)	ADV-8582
4000	1	3,4	4	2311 (91)	1524 (60)	1836 (72.3)	—	975(2149)	1056(2328)	ADV-8583	
	3R	3,4	4	2528 (100)	1606 (63)	2310 (91)	—	1436(3165)	1523(3357)	ADV-8583	
KCP	150-600	Open Unit §	2,3,4	3, 4	1422 (56)	610 (24)	362 (14.3)	38 (84)	41 (90)	44 (96)	ADV-7182
	800		2,3,4	3, 4	1829 (72)	864 (34)	508 (20)	80 (175)	94 (205)	108 (235)	
	1000		2,3,4	4	1829 (72)	864 (34)	508 (20)	80 (175)	94 (205)	108 (235)	
	1200		2,3,4	4	2210 (87)	965 (38)	584 (23)	80 (175)	94 (205)	108 (235)	
	1600-2000F †		3,4	4	2210 (87)	965 (38)	635 (25)	—	252 (555)	274 (605)	
	1600-2000		3,4	4	2286 (90)	965 (38)	1219 (48)	—	252 (555)	274 (605)	
	2600-3000		3,4	4	2286 (90)	965 (38)	1524 (60)	—	300 (660)	329 (725)	
	2600-3000		3,4	4	2286 (90)	965 (38)	1524 (60)	—	300 (660)	329 (725)	

* Includes mounting feet

† F = Front connected

‡ On 30-1000 amp models, the NEMA type 3R enclosures have a security cover on the controller that extends 54 mm (2.1 in.) beyond the door.

§ Dimensions shown for open units are the minimum required enclosure size. Open unit weights are shipping weights for the contactor only.

Controller Accessories

See the controller specification sheets for more information.

Accessory Modules

- Alarm Module
- External Battery Supply Module
- Input/Output Module
- High-Power Input/Output Module

Controller Disconnect Switch

Ethernet Communications

(Standard with MPAC1500 controller)

Current Sensing Kit

Padlockable User Interface Cover

Supervised Transfer Control Switch

Transfer Switch Accessories

Accessories are available either factory-installed or as loose kits, unless otherwise noted.

CSA Certification

Digital Meter

- Measure and display voltage, current, frequency, and power
- 35 programmable alarms
- LCD display, 67 x 62.5 mm (2.65 x 2.5 in.)
- Pushbutton operation
- Password-protected programming menus
- Two digital inputs
- Two digital outputs and two Form A relay outputs
- Serial port for optional network connections
- Data logging
- Factory-installed

Engine Start Circuit Monitor

See Specification Sheet G6- 165.

Export Packaging

Extended Limited Warranties

- 2-year basic
- 5-year basic
- 5-year comprehensive
- 10-year major components

Heater, Anti-Condensation

- Hygrostat-controlled 120 VAC strip heater (customer-supplied voltage source required)
- 100 or 250 watts (sized for enclosure)
- Protective 15 Amp circuit breaker

Literature Kits

- Production literature kit (one set of literature is included with each transfer switch)
- Overhaul literature kit

Load Shed Kit

- Forced transfer from Emergency to OFF for programmed-transition or closed-transition models
- Customer-supplied signal (contact closure) is required for the forced transfer to OFF function
- Factory-installed and loose kits available

RSA III Remote Serial Annunciator

- Monitors the generator set
- Monitors Normal and Emergency source status and connection
- Monitors ATS common alarm
- Allows remote testing of the ATS
- For more information, see specification sheet G6- 139.

Surge Protection Device (SPD)

- SPD available for the normal source supply
- Reduces transient voltages to harmless levels
- Protection modes: L-L / L-N / L-G / N-G
- Replaceable phase and neutral cartridges for service
- Frequency: 50- 60 Hz
- Operating Temperature Range: - 40 to 176°F (- 40 to 80°C)
- Remote contacts for customer-supplied status indicators:
 - Contacts: 1 NO, 1 NC
 - Min Load: 12VDC / 10 mA
 - Max. Load: 250 VAC / 1 A
 - Wire Size (max.): 16AWG
- Fuse protection: 30 amps / 600 V
- UL 1449, 3rd Edition for Type 2 applications
- IEC 61-643-1, 2nd Edition T2/11
- See additional SPD specifications below

Seismic Certification

California OSHPD Pre-Approval

- Available for KC model transfer switches with NEMA 1 and NEMA 3R enclosures.

IBC Seismic Certification

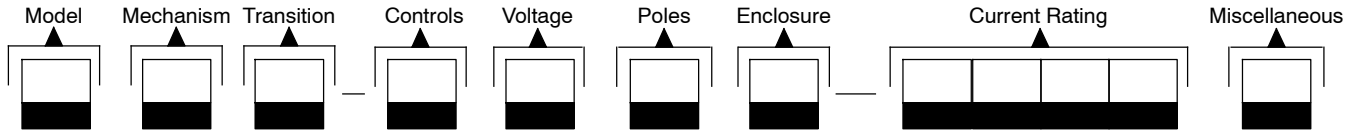
- Certification depends on application and geographic location. Contact your distributor for details.
- Available for the KC model transfer switches with enclosures shown below:

ATS Size, Amps	Enclosure, NEMA Type:				
	1	3R	4	4X	12
30- 1200	•	•	•	•	•
1600- 4000	•	•			

SPD Specifications

Nominal Voltage (V ± 15%)	Max. Discharge Current (kA)	Phase	Poles	UL VPR 3rd Ed (L-N/N-G/L-G) (kV)	Limiting Voltage, (L-N/N-G/L-G) (kV)		Short Circuit Withstand Current (kA)	Maximum Continuous Operating Voltage (VAC)
					at 3kAmps	at 10kAmp		
240/120	40	Split	3	0.6 / 1.2 / 0.7	0.6 / 0.4 / 0.6	0.8 / 0.7 / 0.8	200	175 / 350
208/120	40	Wye	4	0.6 / 1.2 / 0.7	0.6 / 0.4 / 0.6	0.8 / 0.7 / 0.8	200	175 / 350
480/277	40	Wye	4	1.0 / 1.2 / 1.1	1.0 / 0.4 / 1.0	1.2 / 0.7 / 1.2	200	320 / 640
240/120	40	HLD	4	1.0 / 1.2 / 1.1	1.0 / 0.4 / 1.0	1.2 / 0.7 / 1.2	200	320 / 640
600/347	40	Wye	4	1.3 / 1.2 / 1.4	1.3 / 0.4 / 1.3	1.5 / 0.7 / 1.5	200	440 / 880

Model Designation



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

Sample Model Designation: KCS-DNTA-0400S

Model

K: Kohler

Mechanism

C: Standard (Time-Based)

Transition

S: Standard

P: Programmed

C: Closed

Controller

A: Decision-Maker® MPAC 1200, Automatic

B: Decision-Maker® MPAC 1200, Non-Automatic

D: Decision-Maker® MPAC 1500, Automatic

F: Decision-Maker® MPAC 1500, Non-Automatic

Voltage/Frequency

C: 208 Volts/60 Hz K: 440 Volts/60 Hz

D: 220 Volts/50 Hz M: 480 Volts/60 Hz

F: 240 Volts/60 Hz N: 600 Volts/60 Hz

G: 380 Volts/50 Hz P: 380 Volts/60 Hz

H: 400 Volts/50 Hz R: 220 Volts/60 Hz

J: 416 Volts/50 Hz S: 400 Volts/60 Hz

Number of Poles/Wires

N: 2 Poles/3 Wires, Solid Neutral

T: 3 Poles/4 Wires, Solid Neutral

V: 4 Poles/4 Wires, Switched Neutral

W: 4 Poles/4 Wires, Overlapping Neutral

Enclosure

A: NEMA 1

D: NEMA 4

B: NEMA 12

F: NEMA 4X

C: NEMA 3R

G: Open Unit

Current, Amps

0030 0230 1200

0070 0260 1600

0104 0400 2000

0150 0600 2600

0200 0800 3000

0225 1000 4000

Connections

S: Standard

F: Front (1600 and 2000 amp only)

Note: Some selections are not available for every model. Contact your Kohler distributor for availability.

Availability is subject to change without notice. Kohler Co. reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. Contact your local Kohler® Power Systems distributor for availability.

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