# Machine Protection Door
# Albany RP300/RP300 Wide

ASSA ABLOY

ASSA ABLOY Entrance Systems

The global leader in
door opening solutions

## HIGH SPEED

Rapid opening and closing ensures short cycle time.


## HIGH RELIABILITY

High reliability and low service even after years of high numbers of cycles.

## HIGH SAFETY

Safety contact edge or touchless safety edge. Safety limit switches according to PLe and SIL3.

# Machine Protection Door Albany RP300 / RP300 Wide

## Advantages of the door

- Rapid opening and closing ensures short cycle times up to 5 cycles per minute
- High reliability even after years of high numbers of cycles
- Safety limit switches according to EN ISO 13849-1 and EN 62061
- Doors conform to EN ISO 12100 and EN ISO 14119
- Versions conforming to various factory standards are possible
- Type tested machine protection door with fabric door blade

## Design

### SIDE FRAMES
The side frames are made of aluminum profiles. The front cover side frame can easily be removed and allows easy access for inspection and maintenance.

### DOOR CURTAIN
Depending on the application, various door curtains and colors are available (see details in the table). From partially transparent PVC curtains with colored reinforcement stripes with a high degree of transparency to highly rigid RollTex® and NomaTex®. All door curtains are silicon-free.
Side-mounted wind tabs reduce inward bending of the door blade. RollTex® according to TRAV (Technical rules for use of anti-fall guard vitrification).

### WINDOWS
For process monitoring when the door is closed, various window variants are optionally available. On PVC curtains with colored reinforcement strips, there are large viewing areas. For all other variants of curtains, optional horizontal or vertical windows are integrated in the door curtain. Also anti-UV windows conform to EN 1598.

### DRIVE UNIT
Gear motor with safety gear box incl. catching device, mounted on the right or left side.

### CONTROL SYSTEM
Depending on the application there are 2 control systems which offer a broad spectrum of speeds, power supplies and options for connecting control and safety devices.

Standard: ACS 50
Option: frequency converter control MCC

On request the door can also be delivered without control system. Extension box: Space saving extension box for MCC allows mounting of interface card or safety monitoring module for safety limit switches.

### SAFTEY LIMIT SWITCH INTEGRATED IN SIDE FRAME
For the indication “door safely closed”, safety limit switches are integrated in the side frame.
Optional evaluation by safety systems of the machine (version without safety monitoring module).
Due to the use of safety limit switches, machine protection doors cannot be equipped with a knock-out mechanism.

### MOTOR COVER AND TOP ROLL COVER
Motor cover is made of powder coated steel plate (RAL 9006). Top roll cover is made of aluminium.

### INTEGRATED CABLE CHAIN
Integrated cable chain guides cables for pre-running photocell or electrical safety contact edge inside the side frame.

### MANUAL ACTIVATION
During a power failure the door can be opened manually using a hand crank.

### SAFETY FEATURES
The bottom profile is monitored by an electrical safety contact edge. As option the door can be equipped with a pre-running photocell in combination with control system MCC. A door line photocell also prevents the door from closing when objects are interfering.

### CE GUIDELINES
This door is designed according to the regulations of the Workplace Directive of the UVV as well as the harmonized CE Guidelines including the EN 13241-1 and 2006/42/EG.

### INDICATION OF RISK
The security of the door is designed for normal use for vehicles in industrial environment corresponding to the harmonized CE-Guidelines. Next to this, special environmental conditions may have impact on the right choice of doortype. In case of any doubt, please contact our sales engineer to receive consulting in your application.

# Technical Data Albany RP300 / RP300 Wide

| TECHNICAL DATA | Albany RP300 | Albany RP300 Wide |
|---|---|---|
| Door dimension mm<br>(DW min./max.)<br>(DH min./max.) | <br>750 / 4000 mm<br>750 / 3500 mm | <br>750 / 6000 mm<br>750 / 5000 mm |
| Opening direction | vertical | vertical |
| Covers<br>Top roll cover<br>Motor cover | <br>•[1)]<br>• | <br>•[1)]<br>• |
| **Surface** | | |
| Side frame | Aluminium | Aluminium |
| Bottom profile | Aluminium | Aluminium |
| Top roll | Aluminium | Aluminium |
| **Safety** | | |
| Electrical safety contact edge | ✓ | ✓ |
| Door line photocell | ✓ | ✓ |
| Pre-running photocell (only in combination with control system MCC, door line photocell is optinal) | • | • |
| Drop down protection in drive unit | ✓ | ✓ |
| **Control system / Drive unit** | | |
| Drive unit | electrical | electrical |
| Motor power | 0,75 kW | 0,75 kW |
| Chain drive | • | • |
| Control systems | • ACS 50 / MCC | • ACS 50 / MCC |
| UL-Version | • | • |

| Speed (m/s) | ACS 50 | MCC | ACS 50 | MCC |
|---|---|---|---|---|
| Open/close up to max. | 1,0 / 1,0 | 2,4 / 1,3 | 0,8 / 0,8 | 1,7 / 1,0 |
| Open/close up to max. with MCC and pre-running photocell | | 2,4 / 1,8 | | 1,7 / 1,1 |
| Fuse protection | 10 A[2)] | 10 A[3)] | 10 A[2)] | 10 A[3)] |
| Typical cycle number/min.<br>3L/(N)/PE/220/230/380/400/415V; 50Hz<br>3L/(N)/PE/380/400/415/440/460/480V; 50/60Hz<br>UL: 3L/(N)/PE/230/460/480; 60Hz | max. 1<br>✓[4)] | max. 5*<br>✓[5)] | max. 1<br>✓[4)] | max. 1,5*<br>✓[5)] |
| Control voltage | 24 V DC | 24 V DC | 24 V DC | 24 V DC |
| Protection | IP 55 | IP 55 | IP 55 | IP 55 |

• Option
✓ Standard

*) Specific number of cycles on request

1) For doors of height < 2300 mm the use of top roll cover is required according to standard EN 13241-1.
2) 16 A at 220/230 V
3) 10 A recommended, 16 A max.
4) Transformer necessary for 440/480/500 V
5) Transformer necessary for 220/230/500 V

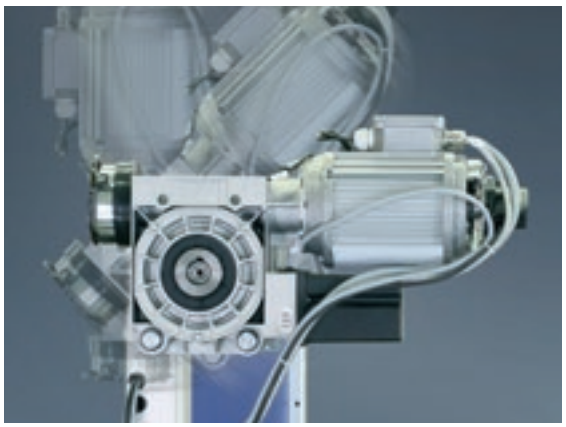
| **Door curtain (alternative)**<br>(All color codes according to RAL color card) | RollTex® Plus* | RollTex® Original* | NomaTex® */** | PVC with colored reinforcement stripes |
|---|---|---|---|---|
| Blue | • 5002 | • 5002 | • 5005 | ✓ 5010 |
| Orange | • 2009 | • 2009 | • 2009 | • 2011 |
| Grey | • 7001 | • 7001 | • 7038 | • 7037 |
| Yellow | | | • 1023 | • 1021 |
| Red | | | • 3000 | • 3002 |
| White | | | | • 9010 |
| Black | | | | • 9005 |
| Wind tabs | ✓ | | | |

*optional with window / **optional with vision panels

RollTex® according to TRAV (Technical rules for use of anti-fall guard vitrification)

**Saftey limit switch integrated in side frame**
For the indication “door safely closed”, safety limit switches according to PL d/Kat. 3 and PL e/Kat. 4 (EN ISO 13849-1), SIL 3 (EN 62061) are integrated in the side frame. Delivered with safety monitoring module as standard. Optional evaluation by safety systems of the machine (version without safety monitoring module).

**Floor mounting brackets**
The door can be mounted freestanding on floor with optional mounting brackets. Levelling screws allow adjustment by uneven floor.



**Motor position**
Motor can be mounted right- or lefthand side. Motor position can be chosen in step of 45°. A chain drive is available as option in case of space limitations.

Example of use: door in assembly line

In the automotive area or other industrial areas, the demands in automated manufacturing processes are high. Smallest default in the process can break down the production flow or can be danger for the employees.

In this machine protection doors protect people and processes in highly-automated commercial areas and make automation safer.
The doors are integrated in the processes and open and close according the production run. They enable the rapid change from complete isolation of the production step to free access to work piece and machine within seconds. It allows short cycle times and can be installed in machines, on production lines and railing systems within close proximity to the machine.

Example of use: door in production process

**Advantages of the Albany RP300/RP300 Wide**

- Service friendly: Two-pieced aluminum side frames offer easy access for inspection and maintenance.
- Pre-running photocell: in combination with control system Albany MCC a pre-running photocell is available as option. It provides more comfort and higher closing speed.
- Integrated cable chain: The cables of the electrical safety contact edge and pre-running photocell are guided in cable chains inside the side frame.
- Pluggable cables in the cable chain.
- Drive unit: A chain drive is available as option in case of space limitations.

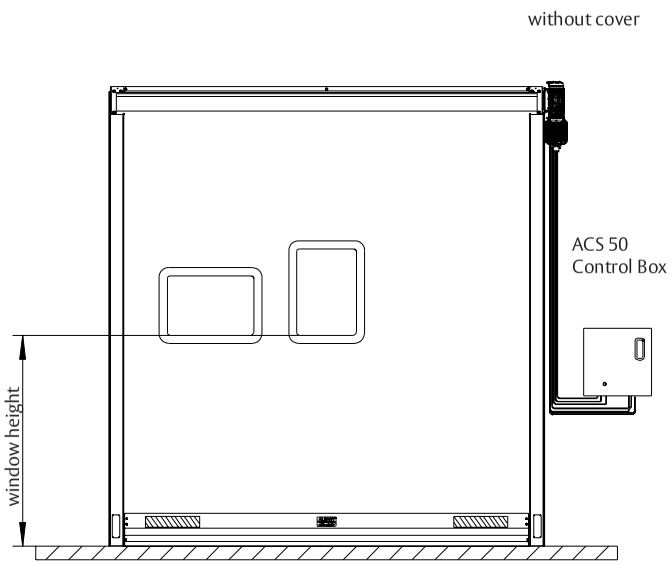
Example of use: place a workpiece into the process

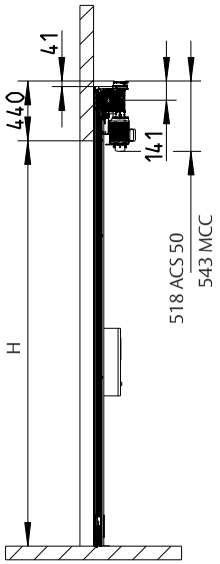
**Connection with the machine**

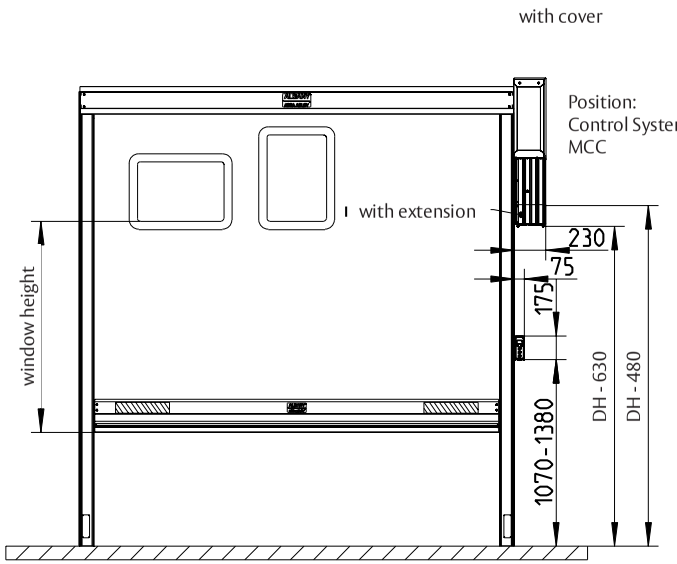
The in- and outputs of the door control unit can be connected directly to the control unit of the machine. In case of MCC with 24VDC potential or potential free contacts and in case of ACS 50 with potential free contacts. As standard the following signals are available:

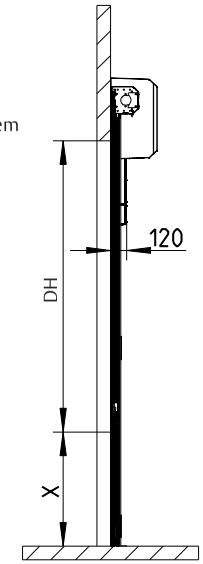
- 2 potential-free safety contacts, when the door is closed (safety limit switch)
- 1 output or potential-free signal, when the door is open
- 1 output or potential-free signal when the door is closed
- 1 output or potential-free signal for faults

# General drawing Albany RP300

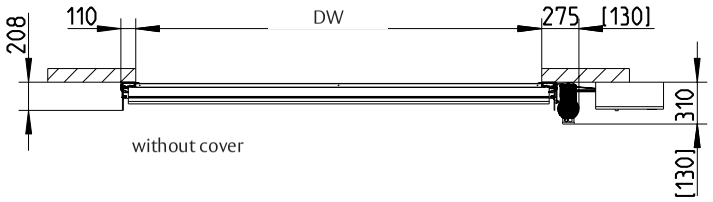


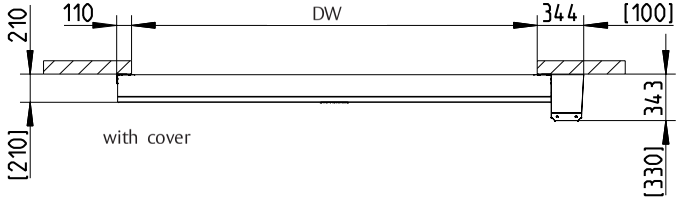



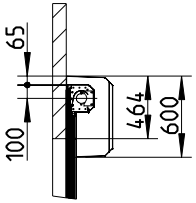



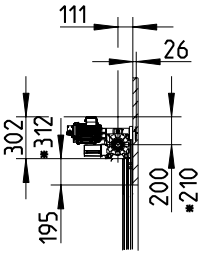

Option X-Level
Door does not close to floor, but down to X-Level

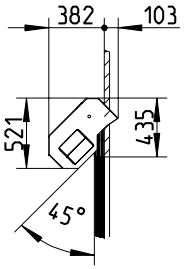


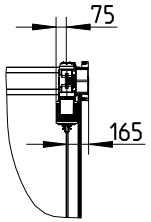



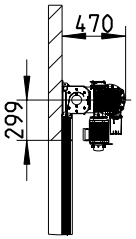


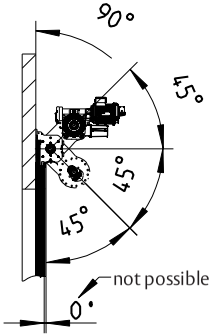


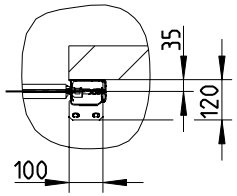



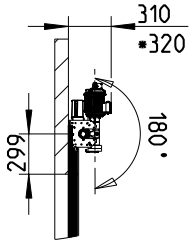



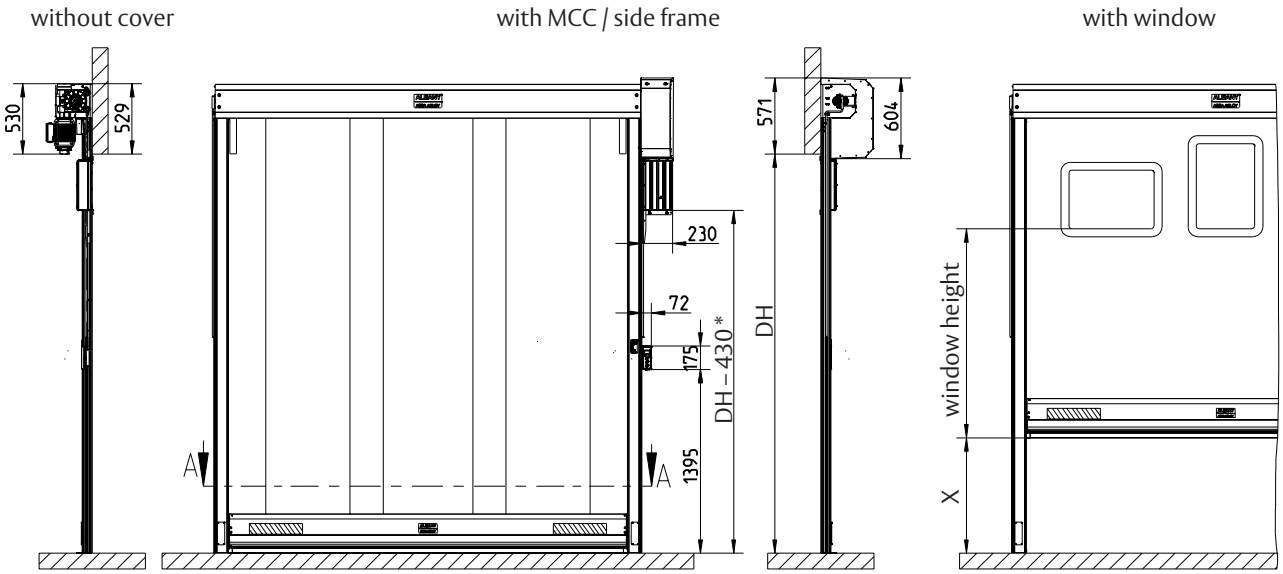



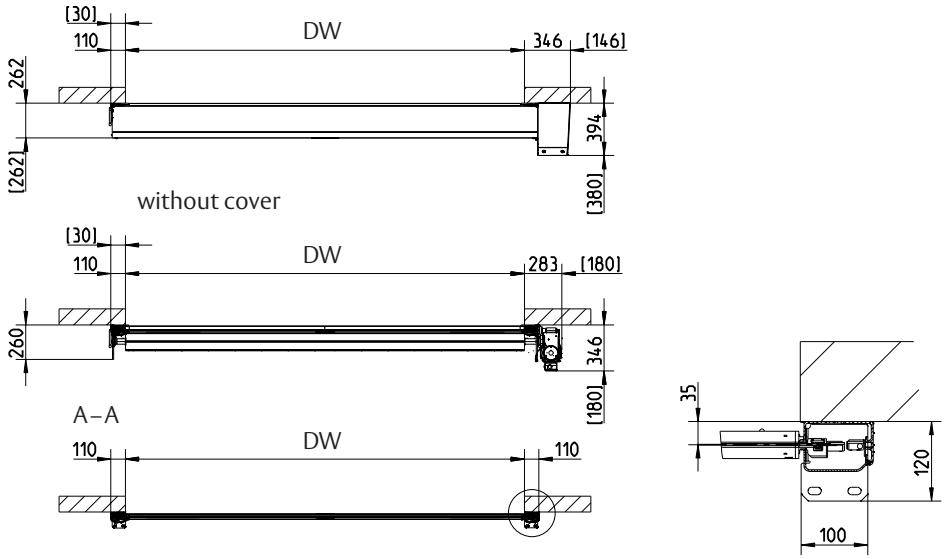

drive unit- and chain drive position not drawn at request

| |
|---|
| Tolerance ± 3 mm (for all dimensions) |
| Dimensions in [ ] = clearance for installation |

9300R0001/c

# General drawing Albany RP300 Wide




| Available sizes | | |
|---|---|---|
| | DW (B) | DH (H) |
| min. (mm) | 750 | 750 |
| max. (mm) | 6000 | 5000 |
| DW > 4000 oder DH > 3500 | | |

[ ] = Space needed for installation

ASSA ABLOY Entrance Systems is a leading supplier of entrance automation solutions for efficient flow of goods and people. With our globally recognized product brands Besam, Crawford, Albany and Megadoor, we offer products and services dedicated to satisfying end-user needs for safe, secure, convenient and sustainable operations.
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