Sheet

13

Adiem

Control unit for rapid roll-up doors

Adiem is an integrated control unit for rapid roll-up doors. It carries out the whole automation of the door: from the motor power supply by means of an integrated inverter (with speed and ramp regulation) to the management of the brake (24 or 230 V user selectable) and safety devices (photocells, edge, stop blinker and accessories). The drives are performed through the membrane keybord which is on the electrical cabinet or through additional push-buttons to connect on the electrical terminal. Open and closed positions of the door are controlled by an electric limit switch and therefore it is possible an integration also with doors normally equipped with contactor automation. It is possible to manage also the braking resistor of large dimension doors. Upon request, it is also available a battery power back-up unit, for emergency opening in case of loss of main supply.



Adiem

- Firmware totally updatable and customizable upon client request.
- Automatic closing adjustable and activable by the installer.
- Self-test of the photocells and safety edge before closure.
- Adjustable speed and slow down ramps to preserve the mechanics.
- Blinking output 230V for light signal.
- Possibility to connect a cycles counter.
- Partial opening programmable.
- Time-out shut down in case of movements block.
- Possibility of functioning also with present man.
- Opening, closing, partial opening and automatic closing inputs available on the electrical terminal.
- Soft movements inversion in case of photocells intervention.

Working conditions

Supply voltage:	**230V single-phase**
Motor supply voltage: (triangle connection)	**230V three-phase**
Motor power:	**1 Kw – 1,5 CV**
Working temperature:	**-20°C - +85°C**
Maximum working temperature:	**-40°C - +105°C**

Inputs and outputs

Movements command inputs: (opening, closing, partial opening and automatic closing)	**4**
Safety inputs: (photocells, edge and stop)	**3**
Electric limit switch inputs: (opening, closing and slowdown)	**3**
Motor output:	**230V three-phase**
Brake output:	**24 – 230V DC**
Blinker output:	**230V single-phase**

Communication door

Communication door:	**RS 232 C**
Maximum data speed:	**115.2 Kbit/sec.**

Processing

Microprocessor:	**16 bit**
Operational rate:	**16 MHz**
Flash memory program:	**128 Kbytes**

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