

Computec

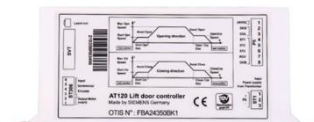
CDD6

Computec Door Drive 6



Special instructions

COMPATIBILITY WITH SIEMENS™ AT 120 KAG™ MOTOR M48X50



EN	CE					PRJ1166_01_07_05_01	rev.04
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What do you need

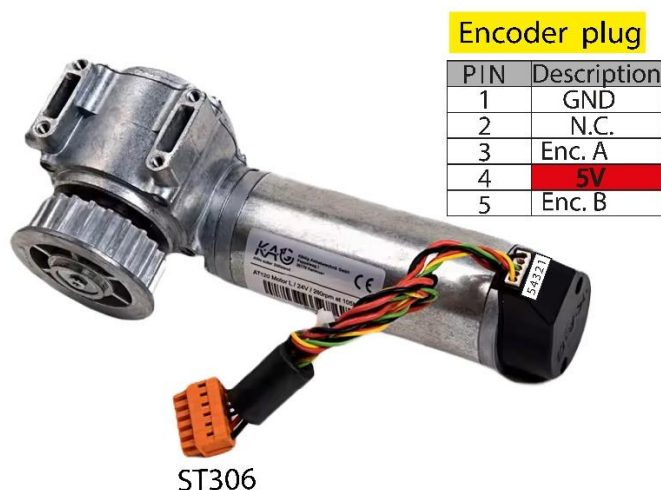
The following IDs are necessary to replace the Siemens™ AT 120 and rewire the installed motor to CDD6.

Computec ID	Description	Image
P2609	CDD6 Blister	
P2611	Universal plugs KIT CDD6	

How to connect CDD6 Drive to the KAG™ motor of Siemens™ AT120

The Siemens™ original connection uses a 6-poles plug with a motor KAG™ M48x50 to connect both the motor and the encoder. In the market are present also different compatible brands, for this reason is not possible to give an easy cross table but is necessary to identify the encoder wires.

Follow carefully the next steps!



WARNING

In figure 1 an original AT120 KAG M48x50 motor with 6 -poles connector ST306.

The wires colours and plugs changed over the years. Follow carefully the next steps to achieve a correct rewiring.

Figure 1

STEP 1: motor power cabling

Follow the below sequence:

1. Remove from ST306 plug the power motor wires (black and red).
2. Connect the 'Red' wire of ST306 to number 43 of X4, and the 'Black' wire to number 44 of X4.

In **Figure 2** it is shown the connector X4, included in P2611 kit.

The **Figure 3** shows the plug after the cabling.

The final result will look like **Figure 4**.

X4 plug



Figure 2

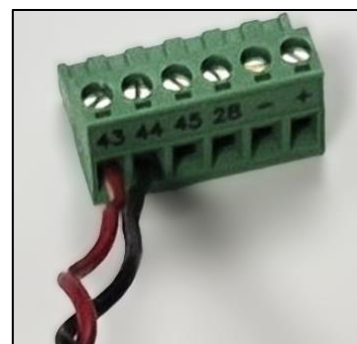


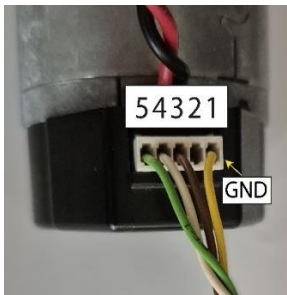
Figure 3



Figure 4

STEP 2: encoder cabling

Follow the below sequence:

1	Take the X5 adapter from the P2611 kit													
2	On the motor side identify the wires. It is important refer to the numbers and not to the colors of the wires, because they may be different.	 <table><tr><th>PIN</th><th>Description</th></tr><tr><td>1</td><td>GND</td></tr><tr><td>2</td><td>N.C.</td></tr><tr><td>3</td><td>Enc. A</td></tr><tr><td>4</td><td>5V</td></tr><tr><td>5</td><td>Enc. B</td></tr></table>	PIN	Description	1	GND	2	N.C.	3	Enc. A	4	5V	5	Enc. B
PIN	Description													
1	GND													
2	N.C.													
3	Enc. A													
4	5V													
5	Enc. B													
3	Once you have identified the color of pin 1 in encoder plug (step 2), you can proceed to remove this wire from the ST306 plug; then connect it to X5 at pos 1. Do the same for the other wires as reported in <i>table 1</i> Pay attention during this procedure, a wrong connection can damage the encoder of the motor													

			
Motor Encoder Plug		CDD6 (X5) 8 poles plug	Description
1	→	1	0V
3	→	2	ENC A
5	→	3	ENC B
-		4	HALL B (not used)
-		5	HALL C (not used)
-		6	HALL A (not used)
-		7	ID (not used)
4	→	8	5V

-Table 1-

STEP 3: connects to the CDD6

Now you can connect the X4 a X5 adapter to the CDD6 as shown in the image below



Step 4: CDD6 parameters settings

After the connection you can switch on the door drive a select the right motor as reported below:

P90 option	Description	
24	DC_KM48x50 (24V 1,8A) 15:1 encoder 100 pulses (original AT120 motor)	

STEP 5: troubleshooting

In case of wrong connections, the following error codes may be displayed:

Error / Alarm	Alarm	Description	Action
AL04	Motor connection error	The motor is not connected correctly	Reverse motor wires 43 – 44 (X4 plug)
AL05	Motor encoder failure	The encoder is not connected correctly	Check the encoder wires connection (step 2)
AL07	Motor jerk	The motor cable is not connected, or one single wire is not connected	Check motor cable connection and fix it

Please refer to the user manual of CDD6 for auto set cycle and further information.

Useful documents



www.computeelectronics.com

Options

Fast adapter

A pre-wired cable is available to replace the original KAG encoder cable. With this option the X5 adapter is not necessary, the cable has the RJ45 connector pre-wired, it is an easier way to speed up and avoid errors.

Computec ID	Description	Image
P4702	AT120 KAG encoder adapter for CDD6	

Motor

It is possible to replace the KAG motor with Dunker motor GR63x25. The motor is supplied pre-wired, the X5 adapter is not necessary.

Computec ID	Description	Image
P2506	Motore Dunker GR 63x25 24 Vdc SG80K RE 20L-2-100 IP54	

P90 option	Description
12	Dunker GR 63x25 + SG80K (15:1) + Enc100

Please write to csa@computeonline.it for any other request, as fast adapter or compatible motors replacement.