Models - KAS/KAP

Automatic Transfer Switches Electrically Operated Bypass/Isolation

Controller

- Decision-Maker® MPAC 1500

Ratings

Model	Current	Voltage, Frequency
KAS	150-600 amps	208-600 VAC 50/60 Hz
KAP		

Transfer Switch Standard Features

- UL 1008 listed, file #E108981
- CSA certification available
- Bypass/isolation switches for uninterrupted power to the load during switch maintenance and testing
- Electrically operated: bypass the primary mechanism at the touch of a button
- One-line diagram with LEDs to indicate transfer switch and bypass status
- 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
- Fully rated for use as a manual 3-position transfer switch
- Heavy duty mechanical interlocks
- Bypass switch and contactor position indicators
- Drawout contactor for ease of maintenance
- Design suitable for emergency and standby applications on all classes of load, 100% tungsten rated through 400 amps
- Reliable, field-proven solenoid mechanism
- Switching mechanisms lubricated for life
- Main shaft auxiliary contacts
- Front-connection standard
- Standard one-year limited warranty. Extended limited warranties are available.

Standard-Transition Models (KAS)

- Standard-transition transfer time less than 100 milliseconds (6 cycles @ 60 Hz)
- Double-throw, mechanically interlocked design (break-before-make)
- Solid, switched, or overlapping neutral

Programmed-Transition Models (KAP)

- 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 both sides)
- Solid or switched neutral

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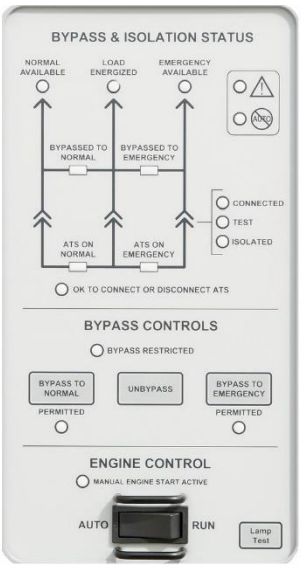
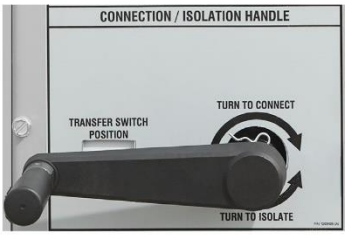
Simple Bypass Operation





High visibility alarm and operating mode indicators

A simple one- line diagram indicates real- time switch and bypass status

Permitted and restricted operations indicated

Single button bypass operation

Manual engine start controls

A single handle connects and isolates transfer switch for inspection, testing, or service

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Automatic Transfer Switch Controller

The Decision-Maker® MPAC 1500 Automatic Transfer Switch Controller is used on bypass/isolation transfer switch models.

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 is 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
- Underwriters Laboratories UL 508, Standard for Industrial Control Equipment
- Underwriters Laboratories UL 1008, Standard for Automatic Transfer Switches for Use in Emergency Standby Systems, file # E108981

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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

Auxiliary Position Indicating Contacts (rated 10 amps @ 32 VDC/250 VAC)		
	Number of Contacts Indicating Normal, Emergency	
Switch Rating, Amps	KAS	KAP
150- 600	8, 8	7, 7

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

Cable Sizes

UL-Listed Solderless Screw-Type Terminals for External Power Connections		
Switch Rating, Amps	Range of Wire Sizes, Copper or Aluminum *	
	Normal, Emergency, and Load Terminals Per Phase and Neutral	Ground
150- 400	(1) #4 AWG to 600 KCMIL or (2) 1/0 AWG to 250 KCMIL	(3) 600 KCMIL
600	(2) #2 AWG to 600 KCMIL	(6) 600 KCMIL
* Use 75°C minimum Cu/Al wire for power connections.		

Weights and Dimensions

Note: Weights and dimensions are provided for reference only. 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 bypass/isolation transfer switches in NEMA type 1 enclosures. See the transfer switch dimension drawings for other enclosure types.

Model	Amps	Dimensions mm (in.)			Weight kg (lb.) *			Dimension Drawing
		Height	Width	Depth	2-Pole	3-Pole	4-Pole	
KAS KAP	150-260	2162 (85.1)	864 (34)	711 (28)**	431 (950)	431 (950)	431 (950)	ADV-9230
	150-600 w/ 12” pull box †	2162 (85.1)	1168 (46)	711 (28)**	431 (950)	431 (950)	431 (950)	
	150-600 w/ 15” pull box †	2162 (85.1)	1245 (49)	711 (28)**	431 (950)	431 (950)	431 (950)	

* Approximate weights
† Pull box is required for bottom cable entry on 400-600 amp units; optional on 150- 260 amp units.
** Transfer switch carriage manual crank handle can be removed. Also note that the transfer switch carriage manual crank handle can be left in place and folded down. Recommended front clearance is 32 in. minimum.

Withstand and Close-On Ratings (WCR)

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.

Note: For specific breaker ratings, refer to the next table.

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	.13	.2	.3	.5	.1	.13	.3	.5
150 225 260 400 600	200kA	200kA	600	J	65kA	42kA †	35kA	7500A		—		—			
			800	L											

* Based on 0.050 seconds (approximately 3 cycles). 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.

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Ratings with Specific Manufacturer's Circuit Breakers

The following charts list power switching device withstand and close-on ratings (WCR) in RMS symmetrical amperes for circuit breakers from specific manufacturers. Ratings apply to both open- and programmed-transition models. Circuit breakers are supplied by the customer.

Switch Rating, amps	Molded-Case Circuit Breakers				
	WCR, amps RMS	Voltage, Max.	Manufacturer	Type	Max, Size, amps
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
	100,000		Square D	LJ (current limiting)	600
	125,000			LL (current limiting)	600
	200,000			LR (current limiting)	600
			Eaton/Cutler Hammer	PD2 (current limiting)	225
				PD3 (current limiting)	600
	50,000	480	Eaton/Cutler Hammer	HFDE, FDC, FDCE	225
				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
			GE	SEL, SEP	150
				SFL, SFP, FEN, FEH	250
				TBC4	400
				FGN, FGH, FGL, FGP, SGL1, SGL4, SGL6, SGP1, SGP4, SGP6. TJL4V, TJL1S- 6S, TBC6	600
				TB8	800
			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
				HLD6, HLXD6, HHLD6, HHLXD6, CLD6, SHLD6, SCLD6, HLG	600
			Square D	HJ, HL	150
				KC, KI, CF250L, NSF250	250
				CK400N, CK400NN, CK400H, CK400HH, CJ400L, NSJ400	400
				LC, DJ, DL, LI, NSJ600	600
				MasterPact STR 28D, PK, PJ, PL	800
	65,000			JJ (current limiting)	250
				LJ (current limiting)	600
	100,000			JL (current limiting)	250
				LL (current limiting)	600
			Eaton/Cutler Hammer	PD2 (current limiting)	225
				PD3 (current limiting)	600
	200,000		Square D	JR (current limiting)	250
				LR (current limiting)	600
	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
			Siemens/ITE	HJD, CFD6	250
				HHJD6, HHJXD6, CJD6, SCJD6	400
				HHLD6, HHLXD6, CLD6, SCLD6, LNG, LPG, LGC*, LGU*, LGX*	600
			Square D	HJ, HL, HG	150
				KI, JJ, JL, JR, CF250L	250
				CK400H, CK400HH, CJ400L	400
				LI, MasterPact STR 28D, PK	600
	50,000			LL (current limiting)	600
	65,000		Eaton/Cutler Hammer	PD3 (current limiting)	600
	100,000		Square D	LR (current limiting)	600

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

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Switch Rating, amps	Molded-Case Circuit Breakers				
	WCR, amps RMS	Voltage, Max.	Manufacturer	Type	Max. Size, amps
260 260	65,000	240	GE	THQMV	225
				SGL1, SGL4, SGL6, SGP1, SGP4, SGP6	600
			Eaton/Cutler Hammer	LDC, CLDC, HLD, CHLD	600
	65,000		Siemens/ITE	HLD6, HLXD6	600
	100,000		Square D	QG, QJ	250
	125,000			LJ (current limiting)	600
	200,000			LL (current limiting)	600
				LR (current limiting)	600
			Eaton/Cutler Hammer	PD2 (current limiting)	225
				PD3 (current limiting)	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			JJ (current limiting)	250
				LJ (current limiting)	600
	100,000			JL (current limiting)	250
				LL (current limiting)	600
	200,000			JR (current limiting)	250
				LR (current limiting)	600
			Eaton/Cutler Hammer	PD2 (current limiting)	225
				PD3 (current limiting)	600
	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
	50,000			LL (current limiting)	600
	65,000		Eaton/Cutler Hammer	PD3 (current limiting)	600
	100,000		Square D	LR (current limiting)	600

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

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Switch Rating, amps	Molded-Case Circuit Breakers				
	WCR, amps RMS	Voltage, Max.	Manufacturer	Type	Max. Size, amps
400	65,000	240	GE	THQMV	225
				SGL1, SGL4, SGL6, SGP1, SGP4, SGP6	600
	200,000		Eaton/Cutler Hammer	LDC, CLDC, HLD, CHLD	600
				PD2 (current limiting)	225
				PD3 (current limiting)	600
	65,000		Siemens / ITE	HLD6, HLXD6	600
	100,000		Square D	QG, QJ	250
	125,000			LJ (current limiting)	600
	200,000			LL (current limiting)	600
				LR (current limiting)	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
	65,000			LJ (current limiting)	600
	100,000			LL (current limiting)	600
	200,000			LR (current limiting)	600
	100,000		Eaton/Cutler Hammer	PD3 (current limiting)	600
	42,000	600	Eaton/Cutler Hammer	KDC	400
				LDC, CLDC, LGC*, LGU*, LGX*	600
	65,000			PD3 (current limiting)	600
	42,000		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
	50,000			LL (current limiting)	600
	100,000			LR (current limiting)	600

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	WCR, amps RMS	Voltage, Max.	Manufacturer	Type	Max. Size, amps
600	65,000	240	GE	THQMV	225
				SGL1, SGL4, SGL6, SGP1, SGP4, SGP6	600
			Siemens/ITE	HLD6, HLXD6	600
			Eaton/Cutler Hammer	LDC, CLDC, HLD, CHLD	600
			Square D	QG, QJ	250
	100,000			LJ (current limiting)	600
	125,000			LL (current limiting)	600
	200,000			LR (current limiting)	600
			Eaton/Cutler Hammer	PD2 (current limiting)	225
				PD3 (current limiting)	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
	85,000			PL1200	1200
	65,000			LJ (current limiting)	600
	100,000			LL (current limiting)	600
	200,000			LR (current limiting)	600
	100,000		Eaton/Cutler Hammer	PD3 (current limiting)	600
	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,	1200
	50,000			LL (current limiting)	600
	65,000		Eaton/Cutler Hammer	PD3 (current limiting)	600
	100,000		Square D	LR (current limiting)	600

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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**

❑ **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**

❑ **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 kit 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 only

❑ **Pull Boxes**
- Required for bottom cable entry on 400- 600 amp units
- Optional for 150- 260 amp units
- Available in 305 and 381 mm (12 and 15 inch) widths

❑ **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

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

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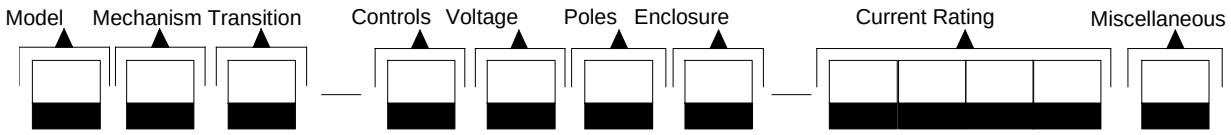
Model Designation



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

Sample Model Designation: KAS-DMVA-0400S

Model
K: Kohler

Mechanism
A: Electrically Operated Bypass/Isolation

Transition
S: Standard
P: Programmed

Controller

D: Decision-Maker® MPAC 1500, 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
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 (KAS only)

Enclosure
A: NEMA 1
C: NEMA 3R

Current, Amps
0150
0225
0260
0400
0600

Connections
S: Standard

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

Availability is subject to change without notice. Discovery Energy, LLC reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. Contact your local authorized distributor for availability.

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