KOHLER®

Model KSSB

Automatic Transfer Switches
Standard Specific Breaker Rated

ISO 9001 KOHLER® NATIONALLY REGISTERED

Available Controllers

- Decision-Maker® MPAC 1200

Ratings

Current	Voltage	Frequency
30- 1200 amps	208- 600 VAC	50/60 Hz

Transfer Switch Standard Features

- UL 1008 listed
  file # E58962 (automatic), # E86894 (nonautomatic)
- CSA certification available
- 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- 1200 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 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

Automatic Transfer Switch Controller

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.

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
- 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**
30- 230	2, 2
260- 1200	8, 8

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**
KSS	30- 150	(1) #14 AWG to 4/0 AWG	(3) #14 to 4/0 AWG	(3) #6 to 3/0 AWG
	200	(1) #14 AWG to 4/0 AWG *Cu only*	(3) #14 to 4/0 AWG *Cu only*	(3) #6 to 3/0AWG
	230 (208- 480 V)			
	230 (600 V)	(1) #4 AWG to 600 KCMIL or (2) 1/0 AWG to 250 KCMIL	(3) #4 AWG to 600 KCMIL or (6) 1/0 AWG to 250 KCMIL	(3) #4 AWG to 600 KCMIL or (6) 1/0 AWG to 250 KCMIL
	260- 400			
	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) 1/0 AWG to 750 KCMIL	
	1200 (NEMA 3R)			
	1200 (NEMA 1)	(4) 1/0 AWG to 750 KCMIL	(12) 1/0 AWG to 750 KCMIL	(3) #4 AWG to 500 KCMIL
* Use 75°C minimum Cu/Al wire for power connections.				

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.) Height	Width	Depth	Weight kg (lb.) 2-Pole	3-Pole	4-Pole	Dimension Drawing
KSS	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
	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)	

* Includes mounting feet
‡ 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.

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						
		Current-Limiting Fuses				Specific Breaker		
		480 V Max.	600 V Max.	Amps, Max.	Fuse Class	240 V Max.	480 V Max.	600 V Max.
KSS	30	100kA	—	300	J	22kA	22kA	10kA
		200kA	35kA	200	J			
		35kA	35kA	200	RK1			
	70 104 150	200kA	35kA	200	J	150kA	85kA	25kA
		35kA	35kA	200	RK1			
	200	200kA	—	200	J	200kA	85kA	14kA
	230 (480V)	100kA	—	300	J			
	230 (600V) 260	200kA	200kA	600	J	200kA	200kA	42kA
				800	L			
	400 600	200kA	200kA	600	J	65kA	50kA	42kA
				800	L			
	800- 1200	200kA	200kA	1600	L	65kA	65kA	65kA

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
KSS	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
		22,000	480	GE	THED	90
		85,000		Square D	HL, HR	150
		50,000			BJ	125
		35,000			HG, HJ	150
					BG	125
		18,000			BD, HD	125
		25,000	600	Square D	HJ, HL, HR	150
					BJ	125
		18,000			HG	150
					BG	125
		14,000			HD	150
					BD	125

Model	Switch Rating, amps	WCR, amps RMS	Volts, Max.	Molded-Case Circuit Breakers		
				Manufacturer	Type or Class	Max. Size, amps
KSS	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
					BD	125
		22,000	480	GE	THED	150
		85,000		Square D	HL, HR	150
		50,000			BJ	125
		35,000			HG, HJ	150
					BG	125
		18,000			BD, HD	125
		25,000	600	Square D	HJ, HL, HR	150
					BJ	125
		18,000			HG	150
					BG	125
		14,000			HD	150
					BD	125
KSS	150	150,000	240	Square D	HR	250
		125,000			HL	150
		100,000			BJ, HJ	125
		65,000			JG, JJ, JL, JR	200
					BG, HG	125
		42,000			QG, QJ	200
		25,000			HD	150
					BD	125
		22,000	480	GE	THED	150
		85,000		Square D	HL, HR	150
		50,000			BJ	125
		35,000			HG, HJ	150
					BG	125
		25,000			JG, JJ, JL	200
		18,000			BD, HD	125
		25,000	600	Square D	HJ, HL, HR	150
					BJ	125
		18,000			HG	150
					BG	125
		14,000			HD	150
					BD	125
KSS	200 230	200,000	240	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
		85,000	480	Square D	JL, JR	250
		30,000			JG, JJ	250
		18,000			JD	250
KSS	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
					HHLD6, HHLXD6, CLD6, SCLD6, LNG, LPG, LGC*, LGU*, LGX*	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
KSS	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
					TBC8, TKL4V, TKH8S- 12S, TKL8S- 12S, SKH8, SKL8, SKP8, TB8	800
				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
		65,000		Square D	JJ (Current Limiting)	250
		100,000			JL (Current Limiting)	250
		200,000			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
					HLMD6, HLMXD6, HMXD6, SHMD6, HMD6, CMD6, SCMD6, LMG, LNG, LPG, LGC*, LGU*, LGX*	800
				Square D	KI, 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
KSS	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	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
				GE	TBC4	400
					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
				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
					LMD6, LMXD6, HLMD6, 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	400
					LDC, CLDC, LGC*, LGU*, LGX*	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
					HLMD6, 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

* 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
KSS	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
		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, HHLD6, HHLXD6, CLD6, SCLD6, HLG, LLG	600
					LMD6, LMXD6, HLMD6, 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	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	HHLD6, HHLXD6, CLD6, SCLD6	600
					HLMD6, 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, HHLD6, 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	Eaton/ Cutler Hammer	Tri-Pac NB	800
					RDC	2500
				Siemens/ITE	CND	1200

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

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

❑ 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
- 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

- 10-year major components

❑ Extended Limited Warranties

- 2-year basic
- 5-year basic
- 5-year comprehensive

❑ 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

❑ 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
- 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 SPD specifications below

Seismic Certification

❑ IBC Seismic Certification

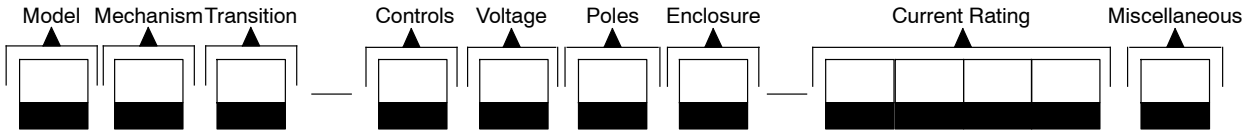
- Certification depends on application and geographic location. Contact your distributor for details.
- Available for all KSS enclosures.

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

KOHLER CO., Kohler, Wisconsin 53044 USA
Phone 920-457-4441, Fax 920-459-1646
For the nearest sales and service outlet in the US and Canada, phone 1-800-544-2444
KOHLERPower.com

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: KSS-AMTA-0400S

Model

K: Kohler

Mechanism

S: Standard (Specific Breaker)

Transition

S: Standard

Controller

A: Decision-Maker® MPAC 1200, Automatic

B: Decision-Maker® MPAC 1200, 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	0200	0600
0070	0230	0800
0104	0260	1000
0150	0400	1200

Connections

S: Standard

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

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