



EMERSON XCM25D Controller Replacement User Guide

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EMERSON XCM25D Controller Replacement



Controller replacement

- This manual describes the required working steps to replace a XCM-25D in case of controller damage on a ZX/CF unit.
- The spare part kit contains 3 “Hot Keys”, one for each unit family (ZXM*/CFM*, ZXL*/CFL* & ZXD*/CFD*). Choose correct “Hot Key” depending on unit family, upload the parameters from the “Hot Key” to the controller, and adjust the values for electrical protection according to following instructions.
- Interrupt the power supply of the unit. Disconnect the protection connectors and connect them on the new controller at the same terminals as before. Disconnect all the wires at the upper and lower parts of the controller.



- Open the cover of the cable guidance. Cut the cable ties, disconnect the grey and brown cables from the compressor contactor.
Pull out the cables from the current sensors of the controller.
- Unlock the 4 controller locks. Remove the old controller and mount the new controller in its place.



Parameter uploading

Choose correct “Hot Key” depending on unit family, then upload the parameters from the “Hot Key” to the controller

- Turn the controller off.
- Insert a pre-programmed “Hot Key” into the 5-pin receptacle and turn the controller on.
- The parameter list of the “Hot Key” will be automatically downloaded into the controller memory. The “doL” message will blink followed by a flashing “End” label.
- After 10 seconds, the controller will restart working with the new parameters.
Remove the “Hot Key”.
- NOTE: The message “Err” is displayed in case of a failed programming operation. In this case turn the unit off, then on again if you want to restart the download, or remove the “Hot Key” to abort the operation.

Parameter setting

- In order to adjust a dedicated unit with the proper settings, parameters have to be modified.
- For units with the TFD motor version, modify parameters H07 and H09.
For the required values refer to Tables 1, 2 and 3.

Table 1: ZXME & CFME > TFD (400V/3Ph/50Hz)

ZXME***-TFD & CFME***-TFD							
Parameter/Paramètre	020	025	030	040	050	060	075
H07	7.0	9.1	8.5	10.5	13.5	16.1	17
H09	5.4	5.4	8.0	10.4	13.4	14.5	15.4

Table 2: ZXLE & CFLE > TFD (400V/3Ph/50Hz)

ZXLE***-TFD & CFLE***-TFD						
Parameter/Paramètre	020	030	040	050	060	075
H07	7.9	7.8	12.1	14.0	16.0	19.3
H09	6.3	7.4	10.2	13.1	15.1	16.1

Table 3: ZXDE & CFDE > TFD (400V/3Ph/50Hz)

ZXDE***-TFD & CFDE***-TFD				
Parameter/Paramètre	040	050	060	075
H07	10.1	13.9	12.9	16.3
H09	8.7	12.5	12.6	15.4

For units with the PFJ (230V/1Ph/50Hz) motor version, modify parameters H07, H09, H13, H14 and H25. For the required values refer to Tables 4 and 5.	Für Verflüssigungssätze mit PFJ Motor (230V/1~/50Hz) die Parameter H07, H09, H13, H14 und H25 ändern. Die Werte sind den Tabellen 4 & 5 zu entnehmen.	Version moteur PFJ (230V/1Ph/50Hz) : régler les paramètres H07, H09, H13, H14 et H25 selon les valeurs données aux Tableaux 4 et 5.
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Table 4: ZXME & CFME > PFJ (230V/1Ph/50Hz)

ZXME***-PFJ & CFME***-PFJ				
Parameter/Paramètre	020	025	030	040
H07	18.5	20.5	23.0	28.0
H09	14.1	13.7	18.1	25.9
H13	190	190	190	190
H14	260	260	260	260
H25	NO	NO	NO	NO

Table 5: ZXLE & CFLE > PFJ (230V/1Ph/50Hz)

ZXLE***-PFJ & CFLE***-PFJ			
Parameter/Paramètre	020	025	030
H07	18.5	20.5	23.0
H09	15.0	17.2	19.6
H13	190	190	190
H14	260	260	260
H25	NO	NO	NO

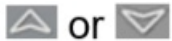
How to program the parameters (Pr1 and Pr2)

- Access pre-program level



Press simultaneously for about 3 seconds to access the pre-programming level. The message rtC (real time clock) appears.

- **Access program level**



Press the Up or Down key until the message PAR appears.

- **Access Pr1**



Press the SET button to enter the program level. First parameter C01 appears.

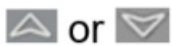
- **Access Pr2**



Go to t18 label using the arrows. Press the SET button. The blinking PAS label will be displayed; wait for a few seconds.

The display will show “0 – -” with blinking 0. Insert the password [321] using the and keys and confirm every digit with the key.

- **Select item**



Select the parameter or submenu using the arrows.

- **Show value**



Press the SET button.

- **Modify**



Press the SET button: the value will blink for 3 seconds, then the display will show the next parameter.

- **EXIT**



Press simultaneously to exit the programming mode, or wait for 30 seconds (MTO) without pressing any key.

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References

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