



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 at 480 VAC
file #E58962 (automatic), #E86894 (nonautomatic)
- CSA certification available at 600 VAC
- IBC seismic certification available
- Available in 2, 3, or 4 pole configurations
- 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.

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	(3) #6 to 3/0
	200	(1) #14 AWG to 4/0 AWG <i>Cu only</i>	(3) #14 to 4/0	(3) #6 to 3/0
	230 (208-480 V)			
	230 (600 V)	(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
	260-400			
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	(4) 1/0 AWG to 750 KCMIL	(12) #2 AWG to 600 KCMIL	
	1200 (NEMA 3R)			
	1200 (NEMA 1)	(4) 1/0 AWG to 750 KCMIL	(16) 1/0 to 750 KCMIL	(3) #4 to 500 KCMIL
	1600-2000 F † (NEMA 3R)	(6) 1/0 AWG to 750 KCMIL	(24) 1/0 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	(24) 1/0 to 750 KCMIL	(3) #4 to 500 KCMIL
	2600-3000	(12) 1/0 AWG to 750 KCMIL	(36) 1/0 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.			
		Amps @ 480 V	Amps @ 600 V	Amps, Max.	Fuse Class	Amps @ 240 V	Amps @ 480 V	Amps @ 600 V	.1	.13	.3	.5	.1	.13	.3	.5
KCS	30-150	200,000	35,000	200	J	10,000	10,000	10,000	—				—			
		35,000	35,000	200	RK1	10,000	10,000	10,000	—				—			
	200	200,000	—	200	J	10,000	10,000	—	—				—			
	230 (480V)	100,000	—	300	J	10,000	10,000	—	—				—			
	230 (600V)	200,000	200,000	600	J	65,000	42,000 †	35,000	—				—			
	260			800	L	65,000	42,000 †	35,000	—				—			
	400															
	600															
	800-1200	200,000	200,000	1600	L	50,000	50,000	50,000	36,000		—	36,000		—		
	1600-2000 F	200,000	200,000	2500	L	85,000	85,000	85,000	—		—					
1600-2000 S	200,000	200,000	3000	L	100,000	100,000	100,000	42,000		—	42,000		—			
2600 3000	200,000	200,000	4000	L	100,000	100,000	100,000	42,000		—	42,000		—			
4000	200,000	200,000	5000	L	100,000	100,000	100,000	85,000		65,000	65,000					
KCP	150	200,000	200,000	600	J	65,000	42,000 †	35,000	—				—			
	225			800	L	65,000	42,000 †	35,000	—				—			
	260															
	400															
	600															
	800-1200	200,000	200,000	1600	L	50,000	50,000	50,000	36,000		—	36,000		—		
	1600-2000 F	200,000	200,000	2500	L	85,000	85,000	85,000	—		—					
1600-2000 S	200,000	200,000	3000	L	100,000	100,000	100,000	42,000		—	42,000		—			
2600 3000	200,000	200,000	4000	L	100,000	100,000	100,000	42,000		—	42,000		—			
4000	200,000	200,000	5000	L	100,000	100,000	100,000	85,000		65,000	65,000					
KCC	150	200,000	200,000	600	J	65,000	42,000 †	35,000	—				—			
	260			800	L	65,000	42,000 †	35,000	—				—			
	400															
	600															
	800-1200	200,000	200,000	1600	L	50,000	50,000	50,000	36,000		—	36,000		—		
	1600-2000 F	200,000	200,000	2500	L	85,000	85,000	85,000	—		—					
	1600-2000 S	200,000	200,000	3000	L	100,000	100,000	100,000	42,000		—	42,000		—		
2600 3000	200,000	200,000	4000	L	100,000	100,000	100,000	42,000		—	42,000		—			
4000	200,000	200,000	5000	L	100,000	100,000	100,000	85,000		65,000	65,000					
* Based on 0.025 seconds (approximately 1.5 cycles) for 30-230 amps and 0.050 seconds for 260-4000 amps. 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 35,000 A, 0.050 seconds at 480 V.																
‡ Short time ratings are provided for applications involving breakers that utilize trip delay settings for system selective coordination.																

* Based on 0.025 seconds (approximately 1.5 cycles) for 30-230 amps and 0.050 seconds for 260-4000 amps. 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 35,000 A, 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	42,000	240	Square D	QG, QJ	90
		22,000	480	GE	THED	90
	100	42,000	240	Square D	QG, QJ	125
		22,000	480	GE	THED	150
	150	65,000	240	Square D	JG, JJ, JL	200
		42,000			QG, QJ	200
		25,000	480	Square D	JG, JJ, JL	200
		22,000		GE	THED	150
	200	65,000	240	Square D	JG, JJ, JL	250
		42,000			QG, QJ	225
	230	25,000	480		JG, JJ, JL	250
	230	42,000	600	Eaton	JGC	250
					KDC	400
					LDC, CLDC	600
				GE	TBC4	400
					TBC6, SGL1, SGL4, SGL6, SGP1, SGP4, SGP6	600
					TBC8, TKL4V, TKL8S-12S, SKL8, SKP8	800
				Siemens/ITE	HLMD, HLMXD, HMXD, SHMD	800
KCP KCC	150	50,000	480	Eaton	HJD, JDC, JGH, JGC	250
					HKD, CHKD, KDC	400
					HLD, CHLD, LDC, CLDC	600
				GE	SFL, SFP	250
					SGL1, SGL4, SGP1, SGP4, TJL4V, TJL1S-6S, TBC6	600
				Siemens/ITE	HFD, HFXD	250
					HJD, HJXD, SHJD	400
				Square D	KC	250
					CK400N, CK400NN	400
		42,000	600	Eaton	JGC	250
					KDC	400
					LDC, CLDC	600
					SGL1, SGL4, SGP1, SGP4	600
KCS KCP KCC	225 (KCP) 260	50,000	480	Eaton	HJD, JDC, JGH, JGC	250
					HKD, CHKD, KDC	400
					HLD, CHLD, LDC, CLDC	600
					MDL, CMDL, HMDL, CHMDL, NGS, NGH, NGC	800
				GE	SFL, SFP	250
					TBC4	400
					SGL1, SGL4, SGL6, SGP1, SGP4, SGP6, TBC6, TJL4V, TJL1S-6S	600
					SKL8, SKP8, SKH8, TBC8, TKL4V, TKH8S-12S	800
				Siemens/ITE	HFD, HFXD	250
					HJD, HJXD, SHJD	400
					HLD	600
					HLMD, HLMXD, HMG, HMD, HMXD, LMD, LMXD, MXD, SMD, SHMD	800
				Square D	KC	250
					CK400N, CK400NN	400
					LC	600
					CK800N, CK800NN	800
		42,000	600	Eaton	JGC	250
					KDC	400
					LDC, CLDC	600
				GE	TBC4	400
					TBC6, SGL1, SGL4, SGL6, SGP1, SGP4, SGP6	600
					TBC8, TKL4V, TKL8S-12S, SKL8, SKP8	800
				Siemens/ITE	HLMD, HLMXD, HMXD, SHMD	800

Ratings with Specific Manufacturers' Circuit Breakers, continued

Model	Switch Rating, amps	WCR, amps RMS	Volts, Max.	Molded-Case Circuit Breakers		
				Manufacturer	Type or Class	Max. Size, amps
KCS KCP KCC	400	50,000	480	Eaton	HKD, CHKD, KDC	400
					HLD, CHLD, LDC, CLDC	600
					MDL, CMDL, HMDL, CHMDL, NGS, NGH, NGC	800
				GE	TBC4	400
					SGL1, SGL4, SGL6, SGP1, SGP4, SGP6, TBC6, TJL4V, TJL1S-6S	600
					SKH8, SKL8, SKP8, TBC8, TKL4V, TKH8S-12S	800
				Siemens/ITE	HJD, HJXD, SHJD	400
					HLD	600
					HLMD, HLMXD, HMG, HMD, HMXD, LMD, LMXD, MXD, SMD, SHMD	800
				Square D	CK400N, CK400NN	400
					LC	600
					CK800N, CK800NN	800
		42,000	600	Eaton	KDC	400
					LDC, CLDC	600
				GE	TBC4	400
					TBC6, SGL1, SGL6, SGP1, SGP4, SGP6	600
					TBC8, TKL4V, TKL8S-12S, SKL8, SKP8	800
				Siemens/ITE	HLMD, HLMXD, HMXD, SHMD	800
KCS KCP KCC	600	50,000	480	Eaton	HLD, CHLD, LDC, CLDC	600
					MDL, CMDL, HMDL, CHMDL, NGS, NGH, NGC	800
				GE	SGL1, SGL4, SGL6, SGP1, SGP4, SGP6, TBC6, TJL4V, TJL1S-6S	600
					SKH8, SKL8, SKP8, TBC8, TKL4V, TKH8S-12S	800
				Siemens/ITE	HLD	600
					HLMD, HLMXD, HMD, HMG, HMXD, LMD, LMXD, MXD, SMD, SHMD	800
					HND, HNXD, HNG, SND, SHND	1200
					CK400N, CK400NN	400
				Square D	LC	600
					CK800N, CK800NN	800
					MH, CK1200N, CK1200NN	1200
		42,000	600	Eaton	LDC, CLDC	600
				GE	TBCY	400
					SGL1, SGL6, SGP1, SGP4, SGP6, TBC6	600
					TBC8, TKL4V, TKL8S-12S, SKL8, SKP8	800
				Siemens/ITE	HLMD, HLMXD, HMXD, SHMD	800
					SHND	1200
KCS KCP KCC	800 1000 1200	65,000	480	Eaton	HLD	600
				GE	TB8	800
					TKL, SKL	1200
				Siemens/ITE	CLD6, HHLD6, HHLXD6, HLD6, SCLD6, SHLD6	600
					CMD6, HMD6, SCMD6, SHMD6	800
					CND6, HND6, SCND6, SHND6	1200
					CPD6	1600
				Square D	MH Series 2	1000
					PJ, PL	1200
					RJ, RL	1600
					SE (LS Trip), SEH (LS Trip)	2500
			600	Eaton	Tri-Pac NB	800
					Tri-Pac PB	1600
					RDC	2500
KCS KCP KCC	1600 2000	125,000	480	Square D	Masterpact NW-L	3000

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. Consult the factory for other enclosures.

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
KCP		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
	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.

Codes and Standards

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

- CSA C22.2 No. 178 certification 208 – 600 VAC 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
- IEC 60947-6-1, Low Voltage Switchgear and Control Gear; Multifunction Equipment; Automatic Transfer Switching Equipment
- 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
- Underwriters Laboratories UL 1008, Standard for Automatic Transfer Switches for Use in Emergency Standby Systems file #E58962 (automatic), #E86894 (nonautomatic)

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

☐ Current Sensing Kit

☐ Line-to-Neutral Voltage Monitoring

☐ 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 for both sources
- Programmable visual alarms for high voltage, low voltage, and high current
- Three digital outputs
- Serial port for optional network connections
- Password-protected programming menus
- Joystick operation
- Factory-installed

☐ Extended Limited Warranties

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

☐ Export Packaging

☐ 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 models
- Customer-supplied signal (contact closure) is required for the forced transfer to OFF function
- Factory-installed

☐ Neutral Assembly

- Available as loose kit for open units

☐ 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.

☐ Seismic Certification

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

ATS Size	Enclosure, NEMA Type:				
Amps	1	3R	4	4X	12
30-1200 S	•	•	•	•	•
1600-2000 F	•	•			
1600-4000 S	•	•			

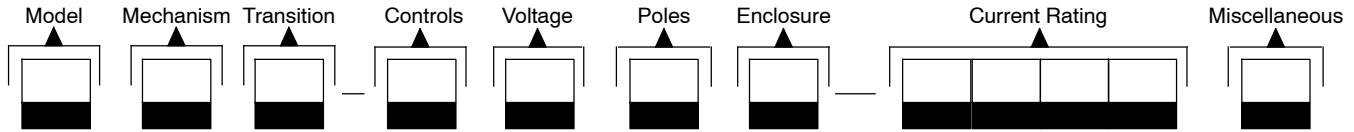
F: Front connections
S: Standard connections

☐ Surge Protection Device (SPD)

- SPD available for the normal source supply
- Surge protection 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 specifications below

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 10kAmps		
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 / 460
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 / 460
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 (Any Breaker)

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

D: 220 Volts/50 Hz

F: 240 Volts/60 Hz

G: 380 Volts/50 Hz

H: 400 Volts/50 Hz

J: 416 Volts/50 Hz

K: 440 Volts/60 Hz

M: 480 Volts/60 Hz

N: 600 Volts/60 Hz

P: 380 Volts/60 Hz

R: 220 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

B: NEMA 12

C: NEMA 3R

D: NEMA 4

F: NEMA 4X

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.

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