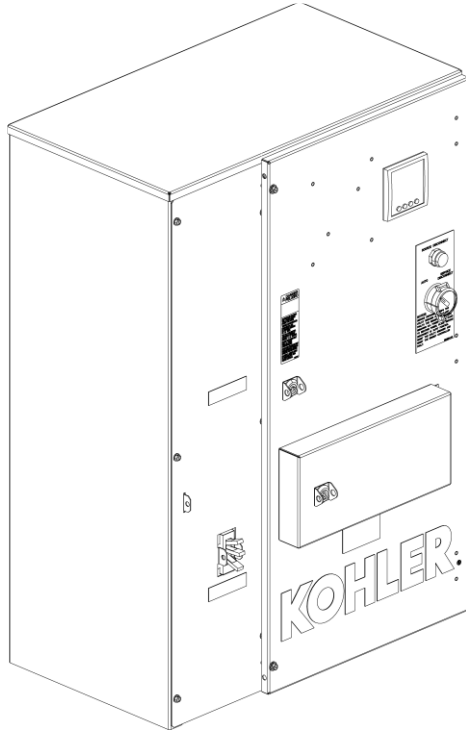


Automatic Transfer Switches Contactor-Based Service Entrance

ISO 9001
KOHLER
NATIONALLY REGISTERED



Controller

- Decision-Maker® MPAC 1500

Ratings

| Model | Current | Voltage, Frequency |
|-------|---------------|-------------------------|
| KUS | 70-4000 amps | 208-600 VAC 50/60 Hz |
| KUP | 150-4000 amps | |

Transfer Switch Standard Features

- UL 1008 listed (cULus) file #E58962 (automatic)
- IBC seismic certification available
- Contactor-based service entrance ATS
- 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 (KUS)

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

Programmed-Transition Models (KUP)

- Programmed-transition operation
- 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

Utility-Side Circuit Breakers

- Standard and high-fault circuit breakers are available
- 80% or 100% circuit breakers
- Thermal magnetic breakers available up to 250 Amps
- Electronic trip breakers available for 70-4000 Amps
- See the Circuit Breaker Table for specific offerings

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.

Controller Accessories

- **Accessory Modules**
 - Alarm Module
 - External Battery Supply Module (Included as standard)
 - Input/Output Module
 - High-Power Input/Output Module
- **Controller Disconnect Switch**
- **Current Sensing Kit**
- **Padlockable User Interface Cover**

Codes and Standards

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

- 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 2009, referencing ASCE 7-05 and ICC-ES AC-156
 - IBC 2012, referencing ASCE 7-10 and ICC-ES AC-156
 - IBC 2015, referencing ASCE 7-10 and ICC-ES AC-156
 - IBC 2018, referencing ASCE 7-16 and ICC-ES AC-156
- Underwriters Laboratories UL 1008 (cULus), Standard for Automatic Transfer Switches for Use in Emergency Standby Systems file #E58962 (automatic)

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 | |
| | KUS | KUP |
| 30-230 | 2, 2 | N/A |
| 260-600 | 8, 8 | — |
| 150-600 | — | 8, 8 |
| 800-1200 | 8, 8 | 8, 8 |
| 1600-4000 | 8, 8 | 7, 7 |

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 | Emergency and Load (per phase) | Normal | Emergency and Load Neutral | Neutral (3-pole) | Ground |
| KUS | 70-150 | (1) #14 AWG to 4/0 AWG | (1) #14 AWG to 3/0 AWG | — | (3) #14 AWG to 4/0 AWG | (3) #6 AWG to 3/0 AWG |
| | 200-225 | (1) #14 AWG to 4/0 AWG <i>Cu only</i> | (1) 3/0 AWG to 350 MCM | — | (3) #14 AWG to 4/0 AWG <i>Cu only</i> | (3) #6 AWG to 3/0 AWG |
| KUP | 150 | (1) #4 AWG to 600 KCMIL or (2) #2 AWG to 250 KCMIL | (1) #14 AWG to 3/0 AWG | — | (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 |
| | 200-225 | | (1) 3/0 AWG to 350 MCM | — | | |
| KUS KUP | 250 | (1) #4 AWG to 600 KCMIL or (2) #2 AWG to 250 KCMIL | (1) #1 AWG to 600 MCM (TM) (2) 2/0 AWG to 500 MCM (ET) | — | (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 |
| | 400 | | (1) #1 AWG to 600 MCM (TM) (2) 2/0 AWG to 500 MCM (ET) | — | | |
| | 600 | (2) #2 AWG to 600 KCMIL | (3) 3/0 AWG to 500 MCM | — | (6) #2 AWG to 600 KCMIL | (3) #4 AWG to 600 KCMIL or (6) 1/0 AWG to 250 KCMIL |
| | 800 | (4) 1/0 AWG to 750 MCM | (3) 3/0 AWG to 500 MCM | — | (12) 1/0 AWG to 750 MCM | NEMA 1: (3) #4 AWG to 500 MCM NEMA 3R/4/4X/12: (3) #4 AWG to 600 MCM or (6) 1/0 AWG to 250 MCM |
| | 1000-1200 | | (4) 3/0 AWG to 500 MCM | — | | |
| | 1600-2000 | (6) 1/0 AWG to 750 MCM | (6) 1/0 AWG to 750 MCM | (12) 1/0 AWG to 750 MCM | (12) 1/0 AWG to 750 MCM | (4) #4 AWG to 500 MCM |
| | 2500-3000 | (12) 1/0 AWG to 750 MCM | (12) 1/0 AWG to 750 MCM | (24) 1/0 AWG to 750 MCM | (12) 1/0 AWG to 750 MCM | |
| | 4000 | (12) 1/0 AWG to 750 MCM | — | — | — | (36) 1/0 AWG to 750 KCMIL |

‡ Use 75°C minimum Cu/Al wire for power connections.

Utility Source Circuit Breakers WCR Levels Standard and Programmed-Transition Models

All values are available symmetrical RMS amperes and tested in accordance with the withstand and close-on requirements of UL1008. Application requirements may permit higher withstand ratings for certain size switches. Contact the factory for assistance.

| Duty Rating % | Amperage | Trip Type | Withstand Current Ratings in RMS Symmetrical Amperes | | | | | | | |
|---------------|----------|------------------|--|------------------|-------------|-------------|------------|-------------|-------------|-------------|
| | | | Standard Fault | | | | High Fault | | | |
| | | | LCB Frame | 240 V, Max. | 480 V, Max. | 600 V, Max. | LCB Frame | 240 V, Max. | 480 V, Max. | 600 V, Max. |
| 80 | 70 | Thermal Magnetic | HG | 65kA | 35kA | 18kA | BJ | 100kA | 50kA | 25kA |
| | 100 | | HG | 65kA | 35kA | 18kA | BJ | 100kA | 50kA | 25kA |
| | 150 | | HG | 65kA | 35kA | 18kA | HL | 125kA | 85kA | 25kA |
| | 200 | | JG | 65kA | 30kA | N/A | JL | 125kA | 85kA | N/A |
| | 225 | | JG | 65kA | 30kA | 18kA | JL | 125kA | 85kA | 42kA |
| | 250 | | JG | 65kA | 35kA | 18kA | JL | 100kA | 100kA | 42kA |
| | 70 | Electronic Trip | HG | 65kA | 35kA | 18kA | HL | 125kA | 85kA | 25kA |
| | 100 | | HG | 65kA | 35kA | 18kA | HL | 125kA | 85kA | 25kA |
| | 150 | | HG | 65kA | 35kA | 18kA | HL | 125kA | 85kA | 25kA |
| | 200 | | JG | 65kA | 30kA | N/A | JL | 125kA | 85kA | N/A |
| | 225 | | JG | 65kA | 30kA | 18kA | JL | 125kA | 85kA | 42kA |
| | 250 | | JG | 65kA | 35kA | 18kA | JL | 100kA | 100kA | 42kA |
| | 400 | | LJ | 65kA | 50kA | 25kA | LL | — | — | 35kA |
| | 600 | | PJ | 65kA | 50kA | 25kA | PK | — | — | 42kA |
| | 800 | | PJ | 65kA | 65kA | 25kA | PK | — | — | 50kA |
| | 1000 | | PJ | 65kA | 65kA | 25kA | PK | — | — | 50kA |
| | 1200 | | PJ | 65kA | 65kA | 25kA | PK | — | — | 50kA |
| | 1600 | | RL | 100kA | 100kA | 50kA | | — | — | — |
| | 2000 | | RL | 100kA | 100kA | 50kA | | — | — | — |
| | 100 | | 70 | Thermal Magnetic | HG | 65kA | 35kA | 18kA | HL | 125kA |
| 100 | | HG | 65kA | | 35kA | 18kA | HL | 125kA | 85kA | 25kA |
| 150 | | HG | 65kA | | 35kA | 18kA | HL | 125kA | 85kA | 25kA |
| 200 | | JG | 65kA | | 30kA | N/A | JL | 125kA | 85kA | N/A |
| 225 | | JG | 65kA | | 30kA | 18kA | JL | 125kA | 85kA | 42kA |
| 250 | | JG | 65kA | | 35kA | 18kA | JL | 100kA | 100kA | 42kA |
| 70 | | Electronic Trip | HG | 65kA | 35kA | 18kA | HL | 125kA | 85kA | 25kA |
| 100 | | | HG | 65kA | 35kA | 18kA | HL | 125kA | 85kA | 25kA |
| 150 | | | HG | 65kA | 35kA | 18kA | HL | 125kA | 85kA | 25kA |
| 200 | | | JG | 65kA | 30kA | N/A | JL | 125kA | 85kA | N/A |
| 225 | | | JG | 65kA | 30kA | 18kA | JL | 125kA | 85kA | 42kA |
| 250 | | | JG | 65kA | 35kA | 18kA | JL | 100kA | 100kA | 42kA |
| 400 | | | LJ | 65kA | 50kA | 25kA | LL | — | — | 35kA |
| 600 | | | PJ | 65kA | 50kA | 25kA | PK | — | — | 42kA |
| 800 | | | PJ | 65kA | 65kA | 25kA | PK | — | — | 50kA |
| 1000 | | | PJ | 65kA | 65kA | 25kA | PK | — | — | 50kA |
| 1200 | | | PJ | 65kA | 65kA | 25kA | PK | — | — | 50kA |
| 1600 | | | RL | 100kA | 100kA | 50kA | | — | — | — |
| 2000 | | | RL | 100kA | 100kA | 50kA | | — | — | — |
| 2500 | | | RL | 100kA | 100kA | 50kA | | — | — | — |
| 3000 | RL | 100kA | 100kA | 50kA | | — | — | — | | |
| 4000 | NW | 100kA | 100kA | 100kA | | — | — | — | | |

Withstand and Close-On Ratings (WCR) Standard and Programmed-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 | |
| KUS | 70 | 200kA | 35kA | 200 | J | 0.025 | 10kA | 10kA | 10kA | — | | | | — | | | | |
| | 100 | 35kA | 35kA | 200 | RK1 | 0.025 | 10kA | 10kA | 10kA | — | | | | — | | | | |
| | 150 | | | | | | | | | — | | | | — | | | | |
| | 200 | 200kA | 35kA | 200 | J | 0.025 | 10kA | 10kA | 10kA | — | | | | — | | | | |
| | | 35kA | 35kA | 200 | RK1 | | | | | — | | | | — | | | | |
| | 225 (480V) | 100kA | — | 300 | J | 0.025 | 10kA | 10kA | — | — | | | | — | | | | |
| 225 (600V) | 200kA | 200kA | 600 | J | 0.05 | 65kA | 42kA † | 35kA | 7500A | — | | | | — | | | | |
| | | | 800 | L | | | | | | — | | | | — | | | | |
| KUP | 150 | 200kA | 200kA | 600 | J | 0.05 | 65kA | 42kA † | 35kA | 7500A | — | | | | — | | | |
| | | | | 800 | L | 0.05 | 65kA | 42kA † | 35kA | 7500A | — | | | | — | | | |
| | 225 | 200kA | 200kA | 600 | J | 0.05 | 65kA | 42kA † | 35kA | 7500A | — | | | | — | | | |
| | | | | 800 | L | 0.05 | 65kA | 42kA † | 35kA | 7500A | — | | | | — | | | |
| KUS KUP | 250 400 | 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 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.
‡ 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 | |
| KUS | 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 | | | GE | THED | 90 |
| | | 85,000 | 480 | Square D | HL, HR | 150 | |
| | | 50,000 | | | BJ | 125 | |
| | | 35,000 | | | HG, HJ | 150 | |
| | | 18,000 | | | BG | 125 | |
| | | | | | BD, HD | 125 | |
| | | | | | 600 | Square D | HJ, HL, HR |
| | | | BJ | 125 | | | |
| | | HG | 150 | | | | |
| BG | 125 | | | | | | |
| 14,000 | HD | 150 | | | | | |
| | BD | 125 | | | | | |
| | KUS | 100 | 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 | |
| 25,000 | | | BD | | | 125 | |
| 22,000 | | | GE | | | THED | 150 |
| 85,000 | | | 480 | Square D | HL, HR | 150 | |
| 50,000 | | | | | BJ | 125 | |
| 35,000 | | | | | HG, HJ | 150 | |
| 18,000 | | | | | BG | 125 | |
| | | | | | BD, HD | 125 | |
| | | | | | 600 | Square D | HJ, HL, HR |
| | | | BJ | 125 | | | |
| 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 | |
| KUS | 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 | | | HD | 150 | |
| | | 22,000 | | | BD | 125 | |
| | | 85,000 | 480 | Square D | GE | THED | 150 |
| | | 50,000 | | | HL, HR | 150 | |
| | | 35,000 | | | BJ | 125 | |
| | | 25,000 | | | HG, HJ | 150 | |
| | | 18,000 | | | BG | 125 | |
| | | 18,000 | | | JG, JJ, JL | 200 | |
| | | 25,000 | 600 | Square D | BD, HD | 125 | |
| | | 18,000 | | | HJ, HL, HR | 150 | |
| | | 14,000 | | | BJ | 125 | |
| | | | | | HG | 150 | |
| | BG | 125 | | | | | |
| KUS | 200 225 | 200,000 | 240 | Square D | JD | 250 | |
| | | 125,000 | | | JR | 250 | |
| | | 100,000 | | | JL | 250 | |
| | | 65,000 | | | JJ | 250 | |
| | | 42,000 | | | JG | 250 | |
| | | 25,000 | | | QG, QJ | 225 | |
| | | 85,000 | JD | 250 | | | |
| | | 30,000 | 480 | Square D | JL, JR | 250 | |
| | | 18,000 | | | JG, JJ | 250 | |
| | 14,000 | JD | | | 250 | | |
| | 200 | 600 | Square D | JD, JG, JJ, JL, JR | 250 | | |
| | 225 | 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 | |
| | | | | | HHL6, 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 | |
| CK800H, CK800HH, MasterPact STR 28D, PK | | | | | 800 | | |
| LL (current limiting) | | | | | 600 | | |
| LR (current limiting) | 600 | | | | | | |
| 50,000 | Eaton/Cutler Hammer | PD3 (current limiting) | | 600 | | | |
| 100,000 | | | | 600 | | | |
| 65,000 | | | | 600 | | | |

| Model | Switch Rating, amps | WCR, amps RMS | Volts, Max. | Molded-Case Circuit Breakers | | | | | | | |
|-------------|---|---------------|---------------------|------------------------------|------------------------------------|------------------------|--|-----|---------------------|------------------------|---------------|
| | | | | Manufacturer | Type or Class | Max. Size, amps | | | | | |
| KUP | 150 200 225 | 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 | | | | |
| | | | | | | LR (current limiting) | 600 | | | | |
| | | 200,000 | | | 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, HHL6, 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 | | | |
| | | | | | | | JJ (current limiting) | 250 | | | |
| | | | | | | 65,000 | | | | LJ (current limiting) | 600 |
| | | | | | | | | | | JL (current limiting) | 250 |
| | | | | | | 100,000 | | | | LL (current limiting) | 600 |
| | | | | | | | | | | | |
| | | | | | | 200,000 | | | Eaton/Cutler Hammer | PD2 (current limiting) | 225 |
| | | | | | | | | | | PD3 (current limiting) | 600 |
| | | | | | | | | | Square D | JR (current limiting) | 250 |
| | | | | | | | | | | LR (current limiting) | 600 |
| | | | | | | 42,000 | | | 600 | Eaton/Cutler Hammer | JGU, JGX, JGH |
| | | 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 | | | | | | | | | |
| | HHL6, 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 | | | | | | | | | |
| | LL (current limiting) | 600 | | | | | | | | | |
| 50,000 | | | | | | | | | | | |
| 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.

| Model | Switch Rating, amps | WCR, amps RMS | Volts, Max. | Molded-Case Circuit Breakers | | | |
|-----------------------|--|--|--|------------------------------|---|---|-----|
| | | | | Manufacturer | Type or Class | Max. Size, amps | |
| KUS KUP | 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 (current limiting) | 600 | | |
| | | | | LL (current limiting) | 600 | | |
| | | | | LR (current limiting) | 600 | | |
| | | 200,000 | | 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 | | | | |
| | Square D | | 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 | | |
| | 65,000 | | 480 | | 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 | | | |
| | | JJ (current limiting) | | 250 | | | |
| | | LJ (current limiting) | | 600 | | | |
| | | JL (current limiting) | | 250 | | | |
| LL (current limiting) | | 600 | | | | | |
| JR (current limiting) | | 250 | | | | | |
| LR (current limiting) | 600 | | | | | | |
| 200,000 | Eaton/Cutler Hammer | PD2 (current limiting) | 225 | | | | |
| | | PD3 (current limiting) | 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 | | |
| KUS KUP | 260 | 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 | 50,000 | 600 | KI, JL, JR, JJ, CF250L | 250 |
| | | | | | 65,000 | | CK400H, CK400HH, CJ400L | 400 |
| | | LI | | | | | 600 | |
| | | CK800H, CK800HH, MasterPact STR 28D, PK | | | | | 800 | |
| | | LL (current limiting) | | | | | 600 | |
| | | 100,000 | | Eaton/Cutler Hammer | PD3 (current limiting) | 600 | | |
| | | | | Square D | LR (current limiting) | 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 | |
| KUS KUP | 400 | 65,000 | 240 | GE | THQMV | 225 | |
| | | | | | SGL1, SGL4, SGL6, SGP1, SGP4, SGP6 | 600 | |
| | | | | Eaton/Cutler Hammer | LDC, CLDC, HLD, CHLD | 600 | |
| | | | | | PD2 (current limiting) | 225 | |
| | | | | PD3 (current limiting) | 600 | | |
| | | | | Siemens/ITE | HLD6, HLXD6 | 600 | |
| | | Square D | QG, QJ | 250 | | | |
| | | | LJ (current limiting) | 600 | | | |
| | | | LL (current limiting) | 600 | | | |
| | | | LR (current limiting) | 600 | | | |
| | | 200,000 | 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 | |
| | | | | TBC4 | 400 | | |
| | | | | 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 | |
| | | | | 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 | | | |
| | | LJ (current limiting) | 600 | | | | |
| | | LL (current limiting) | 600 | | | | |
| | | LR (current limiting) | 600 | | | | |
| | | Eaton/Cutler Hammer | PD3 (current limiting) | 600 | | | |
| | | 65,000 | 600 | Eaton/Cutler Hammer | KDC | 400 | |
| | | | | | LDC, CLDC, LGC*, LGU*, LGX* | 600 | |
| | | 42,000 | 600 | Eaton/Cutler Hammer | PD3 (current limiting) | 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 | | | |
| | LL (current limiting) | 600 | | | | | |
| LR (current limiting) | 600 | | | | | | |
| 50,000 | | | | | | | |
| 100,000 | | | | | | | |

* 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 |
| KUS KUP | 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 |
| | | | | | LJ (current limiting) | 600 |
| | | LL (current limiting) | 600 | | | |
| | | LR (current limiting) | 600 | | | |
| | | 200,000 | Eaton/Cutler Hammer | PD2 (current limiting) | 225 | |
| | | | | PD3 (current limiting) | 600 | |
| | | 50,000 | 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 | |
| | | 50,000 | 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, HHL6, 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 | |
| | | | | PL1200 | 1200 | |
| | | | 85,000 | Eaton/Cutler Hammer | LJ (current limiting) | 600 |
| | | | | | LL (current limiting) | 600 |
| | | | | | LR (current limiting) | 600 |
| | | 65,000 | Eaton/Cutler Hammer | PD3 (current limiting) | 600 | |
| | | | | JGC | 250 | |
| | | | | TBC4 | 400 | |
| | | 100,000 | Eaton/Cutler Hammer | LDC, CLDC | 600 | |
| | | | | TBC6, SGL1, SGL4, SGL6, SGP1, SGP4, SGP6, FGP | 600 | |
| | | | | TBC8, TKL4V, TKL8S- 12S, SKL8, SKP8 | 800 | |
| | | 42,000 | GE | SKL12, SKP12 | 1200 | |
| | | | | HHL6, HHLXD6, CLD6, SCLD6 | 600 | |
| | | | | HLMD6, HLMXD6, HMXD6, SHMD6, HMD6, CMD6, SCMD6, LMG | 800 | |
| | | 42,000 | Siemens/ITE | HND6, HNXD6, HNG, LNG, SHND6 | 1200 | |
| | | | | LI | 600 | |
| | | | | CK800H, CK800HH | 800 | |
| 50,000 | Square D | CK1000HL | 1000 | | | |
| | | CK1200H, CK1200HH, NT- H, NT- L, NT- LF, NT- L1, MasterPact STR 28D, PK | 1200 | | | |
| | | LL (current limiting) | 600 | | | |
| 65,000 | Eaton/Cutler Hammer | PD3 (current limiting) | 600 | | | |
| | | LR (current limiting) | 600 | | | |
| 100,000 | Square D | LR (current limiting) | 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 |
| KUS KUP | 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, MTZ | 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 | | | | | |
| 65,000 | 600 | Eaton/Cutler Hammer | Tri-Pac NB | 800 | | |
| | | | RDC | 2500 | | |
| | | | Siemens/ITE | CND | 1200 | |
| 150,000 | 480 | Square D | MTZ2-LF | 2000 | | |
| | | | 200,000 | MTZ2-L1/L1F | 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 | |
| KUS | 70-225 | 1 | 2,3,4 | 3, 4 | 1000 (39) | 693 (27) | 489 (19)† | 66 (145) | 67 (148) | 69 (151) | ADV-9983 |
| | | 3R | 2,3,4 | 3, 4 | 1000 (39) | 693 (27) | 500 (20)† | 90 (199) | 92 (202) | 93 (205) | |
| | 225-600 | 1 | 2,3,4 | 3, 4 | 1930 (76) | 1005 (40) | 571 (23)† | 223 (492) | 227 (500) | 232 (511) | ADV-9984 |
| | | 3R | 2,3,4 | 3, 4 | 1930 (76) | 1005 (40) | 563 (22)† | 237 (522) | 240 (530) | 245 (541) | |
| | 800-1200 | 1 | 2,3,4 | 3, 4 | 2289 (90)* | 963 (38) | 721 (28)† | 488(1075) | 497 (1095) | 519 (1145) | ADV-9985 |
| | | 3R | 2,3,4 | 3, 4 | 2289 (90)* | 963 (38) | 821 (32)† | 501 (1105) | 510 (1125) | 533 (1175) | |
| | 1600-2000 | 1 | 3,4 | 4 | 2289 (90) | 963 (38) | 1805 (71) | — | 846 (1865) | 875 (1930) | ADV-9986 |
| | | 3R | 3,4 | 4 | 2293 (90) | 943 (37) | 1993 (78) | — | 982 (2165) | 1011 (2230) | |
| | 2500-3000 | 1 | 3,4 | 4 | 2289 (90) | 963 (38) | 1805 (71) | — | 891 (1965) | 921 (2030) | ADV-9986 |
| | | 3R | 3,4 | 4 | 2293 (90) | 943 (37) | 1993 (78) | — | 1027 (2265) | 1057 (2330) | |
| | 4000 | 1 | 3,4 | 4 | 2311 (91) | 1524 (60) | 1829 (72) | — | 1581 (3485) | 1662 (3665) | ADV-9987 |
| | | 3R | 3,4 | 4 | 2530 (100) | 1600 (63) | 2304 (91) | — | 1762 (3885) | 1844 (4065) | |
| KUP | 150-600 | 1 | 2,3,4 | 3, 4 | 1930 (76) | 1005 (24) | 593 (23)† | 230 (507) | 234 (515) | 188 (526) | ADV-9984 |
| | | 3R | 2,3,4 | 3, 4 | 1930 (76) | 1005 (24) | 563 (22)† | 243 (537) | 247 (545) | 188 (556) | |
| | 800-1200 | 1 | 2,3,4 | 3, 4 | 2289 (90)* | 963 (34) | 721 (28)† | 499 (1100) | 512 (1130) | 238 (1184) | ADV-9985 |
| | | 3R | 2,3,4 | 4 | 2289 (90)* | 963 (34) | 821 (32)† | 512 (1130) | 526 (1160) | 238 (1214) | |
| | 1600-2000 | 1 | 3,4 | 4 | 2289 (90) | 963 (38) | 1805 (71) | — | 907 (2000) | 556 (2065) | ADV-9986 |
| | | 3R | 3,4 | 4 | 2293 (90) | 943 (37) | 1993 (78) | — | 1043 (2300) | 1073 (2365) | |
| | 2500-3000 | 1 | 3,4 | 4 | 2289 (90) | 963 (38) | 1805 (71) | — | 977 (2155) | 1007 (2220) | ADV-9986 |
| | | 3R | 3,4 | 4 | 2293 (90) | 943 (37) | 1993 (78) | — | 1113 (2455) | 1143 (2520) | |
| | 4000 | 1 | 3,4 | 4 | 2311 (91) | 1524 (60) | 1829 (72) | — | 1667 (3675) | 1748 (3855) | ADV-9987 |
| | | 3R | 3,4 | 4 | 2530 (100) | 1600 (63) | 2304 (91) | — | 1848 (4075) | 1930 (4255) | |

* Includes mounting feet.

† On 70- 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.

Transfer Switch Accessories

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

- 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.
- Energy Reduction Maintenance Setting (ERMS) System**
 - Available as optional, factory-installed equipment on 1200 Amp and larger KUS and KUP
 - Reduces the arc flash incident energy (AFIE) during energized service
 - Helps provide compliance with NEC requirements for arc flash reduction
 - Includes ERMS Maintenance Mode ON/OFF selector switch and maintenance mode indicator light
- 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 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

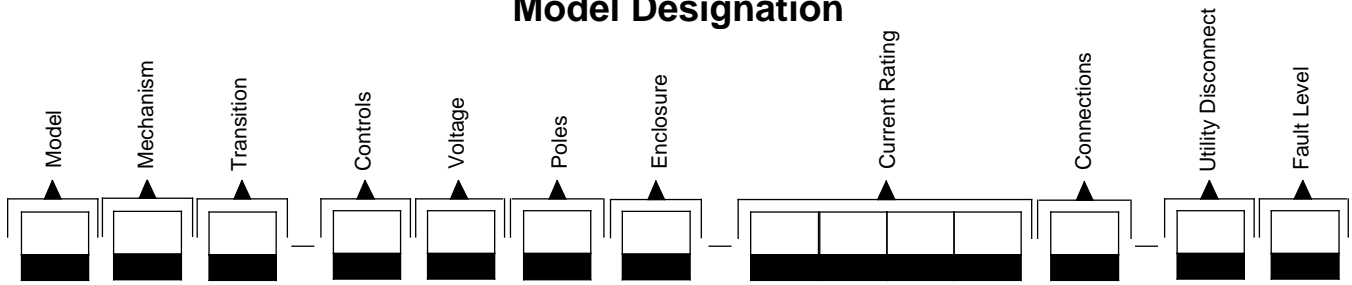
Seismic Certification

- IBC Seismic Certification**
 - Certification depends on application and geographic location. Contact your distributor for details.
 - Available for the KUS/KUP model transfer switches with enclosures shown below:

| ATS Size, Amps | Enclosure, NEMA Type: | | | | |
|----------------|-----------------------|----|---|----|----|
| | 1 | 3R | 4 | 4X | 12 |
| 70-1200 | • | • | • | • | • |
| 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: KUS-DNTA-0400S-XS

Model

K: Kohler

Mechanism

U: Service Entrance (Contactor-Based)

Transition

S: Standard

P: Programmed

Controller

D: Decision-Maker® MPAC 1500, 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

Enclosure

A: NEMA 1

B: NEMA 12

C: NEMA 3R

D: NEMA 4

F: NEMA 4X

Current, Amps

| | | |
|------|------|------|
| 0070 | 0400 | 2000 |
| 0100 | 0600 | 2500 |
| 0150 | 0800 | 3000 |
| 0200 | 1000 | 4000 |
| 0225 | 1200 | |
| 0250 | 1600 | |

Connections

S: Standard

Utility Disconnect

| | |
|------------|------------|
| U: 80% TM | W: 80% ET |
| V: 100% TM | X: 100% ET |

Fault Level

S: Standard
 H: High Fault

Note:

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

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