CHAMBERLAIN®

# GRIFCO®

Get serious. Get a Grifco.

# eDrive™

ML4103 ML4102 ML4153

# Low Cycle Roller Shutter Opener

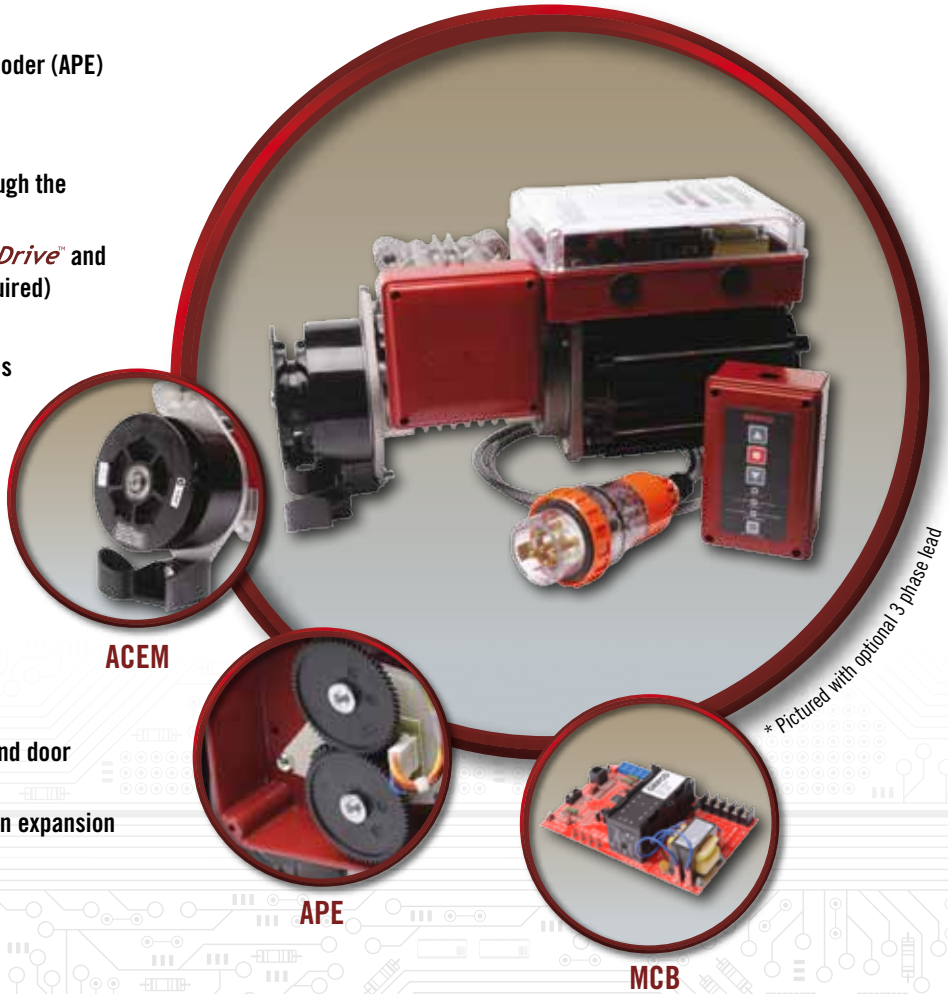
Equipped with a powerful single or three phase electric motor coupled with Grifco's proven self locking gear reduction system the *eDrive*™ ML series openers are ideally suited for low cycle commercial roller shutters up to 50m².

## *eDrive*™ FEATURES:

- Chamberlain's advanced Absolute Position Encoder (APE)
- Auto-reset thermal protection
- Mechanically interlocked contactors
- Provision for advanced diagnostic modes through the optional Hand Held Diagnostic Tool (HHDT)
- Universal Main Control Board (MCB) suits all *eDrive*™ and previous Maestro openers (conversion kit required)
- Bolt down MCB transformer (no solder joints)
- Auto learn for Chamberlain *monitored* IR beams
- Adjustable door behaviour configuration
- ACEM Detect for operator safety
- Optional pre-wired leads for 3 phase openers
- No on board fuses for increased reliability

## PROVEN GRIFCO FEATURES:

- Automatic Chain Engage Mechanism (ACEM)
- Reliable self locking gear reduction
- Three phase and single phase motor options
- Low voltage wall controller for programming and door operation
- Additional functionality through optional plug-in expansion boards
- Push button limit set through controller
- Three limit positions (standard)



# Accessories

### Remote control kit CGK844
Upgrade to remote control with 2 x 4 channel hand transmitters, receiver & photo beam, supplied complete with mini receiver card (MRC2).

### Access Control
For added security a wireless biometric fingerprint reader or keypad may be added (must be used in conjunction with MRC2 receiver & photo beam).

### Interchangeable Controllers
A large range of plug in low voltage controllers are available with key switch operation & key switch isolation.

### Photo Beams
A selection of reflective & beam to beam (monitored) photo cells are available to provide added safety and allow for door behaviour modification (pulse to close).

### Safety Reversing Edge
Airwave safety edge kit to detect obstruction on closing.

### MinEB
Mini expansion board to add an array of features to your MCB.
- Quick “plug-in” installation
- Comes with one relay, configured by DIP switches
- 24VDC to open or close
- Dock leveller isolation signal
- Door “closed” status
- Signals when not closed
- Signals when running
- 24VDC input to disable opener

### EB1 Elite Expansion Board
Elite expansion board for auxiliary device configuration
- Multiple function inputs, complete with 4 relays
- Features Elite expansion board, cradle and high lid only
- For full car park logic upgrade kit see E21D41

### E21D41 Elite Logic Upgrade Kit (Recommended for carpark use)
- Simple “plug-in” auto & auto/manual modes
- Auto close with user settable delay (0 – 300 seconds)
- Trigger input with variable door action sequences
- Connection to industry standard 6 pin radio receiver cards
- Variable obstruction behaviour settings
- Independent radio card response actions
- 4 status relays to allow connection to external devices
- Emergency Services Open and Close inputs
- Suits all voltages

### Mounting & Transmission
A selection of platewheels, sprockets, drive chain & mounting plates provide the necessary components for opener / door connection.

### Battery Back Up
Quality UPS systems are available for both single phase and 3 phase openers.

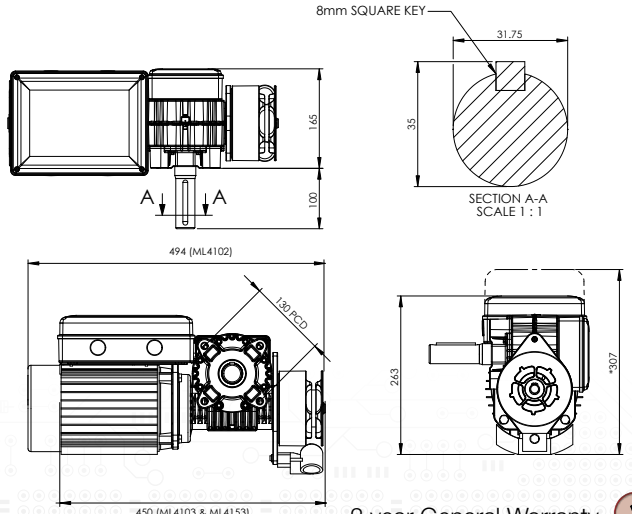
# Options

This opener is available with the following options
- Torque limiting clutch
- Waterproof to IP55

**Specifications**

| Order Build | Rated Load (Nm) | HP | Duty Rating (%) | Phase | Door Size ($m^2$)* | kW | Amp |
|---|---|---|---|---|---|---|---|
| ML4102 | 85 | 1.0 | 10 | 1 | 36 | 0.75 | 6.0 |
| ML4103 | 140 | 1.0 | 10 | 3 | 36 | 0.75 | 2.3 |
| ML4153 | 190 | 1.5 | 10 | 3 | 50 | 1.1 | 2.55 |

*Door size is stated as a guide only.
Specifications subject to change without notification.




2 year General Warranty ✓

Australian Made ✓

1 year Motor Warranty ✓

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