AL 401

Specification sheet

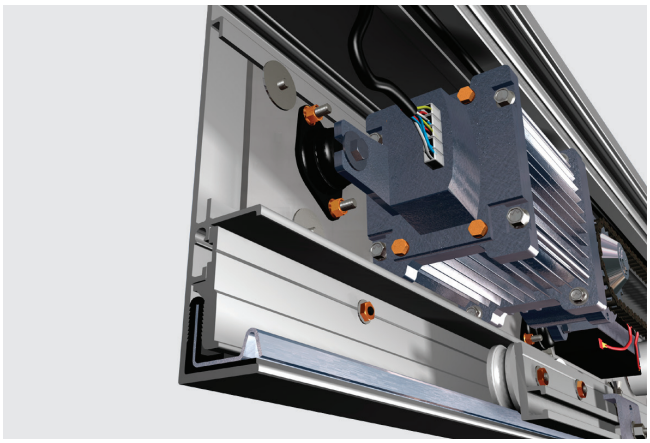
DORMA AL 401

The AL 401 automatic door operator is engineered to accommodate the extremes of automatic door control.

Its unique rubber mounted stainless steel tracking system and heavy duty cowl provide the ultimate in product longevity, load capacity and installation alternatives.

It's designed to control and operate bi parting and single sliding doors including aluminium framed and frameless glass doors up to 19mm thick.

The AL 401 automatic door operator is a proven performer in airports, shopping centres, supermarkets, hotels hospitals, financial institutions, sports stadiums and many other commercial sites that require a solution to the extremes of automatic door control.



The Automatic Door Operator
The Automatic single slide/bi-parting door operator is to be a 240-volt fully electric DORMA AL 401 SERIES and have a stainless steel rubber mounted tracking system, fully housed in extruded aluminium (height 265mm x width 152mm).

The equipment will incorporate the following:
A 3 phase 24 volt motor that is unable to be burnt out; a programmable logic control with current sensing and durable solid state switching of the motor; chain drive with average tensile strength of 1950kg and a 12.7mm pitch; self-lubricating gearbox with steel cut gears (not nylon or cast) for increased durability with no intermediate belts or pulleys; a polished stainless steel rubber mounted track; and a carriage assembly supported by glass fiber reinforced nylon track wheels with fully raced and sealed ball bearings.

The operator must have positive electric braking to close the doors smoothly; fully adjustable speed control with independent settings for open, close and braking; automatic re-closing circuitry to ensure doors re-close if partially opened; intermediate selectable opening widths or climate control facility.

The operator is to incorporate a failsafe device to open doors fully on power failure or on fire signal in accordance with the BCA section D2.19 and relevant Australian Standards; monitoring warning signal to indicate when the battery power is low; automatic reversing if obstructed during closing sequence with fully adjustable sensitivity settings; automatic stop and retry if obstructed during opening sequence at a predetermined programmable time and speed; dual sets of jamb fitting high gain (up to 15m) flush mounted safety beams (PE cells) that are resistant to sunlight.

Actuation
The operator is to be actuated by two DORMA microwave movement sensors as standard equipment; the sensors must be resistant against reflected sun light and have focusable area detection settings to reduce unnecessary actuations.
The operator is to be covered by a two (2) years parts and twelve (12) months labour warranty from date of invoice.

Optional Features

15mm and 19mm thick Frameless Glass Doors
Please consult your DORMA sales representative for advice on the application of 15mm and 19mm Frameless Glass.

Interface
Provides operational data output signals for building security system, i.e. open, closed, locked

Motor Lock
The operator is to have a CSIRO approved failsafe electric motor lock, compliant with the BCA section D2.21, which locks the doors via the drive train regardless of the door position. It is to incorporate a rechargeable battery reserve to ensure the doors remain locked for up to 30 hours under mains power failure with an option to extend.

Mode Pad
The operator is to be fitted with a DORMA one touch operation electronic mode pad with back lit LCD screen. The mode pad is to have an input jack for the operator programming device and integrated diagnostic feedback function that provides information on door function status and servicing requirements.

DORMA Australia Head Office
46-52 Abbott Road, Hallam,
Victoria 3803
T 1800 675 411 F (03) 8795 0280
info.au@dorma.com
www.dorma.com.au

DORMA New Zealand Head Office
Building P, 61-69 Patiki Road,
Avondale, Auckland 1026
T 0800 4 36762 F (09) 820 4909
info.nz@dorma.com
www.dorma.co.nz