



Model KSS with Decision-Maker® MPAC 750 Controller

Applicable Models

Model	Description
KSS	Standard-Transition Specific Breaker ATS

Decision-Maker® MPAC 750 Controller Standard Features

- Microprocessor-based controller
- Environmentally sealed user interface
- LED indicators:
 - Contactor position: source N and source E
 - Source available: source N and source E
 - Service required (fault indication)
 - Not in automatic mode
- Test pushbutton. Start and stop loaded or unloaded tests
- Exercise pushbutton. Start and schedule weekly loaded or unloaded exercise.
- Fail-safe transfer for loaded test and exercise functions
- Broadrange voltage sensing (208–600 VAC) on all phases
- Phase-to-phase sensing and monitoring with 0.5% accuracy on both sources
- Frequency sensing with 0.5% accuracy on both sources
- Anti-single phasing protection
- Real-time clock with automatic adjust for daylight saving time and leap year
- Time-stamped event log. View and download event history using Kohler® SiteTech™ software. *
- Maintenance mode DIP switch
- Isolated RS-485 ports for Modbus connections (9.6, 19.2, and 57.6 kbps)
- Modbus® RTU protocol (Modbus register map available)
- USB port. Connect a personal computer and use Kohler SiteTech software to view events and adjust settings. *

Programmable Features

- Program using a personal computer with Kohler® SiteTech® software *
- Adjustable time delays (see table)
- Overvoltage and undervoltage pickup and dropout settings for the Normal source (see table)
- In-phase monitor (enable/disable and transfer angle)
- Programmable inputs and outputs. Two input and two output connections.

* SiteTech software is available to Kohler-authorized distributors and dealers.

Modbus is a registered trademark of Schneider Electric.

Programmable Inputs

- Inhibit transfer
- Remote common fault
- Remote test

Programmable Outputs

- Auxiliary switch fault
- Auxiliary switch open
- Chicago alarm control
- Common alarm active
- Contactor position
- Exercise active
- Failure to acquire standby source
- Failure to transfer
- Generator engine start, source E
- In-phase monitor sync
- Not in automatic mode
- Phase rotation error
- Test active

Normal Source Voltage Sensing		
Parameter	Default	Adjustment Range
Undervoltage dropout	90% of pickup	75%-98%
Undervoltage pickup	90% of nominal	85%-100%
Overvoltage dropout *	115% of nominal*	106%-135%
Overvoltage pickup	95% of dropout	95%-100%
Voltage dropout time	0.5 sec.	0.1-9.9 sec.

* 690 volts, maximum. Default = 110% for 600 volt applications.

Adjustable Time Delays		
Time Delay	Default	Adjustment Range
Engine start	3 sec.	0-6 sec.
Engine cooldown	5 min.	0-60 min.
Fail to acquire standby source	1 min.	
Transfer, preferred to standby	3 sec.	
Transfer, standby to preferred	15 min.	

Note: Time delays are adjustable in 1 second increments, except as noted.

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

Main Board I/O Specifications	
Output contact type	Isolated form C (SPDT)
Output contact rating	1 amp @ 30 VDC, 500 mA @120 VAC
I/O terminals wire size	#12-24 AWG

Controller Accessories

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

Controller Disconnect Switch

- Disconnects power to controller without disconnecting load
- Mounts inside the enclosure

Ethernet Communications

- RJ-45 connector
- Supports Internet Protocol version 4 (IPv4)
- Supports Modbus TCP/IP Protocol

Padlockable User Interface Cover

- Cover is standard on NEMA 3R enclosures

Programmable Exercise Timer

- Seven-day programmable timer allows scheduling up to 56 on/off events
- LCD display indicates day, time, program/run modes, and on/off/skip status
- Skip next cycle button
- 5-year lithium backup battery

RSA III Remote Serial Annunciator

- Monitors the generator set
- Monitors ATS common alarm, Normal source, and Emergency source status and connection
- Allows remote testing of the ATS
- For more information about RSA III features and functions, see specification sheet G6-139

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