

# Swing Door

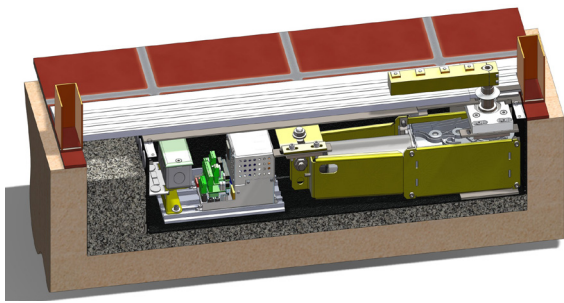
## ASSA ABLOY SW200i-IG Swing Door Operator

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### Technical Data Sheet



#### ASSA ABLOY SW200i-IG Swing Door Operator

The ASSA ABLOY SW200i-IG in ground swing door operator is designed to provide a complete system with an in ground enclosure, operator and arm adapter. The enclosure is water resistant and powder coated to prevent corrosion. The adaptability to multiple arm configurations allows great flexibility for integration with your design.

The ASSA ABLOY SW200i-IG utilizes the proven and powerful ASSA ABLOY SW200i operator, offering superior performance to accommodate heavy doors and high traffic flow. The ASSA ABLOY SW200i's exclusive air pressure management system makes it the perfect solution for exterior applications where wind conditions might occur.

The ASSA ABLOY SW200i-IG in ground swing door operator complies with ANSI A156.10 and ANSI A156.19

#### Operator Features and Performance

- Operator: electro-mechanical, non-handed operator, 24 volt, 5/16 hp motor
- ANSI Compliance: Field selectable full pedestrian usage (ANSI A156.10) and low energy (ANSI A156.19)
- Door Weight: up to 700 pounds (315 kg) per operator
- Door Size: up to 48" (consult for wider sizes)
- Manual Push Force: adjustable from 5 lbf – 15 lbf
- Hold Open Time: adjustable from 1.5 seconds to 30 seconds
- Wind Force Dampening: operator mechanically counteracts to wind forces, slowing down the opening or closing of the door
- Stack Pressure Compensation: operator counteracts to positive stack pressures, negative stack pressures, and sudden changes of stack pressures to maintain consistent door speeds
- Intelligent Trajectory Control: operator knows where the door should be at all times and adjusts torque accordingly. Dynamic braking helps cushion the door during opening to prevent going past 90 degrees, or during closing to prevent slamming.
- Extended Closing Torque (ECT): exclusive Extended Closing Torque (ECT) functionality provides extra torque in the last 10 degrees of closing, if needed, to close and latch the door. Speed remains constant so the door stays within ANSI standards.



- Latch Retry: if the door does not latch when closing, the SW200i will detect this condition and immediately open the door to 10 degrees and execute two attempts to latch the door.
- On-board timing sequencer
- On-board 12V or 24V strike output
- Low pass filter (i.e. "delay on make")
- Door position relay
- Kill input to close doors immediately
- Self-learning set-up – measures inertia and door weight
- Low Power Consumption (300 watts, 2.5 amp (max))
- Standard spindles for a ¼" or ½" high ADA threshold
- ¾" spindle and a terrazzo pan available for stone and terrazzo floors
- Various output adaptors available
- Floating door pivot
- Direct drive system

#### Operation

- Automatic sensor activation (ANSI A156.10)
- Push plate activation (ANSI A156.19 or A156.10)
- Push and go feature allowing door to open automatically when operator senses movement of door (ANSI A156.19)
- Power assist open – provides easy to open push forces (ANSI A156.19)
- Internal, push to open, push to close (i.e., ratchet relay) (ANSI A156.19)
- Speed controlled Extended Closing Torque (ECT) to provide power assist close with on-board functionality to automatically adjust torque without increasing speed
- Loss of Power: the operator controls the door closing, preventing slamming of door
- Torque Limiting: if positive air pressure condition is removed, operator compensates accordingly and will not slam

#### Configurations

The product is available in single and dual with a variety of output shaft configurations for Center Pivot, Offset Pivot, and Independently Hung doors.

*NOTE: 90° Door stop (by others) is required for all ASSA ABLOY SW200i-IG Installations.*

## Electric Lock Management

- Lock monitoring prevents operator(s) from opening door(s) until release of electrified lock
- Operator pulls door closed before opening, unjamming electric latch hardware
- Sequenced operation between operators for pairs of doors allowing lock release and astragal coordination
- Electric Lock Output: selectable 12 VDC, maximum 1200 mA / 24 VDC, maximum 600 mA

## Sensor Monitoring

- Monitored Door Mounted Presence Sensors – upon detection of sensor failure, the operator will automatically close in low energy mode
- Blanking Potentiometer: tells sensors on swing side of door when to shut off
- Torque Cancellation – Extended Closing Torque (ECT) is deactivated if signal is received from door mounted presence sensors of a possible obstruction

## Sensor Packages

- Sensor Packages as follows:

### ANSI A156.19

- Activation: push plates per your selection
- Safety devices: not required per ANSI. Optional door mounted presence sensors (DMPS) are available

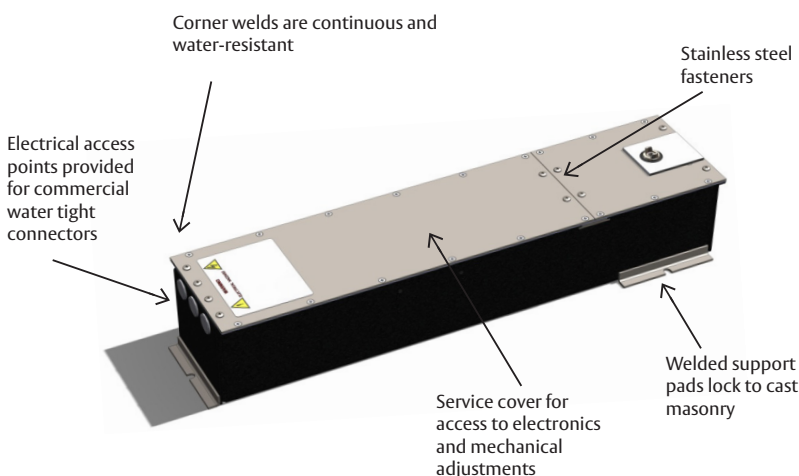
### ANSI A156.10

- Activation: push plates per your selection (motion sensors or push plates)

## Authorities

- UL/CUL approved
- UL325, UL991, UL244A, UL1998, UL1310
- IBC and CBC
- ANSI A156.10 / ANSI A156.19
- CAN/CSA-C22.2 NO 223-M91 and CAN/CSA-C22.2 NO 223-M92

## ASSA ABLOY SW200i-IG encased in a heavy gauge steel enclosure



## Authorities

Operator type	Electro-mechanical
Door width	36" – 48" (914 – 1219mm)
Door weight	100 – 700 lb (45 – 315 kg)
Power supply	120 V AC +10/-15%, 50/60 hz
Power consumption	Max. 300W
Auxiliary voltage	24 V DC, max. 700 mA
Internal control fuse	2 x T 6, 3 AH 250 V
Electro-mechanical locking device	Selectable: 12V DC, max.   1200 mA / 24 V DC, max. 600 mA
Opening time (0 – 80°)	Variable between 2 – 12 seconds
Closing time (90 – 100°)	Variable between 4 – 12 seconds
Hold open time	1,5-30 seconds
Ambient temperature	-31° F to 160° F (-35° C to 71° C)
Relative humidity	Max. 85%
Drive weight unit (non-condensing)	19.8 lb (9 kg)

This product is to be installed internally or externally with suitable weather protection.

**Class of protection** IP 20.

**Complies with:** ANSI/BHMA A156.19, ANSI/BHMA A156.10, UL325, UL 991, UL 244A, UL 1998, UL 1310, CAN/CSA-C22.2 NO 223-M91, CAN/CSA-C22.2 NO 247-92

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