MOMLEROMER SYSTEMMS | Automatic Transfer Switches |
| :---: |
| Bypass/Isolation Switches |



## Ratings

Voltage
208-600 VAC $50 / 60 \mathrm{~Hz}$

## Current

Open-Transition
Programmed-Transition
150-4000 amps
150-4000 amps

## Bypass/Isolation Switch Standard Features

- Bypass/isolation switches for uninterrupted power to the load during switch maintenance and testing
- Open-transition or programmed-transition modes of operation
- 2, 3, or 4 poles
- Electrically operated, mechanically held contactor
- Double-throw, inherently interlocked design (break-before-make power contacts)
- Solid, switched, or overlapping neutral (make-before-break type)
- High withstand and closing ratings
- Fully rated for use as a manual 3-position transfer switch
- Permanently mounted bypass and isolation handles
- Quick-make, quick-break bypass switch operation for load transfer between live sources
- 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
- Open-transition transfer time less than 100 milliseconds (6 cycles @ 60 Hz )
- Reliable, field-proven solenoid mechanism
- Switching mechanisms lubricated for life
- Main shaft auxiliary contacts
- Front-connected style available for some amperages


## MPAC $1000{ }^{\text {TM }}$ Controller Standard Features

- Microprocessor controller
- Real-time clock
- Broadrange voltage sensing (208-600 VAC) with $2 \%$ accuracy on both sources
- Frequency sensing with $1 \%$ accuracy on both sources
- Environmentally sealed user interface
- Keypad with tactile feedback pushbuttons
- LED indicators
- Selectable operating modes
- Programmable inputs and outputs
- Load/no load exercise function
- In-phase monitor
- Anti-single phasing protection
- Load control inputs and outputs
- Phase rotation sensing
- Time-stamped event log
- Gold-flashed engine start contacts
- Modbus ${ }^{\circledR}$ communication with network and setup connections


## Programmable Features

- System voltage and frequency
- Adjustable over/undervoltage and over/underfrequency for the normal and emergency sources
- Adjustable time delays
- Commit/no commit transfer
- ABC/CBA phase rotation selection with error detection
- Resettable historical data
- Password protection
- Single/three-phase operation $\dagger$
- Open/programmed-transition operation $\dagger$
- In-phase monitor (disabled)
- Calendar mode exerciser (up to 21 events)
- Programmable inputs and outputs


## Communications

- Serial port for PC connection
- Modbus ${ }^{\circledR}$ network interface


## Controller Features

## Standard Controller Features

## User Interface Keypad

- Start/end system test
- Set/end exercise
- End time delay
- Lamp test/service reset


## User Interface Indicators

- Contactor position: Normal, Off, Emergency
- Source available: Normal, Emergency
- Service required: immediate, maintenance
- Not in automatic mode
- Four-stage time delay remaining
- Exercise: load, no load, set/disabled
- Test: load, no load
- Load control active: peak shave, load shed, pre/post-transfer signal
- In-phase monitor active


## Selectable Operating Modes*

- 1 week/2 week exercise (1 week)
- Disable/enable exercise (enable)
- Load/no load exercise (no load)
- Load/no load test (load)
- Enable/disable transfer (enable)


## Inputs

- One programmable input, factory-set to peak shave/area protection
- One programmable input for factory use only, inhibits transfer during travel betweenTEST and ISOLATE positions


## Outputs

- Generator engine start gold-flashed contact rated 2 amps @ 30 VDC/250 VAC
- Pre-transfer load control, one normally open contact rated 10 amps @ 30 VDC/250 VAC
- One programmable output, factory-set to load bank control rated 2 amps @ 30 VDC/250 VAC


## Software Event Monitoring

Use a personal computer with the optional setup software or a Modbus ${ }^{\circledR}$ link to view historical data and system events.

- Historical data (total and resettable)
- System events (time and date-stamped)
- System faults (time and date-stamped)
- Line-to-line voltage
- System frequency
- Time delay active
- Time delay remaining
- System status
- Source available
- Contactor position
- Exerciser schedule, mode, and time remaining on active exercise
* Factory default settings are shown in parentheses. All settings are stored in non-volatile memory.
$\dagger$ System parameters set per order.
Modbus ${ }^{\circledR}$ is a registered trademark of Schneider Electric


## Programmable Features

Use a personal computer with the optional setup software or a Modbus ${ }^{\circledR}$ link to view, select, or adjust programmable features.

## Programmable Features*

- System voltage $\dagger$
- System frequency ${ }^{\dagger}$
- ABC or CBA phase rotation (ABC)
- Single/three-phase operation $\dagger$
- Open/programmed-transition operation $\dagger$
- In-phase monitor (disabled)
- Commit/no commit switch (no commit)
- User-defined password
- Calendar mode exerciser (up to 21 events)


## Programmable Inputs and Outputs

Use a personal computer with the optional setup software or a Modbus ${ }^{\circledR}$ link to define inputs and outputs.

## Programmable Inputs

- End time delay input (default)
- Inhibit transfer
- Low battery fault
- Load shed (forced transfer from Emergency to OFF; programmed-transition models only)
- Peak shave/area protection input (default)
- Remote common fault
- Remote test


## Programmable Outputs

- Auxiliary switch fault
- Common fault
- Contactor position
- Exercise active
- Failure to acquire standby source
- Failure to transfer fault
- Generator engine start
- Load bank control (default)
- Load control (pre/post transfer; up to 9 outputs)
- Loss of phase fault
- Low backup battery
- Modbus ${ }^{\circledR}$-controlled relay outputs (4 maximum)
- Not in automatic mode
- Non-emergency transfer
- Over and undervoltage faults
- Over and underfrequency faults
- Peak shave/area protection active
- Phase rotation error
- Source available
- Test active

Controller Features, continued

| Voltage and Frequency Sensing |  |  |
| :--- | :--- | :--- |
| Parameter | Default | Adjustment Range |
| Undervoltage pickup | $90 \%$ of nominal | $85 \%-100 \%$ of nominal |
| Undervoltage dropout | $90 \%$ of pickup | $75 \%-98 \%$ of pickup |
| Overvoltage dropout | $110 \%$ of nominal | $105 \%-135 \%$ of nominal* |
| Overvoltage pickup | $95 \%$ of dropout | $95 \%-100 \%$ of dropout |
| Voltage dropout time | 0.5 sec. | $0.1-9.9$ sec. |
| Underfrequency pickup | $90 \%$ of nominal | $80 \%-95 \%$ of nominal |
| Underfrequency dropout | $99 \%$ of pickup | $95 \%-99 \%$ of pickup |
| Overfrequency dropout | $101 \%$ of pickup | $101 \%-105 \%$ of pickup |
| Overfrequency pickup | $110 \%$ of nominal | $105 \%-120 \%$ of nominal |
| Frequency dropout time | 3 sec. | $0.1-15$ sec. |
| * 690 volts, maximum |  |  |


| Adjustable Time Delays |  |  |
| :---: | :---: | :---: |
| Time Delay | Default | Adjustment Range |
| Engine start | 3 sec . | 0-6 sec. $\dagger$ |
| Preferred to standby | 1 sec . | 0-60 min. $\dagger$ |
| Standby to preferred | 15 min . |  |
| Engine cooldown | 0 min. |  |
| Failure to acquire standby source | 1 min . |  |
| Pretransfer to preferred signal | 3 sec . |  |
| Pretransfer to standby signal | 3 sec . |  |
| Post-transfer to preferred signal | 0 sec . |  |
| Post-transfer to standby signal | 0 sec . |  |
| Off to standby (programmed-transition only) | 1 sec. |  |
| Off to preferred (programmed-transition only) | 1 sec. |  |
| $\dagger$ Adjustable in 1 second increments. Can be extended to 60 minutes with an Extended Battery Supply Module kit. |  |  |

## Application Data

| UL-Listed Solderless Screw-Type Terminals for External Power Connections |  |  |
| :---: | :---: | :---: |
|  | Normal, Emergency, and Load Terminals |  |
| Switch Rating (Amps) | Maximum Number of Cables per Pole | Range of Wire Sizes, Copper or Aluminum |
| 150-400 | 1 | \#4 AWG to 600 MCM |
|  | 2 | \#1/O AWG to 250 MCM |
| 150-400 | 1 | \#4 AWG to 600 MCM |
| KBP § | 2 | \#1/O AWG to 250 MCM |
| $\begin{array}{r} \text { 150-400 } \\ \text { 4-pole } \\ \text { KBP § } \end{array}$ | 2 | \#1 AWG to 600 MCM |
| 600 S | 2 | \#2 AWG to 600 MCM |
| 600 F | 2 | \#1 AWG to 600 MCM |
| 800 F | 3 | \#1 AWG to 600 MCM |
| 800-1200 S | 4 | \#1/O AWG to 750 MCM |
| 1600-2000 | 6 | \#1/O AWG to 750 MCM |
| 2600-3000 | 10 | \#1/O AWG to 750 MCM |
| 4000 | 12 | \#2 AWG to 600 MCM |
| F Front-connected <br> S Standard rear-connected <br> $\ddagger$ Open-transition models only <br> § Programmed-transition models only |  |  |


| Input and Output Connection Specifications |  |  |
| :--- | :---: | :--- |
| Component | Number of Wires | Wire Size Range |
| Terminal strip I/O terminals | 1 | $\# 12-24$ AWG |
| I/O module terminals | 1 | $\# 14-26$ AWG |


| Auxiliary Position Indicating Contacts <br> (rated 10 amps @ 32 VDC/250 VAC) |  |  |
| :---: | :---: | :---: |
|  | Number of contacts indicating <br> Normal, Emergency |  |
| Switch Rating (Amps) | Open- <br> Transition | Programmed- <br> Transition |
| $150-400$ | 3,3 | 2,3 |
| $150-400 * *$ | - | 7,7 |
| $600-3000$ | 8,8 | 7,7 |
| 4000 | 2,2 | 4,3 |
|  |  |  |
| ** Programmed transition 4-pole |  |  |


| Environmental Specifications |  |
| :--- | :--- |
| Operating Temperature | $-20^{\circ} \mathrm{C}$ to $70^{\circ} \mathrm{C}\left(-4^{\circ} \mathrm{F}\right.$ to $\left.158^{\circ} \mathrm{F}\right)$ |
| Storage Temperature | $-40^{\circ} \mathrm{C}$ to $70^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right.$ to $\left.158^{\circ} \mathrm{F}\right)$ |
| Humidity | $5 \%$ to $95 \%$ noncondensing |
| Altitude | 0 to $3050 \mathrm{~m}(10000 \mathrm{ft})$ without derating |

## Codes and Standards

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

- Underwriters Laboratories UL 508, Standard for Industrial Control Equipment
- Underwriters Laboratories UL 1008, Standard for Automatic Transfer Switches for Use in Emergency Standby Systems
- Underwriters Laboratories Inc., Listed to Canadian Safety Standards (cUL)
- NFPA 70, National Electrical Code
- NFPA 99, Essential Electrical Systems for Health Care Facilities
- NFPA 110, Emergency and Standby Power Systems
- IEEE Standard 446, IEEE Recommended Practice for Emergency and Standby Power Systems for Commercial and Industrial Applications
- NEMA Standard IC10-1993 (formerly ICS2-447), AC Automatic Transfer Switches
- EN61000-4-5 Surge Immunity Class 4 (voltage sensing and programmable inputs only)
- EN61000-4-4 Fast Transient Immunity Severity Level 4
- 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 Variations and Interruptions


## Weights and Dimensions

Bypass/Isolation Switches in NEMA 1 Enclosures

| Transition | Amps | Dimensions mm (in.) |  |  | Weight kg (lb.) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Height | Width | Depth | 2-Pole | 3-Pole | 4-Pole |
| Open- <br> Transition | 150-400 | 1588 (63) | 724 (28.5) | 489 (19) * | 154 (340) | 158 (350) | 163 (360) |
|  | 600-800 F | 2286 (90) | 965 (38) | 813 (32) † | 685 (1510) | 717 (1580) | 748 (1650) |
|  | 600-1200 S | 2311 (91) | 965 (38) | 1219 (48) $\ddagger$ | 685 (1510) | 717 (1580) | 748 (1650) |
|  | 1600-2000 | 2311 (91) | 965 (38) | 1524 (60) $\ddagger$ | - | 1070 (2360) | 1152 (2540) |
|  | 2600-3000 | 2311 (91) | 1981 (78) | 1829 (72) $\ddagger$ | - | 1240 (2730) | 1525 (3360) |
|  | 4000 | 2311 (91) | 2451 (96.5) | 1829 (72) § | - | 2858 (6300) | 3130 (6900) |
| ProgrammedTransition | 150-400 | 1892 (75) | 724 (28.5) | 489 (19) * | 154 (340) | 158 (350) | - |
|  | $\begin{aligned} & 150-400 \mathrm{~F} \\ & (4 \text {-pole) } \end{aligned}$ | 2286 (90) | 965 (38) | 813 (32) † | - | - | 340 (750) |
|  | 600-800 F, S | 2286 (90) | 965 (38) | 813 (32) † | 315 (695) | 322 (710) | 340 (750) |
|  | 1000-1200 | 2311 (91) | 965 (38) | 1219 (48) $\ddagger$ | 928 (2045) | 1027 (2265) | 1127 (2485) |
|  | 1600-2000 | 2311 (91) | 965 (38) | 1524 (60) $\ddagger$ | - | 1070 (2360) | 1152 (2540) |
|  | 2600-3000 | 2311 (91) | 965 (38) | 1829 (72) $\ddagger$ | - | 1325 (2920) | 1611 (3550) |
|  | 4000 | 2311 (91) | 2451 (96.5) | 1829 (72) § | - | 2858 (6300) | 3130 (6900) |

F Front-connected
S Standard rear-connected (not available for 150-400 amp 4-pole programmed-transition)

* Handles extend 89 mm ( 3.5 in .).
$\dagger$ Handles extend 159 mm (6.25 in.). Standard enclosures for 150-400 amp 4-pole and 600-800 amp sizes are suitable for top and upper left side cable entrance only.
$\ddagger$ Recommended clearance to enclosure: $0.9 \mathrm{~m}(3 \mathrm{ft}$.$) from rear, 1.2 \mathrm{~m}(4 \mathrm{ft}$.$) from front [ 0.64 \mathrm{~m}(25 \mathrm{in}$.$) required for transfer switch drawout].$
§ Recommended clearance to enclosure: 0.9 m ( 3 ft. ) from rear, $1.5 \mathrm{~m}(5 \mathrm{ft}$ ) from front [ $0.9 \mathrm{~m}(3 \mathrm{ft}$.$) required for transfer switch drawout].$


## Withstand and Closing Ratings (WCR) <br> Open- and Programmed-Transition Models

Maximum current in RMS symmetrical amperes when coordinated with customer-supplied fuses or circuit breakers.

| Withstand and Closing Current Ratings in RMS Symmetrical Amperes* |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Switch Rating, Amps | Any Circuit Breaker |  |  | Current-Limiting Fuses |  |  |  |
|  | Cycles @ 60 Hz | WCR, Amps@ 480 VAC | WCR, Amps @ 600 VAC | Amps | Volts, <br> Max | Fuse Size, Amps | Type |
| 150 | 3 | 35,000 | 22,000 | 200,000 | 480 | 450 | J |
| 225-400 |  |  |  |  |  | 600 |  |
| 600-1200 | $\begin{array}{r} 3 \\ 18 \end{array}$ | $\begin{aligned} & 50,000 \\ & 36,000 \end{aligned}$ | $\begin{aligned} & 50,000 \\ & 36,000 \end{aligned}$ |  | 600 | 1600 | L |
| 1600, 2000 | $\begin{gathered} 3 \\ 30 \end{gathered}$ | $\begin{array}{r} 100,000 \\ 65,000 \end{array}$ | $\begin{array}{r} 100,000 \\ 65,000 \end{array}$ |  |  | 3000 |  |
| 2600, 3000 |  |  |  |  |  | 4000 |  |
| 4000 |  |  |  |  | 480 | 6000 |  |

* 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 Kohler Co. for assistance.
$\dagger$ Withstand rating only. This testing is not defined in UL 1008.


## Ratings with Specific Manufacturers' Circuit Breakers

The following charts list power switching device withstand and closing 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 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Voltage, Max. | Withstand/Closing Rating (WCR), RMS Symmetrical Amps | Manufacturer | Type | Max. Size, Amps |
| 150 | 480 | 42,000 | General Electric | TEL, THED, THLC1, | 150 |
|  |  |  |  | TFL, THLC2 | 225 |
|  |  |  |  | SFL, SFLA, SFP | 250 |
|  |  |  |  | SGL4, SGP4, TB4, THLC4, TLB4 | 400 |
|  |  |  |  | SGLA, SGL6, SGP6 TB6 | 600 |
|  |  |  | ITE | CFD6, HFD6 | 250 |
|  |  |  |  | CJD6, HHJD6, HHJXD6, HJD6, SCJD6, SHJD6 | 400 |
|  |  |  |  | CLD6, HHLD6, HHLXD6, HLD6, SHLD6 | 600 |
|  |  |  | Square D | KC, KI | 250 |
|  |  |  |  | LC, LI | 400 |
|  |  |  | Cutler-Hammer | HJD, JDC | 250 |
|  |  |  |  | HKD, KDC, LCL, Tri-Pac LA | 400 |
|  |  |  |  | HLD | 600 |
|  |  |  |  | Tri-Pac NB | 800 |
|  |  |  | ABB | S3 | 150 |
|  |  |  | Merlin Gerin | CF250 | 250 |
|  |  |  |  | CJ400 | 400 |
| $\begin{aligned} & 225 \\ & 260 \end{aligned}$ | 480 | 42,000 | General Electric | TFL, THLC2 | 225 |
|  |  |  |  | SFL, SFLA, SFP | 250 |
|  |  |  |  | SGL4, SGP4, TB4, THLC4, TLB4 | 400 |
|  |  |  |  | SGLA, SGL6, SGP6, TB6 | 600 |
|  |  |  |  | SKHA, SKL8, SKP8, TKL | 800 |
|  |  |  | ITE | CFD6, FD6, FXD6, HFD6 | 250 |
|  |  |  |  | CJD6, HHJD6, HHJXD6, HJD6, JD6, JXD6, SCJD6, SHJD6, SJD6 | 400 |
|  |  |  |  | CLD6, HHLD6, HHLXD6, HLD6, SCLD6, SHLD6 | 600 |
|  |  |  |  | CMD6, HMD6, HND6, MD6, MXD6, SCMD6, SHMD6, SMD6, SND6 | 800 |
|  |  |  | Square D | KC, KI | 250 |
|  |  |  |  | LC, LI | 600 |
|  |  |  |  | MH | 800 |
|  |  |  | Cutler-Hammer | HJD, JDC | 250 |
|  |  |  |  | HKD, KDC, LCL, Tri-Pac LA | 400 |
|  |  |  |  | HLD | 600 |
|  |  |  |  | Tri-Pac NB | 800 |
|  |  |  | ABB | S5 | 400 |
|  |  |  |  | S6 | 600 |
|  |  |  | Merlin Gerin | CF250 | 250 |
|  |  |  |  | CJ400 | 400 |

Ratings with Specific Manufacturers' Circuit Breakers, continued

| Switch Rating, Amps | Molded-Case Circuit Breakers |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Voltage, Max | Withstand/Closing Rating (WCR), RMS Symmetrical Amps | Manufacturer | Type | Max. Size, Amps |
| 400 | 480 | 42,000 | General Electric | SGL4, SGP4, TB4, THLC4, TLB4 | 400 |
|  |  |  |  | SGLA, SGL6, SGP6, TB6 | 600 |
|  |  |  |  | SKHA, SKL8, SKP8, TKL | 800 |
|  |  |  | ITE | CJD6, HHJD6, HHJXD6, HJD6, SCJD6, SHJD6, | 400 |
|  |  |  |  | CLD6, HHLD6, HHLXD6, HLD6, SCLD6, SHLD6 | 600 |
|  |  |  |  | CMD6, HMD6, HND6, MD6, MXD6, SCMD6, SHMD6, SMD6, SND6 | 800 |
|  |  |  | Square D | LC, LI | 600 |
|  |  |  |  | MH | 800 |
|  |  |  | Cutler-Hammer | HKD, KDC, LCL, Tri-Pac LA | 400 |
|  |  |  |  | HLD | 600 |
|  |  |  |  | Tri-Pac NB | 800 |
|  |  |  | ABB | S5 | 400 |
|  |  |  |  | S6 | 800 |
|  |  |  | Merlin Gerin | CJ600 | 600 |
| $\begin{array}{r} 600 \\ 800 \\ 1000 \\ 1200 \end{array}$ | 480 | 65,000 | General Electric | TB8 | 800 |
|  |  |  |  | Microversatrip TKL | 1200 |
|  |  |  | 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 |
|  |  |  |  | SE (LS Trip), SEH (LS Trip) | 2500 |
|  | 600 | 65,000 | Cutler-Hammer | Tri-Pac NB | 800 |
|  |  |  |  | Tri-Pac PB | 1600 |
|  |  |  |  | RDC | 2500 |
|  | 480 | 42,000 | ABB | S6 | 800 |
|  |  |  |  | S7 | 1200 |
|  |  |  | Merlin Gerin | CJ600 | 600 |
|  |  |  |  | CK1200 | 1200 |

KOHLER CO., Kohler, Wisconsin 53044 U.S.A
Phone 920-565-3381, Web site www.kohlergenerators.com
Fax 920-459-1646 (U.S.A. Sales), Fax 920-459-1614 (International)
For the nearest sales and service outlet in U.S.A. and Canada
Phone 1-800-544-2444

Kohler Power Systems
Asia Pacific Headquarters
7 Jurong Pier Road
Singapore 619159
Phone (65)264-6422, Fax (65)264-6455

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


## Sample Model Designation: KBT-AFTA-0400S

## Model

K: Model K automatic transfer switch

## Mechanism

B: Bypass isolation

## Transition

T: Open-transition
P: Programmed-transition

Electrical Controls
A: MPAC $1000^{\text {m }}$ (Microprocessor ATS Controls)

Voltage
C: 208 Volts/60 Hz
J: 416 Volts/50 Hz
D: 220 Volts $/ 50 \mathrm{~Hz}$
F: 240 Volts/60 Hz
G: 380 Volts $/ 50 \mathrm{~Hz}$
H: 400 Volts/ 50 Hz

## Number of Poles/Wires

N : 2-pole, 3-wire, solid neutral
T: 3-pole, 4-wire, solid neutral *
V : 4-pole, 4-wire, switched neutral
W: 4-pole, 4-wire, overlapping neutral
Z: 3-pole, 4-wire, integral solid neutral $\dagger$
Enclosure $\ddagger$
A: NEMA type 1
D: NEMA 4
B: NEMA type 12
F: NEMA 4X
C: NEMA type 3R

Current Rating: Numbers indicate the current rating of the switch in amperes:

| 0150 | 0800 | 2000 |
| :--- | :--- | :--- |
| 0225 | 1000 | 2600 |
| 0260 | 1200 | 3000 |
| 0400 | 1600 | 4000 |
| 0600 |  |  |
| Power Connections |  |  |
| S: Standard |  |  |
| F: Front-connected (available on 600-800 amp switches) |  |  |

* Solid neutral not available on 600-800 amp front-connected switches.
$\dagger$ Integral solid neutral is a solid neutral mounted on the contactor. This is the default selection for 600-800 amp front-connected switches. Not available on all amperages.
$\ddagger$ NEMA 1 enclosure is standard on all bypass models. Consult the manufacturer for the availability of other enclosures.


## Accessories

$\square$ Battery charger. Three-stage charging, dual-output battery charger (6 amps @ 12 VDC/3 amps @ 24 VDC)
$\square$ Chicago alarm module
$\square$ Digital meter kits. Display voltage, current, frequency, and power for both sourcesExternal battery supply module (allows extended engine start time delay)
$\square$ I/O Modules. Programmable input/output modules with 2 inputs and 6 outputs (output rating 2 amps @ 30 VDC/250 VAC). Use up to $4 \mathrm{I} / \mathrm{O}$ modules.

Availability is subject to change without notice. Kohler Co. reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. Contact your local Kohler ${ }^{\circledR}$ generator set distributor for availability.
$\square$ Load shed, to force transfer from Emergency to Off (programmed-transition models only)
$\square$ Line-to-neutral monitoring
$\square$ Preferred source switch
$\square$ Supervised transfer control switch
$\square$ Setup software

## DISTRIBUTED BY:

