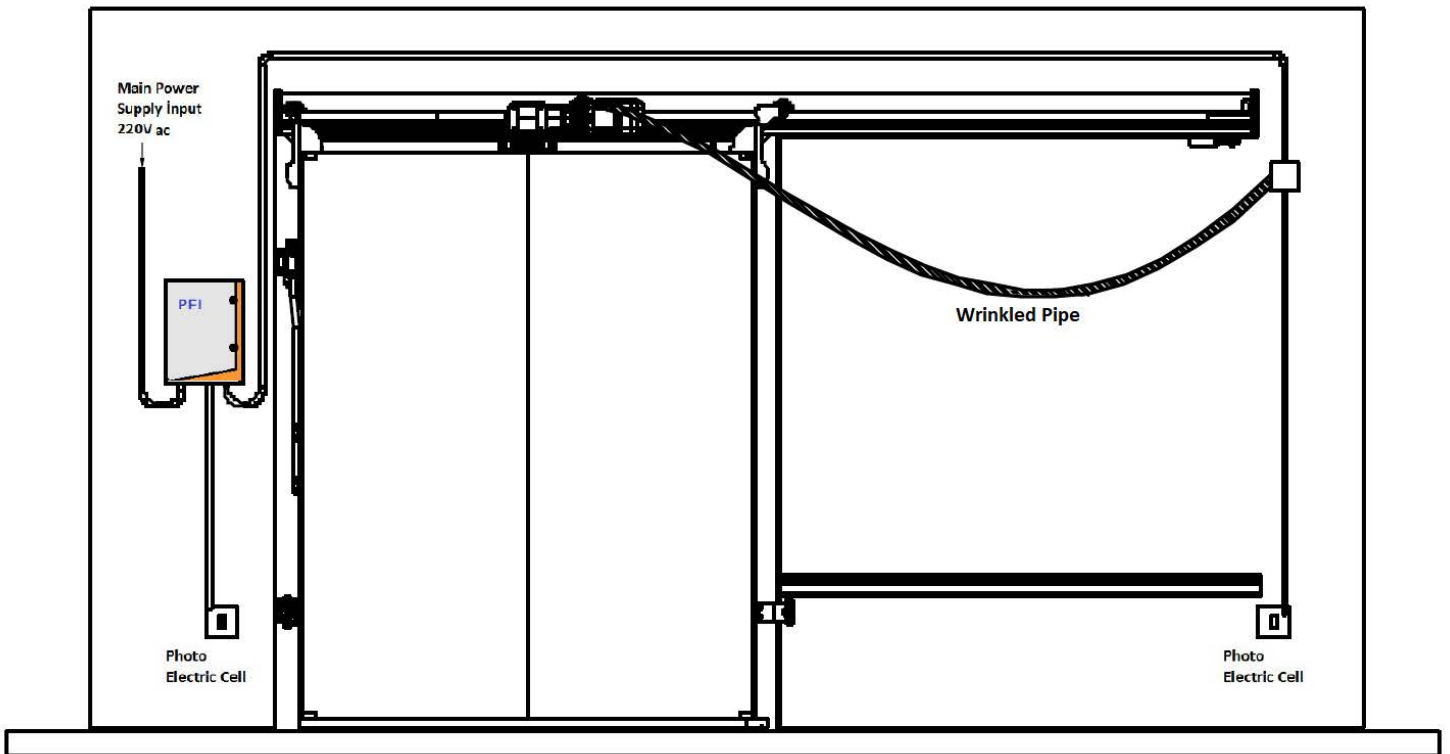
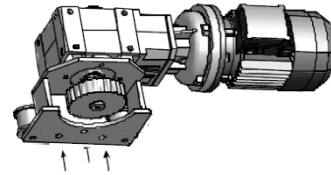


# Sliding Doors Automation Series

## *Installation manual*



## Electric Motor Technical Data Sheet



Moment of inertia (complete drive)	8.5 kgm <sup>2</sup> x10 <sup>-4</sup>
Output speed	54 min <sup>-1</sup>
Rated OHL on output shaft	5500 N
Safety factor	2.4
Torque output	61.78 Nm
Dynamic efficiency	0.94
Gear ratio	25.5
Gearbox inertia	1.6 kgm <sup>2</sup> x10 <sup>-4</sup>
Real gear ratio	25.46939
Acceleration torque	1.9 p.u.
Frequency rating	50 Hz
Locked rotor current	3.7 p.u.
Locked rotor torque	2.0 p.u.

Motor efficiency	Min % 66.8
	Max % 66.7
Motor inertia	6.9 kgm <sup>2</sup> x10 <sup>-4</sup>
Motor speed	1370 min <sup>-1</sup>
Motor weight	5.9 kg
cosφ Power factor	0.76
Power rating	0.37 kW
Rated current	Min 1.05 A
	Max 1.82 A
Rated voltage	Min 230 V
	Max 400 V
Torque rating	2.6 Nm

It is forbidden to cross the door during opening or closing. Never lean the arms, the hands, the head, the legs and feet out of the door closing line. Keep yourself always at a safety distance during the door blade movement. Never try to stop the door movement unless with the relevant emergency switch. Operate the door controls with gentleness avoiding exaggerated and unnecessary

### Electric Motor and Automation device installation

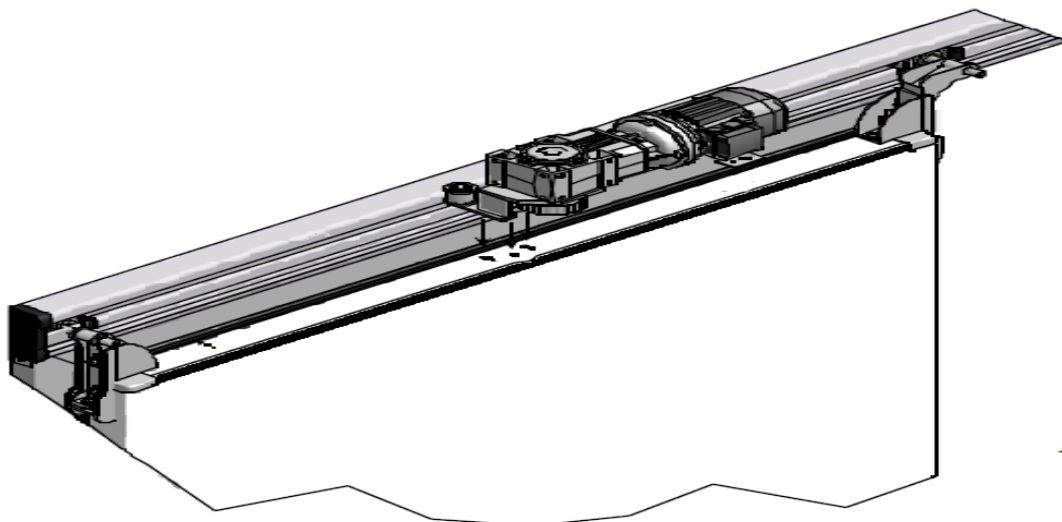
The installation has to be carried out by mechanical and electro technical qualified technicians able to certify, accordingly to the regulations on force, both the installation and the test.

The installation procedure is composed by the following two phases:

#### **PHASE 1**

Mechanical part installation

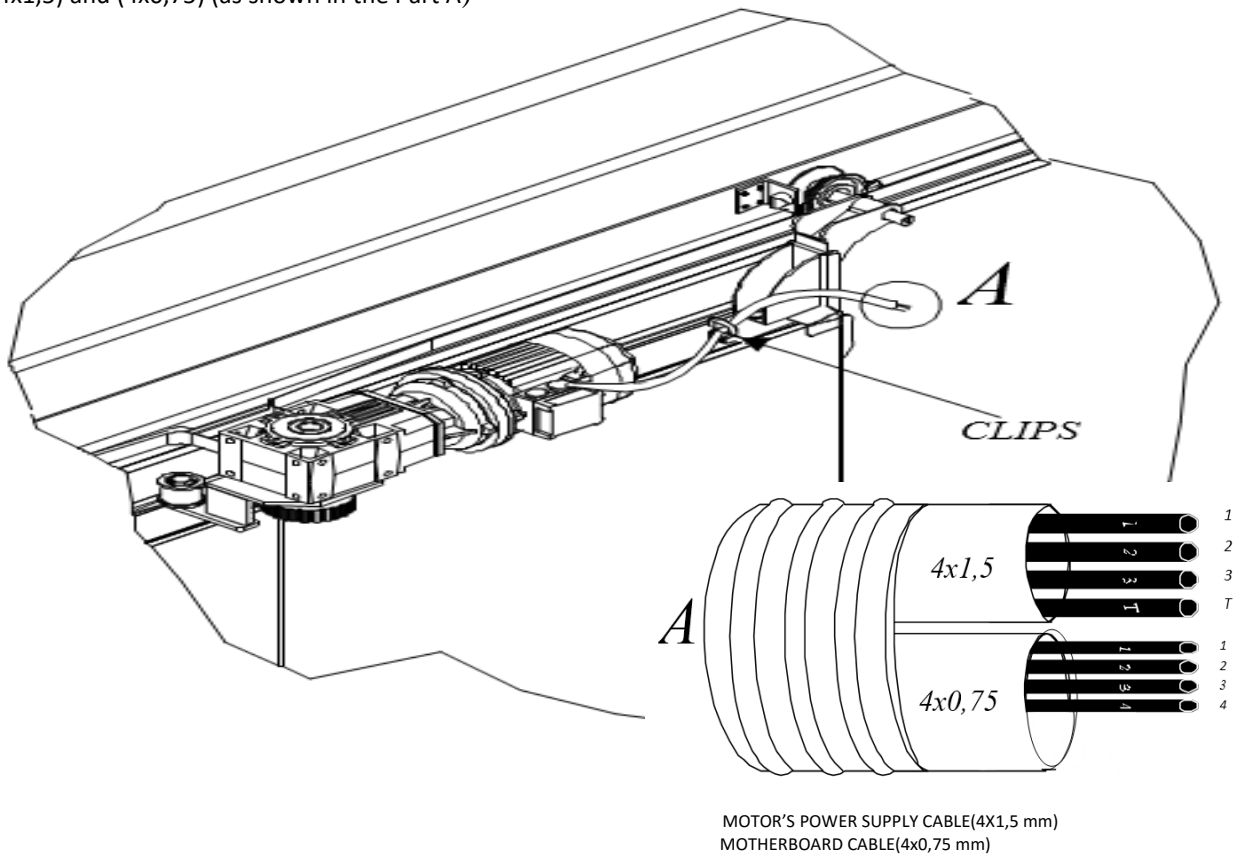
The automation mechanical part is composed by a gear motor to be installed on the door blade (as shown in the picture 1).



*Pict. 1*

**PHASE 2**

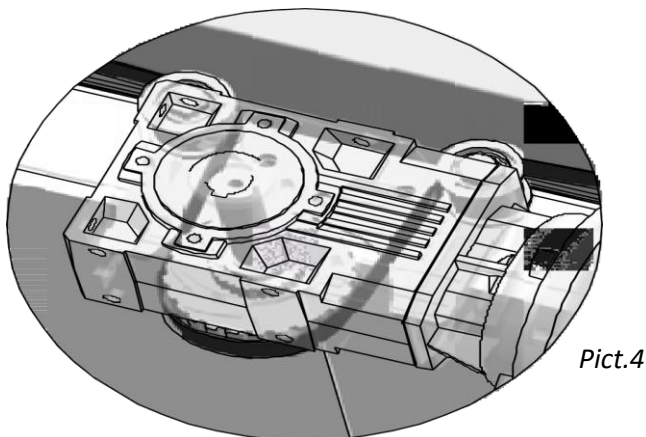
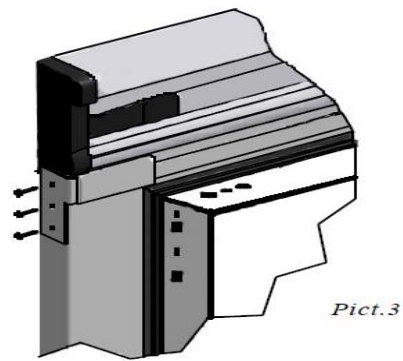
To fix on the door blade PFI provided clips for to installed the wrinkled pipe for to cables (4x1,5) and (4x0,75) (as shown in the Part A)



**PHASE 3**

The transmission is by a toothed belt to be installed as follows:

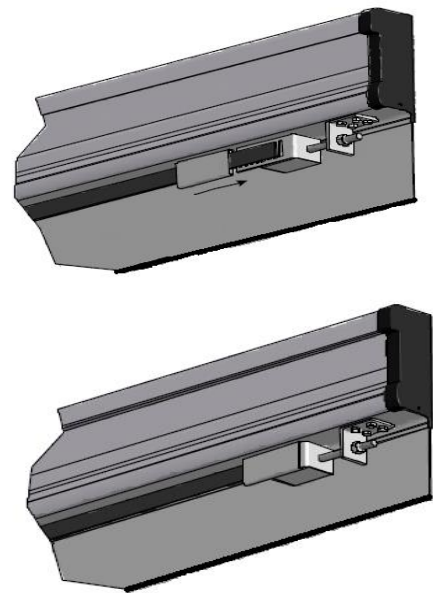
- Fix the belt holding bracket on the frame(as shown in the picture3).



- Connect the belt to the gear motor toothed pulley as shown in the picture4.

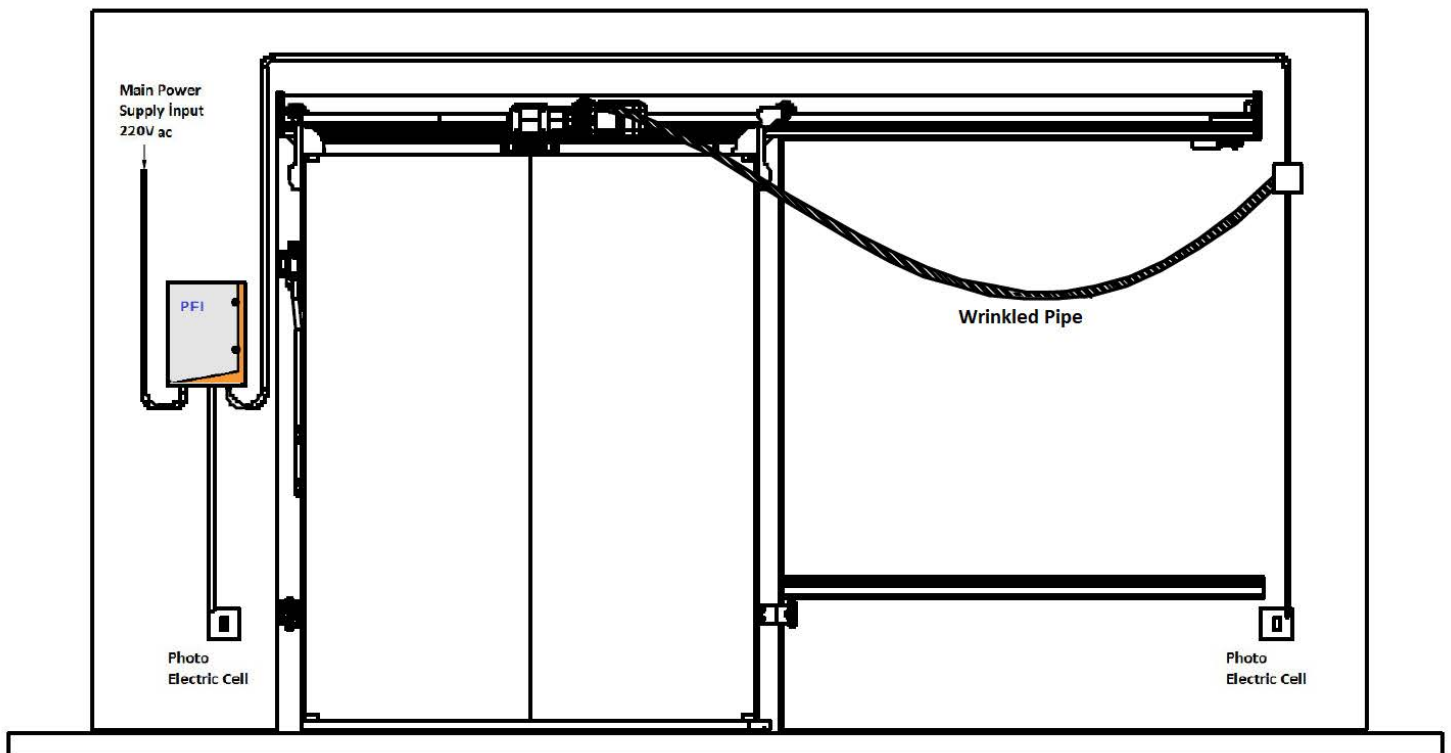
**PHASE 4**

Fix the other belt end to the belt stretcher adjusting properly its tension by the dedicated threaded pin(as shown in the picture5).



**Electric wiring:**

- Position and fix control panel and the tube for the cables passage as draft shown in the picture7



Pict.7

## CONNECTION DETAILS

X1			X2			X3		X4		X5			X6	X7		X8				X9																											
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○																										
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1	2	3	1	2	3	1	2	1	2	1	2	3	1	1	6	1	2	3	4	1	2																										
230V +	230V -	PE GROUND	24V+			24V -		CLOSING SENSOR	OPENING SENSOR	OPENING			CLOSING	EMERGENCY STOP		AUTOMATION			PE AUTOMATION GROUNDING	LIGHT 230V																											
230V +			230V -			GROUND			INSIDE BUTTON (1.No CABLES )& PULL CORD CABLE 1			PHOTOCELL RX TX ( 1 NO BROWN & YELLOW CABLE)			MOTOR SENSOR 3 NO			PHOTOCELL RX TX 2 NO WHITE CABLE			MOTOR AUTOMATION SENSOR 1 NO			MOTOR AUTOMATION SENSOR 2 NO			PHOTOCELL GREEN CABLE			PULL CORD CABLE 2			INSIDE BUTTON (2 NO CABLE)			MOTOR AUTOMATION CABLE 1 NO			MOTOR AUTOMATION CABLE 2 NO			MOTOR AUTOMATION CABLE 3 NO			MOTOR AUTOMATION CABLE YELLOW & OUTSIDE COVER		

MOTOR AUTOMATION , PHOTOCELL AND SENSOR OUTSIDE COVER CONNECTED TO GROUND

MAIN SUPPLY

L (+) → X1-1  
 N (-) → X1-2  
 PE, GND → X1-3

MOTOR A. SENSOR

Cable No:1 → X4-1  
 Cable No:2 → X4-2  
 Cable No:3 → X2-3  
 YELLOW & GREEN CABLE  
 → Pe grounding

MOTOR CONNECTION

Cable No:1 → X8-1  
 Cable No:2 → X8-2  
 Cable No:3 → X8-3  
 YELLOW & GREEN CABLE  
 → X8-4

PHOTOCELL

BROWN & YELLOW CABLE  
 → X2-2  
 WHITE CABLE → X3-2  
 GREEN CABLE → X5-1

FLASH LIGHT

Cable No:1 → X9-1  
 Cable No:2 → X9-2

PULL CORD SWITCH

Cable 1 → X2-1  
 Cable 2 → X5-2

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