



*invert your thinking*





#### **Smooth acceleration and deceleration**

The inverter / 3-phase motor combination provides silky-smooth ramp up to full speed and slow down to a fully controlled stop.

#### **Rapid operation with intelligent speed control**

For the ultimate combination of security and safety, the controller can be programmed to open suitable gates at up to 30 metres per minute but close at a slower and safer speed of 16 metres per minute.

#### **Very high starting and running thrust**

The three-phase motor combined with inverter control provides radically improved starting and running torques compared to the single-phase capacitor start motors typically used in most gate motor applications.

#### **High gate mass capacity**

The rugged diecast aluminium gearbox is designed to handle heavy industrial gates with high inertial loads.

#### **Efficient inverter drive for exceptional duty cycle capability**

The 3phase motor combined with the extremely efficient inverter drive allows the unit to operate at duty cycles of up to 95%.

#### **Battery back-up capability using innovative DC converter**

In applications which require power failure protection, a DC-to-DC converter with standby battery can be readily added.

#### **Internal limit switch system ensures pin-point stopping**

There are no external limit switches to fit or adjust. The well-proven DOSS system (Digital origin seeking system) keeps track of the gate position at all times.

#### **Sensitive anti-crushing control**

Although the inverter controlled 3 phase motor is capable of delivering a large driving force, the control electronics accurately monitors the applied load to provide sensitive anti-crushing protection.

#### **Reliable 3 phase induction motor runs on single phase power**

The unit can be operated almost continuously due to efficiency of the frequency inverter and the motor driven fan. Power failure protection for the A10 is achieved by simply adding an innovative DC converter module with standby battery.

## **SLIDING GATE AUTOMATION HAS JUST BEEN TURNED UPSIDE DOWN**

The new A10 operator is in a class of its own, using a high-torque 3-phase motor and custom designed frequency inverter to provide a fully speed-controlled system capable of moving industrial gates weighing up to 2 tons. On gates up to 1000kg the normal operating speed is a swift 16metres per minute. On lighter gates, thanks to the frequency inverter this speed can be increased to 30m/minute.

Power failure protection for the A10 is achieved by simply adding an innovative DC converter module with standby battery.



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ABOUT SLIDING GATE AUTOMATION

## FEATURES

- Gearbox height adjustment of 10mm using convenient jacking bolts.
- Forwards and backwards position adjustment of 30mm.
- Unimpeded access to mounting bolts when lockable cover is removed.
- Dedicated cable entry point allows easy removal of gearbox for maintenance.
- Logic controller and power inverter housed inside protected plastic enclosures under the main cover.
- "Flap-out" logic controller tray for easy commissioning.
- Convenient "plug in" / "pull off" connectors for both logic controller and power inverter.
- Lockable manual override prevents removal of cover.
- Jam free manual release operation.
- Multiple operating modes: standard, reversing, condominium, PIRAC, PLC.
- Selectable automatic closing with pushbutton override (adjustable time).
- Adjustable speed modes from 16 to 30m/min. Open and closing speed can be programmed independently (gate mass limited, refer to specifications below).

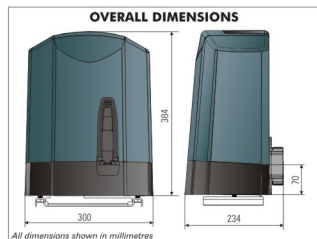
## Optional auxiliaries / accessories

- Pedestrian opening (adjustable opening and auto-close time).
- Remote gate status indicator (gate position, multiple collision detection, over temperature and light status).
- Courtesy / Pillar light timer with multi mode pre-flashing option (adjustable time).
- Safety beam input.
- Holiday lock-out.
- Free exit facility.

• DC converter for standby battery back-up operation. Unit housed in separate weatherproof enclosure. Refer to specifications below.

SPECIFICATIONS	A10 ENDURANCE	A10 HEAVY WEIGHT
Power Supply	<sup>2</sup> 220V +/- 10%, 50Hz - 1 Phase	<sup>2</sup> 220V +/- 10%, 50Hz - 1 Phase
Maximum Absorbed Current	6A	6A
Motor Voltage	220V 3 Phase	220V 3 Phase
Output Pinion	20 Tooth Mod 4	17 Tooth Mod 4
Starting Thrust	<sup>*</sup> 40kgF	<sup>**</sup> 30kgF
Rated Thrust	<sup>*</sup> 30kgF	<sup>**</sup> 22.5kgF
Operating Speed @ Rated Thrust	16m/min	<sup>3</sup> Adj. Up to 30m/min
Duty Cycle (continuous) <sup>2</sup>	90%	90%
Duty Cycle (1/2hr endurance) <sup>2</sup>	95%	95%
Ambient Temperature Range	-20°C to +50°C	-20°C to +50°C
Anti-crushing sensing	Electronic	Electronic
Motor Thermal Protection	Electronic	Electronic
Maximum Gate length	20m	17m
IP Rating	44	44
Optional Battery Back-up	Yes	Yes
Shipping Mass of Unit	15kg	15.kg
Maximum Gate Mass	<sup>*</sup> 1 000kg	<sup>**</sup> 600kg
		2 000kg

(1) 110V 60Hz Available to order. (2) At rated pull and 25°C maximum ambient temperature. (3) Dependent on pull force. (\*) Standard Speed (\*\*) Sprint Speed.



SPECIFICATIONS	DC CONVERTER
Input Voltage	12V DC
Input Current @ Rated Load	80A Peak/ 30A Continuous
Rated Output Voltage	310V DC
Battery Charger	3A
Cycles per A/Hr of Capacity	<sup>5</sup> Minimum 1 Open/Close Cycle
Maximum Duty Cycle	20%
Thermal Protection	Electronic
Enclosure	IP65 External Plastic Enclosure
Dimensions	330mm X 260mm X 120mm
Minimum Battery Size	12AH (External 40 AH optional)
Shipping Mass	5kg(excluding Battery)

(4) Upgradable on request. (5) 4m gate at rated thrust.

Ref: 1114LD.02.0001\_9



**Call 0860-CENTURION** for an authorised installer near you  
0860-236-887 (Sharecall number only applicable from within South Africa)